

Air Quality Data

Existing Project Site

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, Winter

The Villages at the Alhambra - Existing
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	10.15	1000sqft	0.23	10,145.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2018
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Existing office space to be repurposed.

Construction Phase - Existing only.

Vehicle Trips - Per traffic study.

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	PhaseEndDate	12/10/2018	11/26/2018
tblVehicleTrips	WD_TR	11.03	11.04

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2267	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2200e-003	2.2200e-003	1.0000e-005		2.3700e-003
Energy	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.6781	40.6781	7.8000e-004	7.5000e-004	40.9198
Mobile	0.2705	1.2595	3.5636	9.9700e-003	0.7674	0.0124	0.7798	0.2054	0.0117	0.2171		1,011.6401	1,011.6401	0.0640		1,013.2400
Total	0.5010	1.2934	3.5932	0.0102	0.7674	0.0150	0.7824	0.2054	0.0143	0.2197		1,052.3204	1,052.3204	0.0648	7.5000e-004	1,054.1622

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	0.2267	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2200e-003	2.2200e-003	1.0000e-005		2.3700e-003
Energy	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.6781	40.6781	7.8000e-004	7.5000e-004	40.9198
Mobile	0.2705	1.2595	3.5636	9.9700e-003	0.7674	0.0124	0.7798	0.2054	0.0117	0.2171		1,011.6401	1,011.6401	0.0640		1,013.2400
Total	0.5010	1.2934	3.5932	0.0102	0.7674	0.0150	0.7824	0.2054	0.0143	0.2197		1,052.3204	1,052.3204	0.0648	7.5000e-004	1,054.1622

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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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/27/2018	11/26/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, Winter

3.2 Demolition - 2018

Mitigated Construction On-Site

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

Mitigated Construction 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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2705	1.2595	3.5636	9.9700e-003	0.7674	0.0124	0.7798	0.2054	0.0117	0.2171		1,011.6401	1,011.6401	0.0640		1,013.2400
Unmitigated	0.2705	1.2595	3.5636	9.9700e-003	0.7674	0.0124	0.7798	0.2054	0.0117	0.2171		1,011.6401	1,011.6401	0.0640		1,013.2400

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	112.00	24.96	10.65	274,106	274,106
Total	112.00	24.96	10.65	274,106	274,106

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 Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, Winter

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.6781	40.6781	7.8000e-004	7.5000e-004	40.9198
NaturalGas Unmitigated	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.6781	40.6781	7.8000e-004	7.5000e-004	40.9198

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	345.764	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.6781	40.6781	7.8000e-004	7.5000e-004	40.9198
Total		3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.6781	40.6781	7.8000e-004	7.5000e-004	40.9198

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 Office Building	0.345764	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.6781	40.6781	7.8000e-004	7.5000e-004	40.9198
Total		3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.6781	40.6781	7.8000e-004	7.5000e-004	40.9198

6.0 Area Detail

6.1 Mitigation Measures Area

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2267	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2200e-003	2.2200e-003	1.0000e-005		2.3700e-003
Unmitigated	0.2267	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2200e-003	2.2200e-003	1.0000e-005		2.3700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0258					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2009					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2200e-003	2.2200e-003	1.0000e-005		2.3700e-003
Total	0.2267	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2200e-003	2.2200e-003	1.0000e-005		2.3700e-003

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, 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	0.0258					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2009					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2200e-003	2.2200e-003	1.0000e-005		2.3700e-003
Total	0.2267	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2200e-003	2.2200e-003	1.0000e-005		2.3700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, 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

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, Summer

The Villages at the Alhambra - Existing
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	10.15	1000sqft	0.23	10,145.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2018
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Existing office space to be repurposed.

Construction Phase - Existing only.

Vehicle Trips - Per traffic study.

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	PhaseEndDate	12/10/2018	11/26/2018
tblVehicleTrips	WD_TR	11.03	11.04

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2267	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2200e-003	2.2200e-003	1.0000e-005		2.3700e-003
Energy	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.6781	40.6781	7.8000e-004	7.5000e-004	40.9198
Mobile	0.2767	1.2213	3.7338	0.0105	0.7674	0.0124	0.7797	0.2054	0.0116	0.2170		1,063.9154	1,063.9154	0.0644		1,065.5258
Total	0.5071	1.2552	3.7633	0.0107	0.7674	0.0149	0.7823	0.2054	0.0142	0.2196		1,104.5957	1,104.5957	0.0652	7.5000e-004	1,106.4480

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	0.2267	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2200e-003	2.2200e-003	1.0000e-005		2.3700e-003
Energy	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.6781	40.6781	7.8000e-004	7.5000e-004	40.9198
Mobile	0.2767	1.2213	3.7338	0.0105	0.7674	0.0124	0.7797	0.2054	0.0116	0.2170		1,063.9154	1,063.9154	0.0644		1,065.5258
Total	0.5071	1.2552	3.7633	0.0107	0.7674	0.0149	0.7823	0.2054	0.0142	0.2196		1,104.5957	1,104.5957	0.0652	7.5000e-004	1,106.4480

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/27/2018	11/26/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, Summer

3.2 Demolition - 2018

Mitigated Construction On-Site

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

Mitigated Construction 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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2767	1.2213	3.7338	0.0105	0.7674	0.0124	0.7797	0.2054	0.0116	0.2170		1,063.9154	1,063.9154	0.0644		1,065.5258
Unmitigated	0.2767	1.2213	3.7338	0.0105	0.7674	0.0124	0.7797	0.2054	0.0116	0.2170		1,063.9154	1,063.9154	0.0644		1,065.5258

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	112.00	24.96	10.65	274,106	274,106
Total	112.00	24.96	10.65	274,106	274,106

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 Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, Summer

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.6781	40.6781	7.8000e-004	7.5000e-004	40.9198
NaturalGas Unmitigated	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.6781	40.6781	7.8000e-004	7.5000e-004	40.9198

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	345.764	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.6781	40.6781	7.8000e-004	7.5000e-004	40.9198
Total		3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.6781	40.6781	7.8000e-004	7.5000e-004	40.9198

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 Office Building	0.345764	3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.6781	40.6781	7.8000e-004	7.5000e-004	40.9198
Total		3.7300e-003	0.0339	0.0285	2.0000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003		40.6781	40.6781	7.8000e-004	7.5000e-004	40.9198

6.0 Area Detail

6.1 Mitigation Measures Area

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2267	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2200e-003	2.2200e-003	1.0000e-005		2.3700e-003
Unmitigated	0.2267	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2200e-003	2.2200e-003	1.0000e-005		2.3700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0258					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2009					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2200e-003	2.2200e-003	1.0000e-005		2.3700e-003
Total	0.2267	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2200e-003	2.2200e-003	1.0000e-005		2.3700e-003

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, 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	0.0258					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2009					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2200e-003	2.2200e-003	1.0000e-005		2.3700e-003
Total	0.2267	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2200e-003	2.2200e-003	1.0000e-005		2.3700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

The Villages at the Alhambra - Existing - Los Angeles-South Coast County, 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

Air Quality Data

Project Construction and Operation

Scenario 1

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

The Villages at the Alhambra - Scenario 1
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	2,547.00	Space	3.00	1,018,800.00	0
Apartments Mid Rise	545.00	Dwelling Unit	7.00	625,932.00	1559
Condo/Townhouse	516.00	Dwelling Unit	11.00	731,698.00	1476

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

Project Characteristics -

Land Use - Construction area is approximately 21 acres.

Construction Phase - Estimated construction schedule.

Demolition - 104,242 sf demo required.

Grading - 120,000 cy soil export.

Architectural Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Vehicle Trips - Per traffic study.

Area Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Project would implement energy efficient appliances and lighting.

Water Mitigation - Project would implment low flow fixtures and efficient landscaping.

Waste Mitigation - Per AB 341 all municipalities must divert 75% of waste by 2020.

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	20.00	154.00
tblConstructionPhase	NumDays	370.00	563.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	35.00	154.00
tblConstructionPhase	NumDays	20.00	44.00
tblGrading	AcresOfGrading	385.00	21.00
tblGrading	MaterialExported	0.00	120,000.00
tblLandUse	LandUseSquareFeet	545,000.00	625,932.00
tblLandUse	LandUseSquareFeet	516,000.00	731,698.00
tblLandUse	LotAcreage	22.92	3.00
tblLandUse	LotAcreage	14.34	7.00
tblLandUse	LotAcreage	32.25	11.00
tblVehicleTrips	ST_TR	6.39	5.32
tblVehicleTrips	SU_TR	5.86	5.32
tblVehicleTrips	WD_TR	6.65	5.32
tblVehicleTrips	WD_TR	5.81	6.40

2.0 Emissions Summary

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, 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					
2020	9.2523	78.6397	73.2558	0.2301	15.1163	2.2665	16.4872	4.0496	2.0885	5.9539	0.0000	23,298.0879	23,298.0879	2.5374	0.0000	23,336.6734
2021	8.4781	48.4486	68.3328	0.2253	15.1164	1.1237	16.2400	4.0496	1.0553	5.1050	0.0000	22,820.2716	22,820.2716	1.4754	0.0000	22,857.1558
2022	66.4061	58.1873	89.2100	0.2721	17.9443	1.6353	19.5796	4.7997	1.5298	6.3294	0.0000	27,412.1384	27,412.1384	2.2222	0.0000	27,467.6928
Maximum	66.4061	78.6397	89.2100	0.2721	17.9443	2.2665	19.5796	4.7997	2.0885	6.3294	0.0000	27,412.1384	27,412.1384	2.5374	0.0000	27,467.6928

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					
2020	9.2523	78.6397	73.2558	0.2301	15.1163	2.2665	16.4872	4.0496	2.0885	5.9539	0.0000	23,298.0879	23,298.0879	2.5374	0.0000	23,336.6734
2021	8.4781	48.4486	68.3328	0.2253	15.1164	1.1237	16.2400	4.0496	1.0553	5.1050	0.0000	22,820.2716	22,820.2716	1.4754	0.0000	22,857.1558
2022	66.4061	58.1873	89.2100	0.2721	17.9443	1.6353	19.5796	4.7997	1.5298	6.3294	0.0000	27,412.1384	27,412.1384	2.2222	0.0000	27,467.6928
Maximum	66.4061	78.6397	89.2100	0.2721	17.9443	2.2665	19.5796	4.7997	2.0885	6.3294	0.0000	27,412.1384	27,412.1384	2.5374	0.0000	27,467.6928

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	310.2779	23.0237	627.2838	1.3811		81.5342	81.5342		81.5342	81.5342	9,938.3004	19,256.1714	29,194.4718	29.7903	0.6745	30,140.2430
Energy	0.4776	4.0812	1.7367	0.0261		0.3300	0.3300		0.3300	0.3300		5,209.9976	5,209.9976	0.0999	0.0955	5,240.9580
Mobile	7.8246	38.0507	101.7089	0.4499	45.0499	0.3194	45.3694	12.0518	0.2967	12.3485		46,028.1577	46,028.1577	2.0368		46,079.0769
Total	318.5801	65.1555	730.7294	1.8571	45.0499	82.1836	127.2335	12.0518	82.1608	94.2126	9,938.3004	70,494.3267	80,432.6271	31.9270	0.7701	81,460.2780

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	34.1113	16.8498	94.4508	0.1058		1.7669	1.7669		1.7669	1.7669	0.0000	20,379.5832	20,379.5832	0.5400	0.3707	20,503.5585
Energy	0.4776	4.0812	1.7367	0.0261		0.3300	0.3300		0.3300	0.3300		5,209.9976	5,209.9976	0.0999	0.0955	5,240.9580
Mobile	6.7121	32.3843	76.2300	0.3223	31.5350	0.2328	31.7678	8.4363	0.2162	8.6524		32,989.6749	32,989.6749	1.5199		33,027.6719
Total	41.3010	53.3153	172.4174	0.4541	31.5350	2.3296	33.8646	8.4363	2.3130	10.7492	0.0000	58,579.2557	58,579.2557	2.1597	0.4663	58,772.1884

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	87.04	18.17	76.40	75.55	30.00	97.17	73.38	30.00	97.18	88.59	100.00	16.90	27.17	93.24	39.45	27.85

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	4/1/2020	5	66	
2	Grading	Grading	4/2/2020	11/3/2020	5	154	
3	Building Construction	Building Construction	11/4/2020	12/30/2022	5	563	
4	Architectural Coating	Architectural Coating	5/31/2022	12/30/2022	5	154	
5	Paving	Paving	11/1/2022	12/30/2022	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 21

Acres of Paving: 3

Residential Indoor: 2,749,201; Residential Outdoor: 916,400; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 61,128 (Architectural Coating – sqft)

OffRoad Equipment

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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
Demolition	6	15.00	0.00	474.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	15,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,192.00	280.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	238.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

3.1 Mitigation Measures Construction

Water Exposed Area

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					1.5547	0.0000	1.5547	0.2354	0.0000	0.2354			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	1.5547	1.6587	3.2134	0.2354	1.5419	1.7773		3,747.7049	3,747.7049	1.0580		3,774.1536

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0643	2.0918	0.4863	5.5700e-003	0.1256	6.6900e-003	0.1323	0.0344	6.4000e-003	0.0408		604.0585	604.0585	0.0434		605.1424
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	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	0.1409	2.1462	1.0878	7.2400e-003	0.2932	8.0900e-003	0.3013	0.0789	7.6900e-003	0.0866		770.1715	770.1715	0.0486		771.3864

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					1.5547	0.0000	1.5547	0.2354	0.0000	0.2354			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	1.5547	1.6587	3.2134	0.2354	1.5419	1.7773	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0643	2.0918	0.4863	5.5700e-003	0.1256	6.6900e-003	0.1323	0.0344	6.4000e-003	0.0408		604.0585	604.0585	0.0434		605.1424
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	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	0.1409	2.1462	1.0878	7.2400e-003	0.2932	8.0900e-003	0.3013	0.0789	7.6900e-003	0.0866		770.1715	770.1715	0.0486		771.3864

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2548	0.0000	6.2548	3.3392	0.0000	3.3392			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	6.2548	2.1739	8.4287	3.3392	2.0000	5.3392		6,005.8653	6,005.8653	1.9424		6,054.4257

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8715	28.3697	6.5957	0.0756	1.7030	0.0908	1.7938	0.4668	0.0868	0.5537		8,192.4747	8,192.4747	0.5880		8,207.1755
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	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	0.9737	28.4422	7.3977	0.0778	1.9266	0.0926	2.0192	0.5261	0.0886	0.6147		8,413.9588	8,413.9588	0.5950		8,428.8341

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					6.2548	0.0000	6.2548	3.3392	0.0000	3.3392			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	6.2548	2.1739	8.4287	3.3392	2.0000	5.3392	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8715	28.3697	6.5957	0.0756	1.7030	0.0908	1.7938	0.4668	0.0868	0.5537		8,192.4747	8,192.4747	0.5880		8,207.1755
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	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	0.9737	28.4422	7.3977	0.0778	1.9266	0.0926	2.0192	0.5261	0.0886	0.6147		8,413.9588	8,413.9588	0.5950		8,428.8341

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0411	29.7781	8.6068	0.0707	1.7926	0.1424	1.9350	0.5161	0.1362	0.6523		7,544.5738	7,544.5738	0.5045		7,557.1863
Worker	6.0914	4.3207	47.8005	0.1325	13.3238	0.1114	13.4351	3.5335	0.1026	3.6361		13,200.4510	13,200.4510	0.4161		13,210.8527
Total	7.1325	34.0988	56.4073	0.2032	15.1163	0.2538	15.3701	4.0496	0.2388	4.2885		20,745.0248	20,745.0248	0.9206		20,768.0390

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0411	29.7781	8.6068	0.0707	1.7926	0.1424	1.9350	0.5161	0.1362	0.6523		7,544.5738	7,544.5738	0.5045		7,557.1863
Worker	6.0914	4.3207	47.8005	0.1325	13.3238	0.1114	13.4351	3.5335	0.1026	3.6361		13,200.4510	13,200.4510	0.4161		13,210.8527
Total	7.1325	34.0988	56.4073	0.2032	15.1163	0.2538	15.3701	4.0496	0.2388	4.2885		20,745.0248	20,745.0248	0.9206		20,768.0390

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
Total	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

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, 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	0.8935	27.1289	7.8615	0.0701	1.7926	0.0574	1.8500	0.5161	0.0549	0.5710		7,485.6747	7,485.6747	0.4833		7,497.7560
Worker	5.6837	3.8877	43.8961	0.1283	13.3238	0.1077	13.4314	3.5335	0.0992	3.6327		12,781.2330	12,781.2330	0.3761		12,790.6356
Total	6.5772	31.0165	51.7576	0.1984	15.1164	0.1650	15.2814	4.0496	0.1540	4.2037		20,266.9077	20,266.9077	0.8594		20,288.3916

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
Total	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

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, 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	0.8935	27.1289	7.8615	0.0701	1.7926	0.0574	1.8500	0.5161	0.0549	0.5710		7,485.6747	7,485.6747	0.4833		7,497.7560
Worker	5.6837	3.8877	43.8961	0.1283	13.3238	0.1077	13.4314	3.5335	0.0992	3.6327		12,781.2330	12,781.2330	0.3761		12,790.6356
Total	6.5772	31.0165	51.7576	0.1984	15.1164	0.1650	15.2814	4.0496	0.1540	4.2037		20,266.9077	20,266.9077	0.8594		20,288.3916

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
Total	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

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, 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	0.8388	25.7822	7.4416	0.0694	1.7926	0.0502	1.8428	0.5161	0.0480	0.5641		7,419.1678	7,419.1678	0.4663		7,430.8247
Worker	5.3383	3.5109	40.4298	0.1237	13.3238	0.1043	13.4281	3.5335	0.0961	3.6296		12,332.0679	12,332.0679	0.3396		12,340.5570
Total	6.1770	29.2931	47.8714	0.1931	15.1164	0.1545	15.2709	4.0497	0.1441	4.1937		19,751.2357	19,751.2357	0.8058		19,771.3816

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
Total	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

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, 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	0.8388	25.7822	7.4416	0.0694	1.7926	0.0502	1.8428	0.5161	0.0480	0.5641		7,419.1678	7,419.1678	0.4663		7,430.8247
Worker	5.3383	3.5109	40.4298	0.1237	13.3238	0.1043	13.4281	3.5335	0.0961	3.6296		12,332.0679	12,332.0679	0.3396		12,340.5570
Total	6.1770	29.2931	47.8714	0.1931	15.1164	0.1545	15.2709	4.0497	0.1441	4.1937		19,751.2357	19,751.2357	0.8058		19,771.3816

3.5 Architectural Coating - 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					
Archit. Coating	56.0824					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	56.2870	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

3.5 Architectural Coating - 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	1.0659	0.7010	8.0724	0.0247	2.6603	0.0208	2.6811	0.7055	0.0192	0.7247		2,462.275 3	2,462.275 3	0.0678		2,463.970 3
Total	1.0659	0.7010	8.0724	0.0247	2.6603	0.0208	2.6811	0.7055	0.0192	0.7247		2,462.275 3	2,462.275 3	0.0678		2,463.970 3

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	56.0824					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	56.2870	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

3.5 Architectural Coating - 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	1.0659	0.7010	8.0724	0.0247	2.6603	0.0208	2.6811	0.7055	0.0192	0.7247		2,462.275 3	2,462.275 3	0.0678		2,463.970 3
Total	1.0659	0.7010	8.0724	0.0247	2.6603	0.0208	2.6811	0.7055	0.0192	0.7247		2,462.275 3	2,462.275 3	0.0678		2,463.970 3

3.6 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		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

3.6 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	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922
Total	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922

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
Total	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

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

3.6 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	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922
Total	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.7121	32.3843	76.2300	0.3223	31.5350	0.2328	31.7678	8.4363	0.2162	8.6524		32,989.67 49	32,989.67 49	1.5199		33,027.67 19
Unmitigated	7.8246	38.0507	101.7089	0.4499	45.0499	0.3194	45.3694	12.0518	0.2967	12.3485		46,028.15 77	46,028.15 77	2.0368		46,079.07 69

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,899.40	2,899.40	2899.40	9,907,690	6,935,383
Condo/Townhouse	3,302.40	2,925.72	2497.44	10,707,968	7,495,577
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	6,201.80	5,825.12	5,396.84	20,615,658	14,430,961

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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Condo/Townhouse	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Enclosed Parking with Elevator	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4776	4.0812	1.7367	0.0261		0.3300	0.3300		0.3300	0.3300		5,209.9976	5,209.9976	0.0999	0.0955	5,240.9580
NaturalGas Unmitigated	0.4776	4.0812	1.7367	0.0261		0.3300	0.3300		0.3300	0.3300		5,209.9976	5,209.9976	0.0999	0.0955	5,240.9580

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	20002.5	0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194
Condo/Townhouse	24282.5	0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.4776	4.0812	1.7367	0.0261		0.3300	0.3300		0.3300	0.3300		5,209.9976	5,209.9976	0.0999	0.0955	5,240.9580

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					
Apartments Mid Rise	20.0025	0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194
Condo/Townhouse	24.2825	0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.4776	4.0812	1.7367	0.0261		0.3300	0.3300		0.3300	0.3300		5,209.9976	5,209.9976	0.0999	0.0955	5,240.9580

6.0 Area Detail

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	34.1113	16.8498	94.4508	0.1058		1.7669	1.7669		1.7669	1.7669	0.0000	20,379.58 32	20,379.58 32	0.5400	0.3707	20,503.55 85
Unmitigated	310.2779	23.0237	627.2838	1.3811		81.5342	81.5342		81.5342	81.5342	9,938.300 4	19,256.17 14	29,194.47 18	29.7903	0.6745	30,140.24 30

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.3662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	27.2419					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	278.0202	22.0140	539.5735	1.3765		81.0480	81.0480		81.0480	81.0480	9,938.3004	19,098.0000	29,036.3004	29.6379	0.6745	29,978.2620
Landscaping	2.6496	1.0097	87.7103	4.6400e-003		0.4862	0.4862		0.4862	0.4862		158.1714	158.1714	0.1524		161.9810
Total	310.2779	23.0237	627.2838	1.3811		81.5342	81.5342		81.5342	81.5342	9,938.3004	19,256.1714	29,194.4718	29.7903	0.6745	30,140.2430

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, 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	2.3662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	27.2419					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.8536	15.8401	6.7405	0.1011		1.2807	1.2807		1.2807	1.2807	0.0000	20,221.41 18	20,221.41 18	0.3876	0.3707	20,341.57 75
Landscaping	2.6496	1.0097	87.7103	4.6400e-003		0.4862	0.4862		0.4862	0.4862		158.1714	158.1714	0.1524		161.9810
Total	34.1113	16.8498	94.4508	0.1058		1.7669	1.7669		1.7669	1.7669	0.0000	20,379.58 32	20,379.58 32	0.5400	0.3707	20,503.55 85

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Winter

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

The Villages at the Alhambra - Scenario 1
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	2,547.00	Space	3.00	1,018,800.00	0
Apartments Mid Rise	545.00	Dwelling Unit	7.00	625,932.00	1559
Condo/Townhouse	516.00	Dwelling Unit	11.00	731,698.00	1476

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

Project Characteristics -

Land Use - Construction area is approximately 21 acres.

Construction Phase - Estimated construction schedule.

Demolition - 104,242 sf demo required.

Grading - 120,000 cy soil export.

Architectural Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Vehicle Trips - Per traffic study.

Area Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Project would implement energy efficient appliances and lighting.

Water Mitigation - Project would implment low flow fixtures and efficient landscaping.

Waste Mitigation - Per AB 341 all municipalities must divert 75% of waste by 2020.

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	20.00	154.00
tblConstructionPhase	NumDays	370.00	563.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	35.00	154.00
tblConstructionPhase	NumDays	20.00	44.00
tblGrading	AcresOfGrading	385.00	21.00
tblGrading	MaterialExported	0.00	120,000.00
tblLandUse	LandUseSquareFeet	545,000.00	625,932.00
tblLandUse	LandUseSquareFeet	516,000.00	731,698.00
tblLandUse	LotAcreage	22.92	3.00
tblLandUse	LotAcreage	14.34	7.00
tblLandUse	LotAcreage	32.25	11.00
tblVehicleTrips	ST_TR	6.39	5.32
tblVehicleTrips	SU_TR	5.86	5.32
tblVehicleTrips	WD_TR	6.65	5.32
tblVehicleTrips	WD_TR	5.81	6.40

2.0 Emissions Summary

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

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					
2020	8.6013	78.2702	76.8433	0.2403	15.1163	2.2652	16.4849	4.0496	2.0872	5.9525	0.0000	24,329.0200	24,329.0200	2.5172	0.0000	24,367.4748
2021	7.8616	48.1292	71.6927	0.2352	15.1164	1.1219	16.2382	4.0496	1.0536	5.1033	0.0000	23,824.1582	23,824.1582	1.4694	0.0000	23,860.8934
2022	65.6968	57.8472	93.1782	0.2834	17.9443	1.6337	19.5780	4.7997	1.5283	6.3279	0.0000	28,549.4398	28,549.4398	2.2203	0.0000	28,604.9473
Maximum	65.6968	78.2702	93.1782	0.2834	17.9443	2.2652	19.5780	4.7997	2.0872	6.3279	0.0000	28,549.4398	28,549.4398	2.5172	0.0000	28,604.9473

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					
2020	8.6013	78.2702	76.8433	0.2403	15.1163	2.2652	16.4849	4.0496	2.0872	5.9525	0.0000	24,329.0200	24,329.0200	2.5172	0.0000	24,367.4747
2021	7.8616	48.1292	71.6927	0.2352	15.1164	1.1219	16.2382	4.0496	1.0536	5.1033	0.0000	23,824.1582	23,824.1582	1.4694	0.0000	23,860.8934
2022	65.6968	57.8472	93.1782	0.2834	17.9443	1.6337	19.5780	4.7997	1.5283	6.3279	0.0000	28,549.4398	28,549.4398	2.2203	0.0000	28,604.9473
Maximum	65.6968	78.2702	93.1782	0.2834	17.9443	2.2652	19.5780	4.7997	2.0872	6.3279	0.0000	28,549.4398	28,549.4398	2.5172	0.0000	28,604.9473

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	310.2779	23.0237	627.2838	1.3811		81.5342	81.5342		81.5342	81.5342	9,938.3004	19,256.1714	29,194.4718	29.7903	0.6745	30,140.2430
Energy	0.4776	4.0812	1.7367	0.0261		0.3300	0.3300		0.3300	0.3300		5,209.9976	5,209.9976	0.0999	0.0955	5,240.9580
Mobile	8.0754	37.3601	107.4166	0.4721	45.0499	0.3184	45.3684	12.0518	0.2957	12.3475		48,266.1628	48,266.1628	2.0355		48,317.0494
Total	318.8309	64.4649	736.4370	1.8793	45.0499	82.1826	127.2325	12.0518	82.1599	94.2116	9,938.3004	72,732.3319	82,670.6323	31.9256	0.7701	83,698.2505

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	34.1113	16.8498	94.4508	0.1058		1.7669	1.7669		1.7669	1.7669	0.0000	20,379.5832	20,379.5832	0.5400	0.3707	20,503.5585
Energy	0.4776	4.0812	1.7367	0.0261		0.3300	0.3300		0.3300	0.3300		5,209.9976	5,209.9976	0.0999	0.0955	5,240.9580
Mobile	6.9436	32.0160	79.4114	0.3385	31.5350	0.2318	31.7668	8.4363	0.2152	8.6515		34,640.9385	34,640.9385	1.5083		34,678.6460
Total	41.5325	52.9469	175.5988	0.4703	31.5350	2.3286	33.8636	8.4363	2.3120	10.7483	0.0000	60,230.5193	60,230.5193	2.1481	0.4663	60,423.1626

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	86.97	17.87	76.16	74.97	30.00	97.17	73.38	30.00	97.19	88.59	100.00	17.19	27.14	93.27	39.45	27.81

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	4/1/2020	5	66	
2	Grading	Grading	4/2/2020	11/3/2020	5	154	
3	Building Construction	Building Construction	11/4/2020	12/30/2022	5	563	
4	Architectural Coating	Architectural Coating	5/31/2022	12/30/2022	5	154	
5	Paving	Paving	11/1/2022	12/30/2022	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 21

Acres of Paving: 3

Residential Indoor: 2,749,201; Residential Outdoor: 916,400; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 61,128 (Architectural Coating – sqft)

OffRoad Equipment

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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
Demolition	6	15.00	0.00	474.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	15,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,192.00	280.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	238.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

3.1 Mitigation Measures Construction

Water Exposed Area

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					1.5547	0.0000	1.5547	0.2354	0.0000	0.2354			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	1.5547	1.6587	3.2134	0.2354	1.5419	1.7773		3,747.7049	3,747.7049	1.0580		3,774.1536

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0627	2.0651	0.4576	5.6700e-003	0.1256	6.5900e-003	0.1322	0.0344	6.3100e-003	0.0407		614.6429	614.6429	0.0418		615.6888
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	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	0.1318	2.1142	1.1144	7.4400e-003	0.2932	7.9900e-003	0.3012	0.0789	7.6000e-003	0.0865		791.0598	791.0598	0.0474		792.2447

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					1.5547	0.0000	1.5547	0.2354	0.0000	0.2354			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	1.5547	1.6587	3.2134	0.2354	1.5419	1.7773	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0627	2.0651	0.4576	5.6700e-003	0.1256	6.5900e-003	0.1322	0.0344	6.3100e-003	0.0407		614.6429	614.6429	0.0418		615.6888
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	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	0.1318	2.1142	1.1144	7.4400e-003	0.2932	7.9900e-003	0.3012	0.0789	7.6000e-003	0.0865		791.0598	791.0598	0.0474		792.2447

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2548	0.0000	6.2548	3.3392	0.0000	3.3392			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	6.2548	2.1739	8.4287	3.3392	2.0000	5.3392		6,005.8653	6,005.8653	1.9424		6,054.4257

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8508	28.0072	6.2061	0.0769	1.7030	0.0894	1.7924	0.4668	0.0855	0.5524		8,336.024 2	8,336.024 2	0.5674		8,350.209 3
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	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	0.9429	28.0727	7.0818	0.0793	1.9266	0.0913	2.0179	0.5261	0.0872	0.6134		8,571.246 8	8,571.246 8	0.5748		8,585.617 2

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					6.2548	0.0000	6.2548	3.3392	0.0000	3.3392			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	6.2548	2.1739	8.4287	3.3392	2.0000	5.3392	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8508	28.0072	6.2061	0.0769	1.7030	0.0894	1.7924	0.4668	0.0855	0.5524		8,336.024 2	8,336.024 2	0.5674		8,350.209 3
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	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	0.9429	28.0727	7.0818	0.0793	1.9266	0.0913	2.0179	0.5261	0.0872	0.6134		8,571.246 8	8,571.246 8	0.5748		8,585.617 2

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9959	29.7843	7.8038	0.0726	1.7926	0.1402	1.9327	0.5161	0.1341	0.6502		7,756.6915	7,756.6915	0.4733		7,768.5249
Worker	5.4856	3.9025	52.1911	0.1408	13.3238	0.1114	13.4351	3.5335	0.1026	3.6361		14,019.2654	14,019.2654	0.4420		14,030.3154
Total	6.4815	33.6868	59.9948	0.2134	15.1163	0.2516	15.3679	4.0496	0.2367	4.2863		21,775.9569	21,775.9569	0.9153		21,798.8403

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9959	29.7843	7.8038	0.0726	1.7926	0.1402	1.9327	0.5161	0.1341	0.6502		7,756.6915	7,756.6915	0.4733		7,768.5249
Worker	5.4856	3.9025	52.1911	0.1408	13.3238	0.1114	13.4351	3.5335	0.1026	3.6361		14,019.2654	14,019.2654	0.4420		14,030.3154
Total	6.4815	33.6868	59.9948	0.2134	15.1163	0.2516	15.3679	4.0496	0.2367	4.2863		21,775.9569	21,775.9569	0.9153		21,798.8403

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
Total	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

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

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	0.8511	27.1851	7.1069	0.0720	1.7926	0.0556	1.8482	0.5161	0.0532	0.5693		7,696.6576	7,696.6576	0.4534		7,707.9935
Worker	5.1096	3.5121	48.0106	0.1363	13.3238	0.1077	13.4314	3.5335	0.0992	3.6327		13,574.1367	13,574.1367	0.4000		13,584.1357
Total	5.9607	30.6971	55.1175	0.2083	15.1164	0.1633	15.2796	4.0496	0.1523	4.2020		21,270.7943	21,270.7943	0.8534		21,292.1291

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
Total	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

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

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	0.8511	27.1851	7.1069	0.0720	1.7926	0.0556	1.8482	0.5161	0.0532	0.5693		7,696.6576	7,696.6576	0.4534		7,707.9935
Worker	5.1096	3.5121	48.0106	0.1363	13.3238	0.1077	13.4314	3.5335	0.0992	3.6327		13,574.1367	13,574.1367	0.4000		13,584.1357
Total	5.9607	30.6971	55.1175	0.2083	15.1164	0.1633	15.2796	4.0496	0.1523	4.2020		21,270.7943	21,270.7943	0.8534		21,292.1291

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
Total	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

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

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	0.7988	25.8525	6.7242	0.0713	1.7926	0.0486	1.8412	0.5161	0.0465	0.5626		7,629.6049	7,629.6049	0.4378		7,640.5507
Worker	4.7862	3.1724	44.2950	0.1314	13.3238	0.1043	13.4281	3.5335	0.0961	3.6296		13,096.6508	13,096.6508	0.3615		13,105.6877
Total	5.5849	29.0249	51.0192	0.2028	15.1164	0.1529	15.2693	4.0497	0.1425	4.1922		20,726.2557	20,726.2557	0.7993		20,746.2384

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
Total	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

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

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	0.7988	25.8525	6.7242	0.0713	1.7926	0.0486	1.8412	0.5161	0.0465	0.5626		7,629.6049	7,629.6049	0.4378		7,640.5507
Worker	4.7862	3.1724	44.2950	0.1314	13.3238	0.1043	13.4281	3.5335	0.0961	3.6296		13,096.6508	13,096.6508	0.3615		13,105.6877
Total	5.5849	29.0249	51.0192	0.2028	15.1164	0.1529	15.2693	4.0497	0.1425	4.1922		20,726.2557	20,726.2557	0.7993		20,746.2384

3.5 Architectural Coating - 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					
Archit. Coating	56.0824					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	56.2870	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

3.5 Architectural Coating - 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	0.9556	0.6334	8.8441	0.0262	2.6603	0.0208	2.6811	0.7055	0.0192	0.7247		2,614.935 3	2,614.935 3	0.0722		2,616.739 7
Total	0.9556	0.6334	8.8441	0.0262	2.6603	0.0208	2.6811	0.7055	0.0192	0.7247		2,614.935 3	2,614.935 3	0.0722		2,616.739 7

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	56.0824					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	56.2870	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

3.5 Architectural Coating - 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	0.9556	0.6334	8.8441	0.0262	2.6603	0.0208	2.6811	0.7055	0.0192	0.7247		2,614.935 3	2,614.935 3	0.0722		2,616.739 7
Total	0.9556	0.6334	8.8441	0.0262	2.6603	0.0208	2.6811	0.7055	0.0192	0.7247		2,614.935 3	2,614.935 3	0.0722		2,616.739 7

3.6 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		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

3.6 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	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
Total	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206

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
Total	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

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

3.6 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	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
Total	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.9436	32.0160	79.4114	0.3385	31.5350	0.2318	31.7668	8.4363	0.2152	8.6515		34,640.93 85	34,640.93 85	1.5083		34,678.64 60
Unmitigated	8.0754	37.3601	107.4166	0.4721	45.0499	0.3184	45.3684	12.0518	0.2957	12.3475		48,266.16 28	48,266.16 28	2.0355		48,317.04 94

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,899.40	2,899.40	2899.40	9,907,690	6,935,383
Condo/Townhouse	3,302.40	2,925.72	2497.44	10,707,968	7,495,577
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	6,201.80	5,825.12	5,396.84	20,615,658	14,430,961

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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Condo/Townhouse	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Enclosed Parking with Elevator	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4776	4.0812	1.7367	0.0261		0.3300	0.3300		0.3300	0.3300		5,209.9976	5,209.9976	0.0999	0.0955	5,240.9580
NaturalGas Unmitigated	0.4776	4.0812	1.7367	0.0261		0.3300	0.3300		0.3300	0.3300		5,209.9976	5,209.9976	0.0999	0.0955	5,240.9580

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
Apartments Mid Rise	20002.5	0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194
Condo/Townhouse	24282.5	0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.4776	4.0812	1.7367	0.0261		0.3300	0.3300		0.3300	0.3300		5,209.9976	5,209.9976	0.0999	0.0955	5,240.9580

Mitigated

	Natural Gas 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					
Apartments Mid Rise	20.0025	0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194
Condo/Townhouse	24.2825	0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.4776	4.0812	1.7367	0.0261		0.3300	0.3300		0.3300	0.3300		5,209.9976	5,209.9976	0.0999	0.0955	5,240.9580

6.0 Area Detail

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	34.1113	16.8498	94.4508	0.1058		1.7669	1.7669		1.7669	1.7669	0.0000	20,379.58 32	20,379.58 32	0.5400	0.3707	20,503.55 85
Unmitigated	310.2779	23.0237	627.2838	1.3811		81.5342	81.5342		81.5342	81.5342	9,938.300 4	19,256.17 14	29,194.47 18	29.7903	0.6745	30,140.24 30

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.3662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	27.2419					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	278.0202	22.0140	539.5735	1.3765		81.0480	81.0480		81.0480	81.0480	9,938.3004	19,098.0000	29,036.3004	29.6379	0.6745	29,978.2620
Landscaping	2.6496	1.0097	87.7103	4.6400e-003		0.4862	0.4862		0.4862	0.4862		158.1714	158.1714	0.1524		161.9810
Total	310.2779	23.0237	627.2838	1.3811		81.5342	81.5342		81.5342	81.5342	9,938.3004	19,256.1714	29,194.4718	29.7903	0.6745	30,140.2430

The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, 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	2.3662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	27.2419					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.8536	15.8401	6.7405	0.1011		1.2807	1.2807		1.2807	1.2807	0.0000	20,221.41 18	20,221.41 18	0.3876	0.3707	20,341.57 75
Landscaping	2.6496	1.0097	87.7103	4.6400e-003		0.4862	0.4862		0.4862	0.4862		158.1714	158.1714	0.1524		161.9810
Total	34.1113	16.8498	94.4508	0.1058		1.7669	1.7669		1.7669	1.7669	0.0000	20,379.58 32	20,379.58 32	0.5400	0.3707	20,503.55 85

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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The Villages at the Alhambra - Scenario 1 - Los Angeles-South Coast County, Summer

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Scenario 2 (Phase 1)

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

The Villages at the Alhambra - Scenario 2 (Phase 1)
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,625.00	Space	2.00	650,000.00	0
Condo/Townhouse	516.00	Dwelling Unit	11.00	731,698.00	1476

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

Project Characteristics -

Land Use - Construction area is approximately 13 acres.

Construction Phase - Estimated construction schedule.

Grading - 60,000 cy soil export.

Demolition - 42,576 sf demo required.

Architectural Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Vehicle Trips - Per traffic study.

Area Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Project would implement energy efficient appliances and lighting.

Water Mitigation - Project would implment low flow fixtures and efficient landscaping.

Waste Mitigation - Per AB 341 all municipalities must divert 75% of waste by 2020.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	20.00	77.00
tblConstructionPhase	NumDays	300.00	282.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	30.00	77.00

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	PhaseEndDate	7/13/2021	6/16/2021
tblConstructionPhase	PhaseEndDate	5/18/2021	6/16/2021
tblConstructionPhase	PhaseEndDate	1/28/2020	1/30/2020
tblConstructionPhase	PhaseEndDate	3/24/2020	5/18/2020
tblConstructionPhase	PhaseEndDate	6/15/2021	6/16/2021
tblConstructionPhase	PhaseStartDate	6/16/2021	3/2/2021
tblConstructionPhase	PhaseStartDate	3/25/2020	5/19/2020
tblConstructionPhase	PhaseStartDate	2/12/2020	1/31/2020
tblConstructionPhase	PhaseStartDate	5/19/2021	5/18/2021
tblGrading	AcresOfGrading	192.50	13.00
tblGrading	MaterialExported	0.00	60,000.00
tblLandUse	LandUseSquareFeet	516,000.00	731,698.00
tblLandUse	LotAcreage	14.62	2.00
tblLandUse	LotAcreage	32.25	11.00
tblVehicleTrips	WD_TR	5.81	6.40

2.0 Emissions Summary

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	152.5023	11.1979	305.1312	0.6717		39.6528	39.6528		39.6528	39.6528	4,833.3299	9,365.0086	14,198.3385	14.4884	0.3281	14,658.3081
Energy	0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386
Mobile	5.0061	22.4939	66.8166	0.2650	23.9944	0.2052	24.1996	6.4206	0.1908	6.6114		27,023.1387	27,023.1387	1.3052		27,055.7677
Total	157.7703	35.9296	372.9000	0.9510	23.9944	40.0390	64.0334	6.4206	40.0245	46.4451	4,833.3299	39,244.9096	44,078.2395	15.8483	0.3804	44,587.8143

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	18.1932	8.1954	45.9965	0.0514		0.8593	0.8593		0.8593	0.8593	0.0000	9,911.3616	9,911.3616	0.2630	0.1803	9,971.6641
Energy	0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386
Mobile	4.3183	18.8301	50.2690	0.1899	16.8340	0.1496	16.9835	4.5045	0.1390	4.6436		19,379.3536	19,379.3536	0.9733		19,403.6860
Total	22.7734	29.2633	97.2178	0.2556	16.8340	1.1898	18.0237	4.5045	1.1792	5.6838	0.0000	32,147.4774	32,147.4774	1.2910	0.2327	32,249.0887

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	85.57	18.55	73.93	73.12	29.84	97.03	71.85	29.84	97.05	87.76	100.00	18.08	27.07	91.85	38.84	27.67

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	1/30/2020	5	22	
2	Grading	Grading	1/31/2020	5/18/2020	5	77	
3	Building Construction	Building Construction	5/19/2020	6/16/2021	5	282	
4	Paving	Paving	5/18/2021	6/16/2021	5	22	
5	Architectural Coating	Architectural Coating	3/2/2021	6/16/2021	5	77	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 13

Acres of Paving: 2

Residential Indoor: 1,481,688; Residential Outdoor: 493,896; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 39,000 (Architectural Coating – sqft)

OffRoad Equipment

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
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
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	194.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	7,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	645.00	162.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	129.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

3.1 Mitigation Measures Construction

Water Exposed Area

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					1.9050	0.0000	1.9050	0.2884	0.0000	0.2884			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	1.9050	1.6587	3.5637	0.2884	1.5419	1.8303		3,747.7049	3,747.7049	1.0580		3,774.1536

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0789	2.5684	0.5971	6.8400e-003	0.1542	8.2200e-003	0.1624	0.0423	7.8600e-003	0.0501		741.6920	741.6920	0.0532		743.0230
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	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	0.1556	2.6228	1.1987	8.5100e-003	0.3218	9.6200e-003	0.3315	0.0867	9.1500e-003	0.0959		907.8051	907.8051	0.0585		909.2669

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					0.7430	0.0000	0.7430	0.1125	0.0000	0.1125			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	0.7430	1.6587	2.4017	0.1125	1.5419	1.6543	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0789	2.5684	0.5971	6.8400e-003	0.1542	8.2200e-003	0.1624	0.0423	7.8600e-003	0.0501		741.6920	741.6920	0.0532		743.0230
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	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	0.1556	2.6228	1.1987	8.5100e-003	0.3218	9.6200e-003	0.3315	0.0867	9.1500e-003	0.0959		907.8051	907.8051	0.0585		909.2669

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2893	0.0000	6.2893	3.3429	0.0000	3.3429			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	6.2893	2.1739	8.4632	3.3429	2.0000	5.3429		6,005.8653	6,005.8653	1.9424		6,054.4257

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8715	28.3697	6.5957	0.0756	1.7030	0.0908	1.7938	0.4668	0.0868	0.5537		8,192.4747	8,192.4747	0.5880		8,207.1755
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	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	0.9737	28.4422	7.3977	0.0778	1.9266	0.0926	2.0192	0.5261	0.0886	0.6147		8,413.9588	8,413.9588	0.5950		8,428.8341

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					2.4528	0.0000	2.4528	1.3037	0.0000	1.3037			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	2.4528	2.1739	4.6267	1.3037	2.0000	3.3037	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8715	28.3697	6.5957	0.0756	1.7030	0.0908	1.7938	0.4668	0.0868	0.5537		8,192.4747	8,192.4747	0.5880		8,207.1755
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	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	0.9737	28.4422	7.3977	0.0778	1.9266	0.0926	2.0192	0.5261	0.0886	0.6147		8,413.9588	8,413.9588	0.5950		8,428.8341

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6023	17.2288	4.9796	0.0409	1.0371	0.0824	1.1195	0.2986	0.0788	0.3774		4,365.0749	4,365.0749	0.2919		4,372.3721
Worker	3.2961	2.3379	25.8652	0.0717	7.2096	0.0603	7.2699	1.9120	0.0555	1.9675		7,142.8615	7,142.8615	0.2251		7,148.4899
Total	3.8984	19.5667	30.8448	0.1126	8.2467	0.1427	8.3894	2.2106	0.1343	2.3450		11,507.9364	11,507.9364	0.5170		11,520.8620

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6023	17.2288	4.9796	0.0409	1.0371	0.0824	1.1195	0.2986	0.0788	0.3774		4,365.0749	4,365.0749	0.2919		4,372.3721
Worker	3.2961	2.3379	25.8652	0.0717	7.2096	0.0603	7.2699	1.9120	0.0555	1.9675		7,142.8615	7,142.8615	0.2251		7,148.4899
Total	3.8984	19.5667	30.8448	0.1126	8.2467	0.1427	8.3894	2.2106	0.1343	2.3450		11,507.9364	11,507.9364	0.5170		11,520.8620

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
Total	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

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, 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	0.5169	15.6960	4.5485	0.0405	1.0372	0.0332	1.0703	0.2986	0.0317	0.3304		4,330.9975	4,330.9975	0.2796		4,337.9874
Worker	3.0755	2.1037	23.7525	0.0694	7.2096	0.0583	7.2678	1.9120	0.0537	1.9657		6,916.0195	6,916.0195	0.2035		6,921.1073
Total	3.5924	17.7996	28.3010	0.1100	8.2467	0.0915	8.3382	2.2106	0.0854	2.2960		11,247.0170	11,247.0170	0.4831		11,259.0947

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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
Total	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

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, 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	0.5169	15.6960	4.5485	0.0405	1.0372	0.0332	1.0703	0.2986	0.0317	0.3304		4,330.9975	4,330.9975	0.2796		4,337.9874
Worker	3.0755	2.1037	23.7525	0.0694	7.2096	0.0583	7.2678	1.9120	0.0537	1.9657		6,916.0195	6,916.0195	0.2035		6,921.1073
Total	3.5924	17.7996	28.3010	0.1100	8.2467	0.0915	8.3382	2.2106	0.0854	2.2960		11,247.0170	11,247.0170	0.4831		11,259.0947

3.5 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

3.5 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	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560

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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

3.5 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	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560

3.6 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	60.6338					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
Total	60.8527	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

3.6 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	0.6151	0.4207	4.7505	0.0139	1.4419	0.0117	1.4536	0.3824	0.0107	0.3931		1,383.2039	1,383.2039	0.0407		1,384.2215
Total	0.6151	0.4207	4.7505	0.0139	1.4419	0.0117	1.4536	0.3824	0.0107	0.3931		1,383.2039	1,383.2039	0.0407		1,384.2215

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	60.6338					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
Total	60.8527	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

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

3.6 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	0.6151	0.4207	4.7505	0.0139	1.4419	0.0117	1.4536	0.3824	0.0107	0.3931		1,383.2039	1,383.2039	0.0407		1,384.2215
Total	0.6151	0.4207	4.7505	0.0139	1.4419	0.0117	1.4536	0.3824	0.0107	0.3931		1,383.2039	1,383.2039	0.0407		1,384.2215

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.3183	18.8301	50.2690	0.1899	16.8340	0.1496	16.9835	4.5045	0.1390	4.6436		19,379.35 36	19,379.35 36	0.9733		19,403.68 60
Unmitigated	5.0061	22.4939	66.8166	0.2650	23.9944	0.2052	24.1996	6.4206	0.1908	6.6114		27,023.13 87	27,023.13 87	1.3052		27,055.76 77

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	3,302.40	2,925.72	2,497.44	10,707,968	7,512,485
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	3,302.40	2,925.72	2,497.44	10,707,968	7,512,485

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
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	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
Condo/Townhouse	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking with Elevator	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386
NaturalGas Unmitigated	0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	24282.5	0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386

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					
Condo/Townhouse	24.2825	0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386

6.0 Area Detail

6.1 Mitigation Measures Area

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	18.1932	8.1954	45.9965	0.0514		0.8593	0.8593		0.8593	0.8593	0.0000	9,911.3616	9,911.3616	0.2630	0.1803	9,971.6641
Unmitigated	152.5023	11.1979	305.1312	0.6717		39.6528	39.6528		39.6528	39.6528	4,833.3299	9,365.0086	14,198.3385	14.4884	0.3281	14,658.3081

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.2791					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.7179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	135.2106	10.7061	262.4128	0.6694		39.4164	39.4164		39.4164	39.4164	4,833.3299	9,288.0000	14,121.3299	14.4139	0.3281	14,579.4375
Landscaping	1.2948	0.4918	42.7184	2.2600e-003		0.2364	0.2364		0.2364	0.2364		77.0086	77.0086	0.0745		78.8705
Total	152.5023	11.1979	305.1312	0.6717		39.6528	39.6528		39.6528	39.6528	4,833.3299	9,365.0086	14,198.3385	14.4884	0.3281	14,658.3081

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, 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	1.2791					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.7179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.9015	7.7036	3.2781	0.0492		0.6228	0.6228		0.6228	0.6228	0.0000	9,834.3529	9,834.3529	0.1885	0.1803	9,892.7936
Landscaping	1.2948	0.4918	42.7184	2.2600e-003		0.2364	0.2364		0.2364	0.2364		77.0086	77.0086	0.0745		78.8705
Total	18.1932	8.1954	45.9965	0.0514		0.8593	0.8593		0.8593	0.8593	0.0000	9,911.3616	9,911.3616	0.2630	0.1803	9,971.6641

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Winter

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

The Villages at the Alhambra - Scenario 2 (Phase 1)
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,625.00	Space	2.00	650,000.00	0
Condo/Townhouse	516.00	Dwelling Unit	11.00	731,698.00	1476

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

Project Characteristics -

Land Use - Construction area is approximately 13 acres.

Construction Phase - Estimated construction schedule.

Grading - 60,000 cy soil export.

Demolition - 42,576 sf demo required.

Architectural Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Vehicle Trips - Per traffic study.

Area Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Project would implement energy efficient appliances and lighting.

Water Mitigation - Project would implment low flow fixtures and efficient landscaping.

Waste Mitigation - Per AB 341 all municipalities must divert 75% of waste by 2020.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	20.00	77.00
tblConstructionPhase	NumDays	300.00	282.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	30.00	77.00

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	PhaseEndDate	7/13/2021	6/16/2021
tblConstructionPhase	PhaseEndDate	5/18/2021	6/16/2021
tblConstructionPhase	PhaseEndDate	1/28/2020	1/30/2020
tblConstructionPhase	PhaseEndDate	3/24/2020	5/18/2020
tblConstructionPhase	PhaseEndDate	6/15/2021	6/16/2021
tblConstructionPhase	PhaseStartDate	6/16/2021	3/2/2021
tblConstructionPhase	PhaseStartDate	3/25/2020	5/19/2020
tblConstructionPhase	PhaseStartDate	2/12/2020	1/31/2020
tblConstructionPhase	PhaseStartDate	5/19/2021	5/18/2021
tblGrading	AcresOfGrading	192.50	13.00
tblGrading	MaterialExported	0.00	60,000.00
tblLandUse	LandUseSquareFeet	516,000.00	731,698.00
tblLandUse	LotAcreage	14.62	2.00
tblLandUse	LotAcreage	32.25	11.00
tblVehicleTrips	WD_TR	5.81	6.40

2.0 Emissions Summary

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	152.5023	11.1979	305.1312	0.6717		39.6528	39.6528		39.6528	39.6528	4,833.3299	9,365.0086	14,198.3385	14.4884	0.3281	14,658.3081
Energy	0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386
Mobile	5.1683	21.9620	70.6839	0.2784	23.9944	0.2044	24.1988	6.4206	0.1900	6.6106		28,373.1484	28,373.1484	1.3103		28,405.9066
Total	157.9325	35.3977	376.7673	0.9644	23.9944	40.0382	64.0326	6.4206	40.0238	46.4443	4,833.3299	40,594.9193	45,428.2492	15.8535	0.3804	45,937.9532

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	18.1932	8.1954	45.9965	0.0514		0.8593	0.8593		0.8593	0.8593	0.0000	9,911.3616	9,911.3616	0.2630	0.1803	9,971.6641
Energy	0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386
Mobile	4.4642	18.5134	52.4262	0.1997	16.8340	0.1488	16.9827	4.5045	0.1383	4.6428		20,370.6626	20,370.6626	0.9703		20,394.9212
Total	22.9193	28.9466	99.3750	0.2654	16.8340	1.1890	18.0229	4.5045	1.1785	5.6830	0.0000	33,138.7865	33,138.7865	1.2881	0.2327	33,240.3239

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	85.49	18.22	73.62	72.48	29.84	97.03	71.85	29.84	97.06	87.76	100.00	18.37	27.05	91.88	38.84	27.64

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	1/30/2020	5	22	
2	Grading	Grading	1/31/2020	5/18/2020	5	77	
3	Building Construction	Building Construction	5/19/2020	6/16/2021	5	282	
4	Paving	Paving	5/18/2021	6/16/2021	5	22	
5	Architectural Coating	Architectural Coating	3/2/2021	6/16/2021	5	77	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 13

Acres of Paving: 2

Residential Indoor: 1,481,688; Residential Outdoor: 493,896; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 39,000 (Architectural Coating – sqft)

OffRoad Equipment

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
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
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	194.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	7,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	645.00	162.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	129.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

3.1 Mitigation Measures Construction

Water Exposed Area

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					1.9050	0.0000	1.9050	0.2884	0.0000	0.2884			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	1.9050	1.6587	3.5637	0.2884	1.5419	1.8303		3,747.7049	3,747.7049	1.0580		3,774.1536

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0770	2.5356	0.5619	6.9700e-003	0.1542	8.0900e-003	0.1623	0.0423	7.7400e-003	0.0500		754.6881	754.6881	0.0514		755.9723
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	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	0.1461	2.5847	1.2186	8.7400e-003	0.3218	9.4900e-003	0.3313	0.0867	9.0300e-003	0.0958		931.1050	931.1050	0.0569		932.5283

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					0.7430	0.0000	0.7430	0.1125	0.0000	0.1125			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	0.7430	1.6587	2.4017	0.1125	1.5419	1.6543	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0770	2.5356	0.5619	6.9700e-003	0.1542	8.0900e-003	0.1623	0.0423	7.7400e-003	0.0500		754.6881	754.6881	0.0514		755.9723
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	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	0.1461	2.5847	1.2186	8.7400e-003	0.3218	9.4900e-003	0.3313	0.0867	9.0300e-003	0.0958		931.1050	931.1050	0.0569		932.5283

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2893	0.0000	6.2893	3.3429	0.0000	3.3429			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	6.2893	2.1739	8.4632	3.3429	2.0000	5.3429		6,005.8653	6,005.8653	1.9424		6,054.4257

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8508	28.0072	6.2061	0.0769	1.7030	0.0894	1.7924	0.4668	0.0855	0.5524		8,336.024 2	8,336.024 2	0.5674		8,350.209 3
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	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	0.9429	28.0727	7.0818	0.0793	1.9266	0.0913	2.0179	0.5261	0.0872	0.6134		8,571.246 8	8,571.246 8	0.5748		8,585.617 2

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					2.4528	0.0000	2.4528	1.3037	0.0000	1.3037			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	2.4528	2.1739	4.6267	1.3037	2.0000	3.3037	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8508	28.0072	6.2061	0.0769	1.7030	0.0894	1.7924	0.4668	0.0855	0.5524		8,336.024 2	8,336.024 2	0.5674		8,350.209 3
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	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	0.9429	28.0727	7.0818	0.0793	1.9266	0.0913	2.0179	0.5261	0.0872	0.6134		8,571.246 8	8,571.246 8	0.5748		8,585.617 2

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5762	17.2323	4.5150	0.0420	1.0371	0.0811	1.1182	0.2986	0.0776	0.3762		4,487.8001	4,487.8001	0.2739		4,494.6466
Worker	2.9683	2.1117	28.2410	0.0762	7.2096	0.0603	7.2699	1.9120	0.0555	1.9675		7,585.9280	7,585.9280	0.2392		7,591.9072
Total	3.5445	19.3440	32.7560	0.1182	8.2467	0.1414	8.3881	2.2106	0.1331	2.3437		12,073.7281	12,073.7281	0.5130		12,086.5538

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5762	17.2323	4.5150	0.0420	1.0371	0.0811	1.1182	0.2986	0.0776	0.3762		4,487.8001	4,487.8001	0.2739		4,494.6466
Worker	2.9683	2.1117	28.2410	0.0762	7.2096	0.0603	7.2699	1.9120	0.0555	1.9675		7,585.9280	7,585.9280	0.2392		7,591.9072
Total	3.5445	19.3440	32.7560	0.1182	8.2467	0.1414	8.3881	2.2106	0.1331	2.3437		12,073.7281	12,073.7281	0.5130		12,086.5538

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
Total	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

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

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	0.4924	15.7285	4.1118	0.0417	1.0372	0.0322	1.0693	0.2986	0.0308	0.3294		4,453.0662	4,453.0662	0.2623		4,459.6248
Worker	2.7648	1.9004	25.9789	0.0737	7.2096	0.0583	7.2678	1.9120	0.0537	1.9657		7,345.0656	7,345.0656	0.2164		7,350.4761
Total	3.2573	17.6289	30.0908	0.1154	8.2467	0.0904	8.3372	2.2106	0.0844	2.2951		11,798.1318	11,798.1318	0.4788		11,810.1009

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
Total	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

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

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	0.4924	15.7285	4.1118	0.0417	1.0372	0.0322	1.0693	0.2986	0.0308	0.3294		4,453.0662	4,453.0662	0.2623		4,459.6248
Worker	2.7648	1.9004	25.9789	0.0737	7.2096	0.0583	7.2678	1.9120	0.0537	1.9657		7,345.0656	7,345.0656	0.2164		7,350.4761
Total	3.2573	17.6289	30.0908	0.1154	8.2467	0.0904	8.3372	2.2106	0.0844	2.2951		11,798.1318	11,798.1318	0.4788		11,810.1009

3.5 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

3.5 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	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413

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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

3.5 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	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413

3.6 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	60.6338					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
Total	60.8527	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

3.6 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	0.5530	0.3801	5.1958	0.0148	1.4419	0.0117	1.4536	0.3824	0.0107	0.3931		1,469.013 1	1,469.013 1	0.0433		1,470.095 2
Total	0.5530	0.3801	5.1958	0.0148	1.4419	0.0117	1.4536	0.3824	0.0107	0.3931		1,469.013 1	1,469.013 1	0.0433		1,470.095 2

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	60.6338					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
Total	60.8527	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

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

3.6 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	0.5530	0.3801	5.1958	0.0148	1.4419	0.0117	1.4536	0.3824	0.0107	0.3931		1,469.013 1	1,469.013 1	0.0433		1,470.095 2
Total	0.5530	0.3801	5.1958	0.0148	1.4419	0.0117	1.4536	0.3824	0.0107	0.3931		1,469.013 1	1,469.013 1	0.0433		1,470.095 2

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.4642	18.5134	52.4262	0.1997	16.8340	0.1488	16.9827	4.5045	0.1383	4.6428		20,370.66 26	20,370.66 26	0.9703		20,394.92 12
Unmitigated	5.1683	21.9620	70.6839	0.2784	23.9944	0.2044	24.1988	6.4206	0.1900	6.6106		28,373.14 84	28,373.14 84	1.3103		28,405.90 66

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	3,302.40	2,925.72	2,497.44	10,707,968	7,512,485
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	3,302.40	2,925.72	2,497.44	10,707,968	7,512,485

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
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	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
Condo/Townhouse	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking with Elevator	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386
NaturalGas Unmitigated	0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	24282.5	0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386

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					
Condo/Townhouse	24.2825	0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.2619	2.2378	0.9523	0.0143		0.1809	0.1809		0.1809	0.1809		2,856.7623	2,856.7623	0.0548	0.0524	2,873.7386

6.0 Area Detail

6.1 Mitigation Measures Area

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	18.1932	8.1954	45.9965	0.0514		0.8593	0.8593		0.8593	0.8593	0.0000	9,911.3616	9,911.3616	0.2630	0.1803	9,971.6641
Unmitigated	152.5023	11.1979	305.1312	0.6717		39.6528	39.6528		39.6528	39.6528	4,833.3299	9,365.0086	14,198.3385	14.4884	0.3281	14,658.3081

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.2791					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.7179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	135.2106	10.7061	262.4128	0.6694		39.4164	39.4164		39.4164	39.4164	4,833.3299	9,288.0000	14,121.3299	14.4139	0.3281	14,579.4375
Landscaping	1.2948	0.4918	42.7184	2.2600e-003		0.2364	0.2364		0.2364	0.2364		77.0086	77.0086	0.0745		78.8705
Total	152.5023	11.1979	305.1312	0.6717		39.6528	39.6528		39.6528	39.6528	4,833.3299	9,365.0086	14,198.3385	14.4884	0.3281	14,658.3081

The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, 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	1.2791					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.7179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.9015	7.7036	3.2781	0.0492		0.6228	0.6228		0.6228	0.6228	0.0000	9,834.3529	9,834.3529	0.1885	0.1803	9,892.7936
Landscaping	1.2948	0.4918	42.7184	2.2600e-003		0.2364	0.2364		0.2364	0.2364		77.0086	77.0086	0.0745		78.8705
Total	18.1932	8.1954	45.9965	0.0514		0.8593	0.8593		0.8593	0.8593	0.0000	9,911.3616	9,911.3616	0.2630	0.1803	9,971.6641

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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The Villages at the Alhambra - Scenario 2 (Phase 1) - Los Angeles-South Coast County, Summer

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Scenario 2 (Phase 2)

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

The Villages at the Alhambra - Scenario 2 (Phase 2)
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	922.00	Space	1.00	368,800.00	0
Apartment Mid Rise	545.00	Dwelling Unit	7.00	625,932.00	1559

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

Project Characteristics -

Land Use - Construction area is approximately 8 acres.

Construction Phase - Estimated construction schedule.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Grading equipment.

Off-road Equipment -

Demolition - 61,666 sf demo required.

Grading - 60,000 cy soil export.

Architectural Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Vehicle Trips - Per traffic study.

Area Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Project would implement energy efficient appliances and lighting.

Water Mitigation - Project would implment low flow fixtures and efficient landscaping.

Waste Mitigation - Per AB 341 all municipalities must divert 75% of waste by 2020.

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	20.00	77.00
tblConstructionPhase	NumDays	230.00	281.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	77.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	AcresOfGrading	192.50	8.00
tblGrading	MaterialExported	0.00	60,000.00
tblLandUse	LandUseSquareFeet	545,000.00	625,932.00
tblLandUse	LotAcreage	8.30	1.00
tblLandUse	LotAcreage	14.34	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblVehicleTrips	ST_TR	6.39	5.32
tblVehicleTrips	SU_TR	5.86	5.32
tblVehicleTrips	WD_TR	6.65	5.32

2.0 Emissions Summary

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	157.7782	11.8261	322.1752	0.7094		41.8812	41.8812		41.8812	41.8812	5,104.9705	9,891.1628	14,996.1333	15.3021	0.3465	15,481.9387
Energy	0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194
Mobile	3.6581	17.7890	47.5499	0.2103	21.0613	0.1493	21.2106	5.6343	0.1387	5.7730		21,518.5979	21,518.5979	0.9522		21,542.4031
Total	161.6519	31.4585	370.5095	0.9316	21.0613	42.1796	63.2409	5.6343	42.1690	47.8033	5,104.9705	33,762.9960	38,867.9665	16.2994	0.3896	39,391.5612

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	15.9207	8.6548	48.4768	0.0543		0.9074	0.9074		0.9074	0.9074	0.0000	10,468.2216	10,468.2216	0.2771	0.1904	10,531.8981
Energy	0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194
Mobile	3.1380	15.1400	35.6382	0.1507	14.7429	0.1088	14.8517	3.9440	0.1011	4.0451		15,422.9842	15,422.9842	0.7106		15,440.7482
Total	19.2744	25.6382	84.8995	0.2168	14.7429	1.1653	15.9082	3.9440	1.1575	5.1016	0.0000	28,244.4411	28,244.4411	1.0328	0.2336	28,339.8657

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	88.08	18.50	77.09	76.73	30.00	97.24	74.85	30.00	97.26	89.33	100.00	16.34	27.33	93.66	40.05	28.06

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/17/2021	8/17/2021	5	44	
2	Grading	Grading	8/18/2021	12/2/2021	5	77	
3	Building Construction	Building Construction	12/3/2021	12/30/2022	5	281	
4	Architectural Coating	Architectural Coating	9/15/2022	12/30/2022	5	77	
5	Paving	Paving	12/1/2022	12/30/2022	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 8

Acres of Paving: 1

Residential Indoor: 1,267,512; Residential Outdoor: 422,504; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 22,128 (Architectural Coating – sqft)

OffRoad Equipment

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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
Demolition	6	15.00	0.00	280.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	7,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	547.00	119.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	109.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

3.1 Mitigation Measures Construction

Water Exposed Area

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					1.3796	0.0000	1.3796	0.2089	0.0000	0.2089			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	1.3796	1.5513	2.9309	0.2089	1.4411	1.6500		3,747.9449	3,747.9449	1.0549		3,774.3174

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, 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	0.0543	1.7279	0.4244	4.8800e-003	0.1113	5.3200e-003	0.1166	0.0305	5.0900e-003	0.0356		529.3165	529.3165	0.0378		530.2626
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	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	0.1259	1.7768	0.9768	6.4900e-003	0.2789	6.6700e-003	0.2856	0.0750	6.3400e-003	0.0813		690.1542	690.1542	0.0426		691.2186

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					0.5380	0.0000	0.5380	0.0815	0.0000	0.0815			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.5380	1.5513	2.0894	0.0815	1.4411	1.5226	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

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	0.0543	1.7279	0.4244	4.8800e-003	0.1113	5.3200e-003	0.1166	0.0305	5.0900e-003	0.0356		529.3165	529.3165	0.0378		530.2626
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	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	0.1259	1.7768	0.9768	6.4900e-003	0.2789	6.6700e-003	0.2856	0.0750	6.3400e-003	0.0813		690.1542	690.1542	0.0426		691.2186

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					6.2204	0.0000	6.2204	3.3355	0.0000	3.3355			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
Total	4.1912	46.3998	30.8785	0.0620	6.2204	1.9853	8.2057	3.3355	1.8265	5.1620		6,007.0434	6,007.0434	1.9428		6,055.6134

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, 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	0.8317	26.4477	6.4961	0.0747	1.7031	0.0814	1.7845	0.4669	0.0779	0.5447		8,101.7834	8,101.7834	0.5792		8,116.2643
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	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	0.9270	26.5129	7.2326	0.0768	1.9267	0.0832	2.0099	0.5262	0.0796	0.6057		8,316.2336	8,316.2336	0.5855		8,330.8723

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					2.4260	0.0000	2.4260	1.3008	0.0000	1.3008			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
Total	4.1912	46.3998	30.8785	0.0620	2.4260	1.9853	4.4113	1.3008	1.8265	3.1273	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, 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	0.8317	26.4477	6.4961	0.0747	1.7031	0.0814	1.7845	0.4669	0.0779	0.5447		8,101.7834	8,101.7834	0.5792		8,116.2643
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	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	0.9270	26.5129	7.2326	0.0768	1.9267	0.0832	2.0099	0.5262	0.0796	0.6057		8,316.2336	8,316.2336	0.5855		8,330.8723

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
Total	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

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, 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	0.3797	11.5298	3.3412	0.0298	0.7619	0.0244	0.7862	0.2194	0.0233	0.2427		3,181.4118	3,181.4118	0.2054		3,186.5463
Worker	2.6082	1.7840	20.1436	0.0589	6.1142	0.0494	6.1636	1.6215	0.0455	1.6670		5,865.2135	5,865.2135	0.1726		5,869.5282
Total	2.9879	13.3138	23.4847	0.0887	6.8760	0.0738	6.9498	1.8409	0.0688	1.9097		9,046.6252	9,046.6252	0.3780		9,056.0745

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
Total	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

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, 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	0.3797	11.5298	3.3412	0.0298	0.7619	0.0244	0.7862	0.2194	0.0233	0.2427		3,181.4118	3,181.4118	0.2054		3,186.5463
Worker	2.6082	1.7840	20.1436	0.0589	6.1142	0.0494	6.1636	1.6215	0.0455	1.6670		5,865.2135	5,865.2135	0.1726		5,869.5282
Total	2.9879	13.3138	23.4847	0.0887	6.8760	0.0738	6.9498	1.8409	0.0688	1.9097		9,046.6252	9,046.6252	0.3780		9,056.0745

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
Total	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

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, 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	0.3565	10.9574	3.1627	0.0295	0.7619	0.0213	0.7832	0.2194	0.0204	0.2398		3,153.1463	3,153.1463	0.1982		3,158.1005
Worker	2.4497	1.6111	18.5530	0.0568	6.1142	0.0479	6.1620	1.6215	0.0441	1.6656		5,659.0949	5,659.0949	0.1558		5,662.9905
Total	2.8062	12.5686	21.7156	0.0863	6.8760	0.0692	6.9452	1.8409	0.0645	1.9054		8,812.2412	8,812.2412	0.3540		8,821.0910

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
Total	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

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, 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	0.3565	10.9574	3.1627	0.0295	0.7619	0.0213	0.7832	0.2194	0.0204	0.2398		3,153.1463	3,153.1463	0.1982		3,158.1005
Worker	2.4497	1.6111	18.5530	0.0568	6.1142	0.0479	6.1620	1.6215	0.0441	1.6656		5,659.0949	5,659.0949	0.1558		5,662.9905
Total	2.8062	12.5686	21.7156	0.0863	6.8760	0.0692	6.9452	1.8409	0.0645	1.9054		8,812.2412	8,812.2412	0.3540		8,821.0910

3.5 Architectural Coating - 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					
Archit. Coating	51.5311					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	51.7356	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

3.5 Architectural Coating - 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	0.4882	0.3211	3.6970	0.0113	1.2184	9.5400e-003	1.2279	0.3231	8.7800e-003	0.3319		1,127.6807	1,127.6807	0.0311		1,128.4570
Total	0.4882	0.3211	3.6970	0.0113	1.2184	9.5400e-003	1.2279	0.3231	8.7800e-003	0.3319		1,127.6807	1,127.6807	0.0311		1,128.4570

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	51.5311					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	51.7356	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

3.5 Architectural Coating - 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	0.4882	0.3211	3.6970	0.0113	1.2184	9.5400e-003	1.2279	0.3231	8.7800e-003	0.3319		1,127.6807	1,127.6807	0.0311		1,128.4570
Total	0.4882	0.3211	3.6970	0.0113	1.2184	9.5400e-003	1.2279	0.3231	8.7800e-003	0.3319		1,127.6807	1,127.6807	0.0311		1,128.4570

3.6 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
Total	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

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

3.6 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	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922
Total	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922

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
Total	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

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

3.6 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	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922
Total	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.1380	15.1400	35.6382	0.1507	14.7429	0.1088	14.8517	3.9440	0.1011	4.0451		15,422.98 42	15,422.98 42	0.7106		15,440.74 82
Unmitigated	3.6581	17.7890	47.5499	0.2103	21.0613	0.1493	21.2106	5.6343	0.1387	5.7730		21,518.59 79	21,518.59 79	0.9522		21,542.40 31

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,899.40	2,899.40	2,899.40	9,907,690	6,935,383
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	2,899.40	2,899.40	2,899.40	9,907,690	6,935,383

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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	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
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Enclosed Parking with Elevator	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194
NaturalGas Unmitigated	0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	20002.5	0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194

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					
Apartments Mid Rise	20.0025	0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194

6.0 Area Detail

6.1 Mitigation Measures Area

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	15.9207	8.6548	48.4768	0.0543		0.9074	0.9074		0.9074	0.9074	0.0000	10,468.22 16	10,468.22 16	0.2771	0.1904	10,531.89 81
Unmitigated	157.7782	11.8261	322.1752	0.7094		41.8812	41.8812		41.8812	41.8812	5,104.970 5	9,891.162 8	14,996.13 33	15.3021	0.3465	15,481.93 87

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0871					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.5241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	142.8096	11.3078	277.1608	0.7071		41.6316	41.6316		41.6316	41.6316	5,104.9705	9,810.0000	14,914.9705	15.2240	0.3465	15,398.8245
Landscaping	1.3574	0.5183	45.0145	2.3800e-003		0.2496	0.2496		0.2496	0.2496		81.1628	81.1628	0.0781		83.1142
Total	157.7782	11.8261	322.1752	0.7094		41.8812	41.8812		41.8812	41.8812	5,104.9705	9,891.1628	14,996.1333	15.3021	0.3465	15,481.9387

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, 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	1.0871					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.5241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.9522	8.1365	3.4624	0.0519		0.6579	0.6579		0.6579	0.6579	0.0000	10,387.0588	10,387.0588	0.1991	0.1904	10,448.7839
Landscaping	1.3574	0.5183	45.0145	2.3800e-003		0.2496	0.2496		0.2496	0.2496		81.1628	81.1628	0.0781		83.1142
Total	15.9207	8.6548	48.4768	0.0543		0.9074	0.9074		0.9074	0.9074	0.0000	10,468.2216	10,468.2216	0.2771	0.1904	10,531.8981

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Winter

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

The Villages at the Alhambra - Scenario 2 (Phase 2)
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	922.00	Space	1.00	368,800.00	0
Apartment Mid Rise	545.00	Dwelling Unit	7.00	625,932.00	1559

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

Project Characteristics -

Land Use - Construction area is approximately 8 acres.

Construction Phase - Estimated construction schedule.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Grading equipment.

Off-road Equipment -

Demolition - 61,666 sf demo required.

Grading - 60,000 cy soil export.

Architectural Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Vehicle Trips - Per traffic study.

Area Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Project would implement energy efficient appliances and lighting.

Water Mitigation - Project would implment low flow fixtures and efficient landscaping.

Waste Mitigation - Per AB 341 all municipalities must divert 75% of waste by 2020.

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	20.00	77.00
tblConstructionPhase	NumDays	230.00	281.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	77.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	AcresOfGrading	192.50	8.00
tblGrading	MaterialExported	0.00	60,000.00
tblLandUse	LandUseSquareFeet	545,000.00	625,932.00
tblLandUse	LotAcreage	8.30	1.00
tblLandUse	LotAcreage	14.34	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblVehicleTrips	ST_TR	6.39	5.32
tblVehicleTrips	SU_TR	5.86	5.32
tblVehicleTrips	WD_TR	6.65	5.32

2.0 Emissions Summary

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	157.7782	11.8261	322.1752	0.7094		41.8812	41.8812		41.8812	41.8812	5,104.9705	9,891.1628	14,996.1333	15.3021	0.3465	15,481.9387
Energy	0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194
Mobile	3.7753	17.4662	50.2183	0.2207	21.0613	0.1489	21.2101	5.6343	0.1383	5.7726		22,564.8864	22,564.8864	0.9516		22,588.6764
Total	161.7692	31.1357	373.1779	0.9419	21.0613	42.1791	63.2404	5.6343	42.1685	47.8028	5,104.9705	34,809.2845	39,914.2551	16.2988	0.3896	40,437.8345

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	15.9207	8.6548	48.4768	0.0543		0.9074	0.9074		0.9074	0.9074	0.0000	10,468.2216	10,468.2216	0.2771	0.1904	10,531.8981
Energy	0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194
Mobile	3.2462	14.9678	37.1256	0.1583	14.7429	0.1084	14.8513	3.9440	0.1006	4.0446		16,194.9655	16,194.9655	0.7051		16,212.5941
Total	19.3826	25.4659	86.3868	0.2244	14.7429	1.1648	15.9077	3.9440	1.1571	5.1011	0.0000	29,016.4225	29,016.4225	1.0274	0.2336	29,111.7116

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	88.02	18.21	76.85	76.18	30.00	97.24	74.85	30.00	97.26	89.33	100.00	16.64	27.30	93.70	40.05	28.01

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/17/2021	8/17/2021	5	44	
2	Grading	Grading	8/18/2021	12/2/2021	5	77	
3	Building Construction	Building Construction	12/3/2021	12/30/2022	5	281	
4	Architectural Coating	Architectural Coating	9/15/2022	12/30/2022	5	77	
5	Paving	Paving	12/1/2022	12/30/2022	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 8

Acres of Paving: 1

Residential Indoor: 1,267,512; Residential Outdoor: 422,504; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 22,128 (Architectural Coating – sqft)

OffRoad Equipment

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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
Demolition	6	15.00	0.00	280.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	7,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	547.00	119.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	109.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

3.1 Mitigation Measures Construction

Water Exposed Area

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					1.3796	0.0000	1.3796	0.2089	0.0000	0.2089			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	1.3796	1.5513	2.9309	0.2089	1.4411	1.6500		3,747.9449	3,747.9449	1.0549		3,774.3174

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, 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	0.0531	1.7070	0.4002	4.9600e-003	0.1113	5.2400e-003	0.1165	0.0305	5.0100e-003	0.0355		538.6476	538.6476	0.0366		539.5615
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	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	0.1174	1.7512	1.0044	6.6700e-003	0.2789	6.5900e-003	0.2855	0.0750	6.2600e-003	0.0812		709.4631	709.4631	0.0416		710.5028

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					0.5380	0.0000	0.5380	0.0815	0.0000	0.0815			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.5380	1.5513	2.0894	0.0815	1.4411	1.5226	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, 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	0.0531	1.7070	0.4002	4.9600e-003	0.1113	5.2400e-003	0.1165	0.0305	5.0100e-003	0.0355		538.6476	538.6476	0.0366		539.5615
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	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	0.1174	1.7512	1.0044	6.6700e-003	0.2789	6.5900e-003	0.2855	0.0750	6.2600e-003	0.0812		709.4631	709.4631	0.0416		710.5028

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					6.2204	0.0000	6.2204	3.3355	0.0000	3.3355			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
Total	4.1912	46.3998	30.8785	0.0620	6.2204	1.9853	8.2057	3.3355	1.8265	5.1620		6,007.0434	6,007.0434	1.9428		6,055.6134

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

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	0.8121	26.1276	6.1262	0.0760	1.7031	0.0802	1.7833	0.4669	0.0767	0.5436		8,244.6065	8,244.6065	0.5595		8,258.5942
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	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
Total	0.8979	26.1865	6.9317	0.0783	1.9267	0.0820	2.0087	0.5262	0.0784	0.6045		8,472.3605	8,472.3605	0.5662		8,486.5160

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					2.4260	0.0000	2.4260	1.3008	0.0000	1.3008			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
Total	4.1912	46.3998	30.8785	0.0620	2.4260	1.9853	4.4113	1.3008	1.8265	3.1273	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

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	0.8121	26.1276	6.1262	0.0760	1.7031	0.0802	1.7833	0.4669	0.0767	0.5436		8,244.6065	8,244.6065	0.5595		8,258.5942
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	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
Total	0.8979	26.1865	6.9317	0.0783	1.9267	0.0820	2.0087	0.5262	0.0784	0.6045		8,472.3605	8,472.3605	0.5662		8,486.5160

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
Total	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

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

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	0.3617	11.5537	3.0204	0.0306	0.7619	0.0236	0.7855	0.2194	0.0226	0.2420		3,271.0795	3,271.0795	0.1927		3,275.8972
Worker	2.3448	1.6117	22.0317	0.0625	6.1142	0.0494	6.1636	1.6215	0.0455	1.6670		6,229.0711	6,229.0711	0.1835		6,233.6596
Total	2.7065	13.1653	25.0522	0.0931	6.8760	0.0730	6.9491	1.8409	0.0681	1.9090		9,500.1506	9,500.1506	0.3763		9,509.5568

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
Total	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

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

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	0.3617	11.5537	3.0204	0.0306	0.7619	0.0236	0.7855	0.2194	0.0226	0.2420		3,271.0795	3,271.0795	0.1927		3,275.8972
Worker	2.3448	1.6117	22.0317	0.0625	6.1142	0.0494	6.1636	1.6215	0.0455	1.6670		6,229.0711	6,229.0711	0.1835		6,233.6596
Total	2.7065	13.1653	25.0522	0.0931	6.8760	0.0730	6.9491	1.8409	0.0681	1.9090		9,500.1506	9,500.1506	0.3763		9,509.5568

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
Total	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

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

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	0.3395	10.9873	2.8578	0.0303	0.7619	0.0207	0.7825	0.2194	0.0198	0.2391		3,242.582 1	3,242.582 1	0.1861		3,247.234 1
Worker	2.1963	1.4558	20.3267	0.0603	6.1142	0.0479	6.1620	1.6215	0.0441	1.6656		6,009.956 4	6,009.956 4	0.1659		6,014.103 3
Total	2.5358	12.4431	23.1844	0.0906	6.8760	0.0685	6.9446	1.8409	0.0638	1.9047		9,252.538 4	9,252.538 4	0.3520		9,261.337 4

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	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

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	0.3395	10.9873	2.8578	0.0303	0.7619	0.0207	0.7825	0.2194	0.0198	0.2391		3,242.582 1	3,242.582 1	0.1861		3,247.234 1
Worker	2.1963	1.4558	20.3267	0.0603	6.1142	0.0479	6.1620	1.6215	0.0441	1.6656		6,009.956 4	6,009.956 4	0.1659		6,014.103 3
Total	2.5358	12.4431	23.1844	0.0906	6.8760	0.0685	6.9446	1.8409	0.0638	1.9047		9,252.538 4	9,252.538 4	0.3520		9,261.337 4

3.5 Architectural Coating - 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					
Archit. Coating	51.5311					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	51.7356	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

3.5 Architectural Coating - 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	0.4377	0.2901	4.0505	0.0120	1.2184	9.5400e-003	1.2279	0.3231	8.7800e-003	0.3319		1,197.5964	1,197.5964	0.0331		1,198.4228
Total	0.4377	0.2901	4.0505	0.0120	1.2184	9.5400e-003	1.2279	0.3231	8.7800e-003	0.3319		1,197.5964	1,197.5964	0.0331		1,198.4228

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	51.5311					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	51.7356	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

3.5 Architectural Coating - 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	0.4377	0.2901	4.0505	0.0120	1.2184	9.5400e-003	1.2279	0.3231	8.7800e-003	0.3319		1,197.5964	1,197.5964	0.0331		1,198.4228
Total	0.4377	0.2901	4.0505	0.0120	1.2184	9.5400e-003	1.2279	0.3231	8.7800e-003	0.3319		1,197.5964	1,197.5964	0.0331		1,198.4228

3.6 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
Total	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

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

3.6 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	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
Total	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206

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
Total	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

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

3.6 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	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
Total	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.2462	14.9678	37.1256	0.1583	14.7429	0.1084	14.8513	3.9440	0.1006	4.0446		16,194.9655	16,194.9655	0.7051		16,212.5941
Unmitigated	3.7753	17.4662	50.2183	0.2207	21.0613	0.1489	21.2101	5.6343	0.1383	5.7726		22,564.8864	22,564.8864	0.9516		22,588.6764

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,899.40	2,899.40	2,899.40	9,907,690	6,935,383
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	2,899.40	2,899.40	2,899.40	9,907,690	6,935,383

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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	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
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Enclosed Parking with Elevator	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194
NaturalGas Unmitigated	0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	20002.5	0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194

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					
Apartments Mid Rise	20.0025	0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.2157	1.8434	0.7844	0.0118		0.1490	0.1490		0.1490	0.1490		2,353.2353	2,353.2353	0.0451	0.0431	2,367.2194

6.0 Area Detail

6.1 Mitigation Measures Area

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	15.9207	8.6548	48.4768	0.0543		0.9074	0.9074		0.9074	0.9074	0.0000	10,468.22 16	10,468.22 16	0.2771	0.1904	10,531.89 81
Unmitigated	157.7782	11.8261	322.1752	0.7094		41.8812	41.8812		41.8812	41.8812	5,104.970 5	9,891.162 8	14,996.13 33	15.3021	0.3465	15,481.93 87

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0871					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.5241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	142.8096	11.3078	277.1608	0.7071		41.6316	41.6316		41.6316	41.6316	5,104.9705	9,810.0000	14,914.9705	15.2240	0.3465	15,398.8245
Landscaping	1.3574	0.5183	45.0145	2.3800e-003		0.2496	0.2496		0.2496	0.2496		81.1628	81.1628	0.0781		83.1142
Total	157.7782	11.8261	322.1752	0.7094		41.8812	41.8812		41.8812	41.8812	5,104.9705	9,891.1628	14,996.1333	15.3021	0.3465	15,481.9387

The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, 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	1.0871					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.5241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.9522	8.1365	3.4624	0.0519		0.6579	0.6579		0.6579	0.6579	0.0000	10,387.0588	10,387.0588	0.1991	0.1904	10,448.7839
Landscaping	1.3574	0.5183	45.0145	2.3800e-003		0.2496	0.2496		0.2496	0.2496		81.1628	81.1628	0.0781		83.1142
Total	15.9207	8.6548	48.4768	0.0543		0.9074	0.9074		0.9074	0.9074	0.0000	10,468.2216	10,468.2216	0.2771	0.1904	10,531.8981

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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The Villages at the Alhambra - Scenario 2 (Phase 2) - Los Angeles-South Coast County, Summer

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Localized Significance Thresholds*

Construction At 50 Meters

CO	
x-value Area of Site (acorage)	y-value LST (mass/day)
1	783.00
2	1125.00
5	1921.00
4.00	1649.77

NO _x	
x-value Area of Site (acorage)	y-value LST (mass/day)
1	69.00
2	95.00
5	141.00
4.00	124.85

PM ₁₀	
x-value Area of Site (acorage)	y-value LST (mass/day)
1	11
2	19
5	37
4.00	30.85

PM _{2.5}	
x-value Area of Site (acorage)	y-value LST (mass/day)
1	4
2	5
5	9
4.00	7.69

**based on SCAQMD localized significance thresholds (LST) from Appendix C of the SCAQMD's CEQA Handbook*