

16500 Railroad Avenue - Bay Area AQMD Air District, Annual

**16500 Railroad Avenue**  
**Bay Area AQMD Air District, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	22.40	1000sqft	2.49	22,400.00	0
Parking Lot	60.00	Space	0.17	24,000.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	4			<b>Operational Year</b>	2023
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	257.69	<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

Project Characteristics - CO2 Intensity Factor adjusted per PG&E's RPS projections.

Land Use - Lot acreage was updated to reflect the site plans, which say 2.66 acres total and 0.17 acres of parking.

Construction Phase - Total Days were adjusted to match applicant-provided information.

Grading - Based on applicant-provided questionnaire, 2.13 acres would be disturbed during grading.

Demolition -

Energy Use -

Energy Mitigation - 30 percent Title 24 exceedance is required for non-commercial buildings under the 2019 CBSC. Applicant-provided information shows that project would generate 20 kWh on-site.

Mobile Land Use Mitigation -

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	120.00
tblConstructionPhase	NumDays	220.00	120.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	3.00	10.00
tblConstructionPhase	PhaseEndDate	12/10/2021	10/18/2021
tblConstructionPhase	PhaseEndDate	11/12/2021	10/4/2021
tblConstructionPhase	PhaseEndDate	12/28/2020	1/11/2021
tblConstructionPhase	PhaseEndDate	1/8/2021	2/22/2021
tblConstructionPhase	PhaseEndDate	11/26/2021	4/19/2021
tblConstructionPhase	PhaseEndDate	12/31/2020	1/25/2021
tblConstructionPhase	PhaseStartDate	11/27/2021	5/4/2021
tblConstructionPhase	PhaseStartDate	1/9/2021	4/20/2021
tblConstructionPhase	PhaseStartDate	1/1/2021	1/26/2021
tblConstructionPhase	PhaseStartDate	11/13/2021	2/23/2021
tblConstructionPhase	PhaseStartDate	12/29/2020	1/12/2021
tblGrading	AcresOfGrading	10.00	0.00
tblGrading	AcresOfGrading	15.00	2.13
tblGrading	MaterialExported	0.00	40.00
tblLandUse	LotAcreage	0.51	2.49
tblLandUse	LotAcreage	0.54	0.17
tblProjectCharacteristics	CO2IntensityFactor	641.35	257.69

## 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	12-1-2020	2-28-2021	0.6896	0.6896
2	3-1-2021	5-31-2021	0.5341	0.5341
3	6-1-2021	8-31-2021	0.7497	0.7497
4	9-1-2021	9-30-2021	0.2445	0.2445
		Highest	0.7497	0.7497

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	0.1013	1.0000e-005	7.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4700e-003	1.4700e-003	0.0000	0.0000	1.5700e-003
Energy	3.1900e-003	0.0290	0.0243	1.7000e-004		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	54.1419	54.1419	3.1500e-003	1.1000e-003	54.5498
Mobile	0.0293	0.1340	0.3636	1.4100e-003	0.1281	1.1400e-003	0.1293	0.0344	1.0700e-003	0.0355	0.0000	129.5320	129.5320	4.3100e-003	0.0000	129.6396
Waste						0.0000	0.0000		0.0000	0.0000	5.6391	0.0000	5.6391	0.3333	0.0000	13.9706
Water						0.0000	0.0000		0.0000	0.0000	1.6434	3.2762	4.9196	0.1692	4.0600e-003	10.3590
<b>Total</b>	<b>0.1338</b>	<b>0.1630</b>	<b>0.3887</b>	<b>1.5800e-003</b>	<b>0.1281</b>	<b>3.3400e-003</b>	<b>0.1315</b>	<b>0.0344</b>	<b>3.2700e-003</b>	<b>0.0377</b>	<b>7.2825</b>	<b>186.9516</b>	<b>194.2340</b>	<b>0.5099</b>	<b>5.1600e-003</b>	<b>208.5206</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	0.1013	1.0000e-005	7.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4700e-003	1.4700e-003	0.0000	0.0000	1.5700e-003
Energy	2.4700e-003	0.0225	0.0189	1.3000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	45.9090	45.9090	2.8800e-003	9.5000e-004	46.2635
Mobile	0.0284	0.1283	0.3415	1.3100e-003	0.1181	1.0600e-003	0.1191	0.0317	9.9000e-004	0.0327	0.0000	119.9920	119.9920	4.0500e-003	0.0000	120.0932
Waste						0.0000	0.0000		0.0000	0.0000	5.6391	0.0000	5.6391	0.3333	0.0000	13.9706
Water						0.0000	0.0000		0.0000	0.0000	1.6434	3.2762	4.9196	0.1692	4.0600e-003	10.3590
<b>Total</b>	<b>0.1322</b>	<b>0.1508</b>	<b>0.3611</b>	<b>1.4400e-003</b>	<b>0.1181</b>	<b>2.7700e-003</b>	<b>0.1209</b>	<b>0.0317</b>	<b>2.7000e-003</b>	<b>0.0344</b>	<b>7.2825</b>	<b>169.1786</b>	<b>176.4611</b>	<b>0.5094</b>	<b>5.0100e-003</b>	<b>190.6878</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>1.24</b>	<b>7.50</b>	<b>7.09</b>	<b>8.86</b>	<b>7.84</b>	<b>17.07</b>	<b>8.07</b>	<b>7.82</b>	<b>17.43</b>	<b>8.66</b>	<b>0.00</b>	<b>9.51</b>	<b>9.15</b>	<b>0.10</b>	<b>2.91</b>	<b>8.55</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	12/1/2020	1/11/2021	5	30	
2	Site Preparation	Site Preparation	1/12/2021	1/25/2021	5	10	
3	Grading	Grading	1/26/2021	2/22/2021	5	20	
4	Building Construction	Building Construction	4/20/2021	10/4/2021	5	120	
5	Paving	Paving	2/23/2021	4/19/2021	5	40	
6	Architectural Coating	Architectural Coating	5/4/2021	10/18/2021	5	120	

**Acres of Grading (Site Preparation Phase): 2.13**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0.17**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 33,600; Non-Residential Outdoor: 11,200; Striped Parking Area: 1,440 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

**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	9.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	5.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	19.00	8.00	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
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0245	0.2409	0.1686	2.8000e-004		0.0133	0.0133		0.0124	0.0124	0.0000	24.2278	24.2278	6.2300e-003	0.0000	24.3835
<b>Total</b>	<b>0.0245</b>	<b>0.2409</b>	<b>0.1686</b>	<b>2.8000e-004</b>	<b>7.5000e-004</b>	<b>0.0133</b>	<b>0.0140</b>	<b>1.1000e-004</b>	<b>0.0124</b>	<b>0.0125</b>	<b>0.0000</b>	<b>24.2278</b>	<b>24.2278</b>	<b>6.2300e-003</b>	<b>0.0000</b>	<b>24.3835</b>



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**3.2 Demolition - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.0100e-003	2.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2644	0.2644	1.0000e-005	0.0000	0.2647
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.5000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0350	1.0350	3.0000e-005	0.0000	1.0356
<b>Total</b>	<b>5.3000e-004</b>	<b>1.3600e-003</b>	<b>3.8700e-003</b>	<b>1.0000e-005</b>	<b>1.2500e-003</b>	<b>1.0000e-005</b>	<b>1.2600e-003</b>	<b>3.3000e-004</b>	<b>1.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.2994</b>	<b>1.2994</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.3003</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					7.5000e-004	0.0000	7.5000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0245	0.2409	0.1686	2.8000e-004		0.0133	0.0133		0.0124	0.0124	0.0000	24.2278	24.2278	6.2300e-003	0.0000	24.3835
<b>Total</b>	<b>0.0245</b>	<b>0.2409</b>	<b>0.1686</b>	<b>2.8000e-004</b>	<b>7.5000e-004</b>	<b>0.0133</b>	<b>0.0140</b>	<b>1.1000e-004</b>	<b>0.0124</b>	<b>0.0125</b>	<b>0.0000</b>	<b>24.2278</b>	<b>24.2278</b>	<b>6.2300e-003</b>	<b>0.0000</b>	<b>24.3835</b>

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**3.2 Demolition - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.0100e-003	2.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2644	0.2644	1.0000e-005	0.0000	0.2647
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.5000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0350	1.0350	3.0000e-005	0.0000	1.0356
<b>Total</b>	<b>5.3000e-004</b>	<b>1.3600e-003</b>	<b>3.8700e-003</b>	<b>1.0000e-005</b>	<b>1.2500e-003</b>	<b>1.0000e-005</b>	<b>1.2600e-003</b>	<b>3.3000e-004</b>	<b>1.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.2994</b>	<b>1.2994</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.3003</b>

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3000e-004	0.0000	2.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9800e-003	0.0689	0.0507	8.0000e-005		3.6400e-003	3.6400e-003		3.4000e-003	3.4000e-003	0.0000	7.3750	7.3750	1.8900e-003	0.0000	7.4221
<b>Total</b>	<b>6.9800e-003</b>	<b>0.0689</b>	<b>0.0507</b>	<b>8.0000e-005</b>	<b>2.3000e-004</b>	<b>3.6400e-003</b>	<b>3.8700e-003</b>	<b>3.0000e-005</b>	<b>3.4000e-003</b>	<b>3.4300e-003</b>	<b>0.0000</b>	<b>7.3750</b>	<b>7.3750</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>7.4221</b>

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**3.2 Demolition - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.8000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0794	0.0794	0.0000	0.0000	0.0795
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	1.4000e-004	1.0000e-004	1.0200e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3039	0.3039	1.0000e-005	0.0000	0.3041
<b>Total</b>	<b>1.5000e-004</b>	<b>3.8000e-004</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>4.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.3834</b>	<b>0.3834</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3837</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					2.3000e-004	0.0000	2.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9800e-003	0.0689	0.0507	8.0000e-005		3.6400e-003	3.6400e-003		3.4000e-003	3.4000e-003	0.0000	7.3750	7.3750	1.8900e-003	0.0000	7.4221
<b>Total</b>	<b>6.9800e-003</b>	<b>0.0689</b>	<b>0.0507</b>	<b>8.0000e-005</b>	<b>2.3000e-004</b>	<b>3.6400e-003</b>	<b>3.8700e-003</b>	<b>3.0000e-005</b>	<b>3.4000e-003</b>	<b>3.4300e-003</b>	<b>0.0000</b>	<b>7.3750</b>	<b>7.3750</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>7.4221</b>

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**3.2 Demolition - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.8000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0794	0.0794	0.0000	0.0000	0.0795
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	1.4000e-004	1.0000e-004	1.0200e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3039	0.3039	1.0000e-005	0.0000	0.3041
<b>Total</b>	<b>1.5000e-004</b>	<b>3.8000e-004</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>4.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.3834</b>	<b>0.3834</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3837</b>

**3.3 Site Preparation - 2021**

**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					1.1300e-003	0.0000	1.1300e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7300e-003	0.0914	0.0538	1.2000e-004		3.5100e-003	3.5100e-003		3.2300e-003	3.2300e-003	0.0000	10.7632	10.7632	3.4800e-003	0.0000	10.8502
<b>Total</b>	<b>7.7300e-003</b>	<b>0.0914</b>	<b>0.0538</b>	<b>1.2000e-004</b>	<b>1.1300e-003</b>	<b>3.5100e-003</b>	<b>4.6400e-003</b>	<b>1.2000e-004</b>	<b>3.2300e-003</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>10.7632</b>	<b>10.7632</b>	<b>3.4800e-003</b>	<b>0.0000</b>	<b>10.8502</b>

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**3.3 Site Preparation - 2021**

**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	2.0000e-005	6.7000e-004	1.4000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1891	0.1891	1.0000e-005	0.0000	0.1894
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	9.0000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2672	0.2672	1.0000e-005	0.0000	0.2674
<b>Total</b>	<b>1.4000e-004</b>	<b>7.5000e-004</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.4563</b>	<b>0.4563</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4567</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					1.1300e-003	0.0000	1.1300e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7300e-003	0.0914	0.0538	1.2000e-004		3.5100e-003	3.5100e-003		3.2300e-003	3.2300e-003	0.0000	10.7632	10.7632	3.4800e-003	0.0000	10.8502
<b>Total</b>	<b>7.7300e-003</b>	<b>0.0914</b>	<b>0.0538</b>	<b>1.2000e-004</b>	<b>1.1300e-003</b>	<b>3.5100e-003</b>	<b>4.6400e-003</b>	<b>1.2000e-004</b>	<b>3.2300e-003</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>10.7632</b>	<b>10.7632</b>	<b>3.4800e-003</b>	<b>0.0000</b>	<b>10.8502</b>

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**3.3 Site Preparation - 2021**

**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	2.0000e-005	6.7000e-004	1.4000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1891	0.1891	1.0000e-005	0.0000	0.1894
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	9.0000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2672	0.2672	1.0000e-005	0.0000	0.2674
<b>Total</b>	<b>1.4000e-004</b>	<b>7.5000e-004</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.4563</b>	<b>0.4563</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4567</b>

**3.4 Grading - 2021**

**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					0.0602	0.0000	0.0602	0.0331	0.0000	0.0331	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0183	0.2021	0.0976	2.1000e-004		9.1600e-003	9.1600e-003		8.4200e-003	8.4200e-003	0.0000	18.1039	18.1039	5.8600e-003	0.0000	18.2503
<b>Total</b>	<b>0.0183</b>	<b>0.2021</b>	<b>0.0976</b>	<b>2.1000e-004</b>	<b>0.0602</b>	<b>9.1600e-003</b>	<b>0.0694</b>	<b>0.0331</b>	<b>8.4200e-003</b>	<b>0.0415</b>	<b>0.0000</b>	<b>18.1039</b>	<b>18.1039</b>	<b>5.8600e-003</b>	<b>0.0000</b>	<b>18.2503</b>

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**3.4 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.2400e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6680	0.6680	1.0000e-005	0.0000	0.6684
<b>Total</b>	<b>3.1000e-004</b>	<b>2.1000e-004</b>	<b>2.2400e-003</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>1.0000e-005</b>	<b>8.0000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6680</b>	<b>0.6680</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.6684</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					0.0602	0.0000	0.0602	0.0331	0.0000	0.0331	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0183	0.2021	0.0976	2.1000e-004		9.1600e-003	9.1600e-003		8.4200e-003	8.4200e-003	0.0000	18.1039	18.1039	5.8600e-003	0.0000	18.2502
<b>Total</b>	<b>0.0183</b>	<b>0.2021</b>	<b>0.0976</b>	<b>2.1000e-004</b>	<b>0.0602</b>	<b>9.1600e-003</b>	<b>0.0694</b>	<b>0.0331</b>	<b>8.4200e-003</b>	<b>0.0415</b>	<b>0.0000</b>	<b>18.1039</b>	<b>18.1039</b>	<b>5.8600e-003</b>	<b>0.0000</b>	<b>18.2502</b>

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**3.4 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.1000e-004	2.2400e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6680	0.6680	1.0000e-005	0.0000	0.6684
<b>Total</b>	<b>3.1000e-004</b>	<b>2.1000e-004</b>	<b>2.2400e-003</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>1.0000e-005</b>	<b>8.0000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6680</b>	<b>0.6680</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.6684</b>

**3.5 Building Construction - 2021**

**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	0.1227	0.9617	0.8738	1.5000e-003		0.0490	0.0490		0.0470	0.0470	0.0000	124.5892	124.5892	0.0245	0.0000	125.2020
<b>Total</b>	<b>0.1227</b>	<b>0.9617</b>	<b>0.8738</b>	<b>1.5000e-003</b>		<b>0.0490</b>	<b>0.0490</b>		<b>0.0470</b>	<b>0.0470</b>	<b>0.0000</b>	<b>124.5892</b>	<b>124.5892</b>	<b>0.0245</b>	<b>0.0000</b>	<b>125.2020</b>



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**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0501	0.0125	1.3000e-004	3.1500e-003	1.1000e-004	3.2600e-003	9.1000e-004	1.0000e-004	1.0100e-003	0.0000	12.4485	12.4485	6.1000e-004	0.0000	12.4638
Worker	3.5000e-003	2.4100e-003	0.0256	8.0000e-005	9.0100e-003	6.0000e-005	9.0700e-003	2.4000e-003	5.0000e-005	2.4500e-003	0.0000	7.6151	7.6151	1.7000e-004	0.0000	7.6194
<b>Total</b>	<b>5.0200e-003</b>	<b>0.0526</b>	<b>0.0381</b>	<b>2.1000e-004</b>	<b>0.0122</b>	<b>1.7000e-004</b>	<b>0.0123</b>	<b>3.3100e-003</b>	<b>1.5000e-004</b>	<b>3.4600e-003</b>	<b>0.0000</b>	<b>20.0636</b>	<b>20.0636</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>20.0832</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	0.1227	0.9617	0.8738	1.5000e-003		0.0490	0.0490		0.0470	0.0470	0.0000	124.5891	124.5891	0.0245	0.0000	125.2019
<b>Total</b>	<b>0.1227</b>	<b>0.9617</b>	<b>0.8738</b>	<b>1.5000e-003</b>		<b>0.0490</b>	<b>0.0490</b>		<b>0.0470</b>	<b>0.0470</b>	<b>0.0000</b>	<b>124.5891</b>	<b>124.5891</b>	<b>0.0245</b>	<b>0.0000</b>	<b>125.2019</b>

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**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0501	0.0125	1.3000e-004	3.1500e-003	1.1000e-004	3.2600e-003	9.1000e-004	1.0000e-004	1.0100e-003	0.0000	12.4485	12.4485	6.1000e-004	0.0000	12.4638
Worker	3.5000e-003	2.4100e-003	0.0256	8.0000e-005	9.0100e-003	6.0000e-005	9.0700e-003	2.4000e-003	5.0000e-005	2.4500e-003	0.0000	7.6151	7.6151	1.7000e-004	0.0000	7.6194
<b>Total</b>	<b>5.0200e-003</b>	<b>0.0526</b>	<b>0.0381</b>	<b>2.1000e-004</b>	<b>0.0122</b>	<b>1.7000e-004</b>	<b>0.0123</b>	<b>3.3100e-003</b>	<b>1.5000e-004</b>	<b>3.4600e-003</b>	<b>0.0000</b>	<b>20.0636</b>	<b>20.0636</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>20.0832</b>

**3.6 Paving - 2021**

**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	0.0213	0.2130	0.2355	3.6000e-004		0.0117	0.0117		0.0107	0.0107	0.0000	31.0096	31.0096	9.8300e-003	0.0000	31.2553
Paving	2.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0215</b>	<b>0.2130</b>	<b>0.2355</b>	<b>3.6000e-004</b>		<b>0.0117</b>	<b>0.0117</b>		<b>0.0107</b>	<b>0.0107</b>	<b>0.0000</b>	<b>31.0096</b>	<b>31.0096</b>	<b>9.8300e-003</b>	<b>0.0000</b>	<b>31.2553</b>

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**3.6 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2000e-004	6.4000e-004	6.7300e-003	2.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	2.0040	2.0040	4.0000e-005	0.0000	2.0051
<b>Total</b>	<b>9.2000e-004</b>	<b>6.4000e-004</b>	<b>6.7300e-003</b>	<b>2.0000e-005</b>	<b>2.3700e-003</b>	<b>2.0000e-005</b>	<b>2.3900e-003</b>	<b>6.3000e-004</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>2.0040</b>	<b>2.0040</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>2.0051</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	0.0213	0.2130	0.2355	3.6000e-004		0.0117	0.0117		0.0107	0.0107	0.0000	31.0096	31.0096	9.8300e-003	0.0000	31.2552
Paving	2.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0215</b>	<b>0.2130</b>	<b>0.2355</b>	<b>3.6000e-004</b>		<b>0.0117</b>	<b>0.0117</b>		<b>0.0107</b>	<b>0.0107</b>	<b>0.0000</b>	<b>31.0096</b>	<b>31.0096</b>	<b>9.8300e-003</b>	<b>0.0000</b>	<b>31.2552</b>

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**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2000e-004	6.4000e-004	6.7300e-003	2.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	2.0040	2.0040	4.0000e-005	0.0000	2.0051
<b>Total</b>	<b>9.2000e-004</b>	<b>6.4000e-004</b>	<b>6.7300e-003</b>	<b>2.0000e-005</b>	<b>2.3700e-003</b>	<b>2.0000e-005</b>	<b>2.3900e-003</b>	<b>6.3000e-004</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>2.0040</b>	<b>2.0040</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>2.0051</b>

**3.7 Architectural Coating - 2021**

**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	0.1218					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.0916	0.1091	1.8000e-004		5.6500e-003	5.6500e-003		5.6500e-003	5.6500e-003	0.0000	15.3195	15.3195	1.0500e-003	0.0000	15.3458
<b>Total</b>	<b>0.1349</b>	<b>0.0916</b>	<b>0.1091</b>	<b>1.8000e-004</b>		<b>5.6500e-003</b>	<b>5.6500e-003</b>		<b>5.6500e-003</b>	<b>5.6500e-003</b>	<b>0.0000</b>	<b>15.3195</b>	<b>15.3195</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>15.3458</b>

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**3.7 Architectural Coating - 2021**

**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	7.4000e-004	5.1000e-004	5.3800e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9100e-003	5.0000e-004	1.0000e-005	5.2000e-004	0.0000	1.6032	1.6032	4.0000e-005	0.0000	1.6041
<b>Total</b>	<b>7.4000e-004</b>	<b>5.1000e-004</b>	<b>5.3800e-003</b>	<b>2.0000e-005</b>	<b>1.9000e-003</b>	<b>1.0000e-005</b>	<b>1.9100e-003</b>	<b>5.0000e-004</b>	<b>1.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.6032</b>	<b>1.6032</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.6041</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	0.1218					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.0916	0.1091	1.8000e-004		5.6500e-003	5.6500e-003		5.6500e-003	5.6500e-003	0.0000	15.3195	15.3195	1.0500e-003	0.0000	15.3458
<b>Total</b>	<b>0.1349</b>	<b>0.0916</b>	<b>0.1091</b>	<b>1.8000e-004</b>		<b>5.6500e-003</b>	<b>5.6500e-003</b>		<b>5.6500e-003</b>	<b>5.6500e-003</b>	<b>0.0000</b>	<b>15.3195</b>	<b>15.3195</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>15.3458</b>

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**3.7 Architectural Coating - 2021**

**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	7.4000e-004	5.1000e-004	5.3800e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9100e-003	5.0000e-004	1.0000e-005	5.2000e-004	0.0000	1.6032	1.6032	4.0000e-005	0.0000	1.6041
<b>Total</b>	<b>7.4000e-004</b>	<b>5.1000e-004</b>	<b>5.3800e-003</b>	<b>2.0000e-005</b>	<b>1.9000e-003</b>	<b>1.0000e-005</b>	<b>1.9100e-003</b>	<b>5.0000e-004</b>	<b>1.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.6032</b>	<b>1.6032</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.6041</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Transit Accessibility

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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	0.0284	0.1283	0.3415	1.3100e-003	0.1181	1.0600e-003	0.1191	0.0317	9.9000e-004	0.0327	0.0000	119.9920	119.9920	4.0500e-003	0.0000	120.0932
Unmitigated	0.0293	0.1340	0.3636	1.4100e-003	0.1281	1.1400e-003	0.1293	0.0344	1.0700e-003	0.0355	0.0000	129.5320	129.5320	4.3100e-003	0.0000	129.6396

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	156.13	29.57	15.23	344,269	317,282
Parking Lot	0.00	0.00	0.00		
Total	156.13	29.57	15.23	344,269	317,282

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Parking Lot	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive 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	21.4438	21.4438	2.4100e-003	5.0000e-004	21.6529
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22.6086	22.6086	2.5400e-003	5.3000e-004	22.8291
NaturalGas Mitigated	2.4700e-003	0.0225	0.0189	1.3000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	24.4652	24.4652	4.7000e-004	4.5000e-004	24.6106
NaturalGas Unmitigated	3.1900e-003	0.0290	0.0243	1.7000e-004		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	31.5333	31.5333	6.0000e-004	5.8000e-004	31.7207



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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					
General Light Industry	590912	3.1900e-003	0.0290	0.0243	1.7000e-004		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	31.5333	31.5333	6.0000e-004	5.8000e-004	31.7207
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>3.1900e-003</b>	<b>0.0290</b>	<b>0.0243</b>	<b>1.7000e-004</b>		<b>2.2000e-003</b>	<b>2.2000e-003</b>		<b>2.2000e-003</b>	<b>2.2000e-003</b>	<b>0.0000</b>	<b>31.5333</b>	<b>31.5333</b>	<b>6.0000e-004</b>	<b>5.8000e-004</b>	<b>31.7207</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					
General Light Industry	458461	2.4700e-003	0.0225	0.0189	1.3000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	24.4652	24.4652	4.7000e-004	4.5000e-004	24.6106
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>2.4700e-003</b>	<b>0.0225</b>	<b>0.0189</b>	<b>1.3000e-004</b>		<b>1.7100e-003</b>	<b>1.7100e-003</b>		<b>1.7100e-003</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>24.4652</b>	<b>24.4652</b>	<b>4.7000e-004</b>	<b>4.5000e-004</b>	<b>24.6106</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			
General Light Industry	185024	21.6268	2.4300e-003	5.0000e-004	21.8377
Parking Lot	8400	0.9818	1.1000e-004	2.0000e-005	0.9914
<b>Total</b>		<b>22.6086</b>	<b>2.5400e-003</b>	<b>5.2000e-004</b>	<b>22.8291</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	175068	20.4631	2.3000e-003	4.8000e-004	20.6626
Parking Lot	8390	0.9807	1.1000e-004	2.0000e-005	0.9902
<b>Total</b>		<b>21.4438</b>	<b>2.4100e-003</b>	<b>5.0000e-004</b>	<b>21.6529</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1013	1.0000e-005	7.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4700e-003	1.4700e-003	0.0000	0.0000	1.5700e-003
Unmitigated	0.1013	1.0000e-005	7.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4700e-003	1.4700e-003	0.0000	0.0000	1.5700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0122					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0890					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	7.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4700e-003	1.4700e-003	0.0000	0.0000	1.5700e-003
<b>Total</b>	<b>0.1013</b>	<b>1.0000e-005</b>	<b>7.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.4700e-003</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5700e-003</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0122					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0890					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	7.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4700e-003	1.4700e-003	0.0000	0.0000	1.5700e-003
<b>Total</b>	<b>0.1013</b>	<b>1.0000e-005</b>	<b>7.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.4700e-003</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5700e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.9196	0.1692	4.0600e-003	10.3590
Unmitigated	4.9196	0.1692	4.0600e-003	10.3590

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	5.18 / 0	4.9196	0.1692	4.0600e-003	10.3590
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.9196</b>	<b>0.1692</b>	<b>4.0600e-003</b>	<b>10.3590</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			
General Light Industry	5.18 / 0	4.9196	0.1692	4.0600e-003	10.3590
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.9196</b>	<b>0.1692</b>	<b>4.0600e-003</b>	<b>10.3590</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.6391	0.3333	0.0000	13.9706
Unmitigated	5.6391	0.3333	0.0000	13.9706

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### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	27.78	5.6391	0.3333	0.0000	13.9706
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.6391</b>	<b>0.3333</b>	<b>0.0000</b>	<b>13.9706</b>

#### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	27.78	5.6391	0.3333	0.0000	13.9706
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.6391</b>	<b>0.3333</b>	<b>0.0000</b>	<b>13.9706</b>

### 9.0 Operational Offroad

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

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### 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

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16500 Railroad Avenue - Bay Area AQMD Air District, Summer

**16500 Railroad Avenue**  
**Bay Area AQMD Air District, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	22.40	1000sqft	2.49	22,400.00	0
Parking Lot	60.00	Space	0.17	24,000.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	4			<b>Operational Year</b>	2023
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	257.69	<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

Project Characteristics - CO2 Intensity Factor adjusted per PG&E's RPS projections.

Land Use - Lot acreage was updated to reflect the site plans, which say 2.66 acres total and 0.17 acres of parking.

Construction Phase - Total Days were adjusted to match applicant-provided information.

Grading - Based on applicant-provided questionnaire, 2.13 acres would be disturbed during grading.

Demolition -

Energy Use -

Energy Mitigation - 30 percent Title 24 exceedance is required for non-commercial buildings under the 2019 CBSC. Applicant-provided information shows that project would generate 20 kWh on-site.

Mobile Land Use Mitigation -

## 16500 Railroad Avenue - Bay Area AQMD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	120.00
tblConstructionPhase	NumDays	220.00	120.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	3.00	10.00
tblConstructionPhase	PhaseEndDate	12/10/2021	10/18/2021
tblConstructionPhase	PhaseEndDate	11/12/2021	10/4/2021
tblConstructionPhase	PhaseEndDate	12/28/2020	1/11/2021
tblConstructionPhase	PhaseEndDate	1/8/2021	2/22/2021
tblConstructionPhase	PhaseEndDate	11/26/2021	4/19/2021
tblConstructionPhase	PhaseEndDate	12/31/2020	1/25/2021
tblConstructionPhase	PhaseStartDate	11/27/2021	5/4/2021
tblConstructionPhase	PhaseStartDate	1/9/2021	4/20/2021
tblConstructionPhase	PhaseStartDate	1/1/2021	1/26/2021
tblConstructionPhase	PhaseStartDate	11/13/2021	2/23/2021
tblConstructionPhase	PhaseStartDate	12/29/2020	1/12/2021
tblGrading	AcresOfGrading	10.00	0.00
tblGrading	AcresOfGrading	15.00	2.13
tblGrading	MaterialExported	0.00	40.00
tblLandUse	LotAcreage	0.51	2.49
tblLandUse	LotAcreage	0.54	0.17
tblProjectCharacteristics	CO2IntensityFactor	641.35	257.69

## 2.0 Emissions Summary

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16500 Railroad Avenue - Bay Area AQMD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.5554	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0180	0.0180	5.0000e-005		0.0192
Energy	0.0175	0.1587	0.1333	9.5000e-004		0.0121	0.0121		0.0121	0.0121		190.4632	190.4632	3.6500e-003	3.4900e-003	191.5950
Mobile	0.2431	0.9418	2.7918	0.0109	0.9683	8.3000e-003	0.9766	0.2591	7.7600e-003	0.2668		1,098.9507	1,098.9507	0.0350		1,099.8249
<b>Total</b>	<b>0.8160</b>	<b>1.1006</b>	<b>2.9336</b>	<b>0.0118</b>	<b>0.9683</b>	<b>0.0204</b>	<b>0.9887</b>	<b>0.2591</b>	<b>0.0199</b>	<b>0.2789</b>		<b>1,289.4319</b>	<b>1,289.4319</b>	<b>0.0387</b>	<b>3.4900e-003</b>	<b>1,291.4391</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	0.5554	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0180	0.0180	5.0000e-005		0.0192
Energy	0.0136	0.1231	0.1034	7.4000e-004		9.3600e-003	9.3600e-003		9.3600e-003	9.3600e-003		147.7714	147.7714	2.8300e-003	2.7100e-003	148.6495
Mobile	0.2361	0.9027	2.6103	0.0101	0.8924	7.7200e-003	0.9001	0.2387	7.2100e-003	0.2460		1,017.9243	1,017.9243	0.0328		1,018.7441
<b>Total</b>	<b>0.8051</b>	<b>1.0260</b>	<b>2.7221</b>	<b>0.0108</b>	<b>0.8924</b>	<b>0.0171</b>	<b>0.9095</b>	<b>0.2387</b>	<b>0.0166</b>	<b>0.2553</b>		<b>1,165.7137</b>	<b>1,165.7137</b>	<b>0.0357</b>	<b>2.7100e-003</b>	<b>1,167.4129</b>

## 16500 Railroad Avenue - Bay Area AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.34	6.78	7.21	8.55	7.84	16.09	8.01	7.84	16.37	8.45	0.00	9.59	9.59	7.76	22.35	9.60

### 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	12/1/2020	1/11/2021	5	30	
2	Site Preparation	Site Preparation	1/12/2021	1/25/2021	5	10	
3	Grading	Grading	1/26/2021	2/22/2021	5	20	
4	Building Construction	Building Construction	4/20/2021	10/4/2021	5	120	
5	Paving	Paving	2/23/2021	4/19/2021	5	40	
6	Architectural Coating	Architectural Coating	5/4/2021	10/18/2021	5	120	

**Acres of Grading (Site Preparation Phase): 2.13**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0.17**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 33,600; Non-Residential Outdoor: 11,200; Striped Parking Area: 1,440 (Architectural Coating – sqft)**

#### OffRoad Equipment

## 16500 Railroad Avenue - Bay Area AQMD Air District, Summer

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

**Trips and VMT**

16500 Railroad Avenue - Bay Area AQMD Air District, 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	9.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	5.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	19.00	8.00	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
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0656	0.0000	0.0656	9.9400e-003	0.0000	9.9400e-003			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761		2,322.3127	2,322.3127	0.5970		2,337.2363
<b>Total</b>	<b>2.1262</b>	<b>20.9463</b>	<b>14.6573</b>	<b>0.0241</b>	<b>0.0656</b>	<b>1.1525</b>	<b>1.2181</b>	<b>9.9400e-003</b>	<b>1.0761</b>	<b>1.0861</b>		<b>2,322.3127</b>	<b>2,322.3127</b>	<b>0.5970</b>		<b>2,337.2363</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Summer

**3.2 Demolition - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4800e-003	0.0859	0.0171	2.4000e-004	6.4500e-003	2.8000e-004	6.7300e-003	1.7300e-003	2.7000e-004	2.0000e-003		25.5235	25.5235	1.2800e-003		25.5554
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	0.0452	0.0274	0.3488	1.0700e-003	0.1068	6.9000e-004	0.1075	0.0283	6.4000e-004	0.0290		106.7010	106.7010	2.5700e-003		106.7652
<b>Total</b>	<b>0.0477</b>	<b>0.1133</b>	<b>0.3659</b>	<b>1.3100e-003</b>	<b>0.1132</b>	<b>9.7000e-004</b>	<b>0.1142</b>	<b>0.0301</b>	<b>9.1000e-004</b>	<b>0.0310</b>		<b>132.2245</b>	<b>132.2245</b>	<b>3.8500e-003</b>		<b>132.3207</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					0.0656	0.0000	0.0656	9.9400e-003	0.0000	9.9400e-003			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363
<b>Total</b>	<b>2.1262</b>	<b>20.9463</b>	<b>14.6573</b>	<b>0.0241</b>	<b>0.0656</b>	<b>1.1525</b>	<b>1.2181</b>	<b>9.9400e-003</b>	<b>1.0761</b>	<b>1.0861</b>	<b>0.0000</b>	<b>2,322.3127</b>	<b>2,322.3127</b>	<b>0.5970</b>		<b>2,337.2363</b>



16500 Railroad Avenue - Bay Area AQMD Air District, Summer

**3.2 Demolition - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4800e-003	0.0859	0.0171	2.4000e-004	6.4500e-003	2.8000e-004	6.7300e-003	1.7300e-003	2.7000e-004	2.0000e-003		25.5235	25.5235	1.2800e-003		25.5554
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	0.0452	0.0274	0.3488	1.0700e-003	0.1068	6.9000e-004	0.1075	0.0283	6.4000e-004	0.0290		106.7010	106.7010	2.5700e-003		106.7652
<b>Total</b>	<b>0.0477</b>	<b>0.1133</b>	<b>0.3659</b>	<b>1.3100e-003</b>	<b>0.1132</b>	<b>9.7000e-004</b>	<b>0.1142</b>	<b>0.0301</b>	<b>9.1000e-004</b>	<b>0.0310</b>		<b>132.2245</b>	<b>132.2245</b>	<b>3.8500e-003</b>		<b>132.3207</b>

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0656	0.0000	0.0656	9.9400e-003	0.0000	9.9400e-003			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.7171	2,322.7171	0.5940		2,337.5658
<b>Total</b>	<b>1.9930</b>	<b>19.6966</b>	<b>14.4925</b>	<b>0.0241</b>	<b>0.0656</b>	<b>1.0409</b>	<b>1.1065</b>	<b>9.9400e-003</b>	<b>0.9715</b>	<b>0.9814</b>		<b>2,322.7171</b>	<b>2,322.7171</b>	<b>0.5940</b>		<b>2,337.5658</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Summer

**3.2 Demolition - 2021**

**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	2.3400e-003	0.0794	0.0167	2.4000e-004	0.0183	2.5000e-004	0.0185	4.6400e-003	2.4000e-004	4.8700e-003		25.1973	25.1973	1.2500e-003		25.2286
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	0.0244	0.3193	1.0300e-003	0.1068	6.7000e-004	0.1075	0.0283	6.2000e-004	0.0290		102.9547	102.9547	2.3000e-003		103.0123
<b>Total</b>	<b>0.0441</b>	<b>0.1038</b>	<b>0.3361</b>	<b>1.2700e-003</b>	<b>0.1251</b>	<b>9.2000e-004</b>	<b>0.1260</b>	<b>0.0330</b>	<b>8.6000e-004</b>	<b>0.0338</b>		<b>128.1520</b>	<b>128.1520</b>	<b>3.5500e-003</b>		<b>128.2408</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					0.0656	0.0000	0.0656	9.9400e-003	0.0000	9.9400e-003			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
<b>Total</b>	<b>1.9930</b>	<b>19.6966</b>	<b>14.4925</b>	<b>0.0241</b>	<b>0.0656</b>	<b>1.0409</b>	<b>1.1065</b>	<b>9.9400e-003</b>	<b>0.9715</b>	<b>0.9814</b>	<b>0.0000</b>	<b>2,322.7171</b>	<b>2,322.7171</b>	<b>0.5940</b>		<b>2,337.5658</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Summer

**3.2 Demolition - 2021**

**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	2.3400e-003	0.0794	0.0167	2.4000e-004	0.0183	2.5000e-004	0.0185	4.6400e-003	2.4000e-004	4.8700e-003		25.1973	25.1973	1.2500e-003		25.2286
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	0.0244	0.3193	1.0300e-003	0.1068	6.7000e-004	0.1075	0.0283	6.2000e-004	0.0290		102.9547	102.9547	2.3000e-003		103.0123
<b>Total</b>	<b>0.0441</b>	<b>0.1038</b>	<b>0.3361</b>	<b>1.2700e-003</b>	<b>0.1251</b>	<b>9.2000e-004</b>	<b>0.1260</b>	<b>0.0330</b>	<b>8.6000e-004</b>	<b>0.0338</b>		<b>128.1520</b>	<b>128.1520</b>	<b>3.5500e-003</b>		<b>128.2408</b>

**3.3 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2263	0.0000	0.2263	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457		2,372.8832	2,372.8832	0.7674		2,392.0692
<b>Total</b>	<b>1.5463</b>	<b>18.2862</b>	<b>10.7496</b>	<b>0.0245</b>	<b>0.2263</b>	<b>0.7019</b>	<b>0.9282</b>	<b>0.0245</b>	<b>0.6457</b>	<b>0.6702</b>		<b>2,372.8832</b>	<b>2,372.8832</b>	<b>0.7674</b>		<b>2,392.0692</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Summer

**3.3 Site Preparation - 2021**

**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	3.8900e-003	0.1323	0.0279	3.9000e-004	8.7400e-003	4.1000e-004	9.1500e-003	2.3900e-003	4.0000e-004	2.7900e-003		41.9955	41.9955	2.0800e-003		42.0476
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	0.0257	0.0150	0.1965	6.4000e-004	0.0657	4.1000e-004	0.0661	0.0174	3.8000e-004	0.0178		63.3568	63.3568	1.4200e-003		63.3922
<b>Total</b>	<b>0.0296</b>	<b>0.1473</b>	<b>0.2244</b>	<b>1.0300e-003</b>	<b>0.0745</b>	<b>8.2000e-004</b>	<b>0.0753</b>	<b>0.0198</b>	<b>7.8000e-004</b>	<b>0.0206</b>		<b>105.3523</b>	<b>105.3523</b>	<b>3.5000e-003</b>		<b>105.4398</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					0.2263	0.0000	0.2263	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457	0.0000	2,372.8832	2,372.8832	0.7674		2,392.0692
<b>Total</b>	<b>1.5463</b>	<b>18.2862</b>	<b>10.7496</b>	<b>0.0245</b>	<b>0.2263</b>	<b>0.7019</b>	<b>0.9282</b>	<b>0.0245</b>	<b>0.6457</b>	<b>0.6702</b>	<b>0.0000</b>	<b>2,372.8832</b>	<b>2,372.8832</b>	<b>0.7674</b>		<b>2,392.0692</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Summer

**3.3 Site Preparation - 2021**

**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	3.8900e-003	0.1323	0.0279	3.9000e-004	8.7400e-003	4.1000e-004	9.1500e-003	2.3900e-003	4.0000e-004	2.7900e-003		41.9955	41.9955	2.0800e-003		42.0476
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	0.0257	0.0150	0.1965	6.4000e-004	0.0657	4.1000e-004	0.0661	0.0174	3.8000e-004	0.0178		63.3568	63.3568	1.4200e-003		63.3922
<b>Total</b>	<b>0.0296</b>	<b>0.1473</b>	<b>0.2244</b>	<b>1.0300e-003</b>	<b>0.0745</b>	<b>8.2000e-004</b>	<b>0.0753</b>	<b>0.0198</b>	<b>7.8000e-004</b>	<b>0.0206</b>		<b>105.3523</b>	<b>105.3523</b>	<b>3.5000e-003</b>		<b>105.4398</b>

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
<b>Total</b>	<b>1.8271</b>	<b>20.2135</b>	<b>9.7604</b>	<b>0.0206</b>	<b>6.0221</b>	<b>0.9158</b>	<b>6.9378</b>	<b>3.3102</b>	<b>0.8425</b>	<b>4.1527</b>		<b>1,995.6114</b>	<b>1,995.6114</b>	<b>0.6454</b>		<b>2,011.7470</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Summer

**3.4 Grading - 2021**

**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	0.0322	0.0188	0.2456	7.9000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		79.1960	79.1960	1.7700e-003		79.2402
<b>Total</b>	<b>0.0322</b>	<b>0.0188</b>	<b>0.2456</b>	<b>7.9000e-004</b>	<b>0.0822</b>	<b>5.2000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>79.1960</b>	<b>79.1960</b>	<b>1.7700e-003</b>		<b>79.2402</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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425	0.0000	1,995.6114	1,995.6114	0.6454		2,011.7470
<b>Total</b>	<b>1.8271</b>	<b>20.2135</b>	<b>9.7604</b>	<b>0.0206</b>	<b>6.0221</b>	<b>0.9158</b>	<b>6.9378</b>	<b>3.3102</b>	<b>0.8425</b>	<b>4.1527</b>	<b>0.0000</b>	<b>1,995.6114</b>	<b>1,995.6114</b>	<b>0.6454</b>		<b>2,011.7470</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Summer

**3.4 Grading - 2021**

**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	0.0322	0.0188	0.2456	7.9000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		79.1960	79.1960	1.7700e-003		79.2402
<b>Total</b>	<b>0.0322</b>	<b>0.0188</b>	<b>0.2456</b>	<b>7.9000e-004</b>	<b>0.0822</b>	<b>5.2000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>79.1960</b>	<b>79.1960</b>	<b>1.7700e-003</b>		<b>79.2402</b>

**3.5 Building Construction - 2021**

**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	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
<b>Total</b>	<b>2.0451</b>	<b>16.0275</b>	<b>14.5629</b>	<b>0.0250</b>		<b>0.8173</b>	<b>0.8173</b>		<b>0.7831</b>	<b>0.7831</b>		<b>2,288.9355</b>	<b>2,288.9355</b>	<b>0.4503</b>		<b>2,300.1935</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Summer

**3.5 Building Construction - 2021**

**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	0.0248	0.8267	0.1950	2.1800e-003	0.0542	1.7900e-003	0.0559	0.0156	1.7100e-003	0.0173		231.1668	231.1668	0.0109		231.4381
Worker	0.0611	0.0357	0.4667	1.5100e-003	0.1561	9.8000e-004	0.1571	0.0414	9.0000e-004	0.0423		150.4723	150.4723	3.3600e-003		150.5564
<b>Total</b>	<b>0.0859</b>	<b>0.8624</b>	<b>0.6617</b>	<b>3.6900e-003</b>	<b>0.2102</b>	<b>2.7700e-003</b>	<b>0.2130</b>	<b>0.0570</b>	<b>2.6100e-003</b>	<b>0.0596</b>		<b>381.6391</b>	<b>381.6391</b>	<b>0.0142</b>		<b>381.9945</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	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
<b>Total</b>	<b>2.0451</b>	<b>16.0275</b>	<b>14.5629</b>	<b>0.0250</b>		<b>0.8173</b>	<b>0.8173</b>		<b>0.7831</b>	<b>0.7831</b>	<b>0.0000</b>	<b>2,288.9355</b>	<b>2,288.9355</b>	<b>0.4503</b>		<b>2,300.1935</b>



16500 Railroad Avenue - Bay Area AQMD Air District, Summer

**3.5 Building Construction - 2021**

**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	0.0248	0.8267	0.1950	2.1800e-003	0.0542	1.7900e-003	0.0559	0.0156	1.7100e-003	0.0173		231.1668	231.1668	0.0109		231.4381
Worker	0.0611	0.0357	0.4667	1.5100e-003	0.1561	9.8000e-004	0.1571	0.0414	9.0000e-004	0.0423		150.4723	150.4723	3.3600e-003		150.5564
<b>Total</b>	<b>0.0859</b>	<b>0.8624</b>	<b>0.6617</b>	<b>3.6900e-003</b>	<b>0.2102</b>	<b>2.7700e-003</b>	<b>0.2130</b>	<b>0.0570</b>	<b>2.6100e-003</b>	<b>0.0596</b>		<b>381.6391</b>	<b>381.6391</b>	<b>0.0142</b>		<b>381.9945</b>

**3.6 Paving - 2021**

**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	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371		1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0744</b>	<b>10.6478</b>	<b>11.7756</b>	<b>0.0178</b>		<b>0.5826</b>	<b>0.5826</b>		<b>0.5371</b>	<b>0.5371</b>		<b>1,709.1107</b>	<b>1,709.1107</b>	<b>0.5417</b>		<b>1,722.6524</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Summer

**3.6 Paving - 2021**

**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	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
<b>Total</b>	<b>0.0482</b>	<b>0.0282</b>	<b>0.3685</b>	<b>1.1900e-003</b>	<b>0.1232</b>	<b>7.8000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.1000e-004</b>	<b>0.0334</b>		<b>118.7939</b>	<b>118.7939</b>	<b>2.6600e-003</b>		<b>118.8603</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	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371	0.0000	1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0744</b>	<b>10.6478</b>	<b>11.7756</b>	<b>0.0178</b>		<b>0.5826</b>	<b>0.5826</b>		<b>0.5371</b>	<b>0.5371</b>	<b>0.0000</b>	<b>1,709.1107</b>	<b>1,709.1107</b>	<b>0.5417</b>		<b>1,722.6524</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Summer

**3.6 Paving - 2021**

**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	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
<b>Total</b>	<b>0.0482</b>	<b>0.0282</b>	<b>0.3685</b>	<b>1.1900e-003</b>	<b>0.1232</b>	<b>7.8000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.1000e-004</b>	<b>0.0334</b>		<b>118.7939</b>	<b>118.7939</b>	<b>2.6600e-003</b>		<b>118.8603</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>2.2490</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Summer

**3.7 Architectural Coating - 2021**

**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	0.0129	7.5200e-003	0.0983	3.2000e-004	0.0329	2.1000e-004	0.0331	8.7200e-003	1.9000e-004	8.9100e-003		31.6784	31.6784	7.1000e-004		31.6961
<b>Total</b>	<b>0.0129</b>	<b>7.5200e-003</b>	<b>0.0983</b>	<b>3.2000e-004</b>	<b>0.0329</b>	<b>2.1000e-004</b>	<b>0.0331</b>	<b>8.7200e-003</b>	<b>1.9000e-004</b>	<b>8.9100e-003</b>		<b>31.6784</b>	<b>31.6784</b>	<b>7.1000e-004</b>		<b>31.6961</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	2.0301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>2.2490</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Summer

**3.7 Architectural Coating - 2021**

**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	0.0129	7.5200e-003	0.0983	3.2000e-004	0.0329	2.1000e-004	0.0331	8.7200e-003	1.9000e-004	8.9100e-003		31.6784	31.6784	7.1000e-004		31.6961
<b>Total</b>	<b>0.0129</b>	<b>7.5200e-003</b>	<b>0.0983</b>	<b>3.2000e-004</b>	<b>0.0329</b>	<b>2.1000e-004</b>	<b>0.0331</b>	<b>8.7200e-003</b>	<b>1.9000e-004</b>	<b>8.9100e-003</b>		<b>31.6784</b>	<b>31.6784</b>	<b>7.1000e-004</b>		<b>31.6961</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Transit Accessibility

16500 Railroad Avenue - Bay Area AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2361	0.9027	2.6103	0.0101	0.8924	7.7200e-003	0.9001	0.2387	7.2100e-003	0.2460		1,017.9243	1,017.9243	0.0328		1,018.7441
Unmitigated	0.2431	0.9418	2.7918	0.0109	0.9683	8.3000e-003	0.9766	0.2591	7.7600e-003	0.2668		1,098.9507	1,098.9507	0.0350		1,099.8249

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	156.13	29.57	15.23	344,269	317,282
Parking Lot	0.00	0.00	0.00		
Total	156.13	29.57	15.23	344,269	317,282

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Parking Lot	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749

16500 Railroad Avenue - Bay Area AQMD Air District, Summer

### 5.0 Energy Detail

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Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0136	0.1231	0.1034	7.4000e-004		9.3600e-003	9.3600e-003		9.3600e-003	9.3600e-003		147.7714	147.7714	2.8300e-003	2.7100e-003	148.6495
NaturalGas Unmitigated	0.0175	0.1587	0.1333	9.5000e-004		0.0121	0.0121		0.0121	0.0121		190.4632	190.4632	3.6500e-003	3.4900e-003	191.5950

16500 Railroad Avenue - Bay Area AQMD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	1618.94	0.0175	0.1587	0.1333	9.5000e-004		0.0121	0.0121		0.0121	0.0121		190.4632	190.4632	3.6500e-003	3.4900e-003	191.5950
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>0.0175</b>	<b>0.1587</b>	<b>0.1333</b>	<b>9.5000e-004</b>		<b>0.0121</b>	<b>0.0121</b>		<b>0.0121</b>	<b>0.0121</b>		<b>190.4632</b>	<b>190.4632</b>	<b>3.6500e-003</b>	<b>3.4900e-003</b>	<b>191.5950</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					
General Light Industry	1.25606	0.0136	0.1231	0.1034	7.4000e-004		9.3600e-003	9.3600e-003		9.3600e-003	9.3600e-003		147.7714	147.7714	2.8300e-003	2.7100e-003	148.6495
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>0.0136</b>	<b>0.1231</b>	<b>0.1034</b>	<b>7.4000e-004</b>		<b>9.3600e-003</b>	<b>9.3600e-003</b>		<b>9.3600e-003</b>	<b>9.3600e-003</b>		<b>147.7714</b>	<b>147.7714</b>	<b>2.8300e-003</b>	<b>2.7100e-003</b>	<b>148.6495</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



16500 Railroad Avenue - Bay Area AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5554	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0180	0.0180	5.0000e-005		0.0192
Unmitigated	0.5554	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0180	0.0180	5.0000e-005		0.0192

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	0.0667					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4879					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.8000e-004	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0180	0.0180	5.0000e-005		0.0192
<b>Total</b>	<b>0.5554</b>	<b>8.0000e-005</b>	<b>8.4100e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0180</b>	<b>0.0180</b>	<b>5.0000e-005</b>		<b>0.0192</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Summer

### 6.2 Area by SubCategory

#### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0667					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4879					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.8000e-004	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0180	0.0180	5.0000e-005		0.0192
<b>Total</b>	<b>0.5554</b>	<b>8.0000e-005</b>	<b>8.4100e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0180</b>	<b>0.0180</b>	<b>5.0000e-005</b>		<b>0.0192</b>

### 7.0 Water Detail

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#### 7.1 Mitigation Measures Water

### 8.0 Waste Detail

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#### 8.1 Mitigation Measures Waste

### 9.0 Operational Offroad

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

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#### Fire Pumps and Emergency Generators

16500 Railroad Avenue - Bay Area AQMD Air District, Summer

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**

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16500 Railroad Avenue - Bay Area AQMD Air District, Winter

**16500 Railroad Avenue  
Bay Area AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	22.40	1000sqft	2.49	22,400.00	0
Parking Lot	60.00	Space	0.17	24,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	4			<b>Operational Year</b>	2023
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	257.69	<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**

Project Characteristics - CO2 Intensity Factor adjusted per PG&E's RPS projections.

Land Use - Lot acreage was updated to reflect the site plans, which say 2.66 acres total and 0.17 acres of parking.

Construction Phase - Total Days were adjusted to match applicant-provided information.

Grading - Based on applicant-provided questionnaire, 2.13 acres would be disturbed during grading.

Demolition -

Energy Use -

Energy Mitigation - 30 percent Title 24 exceedance is required for non-commercial buildings under the 2019 CBSC. Applicant-provided information shows that project would generate 20 kWh on-site.

Mobile Land Use Mitigation -

## 16500 Railroad Avenue - Bay Area AQMD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	120.00
tblConstructionPhase	NumDays	220.00	120.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	3.00	10.00
tblConstructionPhase	PhaseEndDate	12/10/2021	10/18/2021
tblConstructionPhase	PhaseEndDate	11/12/2021	10/4/2021
tblConstructionPhase	PhaseEndDate	12/28/2020	1/11/2021
tblConstructionPhase	PhaseEndDate	1/8/2021	2/22/2021
tblConstructionPhase	PhaseEndDate	11/26/2021	4/19/2021
tblConstructionPhase	PhaseEndDate	12/31/2020	1/25/2021
tblConstructionPhase	PhaseStartDate	11/27/2021	5/4/2021
tblConstructionPhase	PhaseStartDate	1/9/2021	4/20/2021
tblConstructionPhase	PhaseStartDate	1/1/2021	1/26/2021
tblConstructionPhase	PhaseStartDate	11/13/2021	2/23/2021
tblConstructionPhase	PhaseStartDate	12/29/2020	1/12/2021
tblGrading	AcresOfGrading	10.00	0.00
tblGrading	AcresOfGrading	15.00	2.13
tblGrading	MaterialExported	0.00	40.00
tblLandUse	LotAcreage	0.51	2.49
tblLandUse	LotAcreage	0.54	0.17
tblProjectCharacteristics	CO2IntensityFactor	641.35	257.69

## 2.0 Emissions Summary

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16500 Railroad Avenue - Bay Area AQMD Air District, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.5554	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0180	0.0180	5.0000e-005		0.0192
Energy	0.0175	0.1587	0.1333	9.5000e-004		0.0121	0.0121		0.0121	0.0121		190.4632	190.4632	3.6500e-003	3.4900e-003	191.5950
Mobile	0.2116	0.9966	2.7492	0.0102	0.9683	8.3400e-003	0.9767	0.2591	7.7900e-003	0.2668		1,029.6512	1,029.6512	0.0353		1,030.5326
<b>Total</b>	<b>0.7844</b>	<b>1.1554</b>	<b>2.8910</b>	<b>0.0111</b>	<b>0.9683</b>	<b>0.0204</b>	<b>0.9888</b>	<b>0.2591</b>	<b>0.0199</b>	<b>0.2789</b>		<b>1,220.1324</b>	<b>1,220.1324</b>	<b>0.0390</b>	<b>3.4900e-003</b>	<b>1,222.1468</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	0.5554	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0180	0.0180	5.0000e-005		0.0192
Energy	0.0136	0.1231	0.1034	7.4000e-004		9.3600e-003	9.3600e-003		9.3600e-003	9.3600e-003		147.7714	147.7714	2.8300e-003	2.7100e-003	148.6495
Mobile	0.2047	0.9531	2.5877	9.4200e-003	0.8924	7.7500e-003	0.9002	0.2387	7.2400e-003	0.2460		953.6036	953.6036	0.0332		954.4329
<b>Total</b>	<b>0.7736</b>	<b>1.0763</b>	<b>2.6996</b>	<b>0.0102</b>	<b>0.8924</b>	<b>0.0171</b>	<b>0.9096</b>	<b>0.2387</b>	<b>0.0166</b>	<b>0.2554</b>		<b>1,101.3930</b>	<b>1,101.3930</b>	<b>0.0361</b>	<b>2.7100e-003</b>	<b>1,103.1017</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.38	6.85	6.62	8.63	7.84	16.10	8.01	7.84	16.35	8.45	0.00	9.73	9.73	7.45	22.35	9.74

### 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	12/1/2020	1/11/2021	5	30	
2	Site Preparation	Site Preparation	1/12/2021	1/25/2021	5	10	
3	Grading	Grading	1/26/2021	2/22/2021	5	20	
4	Building Construction	Building Construction	4/20/2021	10/4/2021	5	120	
5	Paving	Paving	2/23/2021	4/19/2021	5	40	
6	Architectural Coating	Architectural Coating	5/4/2021	10/18/2021	5	120	

Acres of Grading (Site Preparation Phase): 2.13

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.17

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 33,600; Non-Residential Outdoor: 11,200; Striped Parking Area: 1,440 (Architectural Coating – sqft)

#### OffRoad Equipment



## 16500 Railroad Avenue - Bay Area AQMD Air District, Winter

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

**Trips and VMT**

16500 Railroad Avenue - Bay Area AQMD Air District, 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	9.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	5.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	19.00	8.00	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
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0656	0.0000	0.0656	9.9400e-003	0.0000	9.9400e-003			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761		2,322.3127	2,322.3127	0.5970		2,337.2363
<b>Total</b>	<b>2.1262</b>	<b>20.9463</b>	<b>14.6573</b>	<b>0.0241</b>	<b>0.0656</b>	<b>1.1525</b>	<b>1.2181</b>	<b>9.9400e-003</b>	<b>1.0761</b>	<b>1.0861</b>		<b>2,322.3127</b>	<b>2,322.3127</b>	<b>0.5970</b>		<b>2,337.2363</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Winter

**3.2 Demolition - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.5400e-003	0.0880	0.0184	2.3000e-004	6.4500e-003	2.9000e-004	6.7300e-003	1.7300e-003	2.7000e-004	2.0100e-003		25.0948	25.0948	1.3400e-003		25.1283
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	0.0478	0.0338	0.3276	9.9000e-004	0.1068	6.9000e-004	0.1075	0.0283	6.4000e-004	0.0290		98.2885	98.2885	2.4000e-003		98.3486
<b>Total</b>	<b>0.0503</b>	<b>0.1218</b>	<b>0.3460</b>	<b>1.2200e-003</b>	<b>0.1132</b>	<b>9.8000e-004</b>	<b>0.1142</b>	<b>0.0301</b>	<b>9.1000e-004</b>	<b>0.0310</b>		<b>123.3833</b>	<b>123.3833</b>	<b>3.7400e-003</b>		<b>123.4769</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					0.0656	0.0000	0.0656	9.9400e-003	0.0000	9.9400e-003			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363
<b>Total</b>	<b>2.1262</b>	<b>20.9463</b>	<b>14.6573</b>	<b>0.0241</b>	<b>0.0656</b>	<b>1.1525</b>	<b>1.2181</b>	<b>9.9400e-003</b>	<b>1.0761</b>	<b>1.0861</b>	<b>0.0000</b>	<b>2,322.3127</b>	<b>2,322.3127</b>	<b>0.5970</b>		<b>2,337.2363</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Winter

**3.2 Demolition - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.5400e-003	0.0880	0.0184	2.3000e-004	6.4500e-003	2.9000e-004	6.7300e-003	1.7300e-003	2.7000e-004	2.0100e-003		25.0948	25.0948	1.3400e-003		25.1283
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	0.0478	0.0338	0.3276	9.9000e-004	0.1068	6.9000e-004	0.1075	0.0283	6.4000e-004	0.0290		98.2885	98.2885	2.4000e-003		98.3486
<b>Total</b>	<b>0.0503</b>	<b>0.1218</b>	<b>0.3460</b>	<b>1.2200e-003</b>	<b>0.1132</b>	<b>9.8000e-004</b>	<b>0.1142</b>	<b>0.0301</b>	<b>9.1000e-004</b>	<b>0.0310</b>		<b>123.3833</b>	<b>123.3833</b>	<b>3.7400e-003</b>		<b>123.4769</b>

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0656	0.0000	0.0656	9.9400e-003	0.0000	9.9400e-003			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.7171	2,322.7171	0.5940		2,337.5658
<b>Total</b>	<b>1.9930</b>	<b>19.6966</b>	<b>14.4925</b>	<b>0.0241</b>	<b>0.0656</b>	<b>1.0409</b>	<b>1.1065</b>	<b>9.9400e-003</b>	<b>0.9715</b>	<b>0.9814</b>		<b>2,322.7171</b>	<b>2,322.7171</b>	<b>0.5940</b>		<b>2,337.5658</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Winter

**3.2 Demolition - 2021**

**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	2.4000e-003	0.0812	0.0180	2.3000e-004	0.0183	2.5000e-004	0.0185	4.6400e-003	2.4000e-004	4.8800e-003		24.7713	24.7713	1.3100e-003		24.8041
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	0.0443	0.0302	0.2988	9.5000e-004	0.1068	6.7000e-004	0.1075	0.0283	6.2000e-004	0.0290		94.8398	94.8398	2.1500e-003		94.8934
<b>Total</b>	<b>0.0467</b>	<b>0.1114</b>	<b>0.3167</b>	<b>1.1800e-003</b>	<b>0.1251</b>	<b>9.2000e-004</b>	<b>0.1260</b>	<b>0.0330</b>	<b>8.6000e-004</b>	<b>0.0338</b>		<b>119.6111</b>	<b>119.6111</b>	<b>3.4600e-003</b>		<b>119.6975</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					0.0656	0.0000	0.0656	9.9400e-003	0.0000	9.9400e-003			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
<b>Total</b>	<b>1.9930</b>	<b>19.6966</b>	<b>14.4925</b>	<b>0.0241</b>	<b>0.0656</b>	<b>1.0409</b>	<b>1.1065</b>	<b>9.9400e-003</b>	<b>0.9715</b>	<b>0.9814</b>	<b>0.0000</b>	<b>2,322.7171</b>	<b>2,322.7171</b>	<b>0.5940</b>		<b>2,337.5658</b>

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**3.2 Demolition - 2021**

**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	2.4000e-003	0.0812	0.0180	2.3000e-004	0.0183	2.5000e-004	0.0185	4.6400e-003	2.4000e-004	4.8800e-003		24.7713	24.7713	1.3100e-003		24.8041
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	0.0443	0.0302	0.2988	9.5000e-004	0.1068	6.7000e-004	0.1075	0.0283	6.2000e-004	0.0290		94.8398	94.8398	2.1500e-003		94.8934
<b>Total</b>	<b>0.0467</b>	<b>0.1114</b>	<b>0.3167</b>	<b>1.1800e-003</b>	<b>0.1251</b>	<b>9.2000e-004</b>	<b>0.1260</b>	<b>0.0330</b>	<b>8.6000e-004</b>	<b>0.0338</b>		<b>119.6111</b>	<b>119.6111</b>	<b>3.4600e-003</b>		<b>119.6975</b>

**3.3 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2263	0.0000	0.2263	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457		2,372.8832	2,372.8832	0.7674		2,392.0692
<b>Total</b>	<b>1.5463</b>	<b>18.2862</b>	<b>10.7496</b>	<b>0.0245</b>	<b>0.2263</b>	<b>0.7019</b>	<b>0.9282</b>	<b>0.0245</b>	<b>0.6457</b>	<b>0.6702</b>		<b>2,372.8832</b>	<b>2,372.8832</b>	<b>0.7674</b>		<b>2,392.0692</b>

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**3.3 Site Preparation - 2021**

**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	4.0000e-003	0.1354	0.0299	3.9000e-004	8.7400e-003	4.2000e-004	9.1600e-003	2.3900e-003	4.0000e-004	2.8000e-003		41.2855	41.2855	2.1900e-003		41.3402
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	0.0273	0.0186	0.1839	5.9000e-004	0.0657	4.1000e-004	0.0661	0.0174	3.8000e-004	0.0178		58.3629	58.3629	1.3200e-003		58.3960
<b>Total</b>	<b>0.0313</b>	<b>0.1540</b>	<b>0.2138</b>	<b>9.8000e-004</b>	<b>0.0745</b>	<b>8.3000e-004</b>	<b>0.0753</b>	<b>0.0198</b>	<b>7.8000e-004</b>	<b>0.0206</b>		<b>99.6485</b>	<b>99.6485</b>	<b>3.5100e-003</b>		<b>99.7361</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					0.2263	0.0000	0.2263	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457	0.0000	2,372.8832	2,372.8832	0.7674		2,392.0692
<b>Total</b>	<b>1.5463</b>	<b>18.2862</b>	<b>10.7496</b>	<b>0.0245</b>	<b>0.2263</b>	<b>0.7019</b>	<b>0.9282</b>	<b>0.0245</b>	<b>0.6457</b>	<b>0.6702</b>	<b>0.0000</b>	<b>2,372.8832</b>	<b>2,372.8832</b>	<b>0.7674</b>		<b>2,392.0692</b>

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**3.3 Site Preparation - 2021**

**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	4.0000e-003	0.1354	0.0299	3.9000e-004	8.7400e-003	4.2000e-004	9.1600e-003	2.3900e-003	4.0000e-004	2.8000e-003		41.2855	41.2855	2.1900e-003		41.3402
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	0.0273	0.0186	0.1839	5.9000e-004	0.0657	4.1000e-004	0.0661	0.0174	3.8000e-004	0.0178		58.3629	58.3629	1.3200e-003		58.3960
<b>Total</b>	<b>0.0313</b>	<b>0.1540</b>	<b>0.2138</b>	<b>9.8000e-004</b>	<b>0.0745</b>	<b>8.3000e-004</b>	<b>0.0753</b>	<b>0.0198</b>	<b>7.8000e-004</b>	<b>0.0206</b>		<b>99.6485</b>	<b>99.6485</b>	<b>3.5100e-003</b>		<b>99.7361</b>

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
<b>Total</b>	<b>1.8271</b>	<b>20.2135</b>	<b>9.7604</b>	<b>0.0206</b>	<b>6.0221</b>	<b>0.9158</b>	<b>6.9378</b>	<b>3.3102</b>	<b>0.8425</b>	<b>4.1527</b>		<b>1,995.6114</b>	<b>1,995.6114</b>	<b>0.6454</b>		<b>2,011.7470</b>



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**3.4 Grading - 2021**

**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	0.0341	0.0232	0.2298	7.3000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		72.9537	72.9537	1.6500e-003		72.9949
<b>Total</b>	<b>0.0341</b>	<b>0.0232</b>	<b>0.2298</b>	<b>7.3000e-004</b>	<b>0.0822</b>	<b>5.2000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>72.9537</b>	<b>72.9537</b>	<b>1.6500e-003</b>		<b>72.9949</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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425	0.0000	1,995.6114	1,995.6114	0.6454		2,011.7470
<b>Total</b>	<b>1.8271</b>	<b>20.2135</b>	<b>9.7604</b>	<b>0.0206</b>	<b>6.0221</b>	<b>0.9158</b>	<b>6.9378</b>	<b>3.3102</b>	<b>0.8425</b>	<b>4.1527</b>	<b>0.0000</b>	<b>1,995.6114</b>	<b>1,995.6114</b>	<b>0.6454</b>		<b>2,011.7470</b>

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**3.4 Grading - 2021**

**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	0.0341	0.0232	0.2298	7.3000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		72.9537	72.9537	1.6500e-003		72.9949
<b>Total</b>	<b>0.0341</b>	<b>0.0232</b>	<b>0.2298</b>	<b>7.3000e-004</b>	<b>0.0822</b>	<b>5.2000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>72.9537</b>	<b>72.9537</b>	<b>1.6500e-003</b>		<b>72.9949</b>

**3.5 Building Construction - 2021**

**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	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
<b>Total</b>	<b>2.0451</b>	<b>16.0275</b>	<b>14.5629</b>	<b>0.0250</b>		<b>0.8173</b>	<b>0.8173</b>		<b>0.7831</b>	<b>0.7831</b>		<b>2,288.9355</b>	<b>2,288.9355</b>	<b>0.4503</b>		<b>2,300.1935</b>

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**3.5 Building Construction - 2021**

**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	0.0263	0.8338	0.2241	2.1300e-003	0.0542	1.8500e-003	0.0560	0.0156	1.7700e-003	0.0174		225.3017	225.3017	0.0117		225.5952
Worker	0.0647	0.0441	0.4366	1.3900e-003	0.1561	9.8000e-004	0.1571	0.0414	9.0000e-004	0.0423		138.6120	138.6120	3.1400e-003		138.6904
<b>Total</b>	<b>0.0910</b>	<b>0.8779</b>	<b>0.6607</b>	<b>3.5200e-003</b>	<b>0.2102</b>	<b>2.8300e-003</b>	<b>0.2131</b>	<b>0.0570</b>	<b>2.6700e-003</b>	<b>0.0597</b>		<b>363.9137</b>	<b>363.9137</b>	<b>0.0149</b>		<b>364.2855</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	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
<b>Total</b>	<b>2.0451</b>	<b>16.0275</b>	<b>14.5629</b>	<b>0.0250</b>		<b>0.8173</b>	<b>0.8173</b>		<b>0.7831</b>	<b>0.7831</b>	<b>0.0000</b>	<b>2,288.9355</b>	<b>2,288.9355</b>	<b>0.4503</b>		<b>2,300.1935</b>

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**3.5 Building Construction - 2021**

**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	0.0263	0.8338	0.2241	2.1300e-003	0.0542	1.8500e-003	0.0560	0.0156	1.7700e-003	0.0174		225.3017	225.3017	0.0117		225.5952
Worker	0.0647	0.0441	0.4366	1.3900e-003	0.1561	9.8000e-004	0.1571	0.0414	9.0000e-004	0.0423		138.6120	138.6120	3.1400e-003		138.6904
<b>Total</b>	<b>0.0910</b>	<b>0.8779</b>	<b>0.6607</b>	<b>3.5200e-003</b>	<b>0.2102</b>	<b>2.8300e-003</b>	<b>0.2131</b>	<b>0.0570</b>	<b>2.6700e-003</b>	<b>0.0597</b>		<b>363.9137</b>	<b>363.9137</b>	<b>0.0149</b>		<b>364.2855</b>

**3.6 Paving - 2021**

**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	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371		1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0744</b>	<b>10.6478</b>	<b>11.7756</b>	<b>0.0178</b>		<b>0.5826</b>	<b>0.5826</b>		<b>0.5371</b>	<b>0.5371</b>		<b>1,709.1107</b>	<b>1,709.1107</b>	<b>0.5417</b>		<b>1,722.6524</b>

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**3.6 Paving - 2021**

**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	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
<b>Total</b>	<b>0.0511</b>	<b>0.0348</b>	<b>0.3447</b>	<b>1.1000e-003</b>	<b>0.1232</b>	<b>7.8000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.1000e-004</b>	<b>0.0334</b>		<b>109.4305</b>	<b>109.4305</b>	<b>2.4800e-003</b>		<b>109.4924</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	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371	0.0000	1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0744</b>	<b>10.6478</b>	<b>11.7756</b>	<b>0.0178</b>		<b>0.5826</b>	<b>0.5826</b>		<b>0.5371</b>	<b>0.5371</b>	<b>0.0000</b>	<b>1,709.1107</b>	<b>1,709.1107</b>	<b>0.5417</b>		<b>1,722.6524</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Winter

**3.6 Paving - 2021**

**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	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
<b>Total</b>	<b>0.0511</b>	<b>0.0348</b>	<b>0.3447</b>	<b>1.1000e-003</b>	<b>0.1232</b>	<b>7.8000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.1000e-004</b>	<b>0.0334</b>		<b>109.4305</b>	<b>109.4305</b>	<b>2.4800e-003</b>		<b>109.4924</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>2.2490</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Winter

**3.7 Architectural Coating - 2021**

**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	0.0136	9.2800e-003	0.0919	2.9000e-004	0.0329	2.1000e-004	0.0331	8.7200e-003	1.9000e-004	8.9100e-003		29.1815	29.1815	6.6000e-004		29.1980
<b>Total</b>	<b>0.0136</b>	<b>9.2800e-003</b>	<b>0.0919</b>	<b>2.9000e-004</b>	<b>0.0329</b>	<b>2.1000e-004</b>	<b>0.0331</b>	<b>8.7200e-003</b>	<b>1.9000e-004</b>	<b>8.9100e-003</b>		<b>29.1815</b>	<b>29.1815</b>	<b>6.6000e-004</b>		<b>29.1980</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	2.0301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>2.2490</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Winter

### 3.7 Architectural Coating - 2021

#### 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	0.0136	9.2800e-003	0.0919	2.9000e-004	0.0329	2.1000e-004	0.0331	8.7200e-003	1.9000e-004	8.9100e-003		29.1815	29.1815	6.6000e-004		29.1980
<b>Total</b>	<b>0.0136</b>	<b>9.2800e-003</b>	<b>0.0919</b>	<b>2.9000e-004</b>	<b>0.0329</b>	<b>2.1000e-004</b>	<b>0.0331</b>	<b>8.7200e-003</b>	<b>1.9000e-004</b>	<b>8.9100e-003</b>		<b>29.1815</b>	<b>29.1815</b>	<b>6.6000e-004</b>		<b>29.1980</b>

### 4.0 Operational Detail - Mobile

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#### 4.1 Mitigation Measures Mobile

Increase Transit Accessibility



16500 Railroad Avenue - Bay Area AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2047	0.9531	2.5877	9.4200e-003	0.8924	7.7500e-003	0.9002	0.2387	7.2400e-003	0.2460		953.6036	953.6036	0.0332		954.4329
Unmitigated	0.2116	0.9966	2.7492	0.0102	0.9683	8.3400e-003	0.9767	0.2591	7.7900e-003	0.2668		1,029.6512	1,029.6512	0.0353		1,030.5326

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	156.13	29.57	15.23	344,269	317,282
Parking Lot	0.00	0.00	0.00		
Total	156.13	29.57	15.23	344,269	317,282

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Parking Lot	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749

16500 Railroad Avenue - Bay Area AQMD Air District, Winter

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

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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	lb/day										lb/day					
NaturalGas Mitigated	0.0136	0.1231	0.1034	7.4000e-004		9.3600e-003	9.3600e-003		9.3600e-003	9.3600e-003		147.7714	147.7714	2.8300e-003	2.7100e-003	148.6495
NaturalGas Unmitigated	0.0175	0.1587	0.1333	9.5000e-004		0.0121	0.0121		0.0121	0.0121		190.4632	190.4632	3.6500e-003	3.4900e-003	191.5950

16500 Railroad Avenue - Bay Area AQMD Air District, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	1618.94	0.0175	0.1587	0.1333	9.5000e-004		0.0121	0.0121		0.0121	0.0121		190.4632	190.4632	3.6500e-003	3.4900e-003	191.5950
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>0.0175</b>	<b>0.1587</b>	<b>0.1333</b>	<b>9.5000e-004</b>		<b>0.0121</b>	<b>0.0121</b>		<b>0.0121</b>	<b>0.0121</b>		<b>190.4632</b>	<b>190.4632</b>	<b>3.6500e-003</b>	<b>3.4900e-003</b>	<b>191.5950</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					
General Light Industry	1.25606	0.0136	0.1231	0.1034	7.4000e-004		9.3600e-003	9.3600e-003		9.3600e-003	9.3600e-003		147.7714	147.7714	2.8300e-003	2.7100e-003	148.6495
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>0.0136</b>	<b>0.1231</b>	<b>0.1034</b>	<b>7.4000e-004</b>		<b>9.3600e-003</b>	<b>9.3600e-003</b>		<b>9.3600e-003</b>	<b>9.3600e-003</b>		<b>147.7714</b>	<b>147.7714</b>	<b>2.8300e-003</b>	<b>2.7100e-003</b>	<b>148.6495</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

16500 Railroad Avenue - Bay Area AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5554	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0180	0.0180	5.0000e-005		0.0192
Unmitigated	0.5554	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0180	0.0180	5.0000e-005		0.0192

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	0.0667					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4879					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.8000e-004	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0180	0.0180	5.0000e-005		0.0192
<b>Total</b>	<b>0.5554</b>	<b>8.0000e-005</b>	<b>8.4100e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0180</b>	<b>0.0180</b>	<b>5.0000e-005</b>		<b>0.0192</b>

16500 Railroad Avenue - Bay Area AQMD Air District, Winter

### 6.2 Area by SubCategory

#### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0667					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4879					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.8000e-004	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0180	0.0180	5.0000e-005		0.0192
<b>Total</b>	<b>0.5554</b>	<b>8.0000e-005</b>	<b>8.4100e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0180</b>	<b>0.0180</b>	<b>5.0000e-005</b>		<b>0.0192</b>

### 7.0 Water Detail

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#### 7.1 Mitigation Measures Water

### 8.0 Waste Detail

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#### 8.1 Mitigation Measures Waste

### 9.0 Operational Offroad

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

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#### Fire Pumps and Emergency Generators

16500 Railroad Avenue - Bay Area AQMD Air District, Winter

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**

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**16500 Railroad Avenue**  
**Bay Area AQMD Air District, Mitigation Report**

**Construction Mitigation Summary**

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

**OFFROAD Equipment Mitigation**

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



Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	1.31300E-002	9.16100E-002	1.09050E-001	1.80000E-004	5.65000E-003	5.65000E-003	0.00000E+000	1.53195E+001	1.53195E+001	1.05000E-003	0.00000E+000	1.53458E+001
Cement and Mortar Mixers	1.18000E-003	7.36000E-003	6.17000E-003	1.00000E-005	2.90000E-004	2.90000E-004	0.00000E+000	9.16550E-001	9.16550E-001	1.00000E-004	0.00000E+000	9.18930E-001
Concrete/Industrial Saws	6.16000E-003	4.85700E-002	5.52500E-002	9.00000E-005	2.88000E-003	2.88000E-003	0.00000E+000	8.06484E+000	8.06484E+000	5.00000E-004	0.00000E+000	8.07737E+000
Cranes	2.47700E-002	2.90960E-001	1.18970E-001	3.50000E-004	1.18100E-002	1.08700E-002	0.00000E+000	3.04128E+001	3.04128E+001	9.84000E-003	0.00000E+000	3.06587E+001
Forklifts	1.35800E-002	1.23810E-001	1.22620E-001	1.60000E-004	8.79000E-003	8.09000E-003	0.00000E+000	1.41006E+001	1.41006E+001	4.56000E-003	0.00000E+000	1.42146E+001
Generator Sets	2.14400E-002	1.89970E-001	2.21080E-001	3.90000E-004	1.00600E-002	1.00600E-002	0.00000E+000	3.39125E+001	3.39125E+001	1.73000E-003	0.00000E+000	3.39557E+001
Graders	6.79000E-003	8.88700E-002	2.65100E-002	1.00000E-004	2.82000E-003	2.59000E-003	0.00000E+000	8.73189E+000	8.73189E+000	2.82000E-003	0.00000E+000	8.80249E+000
Pavers	4.92000E-003	5.19000E-002	5.81000E-002	9.00000E-005	2.51000E-003	2.31000E-003	0.00000E+000	8.25649E+000	8.25649E+000	2.67000E-003	0.00000E+000	8.32324E+000
Paving Equipment	3.84000E-003	3.88100E-002	5.08300E-002	8.00000E-005	1.92000E-003	1.76000E-003	0.00000E+000	7.15688E+000	7.15688E+000	2.31000E-003	0.00000E+000	7.21475E+000
Rollers	7.58000E-003	7.69700E-002	7.52200E-002	1.00000E-004	4.71000E-003	4.33000E-003	0.00000E+000	9.22022E+000	9.22022E+000	2.98000E-003	0.00000E+000	9.29477E+000
Rubber Tired Dozers	2.65400E-002	2.78430E-001	1.02020E-001	2.10000E-004	1.35700E-002	1.24800E-002	0.00000E+000	1.87639E+001	1.87639E+001	6.07000E-003	0.00000E+000	1.89157E+001
Scrapers	4.65000E-003	5.35100E-002	3.50200E-002	8.00000E-005	2.08000E-003	1.92000E-003	0.00000E+000	6.65833E+000	6.65833E+000	2.15000E-003	0.00000E+000	6.71217E+000
Tractors/Loaders/Backhoes	2.54600E-002	2.57230E-001	2.98740E-001	4.10000E-004	1.54800E-002	1.42400E-002	0.00000E+000	3.59941E+001	3.59941E+001	1.16400E-002	0.00000E+000	3.62851E+001
Welders	5.44800E-002	2.71600E-001	3.09390E-001	4.60000E-004	1.33400E-002	1.33400E-002	0.00000E+000	3.38797E+001	3.38797E+001	4.41000E-003	0.00000E+000	3.39900E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	1.31300E-002	9.16100E-002	1.09050E-001	1.80000E-004	5.65000E-003	5.65000E-003	0.00000E+000	1.53195E+001	1.53195E+001	1.05000E-003	0.00000E+000	1.53458E+001
Cement and Mortar Mixers	1.18000E-003	7.36000E-003	6.17000E-003	1.00000E-005	2.90000E-004	2.90000E-004	0.00000E+000	9.16550E-001	9.16550E-001	1.00000E-004	0.00000E+000	9.18930E-001
Concrete/Industrial Saws	6.16000E-003	4.85700E-002	5.52500E-002	9.00000E-005	2.88000E-003	2.88000E-003	0.00000E+000	8.06484E+000	8.06484E+000	5.00000E-004	0.00000E+000	8.07736E+000
Cranes	2.47700E-002	2.90960E-001	1.18970E-001	3.50000E-004	1.18100E-002	1.08700E-002	0.00000E+000	3.04127E+001	3.04127E+001	9.84000E-003	0.00000E+000	3.06586E+001
Forklifts	1.35800E-002	1.23810E-001	1.22620E-001	1.60000E-004	8.79000E-003	8.09000E-003	0.00000E+000	1.41006E+001	1.41006E+001	4.56000E-003	0.00000E+000	1.42146E+001
Generator Sets	2.14400E-002	1.89970E-001	2.21080E-001	3.90000E-004	1.00600E-002	1.00600E-002	0.00000E+000	3.39124E+001	3.39124E+001	1.73000E-003	0.00000E+000	3.39557E+001
Graders	6.79000E-003	8.88700E-002	2.65100E-002	1.00000E-004	2.82000E-003	2.59000E-003	0.00000E+000	8.73188E+000	8.73188E+000	2.82000E-003	0.00000E+000	8.80248E+000
Pavers	4.92000E-003	5.19000E-002	5.81000E-002	9.00000E-005	2.51000E-003	2.31000E-003	0.00000E+000	8.25648E+000	8.25648E+000	2.67000E-003	0.00000E+000	8.32323E+000
Paving Equipment	3.84000E-003	3.88100E-002	5.08300E-002	8.00000E-005	1.92000E-003	1.76000E-003	0.00000E+000	7.15688E+000	7.15688E+000	2.31000E-003	0.00000E+000	7.21474E+000
Rollers	7.58000E-003	7.69700E-002	7.52200E-002	1.00000E-004	4.71000E-003	4.33000E-003	0.00000E+000	9.22021E+000	9.22021E+000	2.98000E-003	0.00000E+000	9.29476E+000
Rubber Tired Dozers	2.65400E-002	2.78430E-001	1.02020E-001	2.10000E-004	1.35700E-002	1.24800E-002	0.00000E+000	1.87639E+001	1.87639E+001	6.07000E-003	0.00000E+000	1.89156E+001
Scrapers	4.65000E-003	5.35100E-002	3.50200E-002	8.00000E-005	2.08000E-003	1.92000E-003	0.00000E+000	6.65833E+000	6.65833E+000	2.15000E-003	0.00000E+000	6.71216E+000
Tractors/Loaders/Backhoes	2.54600E-002	2.57230E-001	2.98740E-001	4.10000E-004	1.54800E-002	1.42400E-002	0.00000E+000	3.59940E+001	3.59940E+001	1.16400E-002	0.00000E+000	3.62851E+001
Welders	5.44800E-002	2.71600E-001	3.09390E-001	4.60000E-004	1.33400E-002	1.33400E-002	0.00000E+000	3.38797E+001	3.38797E+001	4.41000E-003	0.00000E+000	3.39900E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.30552E-006	1.30552E-006	0.00000E+000	0.00000E+000	1.30329E-006
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23803E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.31524E-006	1.31524E-006	0.00000E+000	0.00000E+000	1.30469E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.41838E-006	1.41838E-006	0.00000E+000	0.00000E+000	1.40700E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.17801E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14523E-006	1.14523E-006	0.00000E+000	0.00000E+000	1.13604E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21117E-006	1.21117E-006	0.00000E+000	0.00000E+000	1.20146E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.38605E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.08457E-006	1.08457E-006	0.00000E+000	0.00000E+000	1.07587E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06587E-006	1.06587E-006	0.00000E+000	0.00000E+000	1.58599E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.48983E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.11129E-006	1.11129E-006	0.00000E+000	0.00000E+000	1.10238E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18065E-006	1.18065E-006	0.00000E+000	0.00000E+000	1.17682E-006

**Fugitive Dust Mitigation**

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

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

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

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.06	0.03	0.06	0.03	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.15	5.15	5.12	3.85	5.15
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	3.20	4.27	6.08	7.09	7.02	7.48	0.00	7.36	7.36	6.03	0.00	7.36
Natural Gas	22.57	22.44	22.40	23.53	22.27	22.27	0.00	22.41	22.41	21.67	22.41	22.41
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.10	0.32		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
Yes	Land Use	Increase Transit Accessibility	0.08	0.50		
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.08			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.08		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"	4.50		
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.08		

### Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	150.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	150.00
No	Use Low VOC Paint (Parking)	150.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

### Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	30.00	
No	Install High Efficiency Lighting	0.00	
Yes	On-site Renewable	20.00	0.00

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

**Water Mitigation Measures**

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

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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