

CITY OF LINCOLN  
JOINER RANCH EAST PROJECT  
INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

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# Appendices

*Prepared for:*

CITY OF LINCOLN  
600 SIXTH STREET  
LINCOLN, CA 95648

*Prepared by:*

**Michael Baker**

**I N T E R N A T I O N A L**

2729 PROSPECT PARK DRIVE, SUITE 220  
RANCHO CORDOVA, CA 95670

**October 2020**

# Appendix A

Joiner Ranch East - Placer County APCD Air District, Winter

**Joiner Ranch East**  
**Placer County APCD Air District, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	199.00	Dwelling Unit	23.04	358,200.00	569
City Park	2.46	Acre	2.46	107,157.60	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2023
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Joiner Ranch East - Placer County APCD Air District, Winter

Project Characteristics -

Land Use - Change reflects actual lot acreage of project site and expected average number of people per household based on staff estimates.

Construction Phase - Anticipated construction schedule.

Vehicle Trips - City park is a bike path inaccessible by vehicle.

Woodstoves -

Land Use Change -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Construction Off-road Equipment Mitigation - Per AQMD standards and regulations.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	35.00	130.00
tblConstructionPhase	PhaseEndDate	3/16/2023	7/27/2023
tblLandUse	LotAcreage	64.61	23.04
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00

**2.0 Emissions Summary**

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Joiner Ranch East - Placer County APCD Air District, Winter

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2611	46.4478	31.3583	0.0634	18.2141	2.0454	20.2595	9.9699	1.8818	11.8516	0.0000	6,147.681 2	6,147.681 2	1.9461	0.0000	6,196.332 8
2022	2.2060	19.8822	19.7786	0.0458	1.2253	0.8234	2.0487	0.3310	0.7747	1.1057	0.0000	4,491.088 2	4,491.088 2	0.7162	0.0000	4,508.202 2
2023	34.7447	10.2208	14.8877	0.0238	0.1889	0.5109	0.6342	0.0501	0.4701	0.5027	0.0000	2,305.332 8	2,305.332 8	0.7159	0.0000	2,323.231 2
<b>Maximum</b>	<b>34.7447</b>	<b>46.4478</b>	<b>31.3583</b>	<b>0.0634</b>	<b>18.2141</b>	<b>2.0454</b>	<b>20.2595</b>	<b>9.9699</b>	<b>1.8818</b>	<b>11.8516</b>	<b>0.0000</b>	<b>6,147.681 2</b>	<b>6,147.681 2</b>	<b>1.9461</b>	<b>0.0000</b>	<b>6,196.332 8</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2611	46.4478	31.3583	0.0634	6.8080	2.0454	8.8534	3.7103	1.8818	5.5921	0.0000	6,147.681 2	6,147.681 2	1.9461	0.0000	6,196.332 8
2022	2.2060	19.8822	19.7786	0.0458	0.9592	0.8234	1.7826	0.2657	0.7747	1.0404	0.0000	4,491.088 2	4,491.088 2	0.7162	0.0000	4,508.202 2
2023	34.7447	10.2208	14.8877	0.0238	0.1463	0.5109	0.6063	0.0396	0.4701	0.4959	0.0000	2,305.332 8	2,305.332 8	0.7159	0.0000	2,323.231 2
<b>Maximum</b>	<b>34.7447</b>	<b>46.4478</b>	<b>31.3583</b>	<b>0.0634</b>	<b>6.8080</b>	<b>2.0454</b>	<b>8.8534</b>	<b>3.7103</b>	<b>1.8818</b>	<b>5.5921</b>	<b>0.0000</b>	<b>6,147.681 2</b>	<b>6,147.681 2</b>	<b>1.9461</b>	<b>0.0000</b>	<b>6,196.332 8</b>

## Joiner Ranch East - Placer County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	59.68	0.00	51.00	61.21	0.00	47.04	0.00	0.00	0.00	0.00	0.00	0.00

Joiner Ranch East - Placer County APCD 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	313.9425	6.1368	392.3538	0.6820		52.8002	52.8002		52.8002	52.8002	5,526.5744	2,347.3272	7,873.9016	5.1285	0.4347	8,131.6577
Energy	0.1519	1.2981	0.5524	8.2900e-003		0.1050	0.1050		0.1050	0.1050		1,657.0841	1,657.0841	0.0318	0.0304	1,666.9313
Mobile	2.8382	20.0348	36.1883	0.1446	12.0609	0.1047	12.1656	3.2324	0.0980	3.3304		14,677.3891	14,677.3891	0.5073		14,690.0710
<b>Total</b>	<b>316.9326</b>	<b>27.4696</b>	<b>429.0945</b>	<b>0.8348</b>	<b>12.0609</b>	<b>53.0099</b>	<b>65.0707</b>	<b>3.2324</b>	<b>53.0031</b>	<b>56.2355</b>	<b>5,526.5744</b>	<b>18,681.8003</b>	<b>24,208.3748</b>	<b>5.6676</b>	<b>0.4651</b>	<b>24,488.6599</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	9.3939	0.1893	16.4217	8.7000e-004		0.0909	0.0909		0.0909	0.0909	0.0000	29.5625	29.5625	0.0284	0.0000	30.2732
Energy	0.0798	0.6816	0.2901	4.3500e-003		0.0551	0.0551		0.0551	0.0551		870.1745	870.1745	0.0167	0.0160	875.3455
Mobile	2.8148	19.8506	35.6638	0.1420	11.8197	0.1029	11.9225	3.1677	0.0963	3.2640		14,413.8425	14,413.8425	0.5016		14,426.3821
<b>Total</b>	<b>12.2884</b>	<b>20.7215</b>	<b>52.3756</b>	<b>0.1472</b>	<b>11.8197</b>	<b>0.2489</b>	<b>12.0685</b>	<b>3.1677</b>	<b>0.2423</b>	<b>3.4100</b>	<b>0.0000</b>	<b>15,313.5794</b>	<b>15,313.5794</b>	<b>0.5467</b>	<b>0.0160</b>	<b>15,332.0008</b>

Joiner Ranch East - Placer County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	96.12	24.57	87.79	82.37	2.00	99.53	81.45	2.00	99.54	93.94	100.00	18.03	36.74	90.35	96.57	37.39

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2021	1/28/2021	5	20	
2	Grading	Grading	1/29/2021	4/1/2021	5	45	
3	Building Construction	Building Construction	4/2/2021	12/8/2022	5	440	
4	Paving	Paving	12/9/2022	1/26/2023	5	35	
5	Architectural Coating	Architectural Coating	1/27/2023	7/27/2023	5	130	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 725,355; Residential Outdoor: 241,785; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment



Joiner Ranch East - Placer County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	117.00	39.00	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	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Joiner Ranch East - Placer County APCD Air District, Winter

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Joiner Ranch East - Placer County APCD Air District, Winter

**3.2 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	0.0000	0.0000	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	0.0629	0.0431	0.4319	1.2700e-003	0.1479	9.1000e-004	0.1488	0.0392	8.4000e-004	0.0401		126.5740	126.5740	2.9400e-003		126.6474
<b>Total</b>	<b>0.0629</b>	<b>0.0431</b>	<b>0.4319</b>	<b>1.2700e-003</b>	<b>0.1479</b>	<b>9.1000e-004</b>	<b>0.1488</b>	<b>0.0392</b>	<b>8.4000e-004</b>	<b>0.0401</b>		<b>126.5740</b>	<b>126.5740</b>	<b>2.9400e-003</b>		<b>126.6474</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					6.6936	0.0000	6.6936	3.6793	0.0000	3.6793			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>6.6936</b>	<b>2.0445</b>	<b>8.7380</b>	<b>3.6793</b>	<b>1.8809</b>	<b>5.5602</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Joiner Ranch East - Placer County APCD Air District, Winter

**3.2 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	0.0000	0.0000	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	0.0629	0.0431	0.4319	1.2700e-003	0.1145	9.1000e-004	0.1154	0.0310	8.4000e-004	0.0319		126.5740	126.5740	2.9400e-003		126.6474
<b>Total</b>	<b>0.0629</b>	<b>0.0431</b>	<b>0.4319</b>	<b>1.2700e-003</b>	<b>0.1145</b>	<b>9.1000e-004</b>	<b>0.1154</b>	<b>0.0310</b>	<b>8.4000e-004</b>	<b>0.0319</b>		<b>126.5740</b>	<b>126.5740</b>	<b>2.9400e-003</b>		<b>126.6474</b>

**3.3 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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>8.6733</b>	<b>1.9853</b>	<b>10.6587</b>	<b>3.5965</b>	<b>1.8265</b>	<b>5.4230</b>		<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>

Joiner Ranch East - Placer County APCD Air District, Winter

**3.3 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	0.0699	0.0479	0.4798	1.4100e-003	0.1643	1.0200e-003	0.1653	0.0436	9.4000e-004	0.0445		140.6378	140.6378	3.2600e-003		140.7193
<b>Total</b>	<b>0.0699</b>	<b>0.0479</b>	<b>0.4798</b>	<b>1.4100e-003</b>	<b>0.1643</b>	<b>1.0200e-003</b>	<b>0.1653</b>	<b>0.0436</b>	<b>9.4000e-004</b>	<b>0.0445</b>		<b>140.6378</b>	<b>140.6378</b>	<b>3.2600e-003</b>		<b>140.7193</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					3.2135	0.0000	3.2135	1.3325	0.0000	1.3325			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>3.2135</b>	<b>1.9853</b>	<b>5.1988</b>	<b>1.3325</b>	<b>1.8265</b>	<b>3.1590</b>	<b>0.0000</b>	<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>

Joiner Ranch East - Placer County APCD Air District, Winter

**3.3 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	0.0699	0.0479	0.4798	1.4100e-003	0.1272	1.0200e-003	0.1282	0.0345	9.4000e-004	0.0354		140.6378	140.6378	3.2600e-003		140.7193
<b>Total</b>	<b>0.0699</b>	<b>0.0479</b>	<b>0.4798</b>	<b>1.4100e-003</b>	<b>0.1272</b>	<b>1.0200e-003</b>	<b>0.1282</b>	<b>0.0345</b>	<b>9.4000e-004</b>	<b>0.0354</b>		<b>140.6378</b>	<b>140.6378</b>	<b>3.2600e-003</b>		<b>140.7193</b>

**3.4 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

Joiner Ranch East - Placer County APCD Air District, Winter

**3.4 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	0.1249	4.2330	0.9000	0.0110	0.2642	0.0100	0.2742	0.0761	9.5800e-003	0.0856		1,153.8595	1,153.8595	0.0587		1,155.3263
Worker	0.4091	0.2804	2.8070	8.2600e-003	0.9611	5.9500e-003	0.9671	0.2549	5.4800e-003	0.2604		822.7310	822.7310	0.0191		823.2082
<b>Total</b>	<b>0.5340</b>	<b>4.5134</b>	<b>3.7070</b>	<b>0.0193</b>	<b>1.2253</b>	<b>0.0160</b>	<b>1.2412</b>	<b>0.3310</b>	<b>0.0151</b>	<b>0.3460</b>		<b>1,976.5905</b>	<b>1,976.5905</b>	<b>0.0778</b>		<b>1,978.5345</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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

Joiner Ranch East - Placer County APCD Air District, Winter

**3.4 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	0.1249	4.2330	0.9000	0.0110	0.2152	0.0100	0.2252	0.0640	9.5800e-003	0.0736		1,153.8595	1,153.8595	0.0587		1,155.3263
Worker	0.4091	0.2804	2.8070	8.2600e-003	0.7440	5.9500e-003	0.7499	0.2016	5.4800e-003	0.2071		822.7310	822.7310	0.0191		823.2082
<b>Total</b>	<b>0.5340</b>	<b>4.5134</b>	<b>3.7070</b>	<b>0.0193</b>	<b>0.9592</b>	<b>0.0160</b>	<b>0.9751</b>	<b>0.2657</b>	<b>0.0151</b>	<b>0.2807</b>		<b>1,976.5905</b>	<b>1,976.5905</b>	<b>0.0778</b>		<b>1,978.5345</b>

**3.4 Building Construction - 2022**

**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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>



Joiner Ranch East - Placer County APCD Air District, Winter

**3.4 Building Construction - 2022**

**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	0.1163	4.0143	0.8364	0.0109	0.2641	8.5900e-003	0.2727	0.0760	8.2200e-003	0.0843		1,144.1396	1,144.1396	0.0555		1,145.5276
Worker	0.3836	0.2522	2.5788	7.9500e-003	0.9611	5.8100e-003	0.9669	0.2549	5.3500e-003	0.2603		792.6150	792.6150	0.0171		793.0424
<b>Total</b>	<b>0.4998</b>	<b>4.2665</b>	<b>3.4152</b>	<b>0.0189</b>	<b>1.2253</b>	<b>0.0144</b>	<b>1.2397</b>	<b>0.3310</b>	<b>0.0136</b>	<b>0.3446</b>		<b>1,936.7546</b>	<b>1,936.7546</b>	<b>0.0726</b>		<b>1,938.5700</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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Joiner Ranch East - Placer County APCD Air District, Winter

**3.4 Building Construction - 2022**

**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	0.1163	4.0143	0.8364	0.0109	0.2152	8.5900e-003	0.2238	0.0640	8.2200e-003	0.0723		1,144.1396	1,144.1396	0.0555		1,145.5276
Worker	0.3836	0.2522	2.5788	7.9500e-003	0.7440	5.8100e-003	0.7498	0.2016	5.3500e-003	0.2070		792.6150	792.6150	0.0171		793.0424
<b>Total</b>	<b>0.4998</b>	<b>4.2665</b>	<b>3.4152</b>	<b>0.0189</b>	<b>0.9592</b>	<b>0.0144</b>	<b>0.9736</b>	<b>0.2657</b>	<b>0.0136</b>	<b>0.2792</b>		<b>1,936.7546</b>	<b>1,936.7546</b>	<b>0.0726</b>		<b>1,938.5700</b>

**3.5 Paving - 2022**

**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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

Joiner Ranch East - Placer County APCD Air District, Winter

**3.5 Paving - 2022**

**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	0.0492	0.0323	0.3306	1.0200e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334		101.6173	101.6173	2.1900e-003		101.6721
<b>Total</b>	<b>0.0492</b>	<b>0.0323</b>	<b>0.3306</b>	<b>1.0200e-003</b>	<b>0.1232</b>	<b>7.5000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>6.9000e-004</b>	<b>0.0334</b>		<b>101.6173</b>	<b>101.6173</b>	<b>2.1900e-003</b>		<b>101.6721</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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

Joiner Ranch East - Placer County APCD Air District, Winter

**3.5 Paving - 2022**

**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	0.0492	0.0323	0.3306	1.0200e-003	0.0954	7.5000e-004	0.0961	0.0259	6.9000e-004	0.0265		101.6173	101.6173	2.1900e-003		101.6721
<b>Total</b>	<b>0.0492</b>	<b>0.0323</b>	<b>0.3306</b>	<b>1.0200e-003</b>	<b>0.0954</b>	<b>7.5000e-004</b>	<b>0.0961</b>	<b>0.0259</b>	<b>6.9000e-004</b>	<b>0.0265</b>		<b>101.6173</b>	<b>101.6173</b>	<b>2.1900e-003</b>		<b>101.6721</b>

**3.5 Paving - 2023**

**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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0327</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

Joiner Ranch East - Placer County APCD Air District, Winter

**3.5 Paving - 2023**

**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	0.0462	0.0291	0.3035	9.8000e-004	0.1232	7.3000e-004	0.1240	0.0327	6.7000e-004	0.0334		97.7487	97.7487	1.9600e-003		97.7976
<b>Total</b>	<b>0.0462</b>	<b>0.0291</b>	<b>0.3035</b>	<b>9.8000e-004</b>	<b>0.1232</b>	<b>7.3000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>6.7000e-004</b>	<b>0.0334</b>		<b>97.7487</b>	<b>97.7487</b>	<b>1.9600e-003</b>		<b>97.7976</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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0327</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

Joiner Ranch East - Placer County APCD Air District, Winter

**3.5 Paving - 2023**

**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	0.0462	0.0291	0.3035	9.8000e-004	0.0954	7.3000e-004	0.0961	0.0259	6.7000e-004	0.0265		97.7487	97.7487	1.9600e-003		97.7976
<b>Total</b>	<b>0.0462</b>	<b>0.0291</b>	<b>0.3035</b>	<b>9.8000e-004</b>	<b>0.0954</b>	<b>7.3000e-004</b>	<b>0.0961</b>	<b>0.0259</b>	<b>6.7000e-004</b>	<b>0.0265</b>		<b>97.7487</b>	<b>97.7487</b>	<b>1.9600e-003</b>		<b>97.7976</b>

**3.6 Architectural Coating - 2023**

**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	34.4823					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>34.6739</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Joiner Ranch East - Placer County APCD Air District, Winter

**3.6 Architectural Coating - 2023**

**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	0.0708	0.0447	0.4653	1.5000e-003	0.1889	1.1200e-003	0.1901	0.0501	1.0300e-003	0.0512		149.8813	149.8813	3.0000e-003		149.9564
<b>Total</b>	<b>0.0708</b>	<b>0.0447</b>	<b>0.4653</b>	<b>1.5000e-003</b>	<b>0.1889</b>	<b>1.1200e-003</b>	<b>0.1901</b>	<b>0.0501</b>	<b>1.0300e-003</b>	<b>0.0512</b>		<b>149.8813</b>	<b>149.8813</b>	<b>3.0000e-003</b>		<b>149.9564</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	34.4823					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>34.6739</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Joiner Ranch East - Placer County APCD Air District, Winter

**3.6 Architectural Coating - 2023**

**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	0.0708	0.0447	0.4653	1.5000e-003	0.1463	1.1200e-003	0.1474	0.0396	1.0300e-003	0.0407		149.8813	149.8813	3.0000e-003		149.9564
<b>Total</b>	<b>0.0708</b>	<b>0.0447</b>	<b>0.4653</b>	<b>1.5000e-003</b>	<b>0.1463</b>	<b>1.1200e-003</b>	<b>0.1474</b>	<b>0.0396</b>	<b>1.0300e-003</b>	<b>0.0407</b>		<b>149.8813</b>	<b>149.8813</b>	<b>3.0000e-003</b>		<b>149.9564</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Improve Pedestrian Network



Joiner Ranch East - Placer County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.8148	19.8506	35.6638	0.1420	11.8197	0.1029	11.9225	3.1677	0.0963	3.2640		14,413.84 25	14,413.84 25	0.5016		14,426.38 21
Unmitigated	2.8382	20.0348	36.1883	0.1446	12.0609	0.1047	12.1656	3.2324	0.0980	3.3304		14,677.38 91	14,677.38 91	0.5073		14,690.07 10

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,894.48	1,972.09	1,715.38	5,385,287	5,277,581
City Park	0.00	0.00	0.00		
Total	1,894.48	1,972.09	1,715.38	5,385,287	5,277,581

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
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058
City Park	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058

Joiner Ranch East - Placer County APCD Air District, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0798	0.6816	0.2901	4.3500e-003		0.0551	0.0551		0.0551	0.0551		870.1745	870.1745	0.0167	0.0160	875.3455
NaturalGas Unmitigated	0.1519	1.2981	0.5524	8.2900e-003		0.1050	0.1050		0.1050	0.1050		1,657.0841	1,657.0841	0.0318	0.0304	1,666.9313

Joiner Ranch East - Placer County APCD Air District, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	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
Single Family Housing	14085.2	0.1519	1.2981	0.5524	8.2900e-003		0.1050	0.1050		0.1050	0.1050		1,657.0841	1,657.0841	0.0318	0.0304	1,666.9313
<b>Total</b>		<b>0.1519</b>	<b>1.2981</b>	<b>0.5524</b>	<b>8.2900e-003</b>		<b>0.1050</b>	<b>0.1050</b>		<b>0.1050</b>	<b>0.1050</b>		<b>1,657.0841</b>	<b>1,657.0841</b>	<b>0.0318</b>	<b>0.0304</b>	<b>1,666.9313</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					
City Park	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
Single Family Housing	7.39648	0.0798	0.6816	0.2901	4.3500e-003		0.0551	0.0551		0.0551	0.0551		870.1745	870.1745	0.0167	0.0160	875.3455
<b>Total</b>		<b>0.0798</b>	<b>0.6816</b>	<b>0.2901</b>	<b>4.3500e-003</b>		<b>0.0551</b>	<b>0.0551</b>		<b>0.0551</b>	<b>0.0551</b>		<b>870.1745</b>	<b>870.1745</b>	<b>0.0167</b>	<b>0.0160</b>	<b>875.3455</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Joiner Ranch East - Placer County APCD Air District, Winter

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.3939	0.1893	16.4217	8.7000e-004		0.0909	0.0909		0.0909	0.0909	0.0000	29.5625	29.5625	0.0284	0.0000	30.2732
Unmitigated	313.9425	6.1368	392.3538	0.6820		52.8002	52.8002		52.8002	52.8002	5,526.574 4	2,347.327 2	7,873.901 6	5.1285	0.4347	8,131.657 7

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	1.2281					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.6710					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	304.5486	5.9475	375.9322	0.6811		52.7093	52.7093		52.7093	52.7093	5,526.574 4	2,317.764 7	7,844.339 1	5.1001	0.4347	8,101.384 5
Landscaping	0.4947	0.1893	16.4217	8.7000e-004		0.0909	0.0909		0.0909	0.0909		29.5625	29.5625	0.0284		30.2732
<b>Total</b>	<b>313.9425</b>	<b>6.1368</b>	<b>392.3538</b>	<b>0.6820</b>		<b>52.8002</b>	<b>52.8002</b>		<b>52.8002</b>	<b>52.8002</b>	<b>5,526.574 4</b>	<b>2,347.327 2</b>	<b>7,873.901 6</b>	<b>5.1285</b>	<b>0.4347</b>	<b>8,131.657 7</b>

Joiner Ranch East - Placer County APCD 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	1.2281					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.6710					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4947	0.1893	16.4217	8.7000e-004		0.0909	0.0909		0.0909	0.0909		29.5625	29.5625	0.0284		30.2732
<b>Total</b>	<b>9.3939</b>	<b>0.1893</b>	<b>16.4217</b>	<b>8.7000e-004</b>		<b>0.0909</b>	<b>0.0909</b>		<b>0.0909</b>	<b>0.0909</b>	<b>0.0000</b>	<b>29.5625</b>	<b>29.5625</b>	<b>0.0284</b>	<b>0.0000</b>	<b>30.2732</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Joiner Ranch East - Placer County APCD Air District, Winter

**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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