

APPENDIX B:
AIR QUALITY / GREENHOUSE GAS / ENERGY WORKSHEETS

Artis Senior Living Project - Los Angeles-South Coast County, Winter

Artis Senior Living Project
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	59.00	Space	0.53	23,600.00	0
Retirement Community	80.00	Dwelling Unit	16.00	44,192.00	229
City Park	1.26	Acre	1.26	54,885.60	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2021

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	513	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Artis Senior Living Project - Los Angeles-South Coast County, Winter

Project Characteristics - CO2 Intensity Factor Source: Southern California Edison, 2018 Sustainability Report, dated May 2019.

Land Use - Based on site plans dated 12/2/19.

Construction Phase - Per construction questionnaire.

Grading -

Demolition -

Vehicle Trips - Per Trip Generation Analysis dated 12/17/19.

Energy Use -

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

Area Mitigation - SCAQMD Rule 445 prohibits the installation of any open or enclosed permanently installed wood burning device.

Energy Mitigation - % Improvement based on efficiency of 2019 Title 24 Standards compared to 2016 Title 24 Standards.

Water Mitigation -

Waste Mitigation -

Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	30.00	22.00
tblConstructionPhase	NumDays	300.00	264.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	88.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT2	0.20	0.00

Artis Senior Living Project - Los Angeles-South Coast County, Winter

tb\FleetMix	LHD1	0.02	0.00
tb\FleetMix	LHD2	6.1430e-003	0.00
tb\FleetMix	MCY	5.0780e-003	0.00
tb\FleetMix	MDV	0.12	0.00
tb\FleetMix	MH	8.9100e-004	0.00
tb\FleetMix	MHD	0.02	0.00
tb\FleetMix	OBUS	2.4790e-003	0.00
tb\FleetMix	SBUS	6.8200e-004	0.00
tb\FleetMix	UBUS	2.2700e-003	0.00
tb\Grading	MaterialImported	0.00	1,865.00
tb\LandUse	LandUseSquareFeet	80,000.00	44,192.00
tb\ProjectCharacteristics	CO2IntensityFactor	702.44	513
tb\VehicleTrips	ST_TR	2.03	-4.68
tb\VehicleTrips	ST_TR	22.75	0.00
tb\VehicleTrips	SU_TR	1.95	-4.68
tb\VehicleTrips	SU_TR	16.74	0.00
tb\VehicleTrips	WD_TR	2.40	-4.68
tb\VehicleTrips	WD_TR	1.89	0.00

2.0 Emissions Summary

Artis Senior Living Project - Los Angeles-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2021	4.3770	49.3408	32.3213	0.0723	9.0917	1.9960	11.0877	3.7080	1.8366	5.5446	0.0000	7,102.427 ₆	7,102.427 ₆	2.0121	0.0000	7,152.729 ₉
2022	3.5020	17.8173	20.0080	0.0416	1.1516	0.8207	1.9724	0.3085	0.7721	1.0806	0.0000	4,052.229 ₄	4,052.229 ₄	0.7183	0.0000	4,069.050 ₃
2023	3.4845	1.3509	2.3723	4.7700e-003	0.2012	0.0724	0.2736	0.0534	0.0722	0.1256	0.0000	460.8578	460.8578	0.0215	0.0000	461.3941
Maximum	4.3770	49.3408	32.3213	0.0723	9.0917	1.9960	11.0877	3.7080	1.8366	5.5446	0.0000	7,102.427₆	7,102.427₆	2.0121	0.0000	7,152.729₉

Mitigated Construction

Year	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2021	4.3770	49.3408	32.3213	0.0723	3.5388	1.9960	5.5348	1.4218	1.8366	3.2584	0.0000	7,102.427 ₆	7,102.427 ₆	2.0121	0.0000	7,152.729 ₉
2022	3.5020	17.8173	20.0080	0.0416	0.8968	0.8207	1.7175	0.2459	0.7721	1.0180	0.0000	4,052.229 ₄	4,052.229 ₄	0.7183	0.0000	4,069.050 ₃
2023	3.4845	1.3509	2.3723	4.7700e-003	0.1557	0.0724	0.2281	0.0422	0.0722	0.1144	0.0000	460.8578	460.8578	0.0215	0.0000	461.3941
Maximum	4.3770	49.3408	32.3213	0.0723	3.5388	1.9960	5.5348	1.4218	1.8366	3.2584	0.0000	7,102.427₆	7,102.427₆	2.0121	0.0000	7,152.729₉

Artis Senior Living Project - Los Angeles-South Coast County, Winter

2.2 Overall Operational
Unmitigated Operational

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	22.1276	1.7363	47.3048	0.1041	6.1476	6.1476	6.1476	6.1476	6.1476	6.1476	749.3535	1,451.897 ₄	2,201.250 ₉	2.2463	0.0509	2,272.564 ₁
Energy	0.0386	0.3300	0.1404	2.1100e-003	0.0267	0.0267	0.0267	0.0267	0.0267	0.0267	421.3317	421.3317	421.3317	8.0800e-003	7.7200e-003	423.8355
Mobile	-0.7058	-3.5102	-9.4613	-0.0327	-2.7205	-0.0285	-2.7490	-0.7281	-0.0266	-0.7547	3,327.473 ₇	-	3,327.473 ₇	-0.1808	-	3,331.992 ₅
Total	21.4605	-1.4439	37.9839	0.0735	-2.7205	6.1458	3.4253	-0.7281	6.1477	5.4196	749.3535	1,454.244₆	-704.8911	2.0736	0.0586	-635.5930

Mitigated Operational

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	1.3045	1.2708	7.1289	7.9700e-003	0.1331	0.1331	0.1331	0.1331	0.1331	0.1331	0.0000	1,536.603 ₃	1,536.603 ₃	0.0408	0.0280	1,545.952 ₆
Energy	0.0262	0.2235	0.0951	1.4300e-003	0.0181	0.0181	0.0181	0.0181	0.0181	0.0181	285.2722	285.2722	285.2722	5.4700e-003	5.2300e-003	286.9674
Mobile	-0.7058	-3.5102	-9.4613	-0.0327	-2.7205	-0.0285	-2.7490	-0.7281	-0.0266	-0.7547	3,327.473 ₇	-	3,327.473 ₇	-0.1808	-	3,331.992 ₅
Total	0.6249	-2.0160	-2.2374	-0.0233	-2.7205	0.1227	-2.5979	-0.7281	0.1245	-0.6035	0.0000	1,505.598₃	-1,505.598₃	-0.1345	0.0332	1,499.072₅

Artis Senior Living Project - 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	97.09	-39.62	105.89	131.70	0.00	98.00	175.84	0.00	97.97	111.14	100.00	-3.53	-113.59	106.49	43.36	-135.85

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	7/1/2021	7/30/2021	5	22	
2	Grading	Grading	8/1/2021	8/31/2021	5	22	
3	Building Construction	Building Construction	9/1/2021	9/5/2022	5	264	
4	Paving	Paving	9/6/2022	10/5/2022	5	22	
5	Architectural Coating	Architectural Coating	10/6/2022	2/6/2023	5	88	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 55

Acres of Paving: 0.53

Residential Indoor: 89,489; Residential Outdoor: 29,830; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,416 (Architectural Coating – sqft)

OffRoad Equipment

Artis Senior Living Project - 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	78.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	233.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	91.00	21.00	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	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Artis Senior Living Project - Los Angeles-South Coast County, Winter

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.7716	0.0000	0.7716	0.1168	0.0000	0.1168			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	1.4411	1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.7716	1.5513	2.3229	0.1168	1.4411	1.5579		3,747.9449	3,747.9449	1.0549		3,774.3174

Artis Senior Living Project - Los Angeles-South Coast County, Winter

3.2 Demolition - 2021

Unmitigated Construction Off-Site

Category	lb/day										lb/day					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0303	0.9627	0.2365	2.7200e-003	0.0620	2.9600e-003	0.0650	0.0170	2.8400e-003	0.0198		294.9049	294.9049	0.0211		295.4320
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	0.1018	1.0116	0.7888	4.3300e-003	0.2297	4.3100e-003	0.2340	0.0615	4.0900e-003	0.0655		455.7426	455.7426	0.0258		456.3880

Mitigated Construction On-Site

Category	lb/day										lb/day					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.2859	0.0000	0.2859	0.0433	0.0000	0.0433			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	1.4411	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	0.2859	1.5513	1.8372	0.0433	1.4411	1.4844	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

Artis Senior Living Project - Los Angeles-South Coast County, Winter

3.2 Demolition - 2021

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0303	0.9627	0.2365	2.7200e-003	0.0498	2.9600e-003	0.0528	0.0140	2.8400e-003	0.0168		294.9049	294.9049	0.0211		295.4320
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	0.1298	1.3500e-003	0.1311	0.0352	1.2500e-003	0.0364		160.8377	160.8377	4.7300e-003		160.9560
Total	0.1018	1.0116	0.7888	4.3300e-003	0.1796	4.3100e-003	0.1839	0.0492	4.0900e-003	0.0533		455.7426	455.7426	0.0258		456.3880

3.3 Grading - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					8.6829	0.0000	8.6829	3.5980	0.0000	3.5980			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620	1.9853	1.9853	1.9853	1.8265	1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6829	1.9853	10.6683	3.5980	1.8265	5.4245		6,007.0434	6,007.0434	1.9428		6,055.6134

Artis Senior Living Project - Los Angeles-South Coast County, Winter

3.3 Grading - 2021

Unmitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0904	2.8757	0.7063	8.1200e-003	0.1852	8.8500e-003	0.1940	0.0508	8.4700e-003	0.0592		880.9339	880.9339	0.0630			882.5085
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	0.1858	2.9410	1.4429	0.0103	0.4087	0.0107	0.4194	0.1101	0.0101	0.1202		1,095.384	1,095.384	0.0693			1,097.116

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust					3.2170	0.0000	3.2170	1.3330	0.0000	1.3330			0.0000				0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853	1.8265	1.8265	1.8265	0.0000	6,007.043	6,007.043	1.9428			6,055.613
Total	4.1912	46.3998	30.8785	0.0620	3.2170	1.9853	5.2024	1.3330	1.8265	3.1596	0.0000	6,007.043	6,007.043	1.9428			6,055.613

Artis Senior Living Project - Los Angeles-South Coast County, Winter

3.3 Grading - 2021

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
lb/day																	
Hauling	0.0904	2.8757	0.7063	8.1200e-003	0.1488	8.8500e-003	0.1576	0.0418	8.4700e-003	0.0503		880.9339	880.9339	0.0630			882.5085
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	0.1730	1.8100e-003	0.1748	0.0469	1.6600e-003	0.0486		214.4502	214.4502	6.3100e-003			214.6080
Total	0.1858	2.9410	1.4429	0.0103	0.3218	0.0107	0.3325	0.0887	0.0101	0.0989		1,095.384	1,095.384	0.0693			1,097.116
lb/day																	

3.4 Building Construction - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
lb/day																	
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363	2,553.363	0.6160			2,568.764
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363	2,553.363	0.6160			2,568.764
lb/day																	

Artis Senior Living Project - Los Angeles-South Coast County, Winter

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	0.0000
Vendor	0.0670	2.0347	0.5896	5.2500e-003	0.1344	4.3000e-003	0.1388	0.0387	4.1100e-003	0.0428	561.4256	561.4256	561.4256	0.0362		562.3317	
Worker	0.4339	0.2968	3.3511	9.7900e-003	1.0172	8.2200e-003	1.0254	0.2698	7.5700e-003	0.2773	975.7485	975.7485	975.7485	0.0287		976.4663	
Total	0.5009	2.3315	3.9407	0.0150	1.1516	0.0125	1.1641	0.3085	0.0117	0.3202	1,537.174	1,537.174	1,537.174	0.0650		1,538.798	0

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586	0.9013	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	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643	3

Artis Senior Living Project - Los Angeles-South Coast County, Winter

3.4 Building Construction - 2021

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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
Vendor	0.0670	2.0347	0.5896	5.2500e-003	0.1095	4.3000e-003	0.1138	0.0326	4.1100e-003	0.0367	561.4256	561.4256	561.4256	0.0362		562.3317
Worker	0.4339	0.2968	3.3511	9.7900e-003	0.7873	8.2200e-003	0.7955	0.2133	7.5700e-003	0.2209	975.7485	975.7485	975.7485	0.0287		976.4663
Total	0.5009	2.3315	3.9407	0.0150	0.8968	0.0125	0.9093	0.2459	0.0117	0.2576	1,537.174	1,537.174	1,537.174	0.0650		1,538.798

3.4 Building Construction - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090	0.7612	0.7612	0.7612	2,554.333	2,554.333	2,554.333	0.6120		2,569.632
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090	0.7612	0.7612	0.7612	2,554.333	2,554.333	2,554.333	0.6120		2,569.632

Artis Senior Living Project - Los Angeles-South Coast County, Winter

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

lb/day																	
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	0.0000
Vendor	0.0629	1.9337	0.5581	5.2000e-003	0.1345	3.7600e-003	0.1382	0.0387	3.6000e-003	0.0423	556.4376	556.4376	556.4376	0.0350		557.3119	
Worker	0.4075	0.2680	3.0865	9.4500e-003	1.0172	7.9600e-003	1.0251	0.2698	7.3300e-003	0.2771	941.4582	941.4582	941.4582	0.0259		942.1063	
Total	0.4705	2.2017	3.6446	0.0147	1.1516	0.0117	1.1633	0.3085	0.0109	0.3194	1,497.895	1,497.895	1,497.895	0.0609		1,499.418	1

Mitigated Construction On-Site

lb/day																	
Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	2

Artis Senior Living Project - Los Angeles-South Coast County, Winter

3.4 Building Construction - 2022

Mitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	0.0000
Vendor	0.0629	1.9337	0.5581	5.2000e-003	0.1095	3.7600e-003	0.1133	0.0326	3.6000e-003	0.0362	556.4376	556.4376	556.4376	0.0350		557.3119	
Worker	0.4075	0.2680	3.0865	9.4500e-003	0.7873	7.9600e-003	0.7952	0.2133	7.3300e-003	0.2207	941.4582	941.4582	941.4582	0.0259		942.1063	
Total	0.4705	2.2017	3.6446	0.0147	0.8968	0.0117	0.9085	0.2459	0.0109	0.2569	1,497.895	1,497.895	1,497.895	0.0609		1,499.418	1

3.5 Paving - 2022

Unmitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679	0.5225	0.5225	0.5225		2,207.660	2,207.660	0.7140		2,225.510	4
Paving	0.0631					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000	
Total	1.1659	11.1249	14.5805	0.0228		0.5679	0.5679	0.5225	0.5225	0.5225		2,207.660	2,207.660	0.7140		2,225.510	4

Artis Senior Living Project - Los Angeles-South Coast County, Winter

3.5 Paving - 2022

Unmitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	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	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	4.2700e-003	155.2922	155.2922	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	4.2700e-003	155.2922	155.2922	155.2922

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	1.1028	1.1249	14.5805	0.0228		0.5679	0.5679	0.5225	0.5225	0.5225	0.0000	2,207.660 ³	2,207.660 ³	0.7140		2,225.510 ⁴
Paving	0.0631					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	1.1659	1.1249	14.5805	0.0228		0.5679	0.5679	0.5225	0.5225	0.5225	0.0000	2,207.660³	2,207.660³	0.7140		2,225.510⁴

Artis Senior Living Project - Los Angeles-South Coast County, Winter

3.5 Paving - 2022

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	0.0672	0.0442	0.5088	1.5600e-003	0.1298	1.3100e-003	0.1311	0.0352	1.2100e-003	0.0364	155.1854	155.1854	4.2700e-003	4.2700e-003	155.2922	155.2922
Total	0.0672	0.0442	0.5088	1.5600e-003	0.1298	1.3100e-003	0.1311	0.0352	1.2100e-003	0.0364	155.1854	155.1854	4.2700e-003	4.2700e-003	155.2922	155.2922

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	3.2169					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	0.0817	0.0817	281.4481	281.4481	0.0183	0.0183	281.9062	281.9062
Total	3.4214	1.4085	1.8136	2.9700e-003	0.0817	0.0817	0.0817	0.0817	0.0817	0.0817	281.4481	281.4481	0.0183	0.0183	281.9062	281.9062

Artis Senior Living Project - Los Angeles-South Coast County, Winter

3.6 Architectural Coating - 2022
Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548	186.2225	186.2225	5.1300e-003	5.1300e-003	186.3507	186.3507
Total	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548	186.2225	186.2225	5.1300e-003	5.1300e-003	186.3507	186.3507

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	3.2169					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	3.4214	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

Artis Senior Living Project - Los Angeles-South Coast County, Winter

3.6 Architectural Coating - 2022
Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	0.0806	0.0530	0.6105	1.8700e-003	0.1557	1.5700e-003	0.1573	0.0422	1.4500e-003	0.0437	186.2225	186.2225	5.1300e-003	5.1300e-003	186.3507	186.3507
Total	0.0806	0.0530	0.6105	1.8700e-003	0.1557	1.5700e-003	0.1573	0.0422	1.4500e-003	0.0437	186.2225	186.2225	5.1300e-003	5.1300e-003	186.3507	186.3507

3.6 Architectural Coating - 2023
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	3.2169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708			281.4481	0.0168		281.8690
Total	3.4085	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708			281.4481	0.0168		281.8690

Artis Senior Living Project - Los Angeles-South Coast County, Winter

3.6 Architectural Coating - 2023
Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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
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
Worker	0.0759	0.0480	0.5612	1.8000e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548	179.4097	179.4097	179.4097	4.6200e-003		179.5251
Total	0.0759	0.0480	0.5612	1.8000e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		179.4097	179.4097	4.6200e-003		179.5251

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	3.2169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708	0.0708	0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	3.4085	1.3030	1.8111	2.9700e-003		0.0708	0.0708	0.0708	0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Artis Senior Living Project - Los Angeles-South Coast County, Winter

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	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	0.0759	0.0480	0.5612	1.8000e-003	0.1557	1.5300e-003	0.1573	0.0422	1.4100e-003	0.0436	179.4097	179.4097	179.4097	4.6200e-003		179.5251
Total	0.0759	0.0480	0.5612	1.8000e-003	0.1557	1.5300e-003	0.1573	0.0422	1.4100e-003	0.0436	179.4097	179.4097	179.4097	4.6200e-003		179.5251

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Artis Senior Living Project - Los Angeles-South Coast County, Winter

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated	-0.7058	-3.5102	-9.4613	-0.0327	-2.7205	-0.0285	-2.7490	-0.7281	-0.0266	-0.7547	-	-3,327.473	3,327.473	-0.1808	-	3,331,992
Unmitigated	-0.7058	-3.5102	-9.4613	-0.0327	-2.7205	-0.0285	-2.7490	-0.7281	-0.0266	-0.7547	-	-3,327.473	3,327.473	-0.1808	-	3,331,992

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Parking Lot	0.00	0.00	0.00	-	-
Retirement Community	-374.40	-374.40	-374.40	-1,279,382	-1,279,382
City Park	0.00	0.00	0.00	-	-
Total	-374.40	-374.40	-374.40	-1,279,382	-1,279,382

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	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by	
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0.00	0.00	0	0	0	
Retirement Community	14.70	5.90	8.70	40.20	19.20	40.60	40.60	86	11	3		
City Park	16.60	8.40	6.90	33.00	48.00	19.00	19.00	66	28	6		

4.4 Fleet Mix

Artis Senior Living Project - Los Angeles-South Coast County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Retirement Community	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
City Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Natural Gas Mitigated	0.0262	0.2235	0.0951	1.4300e-003		0.0181	0.0181		0.0181	0.0181		285.2722	285.2722	5.4700e-003	5.2300e-003	286.9674
Natural Gas Unmitigated	0.0386	0.3300	0.1404	2.1100e-003		0.0267	0.0267		0.0267	0.0267		421.3317	421.3317	8.0800e-003	7.7200e-003	423.8355

Artis Senior Living Project - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																	
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	3581.32	0.0386	0.3300	0.1404	2.1100e-003		0.0267	0.0267		0.0267	0.0267		421.3317	421.3317	8.0800e-003	7.7200e-003	423.8355
Total		0.0386	0.3300	0.1404	2.1100e-003		0.0267	0.0267		0.0267	0.0267		421.3317	421.3317	8.0800e-003	7.7200e-003	423.8355

Mitigated

Land Use	Natural Gas Use kBTU/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																	
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	2.42481	0.0262	0.2235	0.0951	1.4300e-003		0.0181	0.0181		0.0181	0.0181		285.2722	285.2722	5.4700e-003	5.2300e-003	286.9674
Total		0.0262	0.2235	0.0951	1.4300e-003		0.0181	0.0181		0.0181	0.0181		285.2722	285.2722	5.4700e-003	5.2300e-003	286.9674

6.0 Area Detail

Artis Senior Living Project - Los Angeles-South Coast County, Winter

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Mitigated	1.3045	1.2708	7.1289	7.9700e-003	0.1331	0.1331	0.1331	0.1331	0.1331	0.1331	0.0000	1,536.6033	1,536.6033	0.0408	0.0280	1,545.9526
Unmitigated	22.1276	1.7363	47.3048	0.1041	6.1476	6.1476	6.1476	6.1476	6.1476	6.1476	749.35354	1,451.8974	2,201.2509	2.2463	0.0509	2,272.5641

Artis Senior Living Project - Los Angeles-South Coast County, Winter

6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Architectural Coating	0.0776					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8862					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	20.9629	1.6599	40.6842	0.1038	6.1111	6.1111	6.1111	6.1111	6.1111	6.1111	749.3535	1,440.0000	2,189.3535	2.2347	0.0509	2,260.3779
Landscaping	0.2010	0.0764	6.6206	3.5000e-004	0.0365	0.0365	0.0365	0.0365	0.0365	0.0365	11.8974	11.8974	11.8974	0.0116		12.1862
Total	22.1276	1.7363	47.3048	0.1041	6.1476	6.1476	6.1476	6.1476	6.1476	6.1476	749.3535	1,451.8974	2,201.2508	2.2463	0.0509	2,272.5641

Artis Senior Living Project - Los Angeles-South Coast County, Winter

6.2 Area by SubCategory

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.0776					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1398	1.1944	0.5082	7.6200e-003	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	1.524.705 ₉	1.524.705 ₉	0.0292	0.0280	1.533.766 ₅
Landscaping	0.2010	0.0764	6.6206	3.5000e-004	0.0365	0.0365	0.0365	0.0365	0.0365	0.0365		11.8974	11.8974	0.0116		12.1862
Total	1.3045	1.2708	7.1289	7.9700e-003		0.1330	0.1330		0.1330	0.1330	0.0000	1,536.603₃	1,536.603₃	0.0408	0.0280	1,545.952₆

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

Artis Senior Living Project - Los Angeles-South Coast County, Winter

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Artis Senior Living Project - Los Angeles-South Coast County, Summer

Artis Senior Living Project
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	59.00	Space	0.53	23,600.00	0
Retirement Community	80.00	Dwelling Unit	16.00	44,192.00	229
City Park	1.26	Acre	1.26	54,885.60	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2021

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	513	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Artis Senior Living Project - Los Angeles-South Coast County, Summer

Project Characteristics - CO2 Intensity Factor Source: Southern California Edison, 2018 Sustainability Report, dated May 2019.

Land Use - Based on site plans dated 12/2/19.

Construction Phase - Per construction questionnaire.

Grading -

Demolition -

Vehicle Trips - Per Trip Generation Analysis dated 12/17/19.

Energy Use -

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

Area Mitigation - SCAQMD Rule 445 prohibits the installation of any open or enclosed permanently installed wood burning device.

Energy Mitigation - % Improvement based on efficiency of 2019 Title 24 Standards compared to 2016 Title 24 Standards.

Water Mitigation -

Waste Mitigation -

Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	30.00	22.00
tblConstructionPhase	NumDays	300.00	264.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	88.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT2	0.20	0.00

Artis Senior Living Project - Los Angeles-South Coast County, Summer

tb\FleetMix	LHD1	0.02	0.00
tb\FleetMix	LHD2	6.1430e-003	0.00
tb\FleetMix	MCY	5.0780e-003	0.00
tb\FleetMix	MDV	0.12	0.00
tb\FleetMix	MH	8.9100e-004	0.00
tb\FleetMix	MHD	0.02	0.00
tb\FleetMix	OBUS	2.4790e-003	0.00
tb\FleetMix	SBUS	6.8200e-004	0.00
tb\FleetMix	UBUS	2.2700e-003	0.00
tb\Grading	MaterialImported	0.00	1,865.00
tb\LandUse	LandUseSquareFeet	80,000.00	44,192.00
tb\ProjectCharacteristics	CO2IntensityFactor	702.44	513
tb\VehicleTrips	ST_TR	2.03	-4.68
tb\VehicleTrips	ST_TR	22.75	0.00
tb\VehicleTrips	SU_TR	1.95	-4.68
tb\VehicleTrips	SU_TR	16.74	0.00
tb\VehicleTrips	WD_TR	2.40	-4.68
tb\VehicleTrips	WD_TR	1.89	0.00

2.0 Emissions Summary

Artis Senior Living Project - Los Angeles-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2021	4.3652	49.2997	32.3501	0.0726	9.0917	1.9959	11.0875	3.7080	1.8365	5.5445	0.0000	7,131.261 0	2.0104	0.0000	0.0000	7,181.519 7
2022	3.4937	17.7968	20.2493	0.0423	1.1516	0.8206	1.9722	0.3085	0.7720	1.0805	0.0000	4,126.382 2	0.7186	0.0000	0.0000	4,143.191 6
2023	3.4764	1.3463	2.4271	4.8800e-003	0.2012	0.0724	0.2736	0.0534	0.0722	0.1256	0.0000	471.9748	0.0218	0.0000	0.0000	472.5188
Maximum	4.3652	49.2997	32.3501	0.0726	9.0917	1.9959	11.0875	3.7080	1.8365	5.5445	0.0000	7,131.261 0	2.0104	0.0000	0.0000	7,181.519 7

Mitigated Construction

Year	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2021	4.3652	49.2997	32.3501	0.0726	3.5388	1.9959	5.5347	1.4218	1.8365	3.2583	0.0000	7,131.261 0	2.0104	0.0000	0.0000	7,181.519 6
2022	3.4937	17.7968	20.2493	0.0423	0.8968	0.8206	1.7174	0.2459	0.7720	1.0179	0.0000	4,126.382 2	0.7186	0.0000	0.0000	4,143.191 6
2023	3.4764	1.3463	2.4271	4.8800e-003	0.1557	0.0724	0.2281	0.0422	0.0722	0.1144	0.0000	471.9748	0.0218	0.0000	0.0000	472.5188
Maximum	4.3652	49.2997	32.3501	0.0726	3.5388	1.9959	5.5347	1.4218	1.8365	3.2583	0.0000	7,131.261 0	2.0104	0.0000	0.0000	7,181.519 6

Artis Senior Living Project - Los Angeles-South Coast County, Summer

2.2 Overall Operational
Unmitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Area	22.1276	1.7363	47.3048	0.1041	6.1476	6.1476	6.1476	6.1476	6.1476	6.1476	749.3535	1,451.897 ₄	2,201.250 ₉	2.2463	0.0509	2,272.564 ₁
Energy	0.0386	0.3300	0.1404	2.1100e-003	0.0267	0.0267	0.0267	0.0267	0.0267	0.0267	421.3317	421.3317	421.3317	8.0800e-003	7.7200e-003	423.8355
Mobile	-0.7263	-3.4200	-9.9707	-0.0344	-2.7205	-0.0283	-2.7488	-0.7281	-0.0265	-0.7545	3,496.687 ₇	-	-	-0.1816	-	3,501.226 ₈
Total	21.4399	-1.3537	37.4745	0.0719	-2.7205	6.1459	3.4254	-0.7281	6.1478	5.4197	749.3535	1,623.458₆	-874.1051	2.0728	0.0586	-804.8272

Mitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Area	1.3045	1.2708	7.1289	7.9700e-003	0.1331	0.1331	0.1331	0.1331	0.1331	0.1331	0.0000	1,536.603 ₃	1,536.603 ₃	0.0408	0.0280	1,545.952 ₆
Energy	0.0262	0.2235	0.0951	1.4300e-003	0.0181	0.0181	0.0181	0.0181	0.0181	0.0181	285.2722	285.2722	285.2722	5.4700e-003	5.2300e-003	286.9674
Mobile	-0.7263	-3.4200	-9.9707	-0.0344	-2.7205	-0.0283	-2.7488	-0.7281	-0.0265	-0.7545	3,496.687 ₇	-	-	-0.1816	-	3,501.226 ₈
Total	0.6043	-1.9258	-2.7468	-0.0250	-2.7205	0.1228	-2.5977	-0.7281	0.1247	-0.6034	0.0000	1,674.812₂	1,674.812₂	-0.1353	0.0332	1,668.306₈

Artis Senior Living Project - 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	97.18	-42.26	107.33	134.79	0.00	98.00	175.84	0.00	97.97	111.13	100.00	-3.16	-91.60	106.53	43.36	-107.29

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	7/1/2021	7/30/2021	5	22	
2	Grading	Grading	8/1/2021	8/31/2021	5	22	
3	Building Construction	Building Construction	9/1/2021	9/5/2022	5	264	
4	Paving	Paving	9/6/2022	10/5/2022	5	22	
5	Architectural Coating	Architectural Coating	10/6/2022	2/6/2023	5	88	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 55

Acres of Paving: 0.53

Residential Indoor: 89,489; Residential Outdoor: 29,830; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,416 (Architectural Coating – sqft)

OffRoad Equipment

Artis Senior Living Project - 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	78.00	14.70	14.70	6.90	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	233.00	14.70	14.70	6.90	LD_Mix	HDT_Mix	HHDT
Building Construction	9	91.00	21.00	0.00	14.70	14.70	6.90	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	14.70	6.90	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	14.70	14.70	6.90	LD_Mix	HDT_Mix	HHDT

Artis Senior Living Project - Los Angeles-South Coast County, Summer

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.7716	0.0000	0.7716	0.1168	0.0000	0.1168			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	1.4411	1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.7716	1.5513	2.3229	0.1168	1.4411	1.5579		3,747.9449	3,747.9449	1.0549		3,774.3174

Artis Senior Living Project - Los Angeles-South Coast County, Summer

3.2 Demolition - 2021

Unmitigated Construction Off-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0296	0.9510	0.2230	2.7700e-003	0.0620	2.9200e-003	0.0649	0.0170	2.7900e-003	0.0198		300.1037	300.1037	0.0204		300.6128
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	0.0939	0.9952	0.8272	4.4800e-003	0.2297	4.2700e-003	0.2339	0.0615	4.0400e-003	0.0655		470.9192	470.9192	0.0254		471.5541

Mitigated Construction On-Site

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.2859	0.0000	0.2859	0.0433	0.0000	0.0433			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	1.4411	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	0.2859	1.5513	1.8372	0.0433	1.4411	1.4844	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

Artis Senior Living Project - Los Angeles-South Coast County, Summer

3.2 Demolition - 2021

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0296	0.9510	0.2230	2.7700e-003	0.0498	2.9200e-003	0.0527	0.0140	2.7900e-003	0.0168		300.1037	300.1037	0.0204		300.6128
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	0.1298	1.3500e-003	0.1311	0.0352	1.2500e-003	0.0364		170.8155	170.8155	5.0300e-003		170.9413
Total	0.0939	0.9952	0.8272	4.4800e-003	0.1796	4.2700e-003	0.1839	0.0492	4.0400e-003	0.0532		470.9192	470.9192	0.0254		471.5541

3.3 Grading - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					8.6829	0.0000	8.6829	3.5980	0.0000	3.5980			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620	1.9853	1.9853	1.9853	1.8265	1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6829	1.9853	10.6683	3.5980	1.8265	5.4245		6,007.0434	6,007.0434	1.9428		6,055.6134

Artis Senior Living Project - Los Angeles-South Coast County, Summer

3.3 Grading - 2021

Unmitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0883	2.8409	0.6661	8.2600e-003	0.1852	8.7200e-003	0.1939	0.0508	8.3400e-003	0.0591		896.4636	896.4636	0.0608			897.9845
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	0.1740	2.8999	1.4717	0.0106	0.4087	0.0105	0.4193	0.1101	0.0100	0.1201		1,124.2175	1,124.2175	0.0676			1,125.9062

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust					3.2170	0.0000	3.2170	1.3330	0.0000	1.3330			0.0000				0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620	1.9853	1.9853	1.9853	1.8265	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	3.2170	1.9853	5.2024	1.3330	1.8265	3.1596	0.0000	6,007.0434	6,007.0434	1.9428			6,055.6134

Artis Senior Living Project - Los Angeles-South Coast County, Summer

3.3 Grading - 2021

Mitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0883	2.8409	0.6661	8.2600e-003	0.1488	8.7200e-003	0.1575	0.0418	8.3400e-003	0.0502		896.4636	896.4636	0.0608			897.9845
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	0.1730	1.8100e-003	0.1748	0.0469	1.6600e-003	0.0486		227.7540	227.7540	6.7100e-003			227.9217
Total	0.1740	2.8999	1.4717	0.0106	0.3218	0.0105	0.3323	0.0887	0.0100	0.0987		1,124.2175	1,124.2175	0.0676			1,125.9062

3.4 Building Construction - 2021

Unmitigated Construction On-Site

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

Artis Senior Living Project - Los Angeles-South Coast County, Summer

3.4 Building Construction - 2021
Unmitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	0.0000
Vendor	0.0638	2.0389	0.5330	5.4000e-003	0.1344	4.1700e-003	0.1386	0.0387	3.9900e-003	0.0427	577.2493	577.2493	577.2493	0.0340		578.0995	
Worker	0.3901	0.2681	3.6652	0.0104	1.0172	8.2200e-003	1.0254	0.2698	7.5700e-003	0.2773	1,036.2806	1,036.2806	1,036.2806	0.0305		1,037.0439	
Total	0.4539	2.3070	4.1983	0.0158	1.1516	0.0124	1.1640	0.3085	0.0116	0.3200	1,613.5299	1,613.5299	1,613.5299	0.0645		1,615.1434	

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586	0.9013	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	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643	

Artis Senior Living Project - Los Angeles-South Coast County, Summer

3.4 Building Construction - 2021
Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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
Vendor	0.0638	2.0389	0.5330	5.4000e-003	0.1095	4.1700e-003	0.1137	0.0326	3.9900e-003	0.0366	577.2493	577.2493	577.2493	0.0340		578.0995
Worker	0.3901	0.2681	3.6652	0.0104	0.7873	8.2200e-003	0.7955	0.2133	7.5700e-003	0.2209	1,036.2806	1,036.2806	1,036.2806	0.0305		1,037.0439
Total	0.4539	2.3070	4.1983	0.0158	0.8968	0.0124	0.9092	0.2459	0.0116	0.2575	1,613.5299	1,613.5299	1,613.5299	0.0645		1,615.1434

3.4 Building Construction - 2022
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090	0.7612	0.7612	0.7612	2,554.3336	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	0.7612	2,554.3336	2,554.3336	2,554.3336	0.6120		2,569.6322

Artis Senior Living Project - Los Angeles-South Coast County, Summer

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	0.0599	1.9389	0.5043	5.3500e-003	0.1345	3.6400e-003	0.1381	0.0387	3.4900e-003	0.0422	572.2204	572.2204	572.2204	0.0328		573.0413
Worker	0.3654	0.2422	3.3816	0.0100	1.0172	7.9600e-003	1.0251	0.2698	7.3300e-003	0.2771	999.8282	999.8282	999.8282	0.0276		1,000.5181
Total	0.4253	2.1811	3.8859	0.0154	1.1516	0.0116	1.1632	0.3085	0.0108	0.3193	1,572.0486	1,572.0486	1,572.0486	0.0604		1,573.5594

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090	0.7612	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	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Artis Senior Living Project - Los Angeles-South Coast County, Summer

3.4 Building Construction - 2022

Mitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	0.0000
Vendor	0.0599	1.9389	0.5043	5.3500e-003	0.1095	3.6400e-003	0.1132	0.0326	3.4900e-003	0.0361	572.2204	572.2204	572.2204	0.0328		573.0413	
Worker	0.3654	0.2422	3.3816	0.0100	0.7873	7.9600e-003	0.7952	0.2133	7.3300e-003	0.2207	999.8282	999.8282	999.8282	0.0276		1,000.5181	
Total	0.4253	2.1811	3.8859	0.0154	0.8968	0.0116	0.9084	0.2459	0.0108	0.2567	1,572.0486	1,572.0486	1,572.0486	0.0604		1,573.5594	

3.5 Paving - 2022

Unmitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679	0.5225	0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104	
Paving	0.0631					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000	
Total	1.1659	11.1249	14.5805	0.0228		0.5679	0.5679	0.5225	0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104	

Artis Senior Living Project - Los Angeles-South Coast County, Summer

3.5 Paving - 2022

Unmitigated Construction Off-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	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	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	164.8069	4.5500e-003		164.9206	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	164.8069	4.5500e-003		164.9206	164.9206

Mitigated Construction On-Site

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679	0.5225	0.5225	0.5225	0.0000	2,207.660 ₃	2,207.660 ₃	0.7140		2,225.510 ₄	2,225.510 ₄
Paving	0.0631					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000	0.0000
Total	1.1659	11.1249	14.5805	0.0228		0.5679	0.5679	0.5225	0.5225	0.5225	0.0000	2,207.660₃	2,207.660₃	0.7140		2,225.510₄	2,225.510₄

Artis Senior Living Project - Los Angeles-South Coast County, Summer

3.5 Paving - 2022

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	0.0602	0.0399	0.5574	1.6500e-003	0.1298	1.3100e-003	0.1311	0.0352	1.2100e-003	0.0364	164.8069	164.8069	164.8069	4.5500e-003	164.9206	164.9206
Total	0.0602	0.0399	0.5574	1.6500e-003	0.1298	1.3100e-003	0.1311	0.0352	1.2100e-003	0.0364	164.8069	164.8069	164.8069	4.5500e-003	164.9206	164.9206

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	3.2169					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	3.4214	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Artis Senior Living Project - Los Angeles-South Coast County, Summer

3.6 Architectural Coating - 2022
Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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
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
Worker	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548	197.7682	197.7682	197.7682	5.4600e-003		197.9047
Total	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548	197.7682	197.7682	197.7682	5.4600e-003		197.9047

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	3.2169					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	3.4214	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

Artis Senior Living Project - Los Angeles-South Coast County, Summer

3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	0.0723	0.0479	0.6689	1.9800e-003	0.1557	1.5700e-003	0.1573	0.0422	1.4500e-003	0.0437	197.7682	197.7682	197.7682	5.4600e-003		197.9047
Total	0.0723	0.0479	0.6689	1.9800e-003	0.1557	1.5700e-003	0.1573	0.0422	1.4500e-003	0.0437	197.7682	197.7682	197.7682	5.4600e-003		197.9047

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	3.2169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708			281.4481	0.0168		281.8690
Total	3.4085	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708			281.4481	0.0168		281.8690

Artis Senior Living Project - Los Angeles-South Coast County, Summer

3.6 Architectural Coating - 2023
Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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
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
Worker	0.0679	0.0433	0.6160	1.9100e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548	190.5268	190.5268	4.9200e-003	4.9200e-003			190.6498
Total	0.0679	0.0433	0.6160	1.9100e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548	190.5268	190.5268	4.9200e-003	4.9200e-003			190.6498

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
lb/day																	
Archit. Coating	3.2169					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708	0.0708	0.0708	0.0708	0.0000	281.4481	281.4481	0.0168			281.8690
Total	3.4085	1.3030	1.8111	2.9700e-003		0.0708	0.0708	0.0708	0.0708	0.0708	0.0000	281.4481	281.4481	0.0168			281.8690

Artis Senior Living Project - Los Angeles-South Coast County, Summer

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	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	0.0679	0.0433	0.6160	1.9100e-003	0.1557	1.5300e-003	0.1573	0.0422	1.4100e-003	0.0436	190.5268	190.5268	4.9200e-003	190.6498		190.6498
Total	0.0679	0.0433	0.6160	1.9100e-003	0.1557	1.5300e-003	0.1573	0.0422	1.4100e-003	0.0436	190.5268	190.5268	4.9200e-003	190.6498		190.6498

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Artis Senior Living Project - Los Angeles-South Coast County, Summer

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Mitigated	-0.7263	-3.4200	-9.9707	-0.0344	-2.7205	-0.0283	-2.7488	-0.7281	-0.0265	-0.7545	-	3,496.687	3,496.687	-	-0.1816	-	3,501.226
Unmitigated	-0.7263	-3.4200	-9.9707	-0.0344	-2.7205	-0.0283	-2.7488	-0.7281	-0.0265	-0.7545	-	3,496.687	3,496.687	-	-0.1816	-	3,501.226

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Parking Lot	0.00	0.00	0.00	-	-
Retirement Community	-374.40	-374.40	-374.40	-1,279,382	-1,279,382
City Park	0.00	0.00	0.00	-	-
Total	-374.40	-374.40	-374.40	-1,279,382	-1,279,382

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	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by	
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0.00	0.00	0	0	0	
Retirement Community	14.70	5.90	8.70	40.20	19.20	40.60	40.60	40.60	86	11	3	
City Park	16.60	8.40	6.90	33.00	48.00	19.00	19.00	19.00	66	28	6	

4.4 Fleet Mix

Artis Senior Living Project - Los Angeles-South Coast County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Retirement Community	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
City Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Natural Gas Mitigated	0.0262	0.2235	0.0951	1.4300e-003		0.0181	0.0181		0.0181	0.0181		285.2722	285.2722	5.4700e-003	5.2300e-003	286.9674
Natural Gas Unmitigated	0.0386	0.3300	0.1404	2.1100e-003		0.0267	0.0267		0.0267	0.0267		421.3317	421.3317	8.0800e-003	7.7200e-003	423.8355

Artis Senior Living Project - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																	
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	3581.32	0.0386	0.3300	0.1404	2.1100e-003		0.0267	0.0267		0.0267	0.0267		421.3317	421.3317	8.0800e-003	7.7200e-003	423.8355
Total		0.0386	0.3300	0.1404	2.1100e-003		0.0267	0.0267		0.0267	0.0267		421.3317	421.3317	8.0800e-003	7.7200e-003	423.8355

Mitigated

Land Use	Natural Gas Use kBTU/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																	
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	2.42481	0.0262	0.2235	0.0951	1.4300e-003		0.0181	0.0181		0.0181	0.0181		285.2722	285.2722	5.4700e-003	5.2300e-003	286.9674
Total		0.0262	0.2235	0.0951	1.4300e-003		0.0181	0.0181		0.0181	0.0181		285.2722	285.2722	5.4700e-003	5.2300e-003	286.9674

6.0 Area Detail

Artis Senior Living Project - Los Angeles-South Coast County, Summer

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Mitigated	1.3045	1.2708	7.1289	7.9700e-003	0.1331	0.1331	0.1331	0.1331	0.1331	0.1331	0.0000	1,536.6033	1,536.6033	0.0408	0.0280	1,545.9526
Unmitigated	22.1276	1.7363	47.3048	0.1041	6.1476	6.1476	6.1476	6.1476	6.1476	6.1476	749.3535	1,451.8974	2,201.2509	2.2463	0.0509	2,272.5641

Artis Senior Living Project - Los Angeles-South Coast County, Summer

6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Architectural Coating	0.0776					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8862					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	20.9629	1.6599	40.6842	0.1038	6.1111	6.1111	6.1111	6.1111	6.1111	6.1111	749.3535	1,440.0000	2,189.3535	2.2347	0.0509	2,260.3779
Landscaping	0.2010	0.0764	6.6206	3.5000e-004	0.0365	0.0365	0.0365	0.0365	0.0365	0.0365	11.8974	11.8974	11.8974	0.0116		12.1862
Total	22.1276	1.7363	47.3048	0.1041		6.1476	6.1476		6.1476	6.1476	749.3535	1,451.8974	2,201.2508	2.2463	0.0509	2,272.5641

Artis Senior Living Project - Los Angeles-South Coast County, Summer

6.2 Area by SubCategory

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.0776					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8862					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	0.1398	1.1944	0.5082	7.6200e-003	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	1.524.705 ₉	1.524.705 ₉	0.0292	0.0280	1.533.766 ₅
Landscaping	0.2010	0.0764	6.6206	3.5000e-004	0.0365	0.0365	0.0365	0.0365	0.0365	0.0365		11.8974	11.8974	0.0116		12.1862
Total	1.3045	1.2708	7.1289	7.9700e-003		0.1330	0.1330		0.1330	0.1330	0.0000	1,536.603₃	1,536.603₃	0.0408	0.0280	1,545.952₆

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

Artis Senior Living Project - Los Angeles-South Coast County, Summer

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Artis Senior Living Project - Los Angeles-South Coast County, Annual

Artis Senior Living Project
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	59.00	Space	0.53	23,600.00	0
Retirement Community	80.00	Dwelling Unit	16.00	44,192.00	229
City Park	1.26	Acre	1.26	54,885.60	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2021

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	513	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Artis Senior Living Project - Los Angeles-South Coast County, Annual

Project Characteristics - CO2 Intensity Factor Source: Southern California Edison, 2018 Sustainability Report, dated May 2019.

Land Use - Based on site plans dated 12/2/19.

Construction Phase - Per construction questionnaire.

Grading -

Demolition -

Vehicle Trips - Per Trip Generation Analysis dated 12/17/19.

Energy Use -

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

Area Mitigation - SCAQMD Rule 445 prohibits the installation of any open or enclosed permanently installed wood burning device.

Energy Mitigation - % Improvement based on efficiency of 2019 Title 24 Standards compared to 2016 Title 24 Standards.

Water Mitigation -

Waste Mitigation -

Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	30.00	22.00
tblConstructionPhase	NumDays	300.00	264.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	88.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT2	0.20	0.00

Artis Senior Living Project - Los Angeles-South Coast County, Annual

tbIFleetMix	LHD1	0.02	0.00
tbIFleetMix	LHD2	6.1430e-003	0.00
tbIFleetMix	MCY	5.0780e-003	0.00
tbIFleetMix	MDV	0.12	0.00
tbIFleetMix	MH	8.9100e-004	0.00
tbIFleetMix	MHD	0.02	0.00
tbIFleetMix	OBUS	2.4790e-003	0.00
tbIFleetMix	SBUS	6.8200e-004	0.00
tbIFleetMix	UBUS	2.2700e-003	0.00
tbIGrading	MaterialImported	0.00	1,865.00
tbILandUse	LandUseSquareFeet	80,000.00	44,192.00
tbIProjectCharacteristics	CO2IntensityFactor	702.44	513
tbIVehicleTrips	ST_TR	2.03	-4.68
tbIVehicleTrips	ST_TR	22.75	0.00
tbIVehicleTrips	SU_TR	1.95	-4.68
tbIVehicleTrips	SU_TR	16.74	0.00
tbIVehicleTrips	WD_TR	2.40	-4.68
tbIVehicleTrips	WD_TR	1.89	0.00

2.0 Emissions Summary

Artis Senior Living Project - Los Angeles-South Coast County, Annual

2.1 Overall Construction
Unmitigated Construction

Year	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2021	0.1876	1.7722	1.5069	3.1300e-003	0.1606	0.0818	0.2424	0.0561	0.0763	0.1323	0.0000	277.2993	277.2993	0.0580	0.0000	278.7493
2022	0.3097	1.7399	2.0076	4.1000e-003	0.1073	0.0811	0.1884	0.0288	0.0763	0.1051	0.0000	362.3233	362.3233	0.0615	0.0000	363.8605
2023	0.0452	0.0176	0.0310	6.0000e-005	2.5600e-003	9.4000e-004	3.5000e-003	6.8000e-004	9.4000e-004	1.6200e-003	0.0000	5.4703	5.4703	2.5000e-004	0.0000	5.4766
Maximum	0.3097	1.7722	2.0076	4.1000e-003	0.1606	0.0818	0.2424	0.0561	0.0763	0.1323	0.0000	362.3233	362.3233	0.0615	0.0000	363.8605

Mitigated Construction

Year	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2021	0.1876	1.7722	1.5069	3.1300e-003	0.0827	0.0818	0.1645	0.0273	0.0763	0.1035	0.0000	277.2991	277.2991	0.0580	0.0000	278.7491
2022	0.3097	1.7399	2.0076	4.1000e-003	0.0836	0.0811	0.1647	0.0230	0.0763	0.0992	0.0000	362.3231	362.3231	0.0615	0.0000	363.8602
2023	0.0452	0.0176	0.0310	6.0000e-005	1.9900e-003	9.4000e-004	2.9300e-003	5.4000e-004	9.4000e-004	1.4800e-003	0.0000	5.4703	5.4703	2.5000e-004	0.0000	5.4766
Maximum	0.3097	1.7722	2.0076	4.1000e-003	0.0836	0.0818	0.1647	0.0273	0.0763	0.1035	0.0000	362.3231	362.3231	0.0615	0.0000	363.8602

Artis Senior Living Project - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	37.78	0.00	23.53	40.62	0.00	14.54	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2021	9-30-2021	1.2133	1.2133
2	10-1-2021	12-31-2021	0.7283	0.7283
3	1-1-2022	3-31-2022	0.6427	0.6427
4	4-1-2022	6-30-2022	0.6477	0.6477
5	7-1-2022	9-30-2022	0.5875	0.5875
6	10-1-2022	12-31-2022	0.1764	0.1764
7	1-1-2023	3-31-2023	0.0639	0.0639
		Highest	1.2133	1.2133

Artis Senior Living Project - Los Angeles-South Coast County, Annual

**2.2 Overall Operational
Unmitigated Operational**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	0.4630	0.0303	1.3361	1.3400e-003		0.0810	0.0810		0.0810	0.0810	8.4975	17.6785	26.1760	0.0267	5.8000e-004	27.0141
Energy	7.0500e-003	0.0602	0.0256	3.8000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	154.1656	154.1656	6.1100e-003	2.2700e-003	154.9936
Mobile	-0.1256	-0.6509	-1.7470	-0.0060		-0.0052	-0.4907		-0.0048	-0.1350	0.0000	-557.0872	-557.0872	-0.0297	0.0000	-557.8308
Waste						0.0000	0.0000		0.0000	0.0000	7.4924	0.0000	7.4924	0.4428	0.0000	18.5621
Water						0.0000	0.0000		0.0000	0.0000	1.6536	28.1690	29.8226	0.1714	4.3400e-003	35.4018
Total	0.3445	-0.5603	-0.3853	-0.0043	-0.4856	0.0807	-0.4049	-0.1302	0.0810	-0.0492	17.6436	-357.0742	-339.4306	0.6173	7.1900e-003	-321.8591

Artis Senior Living Project - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	0.2028	0.0245	0.8339	1.4000e-004	5.7700e-003	5.7700e-003	5.7700e-003	5.7700e-003	5.7700e-003	5.7700e-003	0.0000	18.6390	18.6390	1.6400e-003	3.2000e-004	18.7745
Energy	4.7700e-003	0.0408	0.0174	2.6000e-004	3.3000e-003	3.3000e-003	3.3000e-003	3.3000e-003	3.3000e-003	3.3000e-003	0.0000	129.1012	129.1012	5.5300e-003	1.8200e-003	129.7829
Mobile	-0.1256	-0.6509	-1.7470	-0.0060	-0.4856	-0.0052	-0.4907	-0.1302	-0.0048	-0.1350	0.0000	-557.0872	-557.0872	-0.0297	0.0000	-557.8308
Waste						0.0000	0.0000	0.0000	0.0000	0.0000	3.7462	0.0000	3.7462	0.2214	0.0000	9.2811
Water						0.0000	0.0000	0.0000	0.0000	0.0000	1.3229	25.0104	26.3333	0.1373	3.5000e-003	30.8088
Total	0.0820	-0.5856	-0.8958	-0.0056	-0.4856	3.9100e-003	-0.4817	-0.1302	4.2500e-003	-0.1259	5.0691	-384.3366	-379.2675	0.3361	5.6400e-003	-369.1835

Percent Reduction	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
76.21		-4.51	-132.50	-30.56	0.00	95.15	-18.95	0.00	94.75	-156.12	71.27	-7.63	-11.74	45.55	21.56	-14.70

3.0 Construction Detail

Construction Phase

Artis Senior Living Project - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2021	7/30/2021	5	22	
2	Grading	Grading	8/1/2021	8/31/2021	5	22	
3	Building Construction	Building Construction	9/1/2021	9/5/2022	5	264	
4	Paving	Paving	9/6/2022	10/5/2022	5	22	
5	Architectural Coating	Architectural Coating	10/6/2022	2/6/2023	5	88	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 55

Acres of Paving: 0.53

Residential Indoor: 89,489; Residential Outdoor: 29,830; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,416 (Architectural Coating – sqft)

OffRoad Equipment

Artis Senior Living Project - Los Angeles-South Coast County, Annual

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	78.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	233.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	91.00	21.00	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	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Artis Senior Living Project - Los Angeles-South Coast County, Annual

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	tons/yr																
	MT/yr																
Fugitive Dust					8.4900e-003	0.0000	8.4900e-003	1.2900e-003	0.0000	1.2900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.3459	0.2372	4.3000e-004		0.0171	0.0171		0.0159	0.0159	0.0000	37.4009	37.4009	0.0105	0.0000	0.0000	37.6640
Total	0.0348	0.3459	0.2372	4.3000e-004	8.4900e-003	0.0171	0.0256	1.2900e-003	0.0159	0.0171	0.0000	37.4009	37.4009	0.0105	0.0000	0.0000	37.6640

Artis Senior Living Project - Los Angeles-South Coast County, Annual

3.2 Demolition - 2021

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	3.3000e-004	0.0108	2.5200e-003	3.0000e-005	6.7000e-004	3.0000e-005	7.0000e-004	1.8000e-004	3.0000e-005	2.1000e-004	0.0000	2.9730	2.9730	2.1000e-004	0.0000	2.9781
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	5.5000e-004	6.2400e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.6317	1.6317	5.0000e-005	0.0000	1.6329
Total	1.0400e-003	0.0114	8.7600e-003	5.0000e-005	2.4800e-003	4.0000e-005	2.5200e-003	6.6000e-004	4.0000e-005	7.0000e-004	0.0000	4.6047	4.6047	2.6000e-004	0.0000	4.6110

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust	0.0348	0.3459	0.2372	4.3000e-004	3.1400e-003	0.0000	3.1400e-003	4.8000e-004	0.0000	4.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.3459	0.2372	4.3000e-004	0.0171	0.0171	0.0171	0.0159	0.0159	0.0159	0.0000	37.4008	37.4008	0.0105	0.0000	37.6640
Total	0.0348	0.3459	0.2372	4.3000e-004	3.1400e-003	0.0171	0.0202	4.8000e-004	0.0159	0.0163	0.0000	37.4008	37.4008	0.0105	0.0000	37.6640

Artis Senior Living Project - Los Angeles-South Coast County, Annual

3.2 Demolition - 2021

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	3.3000e-004	0.0108	2.5200e-003	3.0000e-005	5.4000e-004	3.0000e-005	5.7000e-004	1.5000e-004	3.0000e-005	1.8000e-004	0.0000	2.9730	2.9730	2.1000e-004	0.0000	2.9781
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	5.5000e-004	6.2400e-003	2.0000e-005	1.4000e-003	1.0000e-005	1.4200e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.6317	1.6317	5.0000e-005	0.0000	1.6329
Total	1.0400e-003	0.0114	8.7600e-003	5.0000e-005	1.9400e-003	4.0000e-005	1.9900e-003	5.3000e-004	4.0000e-005	5.7000e-004	0.0000	4.6047	4.6047	2.6000e-004	0.0000	4.6110

3.3 Grading - 2021

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0955	0.0000	0.0955	0.0396	0.0000	0.0396	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0461	0.5104	0.3397	6.8000e-004		0.0218	0.0218	0.0201	0.0201	0.0201	0.0000	59.9445	59.9445	0.0194	0.0000	60.4292
Total	0.0461	0.5104	0.3397	6.8000e-004	0.0955	0.0218	0.1174	0.0396	0.0201	0.0597	0.0000	59.9445	59.9445	0.0194	0.0000	60.4292

Artis Senior Living Project - Los Angeles-South Coast County, Annual

3.3 Grading - 2021

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	9.8000e-004	0.0323	7.5200e-003	9.0000e-005	2.0000e-003	1.0000e-004	2.1000e-003	5.5000e-004	9.0000e-005	6.4000e-004	0.0000	8.8808	8.8808	6.2000e-004	0.0000	8.8962
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	7.4000e-004	8.3200e-003	2.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1756	2.1756	6.0000e-005	0.0000	2.1772
Total	1.9300e-003	0.0330	0.0158	1.1000e-004	4.4100e-003	1.2000e-004	4.5300e-003	1.1900e-003	1.1000e-004	1.3000e-003	0.0000	11.0564	11.0564	6.8000e-004	0.0000	11.0734

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0354	0.0000	0.0354	0.0147	0.0000	0.0147	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0461	0.5104	0.3397	6.8000e-004		0.0218	0.0218	0.0201	0.0201	0.0201	0.0000	59.9444	59.9444	0.0194	0.0000	60.4291
Total	0.0461	0.5104	0.3397	6.8000e-004	0.0354	0.0218	0.0572	0.0147	0.0201	0.0348	0.0000	59.9444	59.9444	0.0194	0.0000	60.4291

Artis Senior Living Project - Los Angeles-South Coast County, Annual

3.3 Grading - 2021

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	9.8000e-004	0.0323	7.5200e-003	9.0000e-005	1.6100e-003	1.0000e-004	1.7100e-003	4.5000e-004	9.0000e-005	5.5000e-004	0.0000	8.8808	8.8808	6.2000e-004	0.0000	8.8962
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	7.4000e-004	8.3200e-003	2.0000e-005	1.8700e-003	2.0000e-005	1.8900e-003	5.1000e-004	2.0000e-005	5.3000e-004	0.0000	2.1756	2.1756	6.0000e-005	0.0000	2.1772
Total	1.9300e-003	0.0330	0.0158	1.1000e-004	3.4800e-003	1.2000e-004	3.6000e-003	9.6000e-004	1.1000e-004	1.0800e-003	0.0000	11.0564	11.0564	6.8000e-004	0.0000	11.0734

3.4 Building Construction - 2021

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0836	0.7670	0.7293	1.1800e-003		0.0422	0.0422	0.0397	0.0397	0.0397	0.0000	101.9204	101.9204	0.0246	0.0000	102.5351
Total	0.0836	0.7670	0.7293	1.1800e-003		0.0422	0.0422	0.0397	0.0397	0.0397	0.0000	101.9204	101.9204	0.0246	0.0000	102.5351

Artis Senior Living Project - Los Angeles-South Coast County, Annual

3.4 Building Construction - 2021
Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	2.8700e-003	0.0912	0.0247	2.3000e-004	5.8200e-003	1.9000e-004	6.0100e-003	1.8000e-004	1.8000e-003	1.8600e-003	0.0000	22.7763	22.7763	1.4000e-003	0.0000	22.8112
Worker	0.0172	0.0134	0.1514	4.4000e-004	0.0439	3.6000e-004	0.0442	0.0117	3.3000e-004	0.0120	0.0000	39.5962	39.5962	1.1700e-003	0.0000	39.6254
Total	0.0201	0.1046	0.1761	6.7000e-004	0.0497	5.5000e-004	0.0503	0.0133	5.1000e-004	0.0139	0.0000	62.3725	62.3725	2.5700e-003	0.0000	62.4366

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0836	0.7670	0.7293	1.1800e-003		0.0422	0.0422		0.0397	0.0397	0.0000	101.9203	101.9203	0.0246	0.0000	102.5350
Total	0.0836	0.7670	0.7293	1.1800e-003		0.0422	0.0422		0.0397	0.0397	0.0000	101.9203	101.9203	0.0246	0.0000	102.5350

Artis Senior Living Project - Los Angeles-South Coast County, Annual

3.4 Building Construction - 2021
Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	2.8700e-003	0.0912	0.0247	2.3000e-004	4.7500e-003	1.9000e-004	4.9400e-003	1.8000e-004	1.8000e-004	1.5900e-003	0.0000	22.7763	22.7763	1.4000e-003	0.0000	22.8112
Worker	0.0172	0.0134	0.1514	4.4000e-004	0.0340	3.6000e-004	0.0344	9.2300e-003	3.3000e-004	9.6600e-003	0.0000	39.5962	39.5962	1.1700e-003	0.0000	39.6254
Total	0.0201	0.1046	0.1761	6.7000e-004	0.0387	5.5000e-004	0.0393	0.0107	5.1000e-004	0.0112	0.0000	62.3725	62.3725	2.5700e-003	0.0000	62.4366

3.4 Building Construction - 2022
Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1502	1.3742	1.4400	2.3700e-003		0.0712	0.0712	0.0670	0.0670	0.0670	0.0000	203.9182	203.9182	0.0489	0.0000	205.1395
Total	0.1502	1.3742	1.4400	2.3700e-003		0.0712	0.0712	0.0670	0.0670	0.0670	0.0000	203.9182	203.9182	0.0489	0.0000	205.1395

Artis Senior Living Project - Los Angeles-South Coast County, Annual

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.3900e-003	0.1733	0.0468	4.7000e-004	0.0116	3.3000e-004	0.0120	3.3600e-003	3.1000e-004	3.6700e-003	0.0000	45.1525	45.1525	2.7000e-003	0.0000	45.2199
Worker	0.0323	0.0242	0.2790	8.5000e-004	0.0878	7.0000e-004	0.0885	0.0233	6.5000e-004	0.0240	0.0000	76.4087	76.4087	2.1000e-003	0.0000	76.4613
Total	0.0377	0.1975	0.3258	1.3200e-003	0.0994	1.0300e-003	0.1004	0.0267	9.6000e-004	0.0276	0.0000	121.5612	121.5612	4.8000e-003	0.0000	121.6812

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.1502	1.3742	1.4400	2.3700e-003		0.0712	0.0712		0.0670	0.0670	0.0000	203.9180	203.9180	0.0489	0.0000	205.1393
Total	0.1502	1.3742	1.4400	2.3700e-003		0.0712	0.0712		0.0670	0.0670	0.0000	203.9180	203.9180	0.0489	0.0000	205.1393

Artis Senior Living Project - Los Angeles-South Coast County, Annual

3.4 Building Construction - 2022

Mitigated Construction Off-Site

Category	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	0.0000
Vendor	5.3900e-003	0.1733	0.0468	4.7000e-004	9.5000e-003	3.3000e-004	9.8200e-003	2.8300e-003	3.1000e-004	3.1400e-003	0.0000	45.1525	45.1525	2.7000e-003	0.0000	0.0000	45.2199
Worker	0.0323	0.0242	0.2790	8.5000e-004	0.0680	7.0000e-004	0.0687	0.0185	6.5000e-004	0.0191	0.0000	76.4087	76.4087	2.1000e-003	0.0000	0.0000	76.4613
Total	0.0377	0.1975	0.3258	1.3200e-003	0.0775	1.0300e-003	0.0785	0.0213	9.6000e-004	0.0222	0.0000	121.5612	121.5612	4.8000e-003	0.0000	0.0000	121.6812

3.5 Paving - 2022

Unmitigated Construction On-Site

Category	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	0.0121	0.1224	0.1604	2.5000e-004		6.2500e-003	6.2500e-003		5.7500e-003	5.7500e-003	0.0000	22.0303	22.0303	7.1300e-003	0.0000	0.0000	22.2084
Paving	6.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0128	0.1224	0.1604	2.5000e-004		6.2500e-003	6.2500e-003		5.7500e-003	5.7500e-003	0.0000	22.0303	22.0303	7.1300e-003	0.0000	0.0000	22.2084

Artis Senior Living Project - Los Angeles-South Coast County, Annual

3.5 Paving - 2022

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	5.0000e-004	5.7500e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.5744	1.5744	4.0000e-005	0.0000	1.5754
Total	6.7000e-004	5.0000e-004	5.7500e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.5744	1.5744	4.0000e-005	0.0000	1.5754

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0121	0.1224	0.1604	2.5000e-004	6.2500e-003	6.2500e-003	6.2500e-003	5.7500e-003	5.7500e-003	5.7500e-003	0.0000	22.0303	22.0303	7.1300e-003	0.0000	22.2084
Paving	6.9000e-004				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	0.0128	0.1224	0.1604	2.5000e-004	6.2500e-003	6.2500e-003	6.2500e-003	5.7500e-003	5.7500e-003	5.7500e-003	0.0000	22.0303	22.0303	7.1300e-003	0.0000	22.2084

Artis Senior Living Project - Los Angeles-South Coast County, Annual

3.5 Paving - 2022

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	5.0000e-004	5.7500e-003	2.0000e-005	1.4000e-003	1.0000e-005	1.4200e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.5744	1.5744	4.0000e-005	0.0000	1.5754
Total	6.7000e-004	5.0000e-004	5.7500e-003	2.0000e-005	1.4000e-003	1.0000e-005	1.4200e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.5744	1.5744	4.0000e-005	0.0000	1.5754

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	0.0997					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3400e-003	0.0437	0.0562	9.0000e-005		2.5300e-003	2.5300e-003	2.5300e-003	2.5300e-003	2.5300e-003	0.0000	7.9151	7.9151	5.2000e-004	0.0000	7.9280
Total	0.1061	0.0437	0.0562	9.0000e-005		2.5300e-003	2.5300e-003	2.5300e-003	2.5300e-003	2.5300e-003	0.0000	7.9151	7.9151	5.2000e-004	0.0000	7.9280

Artis Senior Living Project - Los Angeles-South Coast County, Annual

3.6 Architectural Coating - 2022
Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2500e-003	1.6900e-003	0.0194	6.0000e-005	6.1100e-003	5.0000e-005	6.1600e-003	1.6200e-003	4.0000e-005	1.6700e-003	0.0000	5.3242	5.3242	1.5000e-004	0.0000	5.3279
Total	2.2500e-003	1.6900e-003	0.0194	6.0000e-005	6.1100e-003	5.0000e-005	6.1600e-003	1.6200e-003	4.0000e-005	1.6700e-003	0.0000	5.3242	5.3242	1.5000e-004	0.0000	5.3279

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	0.0997					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3400e-003	0.0437	0.0562	9.0000e-005	2.5300e-003	2.5300e-003	2.5300e-003	2.5300e-003	2.5300e-003	2.5300e-003	0.0000	7.9151	7.9151	5.2000e-004	0.0000	7.9280
Total	0.1061	0.0437	0.0562	9.0000e-005	2.5300e-003	2.5300e-003	2.5300e-003	2.5300e-003	2.5300e-003	2.5300e-003	0.0000	7.9151	7.9151	5.2000e-004	0.0000	7.9280

Artis Senior Living Project - Los Angeles-South Coast County, Annual

3.6 Architectural Coating - 2022
Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2500e-003	1.6900e-003	0.0194	6.0000e-005	4.7400e-003	5.0000e-005	4.7900e-003	1.2900e-003	4.0000e-005	1.3300e-003	0.0000	5.3242	5.3242	1.5000e-004	0.0000	5.3279
Total	2.2500e-003	1.6900e-003	0.0194	6.0000e-005	4.7400e-003	5.0000e-005	4.7900e-003	1.2900e-003	4.0000e-005	1.3300e-003	0.0000	5.3242	5.3242	1.5000e-004	0.0000	5.3279

3.6 Architectural Coating - 2023
Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	0.0418					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4900e-003	0.0169	0.0235	4.0000e-005	9.2000e-004	9.2000e-004	9.2000e-004	9.2000e-004	9.2000e-004	9.2000e-004	0.0000	3.3192	3.3192	2.0000e-004	0.0000	3.3242
Total	0.0443	0.0169	0.0235	4.0000e-005	9.2000e-004	9.2000e-004	9.2000e-004	9.2000e-004	9.2000e-004	9.2000e-004	0.0000	3.3192	3.3192	2.0000e-004	0.0000	3.3242

Artis Senior Living Project - Los Angeles-South Coast County, Annual

3.6 Architectural Coating - 2023
Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	8.9000e-004	6.4000e-004	7.5000e-003	2.0000e-005	2.5600e-003	2.0000e-005	2.5800e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.1510	2.1510	6.0000e-005	0.0000	2.1524
Total	8.9000e-004	6.4000e-004	7.5000e-003	2.0000e-005	2.5600e-003	2.0000e-005	2.5800e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.1510	2.1510	6.0000e-005	0.0000	2.1524

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	0.0418					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4900e-003	0.0169	0.0235	4.0000e-005	9.2000e-004	9.2000e-004	9.2000e-004	9.2000e-004	9.2000e-004	9.2000e-004	0.0000	3.3192	3.3192	2.0000e-004	0.0000	3.3242
Total	0.0443	0.0169	0.0235	4.0000e-005	9.2000e-004	9.2000e-004	9.2000e-004	9.2000e-004	9.2000e-004	9.2000e-004	0.0000	3.3192	3.3192	2.0000e-004	0.0000	3.3242

Artis Senior Living Project - Los Angeles-South Coast County, Annual

3.6 Architectural Coating - 2023
Mitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	8.9000e-004	6.4000e-004	7.5000e-003	2.0000e-005	1.9900e-003	2.0000e-005	2.0100e-003	5.4000e-004	2.0000e-005	5.6000e-004	0.0000	2.1510	2.1510	6.0000e-005	0.0000	2.1524
Total	8.9000e-004	6.4000e-004	7.5000e-003	2.0000e-005	1.9900e-003	2.0000e-005	2.0100e-003	5.4000e-004	2.0000e-005	5.6000e-004	0.0000	2.1510	2.1510	6.0000e-005	0.0000	2.1524

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Artis Senior Living Project - Los Angeles-South Coast County, Annual

Category	tons/yr														MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Mitigated	-0.1256	-0.6509	-1.7470	-0.0060	-0.4856	-0.0052	-0.4907	-0.1302	-0.0048	-0.1350	0.0000	-557.0872	-557.0872	-0.0297	0.0000	-557.8308		
Unmitigated	-0.1256	-0.6509	-1.7470	-0.0060	-0.4856	-0.0052	-0.4907	-0.1302	-0.0048	-0.1350	0.0000	-557.0872	-557.0872	-0.0297	0.0000	-557.8308		

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate				Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT	
Parking Lot	0.00	0.00	0.00	-1,279,382	-1,279,382	-1,279,382	-1,279,382	
Retirement Community	-374.40	-374.40	-374.40	-1,279,382	-1,279,382	-1,279,382	-1,279,382	
City Park	0.00	0.00	0.00	-1,279,382	-1,279,382	-1,279,382	-1,279,382	
Total	-374.40	-374.40	-374.40	-1,279,382	-1,279,382	-1,279,382	-1,279,382	

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	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Retirement Community	14.70	5.90	8.70	40.20	19.20	40.60	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Artis Senior Living Project - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Retirement Community	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
City Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	81.8712	81.8712	4.6300e-003	9.6000e-004	82.2722
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	84.4094	84.4094	4.7700e-003	9.9000e-004	84.8229
NaturalGas Mitigated	4.7700e-003	0.0408	0.0174	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003	0.0000	47.2300	47.2300	9.1000e-004	8.7000e-004	47.5107
NaturalGas Unmitigated	7.0500e-003	0.0602	0.0256	3.8000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	69.7562	69.7562	1.3400e-003	1.2800e-003	70.1707

Artis Senior Living Project - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	tons/yr										MT/yr						
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	1.30718e+006	7.0500e-003	0.0602	0.0256	3.8000e-004	4.8700e-003	4.8700e-003	4.8700e-003	4.8700e-003	4.8700e-003	4.8700e-003	4.8700e-003	69.7562	69.7562	1.3400e-003	1.2800e-003	70.1707	70.1707
Total		7.0500e-003	0.0602	0.0256	3.8000e-004	4.8700e-003	4.8700e-003	4.8700e-003	4.8700e-003	4.8700e-003	4.8700e-003	4.8700e-003	69.7562	69.7562	1.3400e-003	1.2800e-003	70.1707	70.1707

Mitigated

Land Use	Natural Gas Use kBTU/yr	tons/yr										MT/yr						
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	885057	4.7700e-003	0.0408	0.0174	2.6000e-004	3.3000e-003	3.3000e-003	3.3000e-003	3.3000e-003	3.3000e-003	3.3000e-003	3.3000e-003	47.2300	47.2300	9.1000e-004	8.7000e-004	47.5107	47.5107
Total		4.7700e-003	0.0408	0.0174	2.6000e-004	3.3000e-003	3.3000e-003	3.3000e-003	3.3000e-003	3.3000e-003	3.3000e-003	3.3000e-003	47.2300	47.2300	9.1000e-004	8.7000e-004	47.5107	47.5107

Artis Senior Living Project - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	8260	1.9220	1.1000e-004	2.0000e-005	1.9315
Retirement Community	354490	82.4874	4.6600e-003	9.6000e-004	82.8915
Total		84.4094	4.7700e-003	9.8000e-004	84.8229

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	8260	1.9220	1.1000e-004	2.0000e-005	1.9315
Retirement Community	343582	79.9491	4.5200e-003	9.4000e-004	80.3408
Total		81.8712	4.6300e-003	9.6000e-004	82.2722

6.0 Area Detail

Artis Senior Living Project - Los Angeles-South Coast County, Annual

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	MT/yr															
	tons/yr															
Mitigated	0.2028	0.0245	0.8339	1.4000e-004	5.7700e-003	5.7700e-003	5.7700e-003	5.7700e-003	5.7700e-003	5.7700e-003	0.0000	18.6390	18.6390	1.6400e-003	3.2000e-004	18.7745
Unmitigated	0.4630	0.0303	1.3361	1.3400e-003	0.0810	0.0810	0.0810	0.0810	0.0810	0.0810	8.4975	17.6785	26.1760	0.0267	5.8000e-004	27.0141

Artis Senior Living Project - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

SubCategory	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Architectural Coating	0.0142					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1617					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2620	0.0208	0.5086	1.3000e-003		0.0764	0.0764		0.0764	0.0764	8.4975	16.3293	24.8269	0.0253	5.8000e-004	25.6323
Landscaping	0.0251	9.5500e-003	0.8276	4.0000e-005		4.5600e-003	4.5600e-003		4.5600e-003	4.5600e-003	0.0000	1.3491	1.3491	1.3100e-003	0.0000	1.3819
Total	0.4630	0.0303	1.3361	1.3400e-003		0.0810	0.0810		0.0810	0.0810	8.4975	17.6785	26.1760	0.0267	5.8000e-004	27.0141

Artis Senior Living Project - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

SubCategory	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Architectural Coating	0.0142					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1617					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.7500e-003	0.0149	6.3500e-003	1.0000e-004	1.2100e-003	1.2100e-003	1.2100e-003	1.2100e-003	1.2100e-003	1.2100e-003	0.0000	17.2899	17.2899	3.3000e-004	3.2000e-004	17.3926
Landscaping	0.0251	9.5500e-003	0.8276	4.0000e-005	4.5600e-003	4.5600e-003	4.5600e-003	4.5600e-003	4.5600e-003	4.5600e-003	0.0000	1.3491	1.3491	1.3100e-003	0.0000	1.3819
Total	0.2028	0.0245	0.8339	1.4000e-004	5.7700e-003	5.7700e-003	5.7700e-003	5.7700e-003	5.7700e-003	5.7700e-003	0.0000	18.6390	18.6390	1.6400e-003	3.2000e-004	18.7745

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

Artis Senior Living Project - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	26.3333	0.1373	3.5000e-003	30.8088
Unmitigated	29.8226	0.1714	4.3400e-003	35.4018

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.50127	3.8811	2.2000e-004	5.0000e-005	3.9001
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Retirement Community	5.21232 / 3.28603	25.9415	0.1712	4.2900e-003	31.5017
Total		29.8226	0.1714	4.3400e-003	35.4018

Artis Senior Living Project - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
City Park	0 / 1.50127	3.8811	2.2000e-004	5.0000e-005	3.9001
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Retirement Community	4.16986 / 3.28603	22.4522	0.1371	3.4600e-003	26.9087
Total		26.3333	0.1373	3.5100e-003	30.8088

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Artis Senior Living Project - Los Angeles-South Coast County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.7462	0.2214	0.0000	9.2811
Unmitigated	7.4924	0.4428	0.0000	18.5621

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.11	0.0223	1.3200e-003	0.0000	0.0553
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	36.8	7.4701	0.4415	0.0000	18.5068
Total		7.4924	0.4428	0.0000	18.5621

11.0 Vegetation

**Artis Senior Living Project
Energy Calculations**

Land Use	Natural Gas Use	Electricity Use	Electricity Use
	(kBtu/yr)	(kWh/yr)	(MWh/yr)
City Park	0	0	0
Parking Lot	0	8,260	8
Retirement Community	885,057	343,582	344
Totals	885,057	351,842	352
Total Therms	8,851	-	-

1 kBtu = 0.01 therms

Energy Type	Project Annual	Los Angeles	Percentage Increase
	Energy Consumption	County Annual Energy	
Electricity	352	68,486,000	0.0005%
Natural Gas	8,851	2,921,000,000	0.0003%

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

Artis Senior Living Project Energy Calculations

Vehicle Type	Percent of Vehicle Trips ¹	Daily Trips ²	Annual Vehicle Miles Traveled ³	Average Fuel Economy (miles per gallon) ⁴	Total Annual Fuel Consumption (gallons) ⁵
Passenger Cars	0.55	--	-700067.60	22	-31,821
Light/Medium Trucks	0.41	--	-519345.04	17.3	-30,020
Heavy Trucks/Other	0.05	--	-59969.37	6.4	-9,370
TOTAL⁶	1.00	--	-1,279,382	--	-71,211

Notes:

- Percent of Vehicle Trip distribution based on trip characteristics within the CalEEMod model.
- Daily Trips calculated by multiplying the total daily trips by percent vehicle trips (i.e., Daily Trips x percent of Vehicle Trips).
- Daily Vehicle Miles Traveled (VMT) calculated by multiplying percent vehicle trips by total VMT (i.e., VMT x percent of Vehicle Trips).
- Average fuel economy derived from the Department of Transportation.
- Total Daily Fuel Consumption calculated by dividing the daily VMT by the average fuel economy (i.e., VMT/Average Fuel Economy).
- Values may be slightly off due to rounding.

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

**Artis Senior Living Project
Energy Calculations**

Worker Trips							
Phase	Phase Length (# days)	# Worker Trips	Worker Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption	
Demolition	22	15	14.7	220.5		8.85	
Grading	22	20	14.7	294		11.81	
Paving	264	15	14.7	220.5	24.90284233	8.85	
Building Construction	22	91	14.7	1337.7		53.72	
Architectural Coating	88	18	14.7	264.6		10.63	
							93.86
VENDOR TRIPS							
Phase	Phase Length (# days)	# Vendor Trips	Vendor Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption	
Demolition	22	0	6.9	0		0.00	
Grading	22	0	6.9	0		0.00	
Paving	264	0	6.9	0	8.343886151	0.00	
Building Construction	22	21	6.9	144.9		17.37	
Architectural Coating	88	0	6.9	0		0.00	
							17.37
HAULING TRIPS							
Phase	Phase Length (# days)	# Hauling Trips	Hauling Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day) ¹	Total Fuel Consumption	
Demolition	22	78	20	1560		186.96	
Grading	22	233	20	4660		558.49	
Paving	264	0	20	0	8.343886151	0.00	
Building Construction	22	0	20	0		0.00	
Architectural Coating	88	0	20	0		0.00	
							745.46
TOTAL OFF-SITE MOBILE GALLONS CONSUMED DURING CONSTRUCTION							856.68

**Artis Senior Living Project
Energy Calculations**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Fuel Consumption Rate (gallons per hour)	Duration (total hours/day)	# days	Total Fuel Consumption (gallons)
Demolition	Concrete/Industrial Saws	1	8	81	0.73	2.3652	8	22	416.28
	Excavators	3	8	158	0.38	2.4016	24	22	1268.04
	Rubber Tired Dozers	2	8	247	0.4	3.952	16	22	1391.10
Grading	Excavators	2	8	158	0.38	2.4016	16	22	845.36
	Graders	1	8	187	0.41	3.0668	8	22	539.76
	Rubber Tired Dozers	1	8	247	0.4	3.952	8	22	695.55
	Scrapers	2	8	367	0.48	7.0464	16	22	2480.33
	Tractors/Loaders/Backhoes	2	8	97	0.37	1.4356	16	22	505.33
	Pavers	2	8	130	0.42	2.184	16	22	768.77
Paving	Paving Equipment	2	8	132	0.36	1.9008	16	22	669.08
	Rollers	2	8	80	0.38	1.216	16	22	428.03
	Cranes	1	7	231	0.29	2.6796	7	264	4951.90
Building Construction	Forklifts	3	8	89	0.20	0.712	24	264	4511.23
	Generator Sets	1	8	84	0.74	2.4864	8	264	5251.28
	Tractors/Loaders/Backhoes	3	7	97	0.37	1.4356	21	264	7958.97
	Welders	1	8	46	0.45	0.828	8	264	1748.74
	Air Compressors	1	6	78	0.48	1.4976	6	88	790.73
Architectural Coating									
<p>Notes:</p> <p>Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor</p> <p>Where:</p> <p>Fuel Consumption Factor for a diesel engine is 0.04 gallons per horsepower per hour (gal/hp/hr) and a gasoline engine is 0.06 gal/hp/hr.</p> <p>Source: Refer to CalEEMod outputs for assumptions used in this analysis.</p>									
<p>Off-Site Mobile Construction Total:</p> <p>TOTAL:</p>									<p>Total:</p> <p>36,077</p> <p>856.68</p> <p>36,934</p>