

Appendix B

Air Quality Modeling
Results and Greenhouse
Gas Reduction Strategy
Consistency Checklist

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Broadstone Villas**
Sacramento County, Winter**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	6.06	1000sqft	0.14	6,063.00	0
Enclosed Parking Structure	6.00	Space	0.05	2,400.00	0
Other Asphalt Surfaces	101.80	1000sqft	2.34	101,800.00	0
Parking Lot	232.00	Space	2.09	92,800.00	0
Apartments Mid Rise	257.00	Dwelling Unit	13.82	406,836.00	686

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2024
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - This model is for construction only.

Land Use - Land use/area per site plan.

General Office Building = clubhouse

Construction Phase - Construction schedule per project applicant

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Demolition for concrete removal at 4 driveway connections, no structures.

Off-road Equipment - Off-Highway Truck = water truck.

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-road Equipment -

Off-road Equipment - Off-Highway Truck = water truck.

Off-road Equipment - Equipment for excavation/installation of underground utilities/storm drains.

Off-Highway Truck = water truck.

Grading - Grading 50,000 CY cut/fill balance on site.

Demolition - 93 CY concrete rubble estimated, 2 tons per CY.

Trips and VMT - Underground utilities vendor trips for aggregate/material delivery.

696 haul trips during paving for aggregate/asphalt/concrete delivery (estimated 348 loads).

Architectural Coating - interior/exterior flat coating VOC limit 50 g/L per SMAQMD Rule 442.

Vehicle Trips - Construction only this model.

Consumer Products - Construction only this model.

Area Coating - Construction only this model.

Energy Use - Construction only this model.

Water And Wastewater - Construction only this model.

Solid Waste - Construction only this model.

Construction Off-road Equipment Mitigation - Fugitive dust mitigation to meet requirements of SMAQMD BMPs.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	20.00	160.00
tblConstructionPhase	NumDays	300.00	323.00
tblConstructionPhase	NumDays	20.00	3.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	10.00	5.00
tblConsumerProducts	ROG_EF	2.14E-05	0

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	5.75	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	0.68	0.00
tblEnergyUse	T24E	98.18	0.00
tblEnergyUse	T24E	3.50	0.00
tblEnergyUse	T24E	4.44	0.00
tblEnergyUse	T24NG	6,729.23	0.00
tblEnergyUse	T24NG	12.30	0.00
tblLandUse	LandUseSquareFeet	6,060.00	6,063.00
tblLandUse	LandUseSquareFeet	257,000.00	406,836.00
tblLandUse	LotAcreage	6.76	13.82
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	118.22	0.00
tblSolidWaste	SolidWasteGenerationRate	5.64	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	696.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblVehicleTrips	ST_TR	4.91	0.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	SU_TR	4.09	0.00
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	WD_TR	5.44	0.00
tblVehicleTrips	WD_TR	9.74	0.00

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblWater	IndoorWaterUseRate	16,744,584.58	0.00
tblWater	IndoorWaterUseRate	1,077,066.51	0.00
tblWater	OutdoorWaterUseRate	10,556,368.54	0.00
tblWater	OutdoorWaterUseRate	660,137.54	0.00

2.0 Emissions Summary

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.2269	42.9089	32.9895	0.0768	19.8092	1.7818	21.5685	10.1428	1.6393	11.7614	0.0000	7,439.845 3	7,439.845 3	2.3636	0.2479	7,500.420 1
2023	19.2388	19.3672	26.6648	0.0616	2.8322	0.7992	3.6314	0.7596	0.7562	1.5158	0.0000	6,135.468 4	6,135.468 4	0.7283	0.2481	6,227.620 3
Maximum	19.2388	42.9089	32.9895	0.0768	19.8092	1.7818	21.5685	10.1428	1.6393	11.7614	0.0000	7,439.845 3	7,439.845 3	2.3636	0.2481	7,500.420 1

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.2269	42.9089	32.9895	0.0768	8.9978	1.7818	10.7572	4.5865	1.6393	6.2051	0.0000	7,439.845 3	7,439.845 3	2.3636	0.2479	7,500.420 1
2023	19.2388	19.3672	26.6648	0.0616	2.8322	0.7992	3.6314	0.7596	0.7562	1.5158	0.0000	6,135.468 4	6,135.468 4	0.7283	0.2481	6,227.620 2
Maximum	19.2388	42.9089	32.9895	0.0768	8.9978	1.7818	10.7572	4.5865	1.6393	6.2051	0.0000	7,439.845 3	7,439.845 3	2.3636	0.2481	7,500.420 1

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	47.75	0.00	42.90	50.96	0.00	41.85	0.00	0.00	0.00	0.00	0.00	0.00

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6405	0.2445	21.2292	1.1200e-003		0.1176	0.1176		0.1176	0.1176	0.0000	38.2536	38.2536	0.0368	0.0000	39.1744
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	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	0.6405	0.2445	21.2292	1.1200e-003	0.0000	0.1176	0.1176	0.0000	0.1176	0.1176	0.0000	38.2536	38.2536	0.0368	0.0000	39.1744

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6405	0.2445	21.2292	1.1200e-003		0.1176	0.1176		0.1176	0.1176	0.0000	38.2536	38.2536	0.0368	0.0000	39.1744
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	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	0.6405	0.2445	21.2292	1.1200e-003	0.0000	0.1176	0.1176	0.0000	0.1176	0.1176	0.0000	38.2536	38.2536	0.0368	0.0000	39.1744

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2022	1/5/2022	5	3	
2	Site Preparation	Site Preparation	1/6/2022	1/12/2022	5	5	
3	Grading	Grading	1/13/2022	2/9/2022	5	20	
4	Underground Utilities	Trenching	2/10/2022	4/8/2022	5	42	
5	Paving	Paving	4/9/2022	6/11/2022	5	45	
6	Building Construction	Building Construction	6/12/2022	9/6/2023	5	323	
7	Architectural Coating	Architectural Coating	1/26/2023	9/6/2023	5	160	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 60

Acres of Paving: 4.48

Residential Indoor: 823,843; Residential Outdoor: 274,614; Non-Residential Indoor: 9,095; Non-Residential Outdoor: 3,032; Striped Parking Area: 11,820 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Off-Highway Trucks	1	8.00	402	0.38
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
Underground Utilities	Excavators	1	8.00	158	0.38
Underground Utilities	Off-Highway Trucks	1	4.00	402	0.38
Underground Utilities	Rubber Tired Loaders	1	8.00	203	0.36
Underground Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	2	5.00	0.00	18.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading	9	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	270.00	61.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	696.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	54.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Underground Utilities	5	13.00	4.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3832	0.0000	1.3832	0.2094	0.0000	0.2094			0.0000			0.0000
Off-Road	0.5224	4.4768	5.9026	9.3700e-003		0.2403	0.2403		0.2331	0.2331		893.9036	893.9036	0.1298		897.1475
Total	0.5224	4.4768	5.9026	9.3700e-003	1.3832	0.2403	1.6235	0.2094	0.2331	0.4425		893.9036	893.9036	0.1298		897.1475

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0243	1.1268	0.2090	3.9000e-003	0.1047	9.0200e-003	0.1137	0.0287	8.6300e-003	0.0373		425.0651	425.0651	0.0170	0.0674	445.5704
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	0.0160	0.0112	0.1281	3.2000e-004	0.0380	2.1000e-004	0.0382	0.0101	1.9000e-004	0.0103		32.4890	32.4890	1.2400e-003	1.0800e-003	32.8430
Total	0.0403	1.1380	0.3371	4.2200e-003	0.1427	9.2300e-003	0.1519	0.0388	8.8200e-003	0.0476		457.5541	457.5541	0.0183	0.0685	478.4134

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6225	0.0000	0.6225	0.0943	0.0000	0.0943			0.0000			0.0000
Off-Road	0.5224	4.4768	5.9026	9.3700e-003		0.2403	0.2403		0.2331	0.2331	0.0000	893.9036	893.9036	0.1298		897.1475
Total	0.5224	4.4768	5.9026	9.3700e-003	0.6225	0.2403	0.8627	0.0943	0.2331	0.3273	0.0000	893.9036	893.9036	0.1298		897.1475

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0243	1.1268	0.2090	3.9000e-003	0.1047	9.0200e-003	0.1137	0.0287	8.6300e-003	0.0373		425.0651	425.0651	0.0170	0.0674	445.5704
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	0.0160	0.0112	0.1281	3.2000e-004	0.0380	2.1000e-004	0.0382	0.0101	1.9000e-004	0.0103		32.4890	32.4890	1.2400e-003	1.0800e-003	32.8430
Total	0.0403	1.1380	0.3371	4.2200e-003	0.1427	9.2300e-003	0.1519	0.0388	8.8200e-003	0.0476		457.5541	457.5541	0.0183	0.0685	478.4134

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.6986	37.0972	23.0565	0.0513		1.7585	1.7585		1.6179	1.6179		4,965.0472	4,965.0472	1.6058		5,005.1921
Total	3.6986	37.0972	23.0565	0.0513	19.6570	1.7585	21.4155	10.1025	1.6179	11.7203		4,965.0472	4,965.0472	1.6058		5,005.1921

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0640	0.0449	0.5124	1.2800e-003	0.1521	8.3000e-004	0.1530	0.0404	7.6000e-004	0.0411		129.9561	129.9561	4.9700e-003	4.3300e-003	131.3719
Total	0.0640	0.0449	0.5124	1.2800e-003	0.1521	8.3000e-004	0.1530	0.0404	7.6000e-004	0.0411		129.9561	129.9561	4.9700e-003	4.3300e-003	131.3719

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	3.6986	37.0972	23.0565	0.0513		1.7585	1.7585		1.6179	1.6179	0.0000	4,965.047 1	4,965.047 1	1.6058		5,005.192 1
Total	3.6986	37.0972	23.0565	0.0513	8.8457	1.7585	10.6042	4.5461	1.6179	6.1640	0.0000	4,965.047 1	4,965.047 1	1.6058		5,005.192 1

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0640	0.0449	0.5124	1.2800e-003	0.1521	8.3000e-004	0.1530	0.0404	7.6000e-004	0.0411		129.9561	129.9561	4.9700e-003	4.3300e-003	131.3719
Total	0.0640	0.0449	0.5124	1.2800e-003	0.1521	8.3000e-004	0.1530	0.0404	7.6000e-004	0.0411		129.9561	129.9561	4.9700e-003	4.3300e-003	131.3719

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	4.1532	42.8572	32.4002	0.0753		1.7808	1.7808		1.6384	1.6384		7,290.3958	7,290.3958	2.3579		7,349.3424
Total	4.1532	42.8572	32.4002	0.0753	9.2036	1.7808	10.9844	3.6538	1.6384	5.2921		7,290.3958	7,290.3958	2.3579		7,349.3424

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0736	0.0517	0.5893	1.4700e-003	0.1750	9.5000e-004	0.1759	0.0464	8.7000e-004	0.0473		149.4495	149.4495	5.7100e-003	4.9800e-003	151.0777
Total	0.0736	0.0517	0.5893	1.4700e-003	0.1750	9.5000e-004	0.1759	0.0464	8.7000e-004	0.0473		149.4495	149.4495	5.7100e-003	4.9800e-003	151.0777

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	4.1532	42.8572	32.4002	0.0753		1.7808	1.7808		1.6384	1.6384	0.0000	7,290.3958	7,290.3958	2.3579		7,349.3424
Total	4.1532	42.8572	32.4002	0.0753	4.1416	1.7808	5.9225	1.6442	1.6384	3.2826	0.0000	7,290.3958	7,290.3958	2.3579		7,349.3424

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0736	0.0517	0.5893	1.4700e-003	0.1750	9.5000e-004	0.1759	0.0464	8.7000e-004	0.0473		149.4495	149.4495	5.7100e-003	4.9800e-003	151.0777
Total	0.0736	0.0517	0.5893	1.4700e-003	0.1750	9.5000e-004	0.1759	0.0464	8.7000e-004	0.0473		149.4495	149.4495	5.7100e-003	4.9800e-003	151.0777

3.5 Underground Utilities - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0874	10.1601	10.9416	0.0243		0.4406	0.4406		0.4054	0.4054		2,347.6501	2,347.6501	0.7593		2,366.6321
Total	1.0874	10.1601	10.9416	0.0243		0.4406	0.4406		0.4054	0.4054		2,347.6501	2,347.6501	0.7593		2,366.6321

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Underground Utilities - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.5100e-003	0.2340	0.0685	7.9000e-004	0.0241	2.1300e-003	0.0262	6.9400e-003	2.0400e-003	8.9800e-003		84.6378	84.6378	2.2000e-003	0.0124	88.3931
Worker	0.0416	0.0292	0.3331	8.3000e-004	0.0989	5.4000e-004	0.0994	0.0262	4.9000e-004	0.0267		84.4715	84.4715	3.2300e-003	2.8200e-003	85.3918
Total	0.0501	0.2632	0.4016	1.6200e-003	0.1230	2.6700e-003	0.1257	0.0332	2.5300e-003	0.0357		169.1092	169.1092	5.4300e-003	0.0152	173.7848

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0874	10.1601	10.9416	0.0243		0.4406	0.4406		0.4054	0.4054	0.0000	2,347.6501	2,347.6501	0.7593		2,366.6321
Total	1.0874	10.1601	10.9416	0.0243		0.4406	0.4406		0.4054	0.4054	0.0000	2,347.6501	2,347.6501	0.7593		2,366.6321

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Underground Utilities - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.5100e-003	0.2340	0.0685	7.9000e-004	0.0241	2.1300e-003	0.0262	6.9400e-003	2.0400e-003	8.9800e-003		84.6378	84.6378	2.2000e-003	0.0124	88.3931
Worker	0.0416	0.0292	0.3331	8.3000e-004	0.0989	5.4000e-004	0.0994	0.0262	4.9000e-004	0.0267		84.4715	84.4715	3.2300e-003	2.8200e-003	85.3918
Total	0.0501	0.2632	0.4016	1.6200e-003	0.1230	2.6700e-003	0.1257	0.0332	2.5300e-003	0.0357		169.1092	169.1092	5.4300e-003	0.0152	173.7848

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.2579					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3607	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0625	2.9045	0.5388	0.0101	0.2698	0.0233	0.2930	0.0739	0.0222	0.0961		1,095.723 3	1,095.723 3	0.0439	0.1737	1,148.581 6
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	0.0480	0.0337	0.3843	9.6000e-004	0.1141	6.2000e-004	0.1147	0.0303	5.7000e-004	0.0308		97.4671	97.4671	3.7200e-003	3.2500e-003	98.5290
Total	0.1105	2.9382	0.9231	0.0110	0.3839	0.0239	0.4077	0.1042	0.0228	0.1270		1,193.190 3	1,193.190 3	0.0476	0.1769	1,247.110 5

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.2579					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3607	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0625	2.9045	0.5388	0.0101	0.2698	0.0233	0.2930	0.0739	0.0222	0.0961		1,095.723 3	1,095.723 3	0.0439	0.1737	1,148.581 6
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	0.0480	0.0337	0.3843	9.6000e-004	0.1141	6.2000e-004	0.1147	0.0303	5.7000e-004	0.0308		97.4671	97.4671	3.7200e-003	3.2500e-003	98.5290
Total	0.1105	2.9382	0.9231	0.0110	0.3839	0.0239	0.4077	0.1042	0.0228	0.1270		1,193.190 3	1,193.190 3	0.0476	0.1769	1,247.110 5

3.7 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1298	3.5688	1.0446	0.0120	0.3676	0.0325	0.4001	0.1058	0.0311	0.1369		1,290.726 1	1,290.726 1	0.0336	0.1894	1,347.994 5
Worker	0.8644	0.6065	6.9174	0.0173	2.0539	0.0112	2.0650	0.5448	0.0103	0.5551		1,754.407 0	1,754.407 0	0.0671	0.0585	1,773.521 1
Total	0.9942	4.1753	7.9620	0.0293	2.4214	0.0437	2.4651	0.6506	0.0414	0.6920		3,045.133 1	3,045.133 1	0.1007	0.2479	3,121.515 6

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1298	3.5688	1.0446	0.0120	0.3676	0.0325	0.4001	0.1058	0.0311	0.1369		1,290.726 1	1,290.726 1	0.0336	0.1894	1,347.994 5
Worker	0.8644	0.6065	6.9174	0.0173	2.0539	0.0112	2.0650	0.5448	0.0103	0.5551		1,754.407 0	1,754.407 0	0.0671	0.0585	1,773.521 1
Total	0.9942	4.1753	7.9620	0.0293	2.4214	0.0437	2.4651	0.6506	0.0414	0.6920		3,045.133 1	3,045.133 1	0.1007	0.2479	3,121.515 6

3.7 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0789	3.0357	0.9194	0.0116	0.3675	0.0160	0.3835	0.1058	0.0153	0.1210		1,247.637 3	1,247.637 3	0.0307	0.1832	1,302.995 5
Worker	0.8058	0.5364	6.4086	0.0167	2.0539	0.0106	2.0645	0.5448	9.7500e-003	0.5546		1,709.311 0	1,709.311 0	0.0607	0.0541	1,726.958 0
Total	0.8847	3.5721	7.3280	0.0283	2.4214	0.0265	2.4479	0.6506	0.0250	0.6756		2,956.948 2	2,956.948 2	0.0914	0.2373	3,029.953 6

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0789	3.0357	0.9194	0.0116	0.3675	0.0160	0.3835	0.1058	0.0153	0.1210		1,247.637 3	1,247.637 3	0.0307	0.1832	1,302.995 5
Worker	0.8058	0.5364	6.4086	0.0167	2.0539	0.0106	2.0645	0.5448	9.7500e-003	0.5546		1,709.311 0	1,709.311 0	0.0607	0.0541	1,726.958 0
Total	0.8847	3.5721	7.3280	0.0283	2.4214	0.0265	2.4479	0.6506	0.0250	0.6756		2,956.948 2	2,956.948 2	0.0914	0.2373	3,029.953 6

3.8 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	16.4285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	16.6202	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.1612	0.1073	1.2817	3.3400e-003	0.4108	2.1200e-003	0.4129	0.1090	1.9500e-003	0.1109		341.8622	341.8622	0.0122	0.0108	345.3916
Total	0.1612	0.1073	1.2817	3.3400e-003	0.4108	2.1200e-003	0.4129	0.1090	1.9500e-003	0.1109		341.8622	341.8622	0.0122	0.0108	345.3916

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	16.4285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	16.6202	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.1612	0.1073	1.2817	3.3400e-003	0.4108	2.1200e-003	0.4129	0.1090	1.9500e-003	0.1109		341.8622	341.8622	0.0122	0.0108	345.3916
Total	0.1612	0.1073	1.2817	3.3400e-003	0.4108	2.1200e-003	0.4129	0.1090	1.9500e-003	0.1109		341.8622	341.8622	0.0122	0.0108	345.3916

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartment Mid Rise	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Apartment Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Enclosed Parking Structure	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351
Enclosed Parking Structure	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351
General Office Building	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351
Other Asphalt Surfaces	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351
Parking Lot	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	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
Enclosed Parking Structure	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
General Office Building	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
Other Asphalt Surfaces	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	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
Enclosed Parking Structure	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
General Office Building	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
Other Asphalt Surfaces	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6405	0.2445	21.2292	1.1200e-003		0.1176	0.1176		0.1176	0.1176	0.0000	38.2536	38.2536	0.0368	0.0000	39.1744
Unmitigated	0.6405	0.2445	21.2292	1.1200e-003		0.1176	0.1176		0.1176	0.1176	0.0000	38.2536	38.2536	0.0368	0.0000	39.1744

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6405	0.2445	21.2292	1.1200e-003		0.1176	0.1176		0.1176	0.1176		38.2536	38.2536	0.0368		39.1744
Total	0.6405	0.2445	21.2292	1.1200e-003		0.1176	0.1176		0.1176	0.1176	0.0000	38.2536	38.2536	0.0368	0.0000	39.1744

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6405	0.2445	21.2292	1.1200e-003		0.1176	0.1176		0.1176	0.1176		38.2536	38.2536	0.0368		39.1744
Total	0.6405	0.2445	21.2292	1.1200e-003		0.1176	0.1176		0.1176	0.1176	0.0000	38.2536	38.2536	0.0368	0.0000	39.1744

7.0 Water Detail

7.1 Mitigation Measures Water

Broadstone Villas - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Broadstone Villas**
Sacramento County, Summer**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	6.06	1000sqft	0.14	6,063.00	0
Enclosed Parking Structure	6.00	Space	0.05	2,400.00	0
Other Asphalt Surfaces	101.80	1000sqft	2.34	101,800.00	0
Parking Lot	232.00	Space	2.09	92,800.00	0
Apartments Mid Rise	257.00	Dwelling Unit	13.82	406,836.00	686

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2024
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - This model is for construction only.

Land Use - Land use/area per site plan.

General Office Building = clubhouse

Construction Phase - Construction schedule per project applicant

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Demolition for concrete removal at 4 driveway connections, no structures.

Off-road Equipment - Off-Highway Truck = water truck.

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-road Equipment -

Off-road Equipment - Off-Highway Truck = water truck.

Off-road Equipment - Equipment for excavation/installation of underground utilities/storm drains.

Off-Highway Truck = water truck.

Grading - Grading 50,000 CY cut/fill balance on site.

Demolition - 93 CY concrete rubble estimated, 2 tons per CY.

Trips and VMT - Underground utilities vendor trips for aggregate/material delivery.

696 haul trips during paving for aggregate/asphalt/concrete delivery (estimated 348 loads).

Architectural Coating - interior/exterior flat coating VOC limit 50 g/L per SMAQMD Rule 442.

Vehicle Trips - Construction only this model.

Consumer Products - Construction only this model.

Area Coating - Construction only this model.

Energy Use - Construction only this model.

Water And Wastewater - Construction only this model.

Solid Waste - Construction only this model.

Construction Off-road Equipment Mitigation - Fugitive dust mitigation to meet requirements of SMAQMD BMPs.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	20.00	160.00
tblConstructionPhase	NumDays	300.00	323.00
tblConstructionPhase	NumDays	20.00	3.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	10.00	5.00
tblConsumerProducts	ROG_EF	2.14E-05	0

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	5.75	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	0.68	0.00
tblEnergyUse	T24E	98.18	0.00
tblEnergyUse	T24E	3.50	0.00
tblEnergyUse	T24E	4.44	0.00
tblEnergyUse	T24NG	6,729.23	0.00
tblEnergyUse	T24NG	12.30	0.00
tblLandUse	LandUseSquareFeet	6,060.00	6,063.00
tblLandUse	LandUseSquareFeet	257,000.00	406,836.00
tblLandUse	LotAcreage	6.76	13.82
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	118.22	0.00
tblSolidWaste	SolidWasteGenerationRate	5.64	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	696.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblVehicleTrips	ST_TR	4.91	0.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	SU_TR	4.09	0.00
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	WD_TR	5.44	0.00
tblVehicleTrips	WD_TR	9.74	0.00

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblWater	IndoorWaterUseRate	16,744,584.58	0.00
tblWater	IndoorWaterUseRate	1,077,066.51	0.00
tblWater	OutdoorWaterUseRate	10,556,368.54	0.00
tblWater	OutdoorWaterUseRate	660,137.54	0.00

2.0 Emissions Summary

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.2366	42.8993	33.0805	0.0769	19.8092	1.7818	21.5685	10.1428	1.6393	11.7614	0.0000	7,458.468 7	7,458.468 7	2.3629	0.2400	7,518.834 3
2023	19.3663	19.0370	27.7644	0.0641	2.8322	0.7990	3.6312	0.7596	0.7560	1.5156	0.0000	6,389.306 0	6,389.306 0	0.7188	0.2394	6,478.611 6
Maximum	19.3663	42.8993	33.0805	0.0769	19.8092	1.7818	21.5685	10.1428	1.6393	11.7614	0.0000	7,458.468 7	7,458.468 7	2.3629	0.2400	7,518.834 3

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.2366	42.8993	33.0805	0.0769	8.9978	1.7818	10.7572	4.5865	1.6393	6.2051	0.0000	7,458.468 7	7,458.468 7	2.3629	0.2400	7,518.834 3
2023	19.3663	19.0370	27.7644	0.0641	2.8322	0.7990	3.6312	0.7596	0.7560	1.5156	0.0000	6,389.306 0	6,389.306 0	0.7188	0.2394	6,478.611 6
Maximum	19.3663	42.8993	33.0805	0.0769	8.9978	1.7818	10.7572	4.5865	1.6393	6.2051	0.0000	7,458.468 7	7,458.468 7	2.3629	0.2400	7,518.834 3

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	47.75	0.00	42.90	50.96	0.00	41.85	0.00	0.00	0.00	0.00	0.00	0.00

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6405	0.2445	21.2292	1.1200e-003		0.1176	0.1176		0.1176	0.1176	0.0000	38.2536	38.2536	0.0368	0.0000	39.1744
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	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	0.6405	0.2445	21.2292	1.1200e-003	0.0000	0.1176	0.1176	0.0000	0.1176	0.1176	0.0000	38.2536	38.2536	0.0368	0.0000	39.1744

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6405	0.2445	21.2292	1.1200e-003		0.1176	0.1176		0.1176	0.1176	0.0000	38.2536	38.2536	0.0368	0.0000	39.1744
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	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	0.6405	0.2445	21.2292	1.1200e-003	0.0000	0.1176	0.1176	0.0000	0.1176	0.1176	0.0000	38.2536	38.2536	0.0368	0.0000	39.1744

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2022	1/5/2022	5	3	
2	Site Preparation	Site Preparation	1/6/2022	1/12/2022	5	5	
3	Grading	Grading	1/13/2022	2/9/2022	5	20	
4	Underground Utilities	Trenching	2/10/2022	4/8/2022	5	42	
5	Paving	Paving	4/9/2022	6/11/2022	5	45	
6	Building Construction	Building Construction	6/12/2022	9/6/2023	5	323	
7	Architectural Coating	Architectural Coating	1/26/2023	9/6/2023	5	160	

Acres of Grading (Site Preparation Phase): 7.5**Acres of Grading (Grading Phase): 60****Acres of Paving: 4.48****Residential Indoor: 823,843; Residential Outdoor: 274,614; Non-Residential Indoor: 9,095; Non-Residential Outdoor: 3,032; Striped Parking Area: 11,820 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Off-Highway Trucks	1	8.00	402	0.38
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
Underground Utilities	Excavators	1	8.00	158	0.38
Underground Utilities	Off-Highway Trucks	1	4.00	402	0.38
Underground Utilities	Rubber Tired Loaders	1	8.00	203	0.36
Underground Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	2	5.00	0.00	18.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading	9	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	270.00	61.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	696.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	54.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Underground Utilities	5	13.00	4.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3832	0.0000	1.3832	0.2094	0.0000	0.2094			0.0000			0.0000
Off-Road	0.5224	4.4768	5.9026	9.3700e-003		0.2403	0.2403		0.2331	0.2331		893.9036	893.9036	0.1298		897.1475
Total	0.5224	4.4768	5.9026	9.3700e-003	1.3832	0.2403	1.6235	0.2094	0.2331	0.4425		893.9036	893.9036	0.1298		897.1475

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0249	1.0431	0.2048	3.9000e-003	0.1047	8.9900e-003	0.1136	0.0287	8.6000e-003	0.0373		425.0038	425.0038	0.0171	0.0674	445.5061
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	0.0181	9.1500e-003	0.1479	3.6000e-004	0.0380	2.1000e-004	0.0382	0.0101	1.9000e-004	0.0103		36.5376	36.5376	1.0800e-003	9.4000e-004	36.8461
Total	0.0430	1.0522	0.3527	4.2600e-003	0.1427	9.2000e-003	0.1519	0.0388	8.7900e-003	0.0475		461.5414	461.5414	0.0182	0.0683	482.3522

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6225	0.0000	0.6225	0.0943	0.0000	0.0943			0.0000			0.0000
Off-Road	0.5224	4.4768	5.9026	9.3700e-003		0.2403	0.2403		0.2331	0.2331	0.0000	893.9036	893.9036	0.1298		897.1475
Total	0.5224	4.4768	5.9026	9.3700e-003	0.6225	0.2403	0.8627	0.0943	0.2331	0.3273	0.0000	893.9036	893.9036	0.1298		897.1475

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0249	1.0431	0.2048	3.9000e-003	0.1047	8.9900e-003	0.1136	0.0287	8.6000e-003	0.0373		425.0038	425.0038	0.0171	0.0674	445.5061
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	0.0181	9.1500e-003	0.1479	3.6000e-004	0.0380	2.1000e-004	0.0382	0.0101	1.9000e-004	0.0103		36.5376	36.5376	1.0800e-003	9.4000e-004	36.8461
Total	0.0430	1.0522	0.3527	4.2600e-003	0.1427	9.2000e-003	0.1519	0.0388	8.7900e-003	0.0475		461.5414	461.5414	0.0182	0.0683	482.3522

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.6986	37.0972	23.0565	0.0513		1.7585	1.7585		1.6179	1.6179		4,965.0472	4,965.0472	1.6058		5,005.1921
Total	3.6986	37.0972	23.0565	0.0513	19.6570	1.7585	21.4155	10.1025	1.6179	11.7203		4,965.0472	4,965.0472	1.6058		5,005.1921

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0725	0.0366	0.5915	1.4400e-003	0.1521	8.3000e-004	0.1530	0.0404	7.6000e-004	0.0411		146.1503	146.1503	4.3400e-003	3.7800e-003	147.3843
Total	0.0725	0.0366	0.5915	1.4400e-003	0.1521	8.3000e-004	0.1530	0.0404	7.6000e-004	0.0411		146.1503	146.1503	4.3400e-003	3.7800e-003	147.3843

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	3.6986	37.0972	23.0565	0.0513		1.7585	1.7585		1.6179	1.6179	0.0000	4,965.047 1	4,965.047 1	1.6058		5,005.192 1
Total	3.6986	37.0972	23.0565	0.0513	8.8457	1.7585	10.6042	4.5461	1.6179	6.1640	0.0000	4,965.047 1	4,965.047 1	1.6058		5,005.192 1

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0725	0.0366	0.5915	1.4400e-003	0.1521	8.3000e-004	0.1530	0.0404	7.6000e-004	0.0411		146.1503	146.1503	4.3400e-003	3.7800e-003	147.3843
Total	0.0725	0.0366	0.5915	1.4400e-003	0.1521	8.3000e-004	0.1530	0.0404	7.6000e-004	0.0411		146.1503	146.1503	4.3400e-003	3.7800e-003	147.3843

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	4.1532	42.8572	32.4002	0.0753		1.7808	1.7808		1.6384	1.6384		7,290.3958	7,290.3958	2.3579		7,349.3424
Total	4.1532	42.8572	32.4002	0.0753	9.2036	1.7808	10.9844	3.6538	1.6384	5.2921		7,290.3958	7,290.3958	2.3579		7,349.3424

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0833	0.0421	0.6803	1.6500e-003	0.1750	9.5000e-004	0.1759	0.0464	8.7000e-004	0.0473		168.0729	168.0729	4.9900e-003	4.3400e-003	169.4919
Total	0.0833	0.0421	0.6803	1.6500e-003	0.1750	9.5000e-004	0.1759	0.0464	8.7000e-004	0.0473		168.0729	168.0729	4.9900e-003	4.3400e-003	169.4919

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	4.1532	42.8572	32.4002	0.0753		1.7808	1.7808		1.6384	1.6384	0.0000	7,290.3958	7,290.3958	2.3579		7,349.3424
Total	4.1532	42.8572	32.4002	0.0753	4.1416	1.7808	5.9225	1.6442	1.6384	3.2826	0.0000	7,290.3958	7,290.3958	2.3579		7,349.3424

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0833	0.0421	0.6803	1.6500e-003	0.1750	9.5000e-004	0.1759	0.0464	8.7000e-004	0.0473		168.0729	168.0729	4.9900e-003	4.3400e-003	169.4919
Total	0.0833	0.0421	0.6803	1.6500e-003	0.1750	9.5000e-004	0.1759	0.0464	8.7000e-004	0.0473		168.0729	168.0729	4.9900e-003	4.3400e-003	169.4919

3.5 Underground Utilities - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0874	10.1601	10.9416	0.0243		0.4406	0.4406		0.4054	0.4054		2,347.6501	2,347.6501	0.7593		2,366.6321
Total	1.0874	10.1601	10.9416	0.0243		0.4406	0.4406		0.4054	0.4054		2,347.6501	2,347.6501	0.7593		2,366.6321

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Underground Utilities - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.6500e-003	0.2179	0.0656	7.9000e-004	0.0241	2.1200e-003	0.0262	6.9400e-003	2.0200e-003	8.9600e-003		84.6477	84.6477	2.2100e-003	0.0124	88.3970
Worker	0.0471	0.0238	0.3845	9.3000e-004	0.0989	5.4000e-004	0.0994	0.0262	4.9000e-004	0.0267		94.9977	94.9977	2.8200e-003	2.4500e-003	95.7998
Total	0.0558	0.2417	0.4501	1.7200e-003	0.1230	2.6600e-003	0.1257	0.0332	2.5100e-003	0.0357		179.6454	179.6454	5.0300e-003	0.0149	184.1968

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0874	10.1601	10.9416	0.0243		0.4406	0.4406		0.4054	0.4054	0.0000	2,347.6501	2,347.6501	0.7593		2,366.6321
Total	1.0874	10.1601	10.9416	0.0243		0.4406	0.4406		0.4054	0.4054	0.0000	2,347.6501	2,347.6501	0.7593		2,366.6321

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Underground Utilities - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.6500e-003	0.2179	0.0656	7.9000e-004	0.0241	2.1200e-003	0.0262	6.9400e-003	2.0200e-003	8.9600e-003		84.6477	84.6477	2.2100e-003	0.0124	88.3970
Worker	0.0471	0.0238	0.3845	9.3000e-004	0.0989	5.4000e-004	0.0994	0.0262	4.9000e-004	0.0267		94.9977	94.9977	2.8200e-003	2.4500e-003	95.7998
Total	0.0558	0.2417	0.4501	1.7200e-003	0.1230	2.6600e-003	0.1257	0.0332	2.5100e-003	0.0357		179.6454	179.6454	5.0300e-003	0.0149	184.1968

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.2579					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3607	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0643	2.6888	0.5279	0.0101	0.2698	0.0232	0.2930	0.0739	0.0222	0.0961		1,095.565 4	1,095.565 4	0.0440	0.1737	1,148.415 8
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	0.0544	0.0275	0.4436	1.0800e- 003	0.1141	6.2000e- 004	0.1147	0.0303	5.7000e- 004	0.0308		109.6128	109.6128	3.2500e- 003	2.8300e- 003	110.5382
Total	0.1186	2.7162	0.9716	0.0111	0.3839	0.0238	0.4077	0.1042	0.0227	0.1269		1,205.178 2	1,205.178 2	0.0473	0.1765	1,258.954 0

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.2579					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3607	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0643	2.6888	0.5279	0.0101	0.2698	0.0232	0.2930	0.0739	0.0222	0.0961		1,095.565 4	1,095.565 4	0.0440	0.1737	1,148.415 8
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	0.0544	0.0275	0.4436	1.0800e- 003	0.1141	6.2000e- 004	0.1147	0.0303	5.7000e- 004	0.0308		109.6128	109.6128	3.2500e- 003	2.8300e- 003	110.5382
Total	0.1186	2.7162	0.9716	0.0111	0.3839	0.0238	0.4077	0.1042	0.0227	0.1269		1,205.178 2	1,205.178 2	0.0473	0.1765	1,258.954 0

3.7 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1320	3.3227	1.0004	0.0120	0.3676	0.0323	0.3998	0.1058	0.0309	0.1367		1,290.876 8	1,290.876 8	0.0337	0.1890	1,348.054 3
Worker	0.9783	0.4940	7.9855	0.0194	2.0539	0.0112	2.0650	0.5448	0.0103	0.5551		1,973.029 5	1,973.029 5	0.0586	0.0510	1,989.687 7
Total	1.1103	3.8168	8.9859	0.0314	2.4214	0.0434	2.4649	0.6506	0.0411	0.6918		3,263.906 3	3,263.906 3	0.0923	0.2400	3,337.742 0

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1320	3.3227	1.0004	0.0120	0.3676	0.0323	0.3998	0.1058	0.0309	0.1367		1,290.876 8	1,290.876 8	0.0337	0.1890	1,348.054 3
Worker	0.9783	0.4940	7.9855	0.0194	2.0539	0.0112	2.0650	0.5448	0.0103	0.5551		1,973.029 5	1,973.029 5	0.0586	0.0510	1,989.687 7
Total	1.1103	3.8168	8.9859	0.0314	2.4214	0.0434	2.4649	0.6506	0.0411	0.6918		3,263.906 3	3,263.906 3	0.0923	0.2400	3,337.742 0

3.7 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0816	2.8245	0.8793	0.0116	0.3675	0.0158	0.3833	0.1058	0.0151	0.1209		1,246.743 7	1,246.743 7	0.0308	0.1828	1,301.975 0
Worker	0.9098	0.4371	7.3583	0.0188	2.0539	0.0106	2.0645	0.5448	9.7500e-003	0.5546		1,921.587 0	1,921.587 0	0.0527	0.0472	1,936.968 0
Total	0.9914	3.2617	8.2376	0.0304	2.4214	0.0264	2.4478	0.6506	0.0248	0.6754		3,168.330 7	3,168.330 7	0.0835	0.2300	3,238.942 9

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0816	2.8245	0.8793	0.0116	0.3675	0.0158	0.3833	0.1058	0.0151	0.1209		1,246.7437	1,246.7437	0.0308	0.1828	1,301.9750
Worker	0.9098	0.4371	7.3583	0.0188	2.0539	0.0106	2.0645	0.5448	9.7500e-003	0.5546		1,921.5870	1,921.5870	0.0527	0.0472	1,936.9680
Total	0.9914	3.2617	8.2376	0.0304	2.4214	0.0264	2.4478	0.6506	0.0248	0.6754		3,168.3307	3,168.3307	0.0835	0.2300	3,238.9429

3.8 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	16.4285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	16.6202	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.1820	0.0874	1.4717	3.7600e-003	0.4108	2.1200e-003	0.4129	0.1090	1.9500e-003	0.1109		384.3174	384.3174	0.0106	9.4400e-003	387.3936
Total	0.1820	0.0874	1.4717	3.7600e-003	0.4108	2.1200e-003	0.4129	0.1090	1.9500e-003	0.1109		384.3174	384.3174	0.0106	9.4400e-003	387.3936

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	16.4285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	16.6202	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.1820	0.0874	1.4717	3.7600e-003	0.4108	2.1200e-003	0.4129	0.1090	1.9500e-003	0.1109		384.3174	384.3174	0.0106	9.4400e-003	387.3936
Total	0.1820	0.0874	1.4717	3.7600e-003	0.4108	2.1200e-003	0.4129	0.1090	1.9500e-003	0.1109		384.3174	384.3174	0.0106	9.4400e-003	387.3936

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartment Mid Rise	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Apartment Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Enclosed Parking Structure	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351
Enclosed Parking Structure	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351
General Office Building	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351
Other Asphalt Surfaces	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351
Parking Lot	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	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
Enclosed Parking Structure	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
General Office Building	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
Other Asphalt Surfaces	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.2 Energy by Land Use - NaturalGas****Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	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
Enclosed Parking Structure	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
General Office Building	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
Other Asphalt Surfaces	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6405	0.2445	21.2292	1.1200e-003		0.1176	0.1176		0.1176	0.1176	0.0000	38.2536	38.2536	0.0368	0.0000	39.1744
Unmitigated	0.6405	0.2445	21.2292	1.1200e-003		0.1176	0.1176		0.1176	0.1176	0.0000	38.2536	38.2536	0.0368	0.0000	39.1744

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6405	0.2445	21.2292	1.1200e-003		0.1176	0.1176		0.1176	0.1176		38.2536	38.2536	0.0368		39.1744
Total	0.6405	0.2445	21.2292	1.1200e-003		0.1176	0.1176		0.1176	0.1176	0.0000	38.2536	38.2536	0.0368	0.0000	39.1744

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6405	0.2445	21.2292	1.1200e-003		0.1176	0.1176		0.1176	0.1176		38.2536	38.2536	0.0368		39.1744
Total	0.6405	0.2445	21.2292	1.1200e-003		0.1176	0.1176		0.1176	0.1176	0.0000	38.2536	38.2536	0.0368	0.0000	39.1744

7.0 Water Detail

7.1 Mitigation Measures Water

Broadstone Villas - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Broadstone Villas
Sacramento County, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	6.06	1000sqft	0.14	6,063.00	0
Enclosed Parking Structure	6.00	Space	0.05	2,400.00	0
Other Asphalt Surfaces	101.80	1000sqft	2.34	101,800.00	0
Parking Lot	232.00	Space	2.09	92,800.00	0
Apartments Mid Rise	257.00	Dwelling Unit	13.82	406,836.00	686

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2024
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - This model is for construction only.

Land Use - Land use/area per site plan.

General Office Building = clubhouse

Construction Phase - Construction schedule per project applicant

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Demolition for concrete removal at 4 driveway connections, no structures.

Off-road Equipment - Off-Highway Truck = water truck.

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-road Equipment -

Off-road Equipment - Off-Highway Truck = water truck.

Off-road Equipment - Equipment for excavation/installation of underground utilities/storm drains.

Off-Highway Truck = water truck.

Grading - Grading 50,000 CY cut/fill balance on site.

Demolition - 93 CY concrete rubble estimated, 2 tons per CY.

Trips and VMT - Underground utilities vendor trips for aggregate/material delivery.

696 haul trips during paving for aggregate/asphalt/concrete delivery (estimated 348 loads).

Architectural Coating - interior/exterior flat coating VOC limit 50 g/L per SMAQMD Rule 442.

Vehicle Trips - Construction only this model.

Consumer Products - Construction only this model.

Area Coating - Construction only this model.

Energy Use - Construction only this model.

Water And Wastewater - Construction only this model.

Solid Waste - Construction only this model.

Construction Off-road Equipment Mitigation - Fugitive dust mitigation to meet requirements of SMAQMD BMPs.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	20.00	160.00
tblConstructionPhase	NumDays	300.00	323.00
tblConstructionPhase	NumDays	20.00	3.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	10.00	5.00
tblConsumerProducts	ROG_EF	2.14E-05	0

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	3.71	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	5.75	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	0.68	0.00
tblEnergyUse	T24E	98.18	0.00
tblEnergyUse	T24E	3.50	0.00
tblEnergyUse	T24E	4.44	0.00
tblEnergyUse	T24NG	6,729.23	0.00
tblEnergyUse	T24NG	12.30	0.00
tblLandUse	LandUseSquareFeet	6,060.00	6,063.00
tblLandUse	LandUseSquareFeet	257,000.00	406,836.00
tblLandUse	LotAcreage	6.76	13.82
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	118.22	0.00
tblSolidWaste	SolidWasteGenerationRate	5.64	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	696.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblVehicleTrips	ST_TR	4.91	0.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	SU_TR	4.09	0.00
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	WD_TR	5.44	0.00
tblVehicleTrips	WD_TR	9.74	0.00

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblWater	IndoorWaterUseRate	16,744,584.58	0.00
tblWater	IndoorWaterUseRate	1,077,066.51	0.00
tblWater	OutdoorWaterUseRate	10,556,368.54	0.00
tblWater	OutdoorWaterUseRate	660,137.54	0.00

2.0 Emissions Summary

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3029	2.4893	2.7387	6.3300e-003	0.3260	0.1070	0.4331	0.1114	0.0998	0.2112	0.0000	569.6691	569.6691	0.1019	0.0201	578.1901
2023	1.5580	1.6994	2.3313	5.4700e-003	0.2400	0.0705	0.3105	0.0646	0.0666	0.1312	0.0000	494.4564	494.4564	0.0581	0.0196	501.7335
Maximum	1.5580	2.4893	2.7387	6.3300e-003	0.3260	0.1070	0.4331	0.1114	0.0998	0.2112	0.0000	569.6691	569.6691	0.1019	0.0201	578.1901

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3029	2.4893	2.7387	6.3300e-003	0.2473	0.1070	0.3543	0.0772	0.0998	0.1770	0.0000	569.6687	569.6687	0.1019	0.0201	578.1897
2023	1.5580	1.6994	2.3313	5.4700e-003	0.2400	0.0705	0.3105	0.0646	0.0666	0.1312	0.0000	494.4561	494.4561	0.0581	0.0196	501.7333
Maximum	1.5580	2.4893	2.7387	6.3300e-003	0.2473	0.1070	0.3543	0.0772	0.0998	0.1770	0.0000	569.6687	569.6687	0.1019	0.0201	578.1897

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	13.92	0.00	10.60	19.41	0.00	9.98	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	1-3-2022	4-2-2022	0.7949	0.7949
2	4-3-2022	7-2-2022	0.5418	0.5418
3	7-3-2022	10-2-2022	0.7312	0.7312
4	10-3-2022	1-2-2023	0.7375	0.7375
5	1-3-2023	4-2-2023	1.0913	1.0913
6	4-3-2023	7-2-2023	1.2481	1.2481
7	7-3-2023	9-30-2023	0.9052	0.9052
		Highest	1.2481	1.2481

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0801	0.0306	2.6537	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3379	4.3379	4.1800e-003	0.0000	4.4423
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0801	0.0306	2.6537	1.4000e-004	0.0000	0.0147	0.0147	0.0000	0.0147	0.0147	0.0000	4.3379	4.3379	4.1800e-003	0.0000	4.4423

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0801	0.0306	2.6537	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3379	4.3379	4.1800e-003	0.0000	4.4423
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0801	0.0306	2.6537	1.4000e-004	0.0000	0.0147	0.0147	0.0000	0.0147	0.0147	0.0000	4.3379	4.3379	4.1800e-003	0.0000	4.4423

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2022	1/5/2022	5	3	
2	Site Preparation	Site Preparation	1/6/2022	1/12/2022	5	5	
3	Grading	Grading	1/13/2022	2/9/2022	5	20	

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4	Underground Utilities	Trenching	2/10/2022	4/8/2022	5	42
5	Paving	Paving	4/9/2022	6/11/2022	5	45
6	Building Construction	Building Construction	6/12/2022	9/6/2023	5	323
7	Architectural Coating	Architectural Coating	1/26/2023	9/6/2023	5	160

Acres of Grading (Site Preparation Phase): 7.5**Acres of Grading (Grading Phase): 60****Acres of Paving: 4.48**

Residential Indoor: 823,843; Residential Outdoor: 274,614; Non-Residential Indoor: 9,095; Non-Residential Outdoor: 3,032; Striped Parking Area: 11,820 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Off-Highway Trucks	1	8.00	402	0.38
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

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
Underground Utilities	Excavators	1	8.00	158	0.38
Underground Utilities	Off-Highway Trucks	1	4.00	402	0.38
Underground Utilities	Rubber Tired Loaders	1	8.00	203	0.36
Underground Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	2	5.00	0.00	18.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	270.00	61.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	696.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	54.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Underground Utilities	5	13.00	4.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0700e-003	0.0000	2.0700e-003	3.1000e-004	0.0000	3.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.8000e-004	6.7200e-003	8.8500e-003	1.0000e-005		3.6000e-004	3.6000e-004		3.5000e-004	3.5000e-004	0.0000	1.2164	1.2164	1.8000e-004	0.0000	1.2208
Total	7.8000e-004	6.7200e-003	8.8500e-003	1.0000e-005	2.0700e-003	3.6000e-004	2.4300e-003	3.1000e-004	3.5000e-004	6.6000e-004	0.0000	1.2164	1.2164	1.8000e-004	0.0000	1.2208

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.6600e-003	3.1000e-004	1.0000e-005	1.5000e-004	1.0000e-005	1.7000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5784	0.5784	2.0000e-005	9.0000e-005	0.6063
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	2.0000e-005	2.0000e-005	1.9000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0454	0.0454	0.0000	0.0000	0.0458
Total	6.0000e-005	1.6800e-003	5.0000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.3000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.6237	0.6237	2.0000e-005	9.0000e-005	0.6521

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.3000e-004	0.0000	9.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.8000e-004	6.7200e-003	8.8500e-003	1.0000e-005		3.6000e-004	3.6000e-004		3.5000e-004	3.5000e-004	0.0000	1.2164	1.2164	1.8000e-004	0.0000	1.2208
Total	7.8000e-004	6.7200e-003	8.8500e-003	1.0000e-005	9.3000e-004	3.6000e-004	1.2900e-003	1.4000e-004	3.5000e-004	4.9000e-004	0.0000	1.2164	1.2164	1.8000e-004	0.0000	1.2208

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.6600e-003	3.1000e-004	1.0000e-005	1.5000e-004	1.0000e-005	1.7000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5784	0.5784	2.0000e-005	9.0000e-005	0.6063
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	2.0000e-005	2.0000e-005	1.9000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0454	0.0454	0.0000	0.0000	0.0458
Total	6.0000e-005	1.6800e-003	5.0000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.3000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.6237	0.6237	2.0000e-005	9.0000e-005	0.6521

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2500e-003	0.0927	0.0576	1.3000e-004		4.4000e-003	4.4000e-003		4.0400e-003	4.0400e-003	0.0000	11.2605	11.2605	3.6400e-003	0.0000	11.3516
Total	9.2500e-003	0.0927	0.0576	1.3000e-004	0.0491	4.4000e-003	0.0535	0.0253	4.0400e-003	0.0293	0.0000	11.2605	11.2605	3.6400e-003	0.0000	11.3516

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.2600e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3024	0.3024	1.0000e-005	1.0000e-005	0.3054
Total	1.5000e-004	1.0000e-004	1.2600e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3024	0.3024	1.0000e-005	1.0000e-005	0.3054

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0221	0.0000	0.0221	0.0114	0.0000	0.0114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2500e-003	0.0927	0.0576	1.3000e-004		4.4000e-003	4.4000e-003		4.0400e-003	4.0400e-003	0.0000	11.2605	11.2605	3.6400e-003	0.0000	11.3516
Total	9.2500e-003	0.0927	0.0576	1.3000e-004	0.0221	4.4000e-003	0.0265	0.0114	4.0400e-003	0.0154	0.0000	11.2605	11.2605	3.6400e-003	0.0000	11.3516

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.2600e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3024	0.3024	1.0000e-005	1.0000e-005	0.3054
Total	1.5000e-004	1.0000e-004	1.2600e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3024	0.3024	1.0000e-005	1.0000e-005	0.3054

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0920	0.0000	0.0920	0.0365	0.0000	0.0365	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0415	0.4286	0.3240	7.5000e-004		0.0178	0.0178		0.0164	0.0164	0.0000	66.1374	66.1374	0.0214	0.0000	66.6721
Total	0.0415	0.4286	0.3240	7.5000e-004	0.0920	0.0178	0.1099	0.0365	0.0164	0.0529	0.0000	66.1374	66.1374	0.0214	0.0000	66.6721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	4.6000e-004	5.8000e-003	2.0000e-005	1.6900e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.3910	1.3910	5.0000e-005	4.0000e-005	1.4046
Total	7.1000e-004	4.6000e-004	5.8000e-003	2.0000e-005	1.6900e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.3910	1.3910	5.0000e-005	4.0000e-005	1.4046

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0414	0.0000	0.0414	0.0164	0.0000	0.0164	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0415	0.4286	0.3240	7.5000e-004		0.0178	0.0178		0.0164	0.0164	0.0000	66.1373	66.1373	0.0214	0.0000	66.6720
Total	0.0415	0.4286	0.3240	7.5000e-004	0.0414	0.0178	0.0592	0.0164	0.0164	0.0328	0.0000	66.1373	66.1373	0.0214	0.0000	66.6720

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	4.6000e-004	5.8000e-003	2.0000e-005	1.6900e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.3910	1.3910	5.0000e-005	4.0000e-005	1.4046
Total	7.1000e-004	4.6000e-004	5.8000e-003	2.0000e-005	1.6900e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.3910	1.3910	5.0000e-005	4.0000e-005	1.4046

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Underground Utilities - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0228	0.2134	0.2298	5.1000e-004		9.2500e-003	9.2500e-003		8.5100e-003	8.5100e-003	0.0000	44.7248	44.7248	0.0145	0.0000	45.0864
Total	0.0228	0.2134	0.2298	5.1000e-004		9.2500e-003	9.2500e-003		8.5100e-003	8.5100e-003	0.0000	44.7248	44.7248	0.0145	0.0000	45.0864

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	4.8200e-003	1.4000e-003	2.0000e-005	4.9000e-004	4.0000e-005	5.4000e-004	1.4000e-004	4.0000e-005	1.8000e-004	0.0000	1.6125	1.6125	4.0000e-005	2.4000e-004	1.6840
Worker	8.4000e-004	5.5000e-004	6.8900e-003	2.0000e-005	2.0100e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6510	1.6510	6.0000e-005	5.0000e-005	1.6672
Total	1.0200e-003	5.3700e-003	8.2900e-003	4.0000e-005	2.5000e-003	5.0000e-005	2.5600e-003	6.7000e-004	5.0000e-005	7.2000e-004	0.0000	3.2636	3.2636	1.0000e-004	2.9000e-004	3.3513

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Underground Utilities - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0228	0.2134	0.2298	5.1000e-004		9.2500e-003	9.2500e-003		8.5100e-003	8.5100e-003	0.0000	44.7248	44.7248	0.0145	0.0000	45.0864
Total	0.0228	0.2134	0.2298	5.1000e-004		9.2500e-003	9.2500e-003		8.5100e-003	8.5100e-003	0.0000	44.7248	44.7248	0.0145	0.0000	45.0864

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	4.8200e-003	1.4000e-003	2.0000e-005	4.9000e-004	4.0000e-005	5.4000e-004	1.4000e-004	4.0000e-005	1.8000e-004	0.0000	1.6125	1.6125	4.0000e-005	2.4000e-004	1.6840
Worker	8.4000e-004	5.5000e-004	6.8900e-003	2.0000e-005	2.0100e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6510	1.6510	6.0000e-005	5.0000e-005	1.6672
Total	1.0200e-003	5.3700e-003	8.2900e-003	4.0000e-005	2.5000e-003	5.0000e-005	2.5600e-003	6.7000e-004	5.0000e-005	7.2000e-004	0.0000	3.2636	3.2636	1.0000e-004	2.9000e-004	3.3513

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0248	0.2503	0.3281	5.1000e-004		0.0128	0.0128		0.0118	0.0118	0.0000	45.0620	45.0620	0.0146	0.0000	45.4264
Paving	5.8000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0306	0.2503	0.3281	5.1000e-004		0.0128	0.0128		0.0118	0.0118	0.0000	45.0620	45.0620	0.0146	0.0000	45.4264

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4300e-003	0.0641	0.0120	2.3000e-004	5.8900e-003	5.2000e-004	6.4100e-003	1.6200e-003	5.0000e-004	2.1200e-003	0.0000	22.3637	22.3637	9.0000e-004	3.5500e-003	23.4425
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0400e-003	6.8000e-004	8.5100e-003	2.0000e-005	2.4800e-003	1.0000e-005	2.4900e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	2.0411	2.0411	7.0000e-005	6.0000e-005	2.0612
Total	2.4700e-003	0.0648	0.0205	2.5000e-004	8.3700e-003	5.3000e-004	8.9000e-003	2.2800e-003	5.1000e-004	2.7900e-003	0.0000	24.4048	24.4048	9.7000e-004	3.6100e-003	25.5037

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0248	0.2503	0.3281	5.1000e-004		0.0128	0.0128		0.0118	0.0118	0.0000	45.0620	45.0620	0.0146	0.0000	45.4263
Paving	5.8000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0306	0.2503	0.3281	5.1000e-004		0.0128	0.0128		0.0118	0.0118	0.0000	45.0620	45.0620	0.0146	0.0000	45.4263

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4300e-003	0.0641	0.0120	2.3000e-004	5.8900e-003	5.2000e-004	6.4100e-003	1.6200e-003	5.0000e-004	2.1200e-003	0.0000	22.3637	22.3637	9.0000e-004	3.5500e-003	23.4425
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0400e-003	6.8000e-004	8.5100e-003	2.0000e-005	2.4800e-003	1.0000e-005	2.4900e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	2.0411	2.0411	7.0000e-005	6.0000e-005	2.0612
Total	2.4700e-003	0.0648	0.0205	2.5000e-004	8.3700e-003	5.3000e-004	8.9000e-003	2.2800e-003	5.1000e-004	2.7900e-003	0.0000	24.4048	24.4048	9.7000e-004	3.6100e-003	25.5037

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1237	1.1321	1.1864	1.9500e-003		0.0587	0.0587		0.0552	0.0552	0.0000	168.0008	168.0008	0.0403	0.0000	169.0070
Total	0.1237	1.1321	1.1864	1.9500e-003		0.0587	0.0587		0.0552	0.0552	0.0000	168.0008	168.0008	0.0403	0.0000	169.0070

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.4200e-003	0.2538	0.0739	8.7000e-004	0.0259	2.3500e-003	0.0282	7.4800e-003	2.2400e-003	9.7300e-003	0.0000	84.8976	84.8976	2.2200e-003	0.0125	88.6619
Worker	0.0603	0.0393	0.4938	1.2800e-003	0.1438	8.1000e-004	0.1446	0.0382	7.4000e-004	0.0390	0.0000	118.3842	118.3842	4.0400e-003	3.5600e-003	119.5469
Total	0.0697	0.2931	0.5677	2.1500e-003	0.1697	3.1600e-003	0.1728	0.0457	2.9800e-003	0.0487	0.0000	203.2818	203.2818	6.2600e-003	0.0160	208.2089

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1237	1.1321	1.1864	1.9500e-003		0.0587	0.0587		0.0552	0.0552	0.0000	168.0006	168.0006	0.0403	0.0000	169.0068
Total	0.1237	1.1321	1.1864	1.9500e-003		0.0587	0.0587		0.0552	0.0552	0.0000	168.0006	168.0006	0.0403	0.0000	169.0068

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.4200e-003	0.2538	0.0739	8.7000e-004	0.0259	2.3500e-003	0.0282	7.4800e-003	2.2400e-003	9.7300e-003	0.0000	84.8976	84.8976	2.2200e-003	0.0125	88.6619
Worker	0.0603	0.0393	0.4938	1.2800e-003	0.1438	8.1000e-004	0.1446	0.0382	7.4000e-004	0.0390	0.0000	118.3842	118.3842	4.0400e-003	3.5600e-003	119.5469
Total	0.0697	0.2931	0.5677	2.1500e-003	0.1697	3.1600e-003	0.1728	0.0457	2.9800e-003	0.0487	0.0000	203.2818	203.2818	6.2600e-003	0.0160	208.2089

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1400	1.2803	1.4457	2.4000e-003		0.0623	0.0623		0.0586	0.0586	0.0000	206.3062	206.3062	0.0491	0.0000	207.5332
Total	0.1400	1.2803	1.4457	2.4000e-003		0.0623	0.0623		0.0586	0.0586	0.0000	206.3062	206.3062	0.0491	0.0000	207.5332

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0800e-003	0.2646	0.0798	1.0300e-003	0.0318	1.4100e-003	0.0332	9.1900e-003	1.3500e-003	0.0105	0.0000	100.6913	100.6913	2.4800e-003	0.0148	105.1562
Worker	0.0689	0.0426	0.5602	1.5200e-003	0.1765	9.4000e-004	0.1774	0.0469	8.7000e-004	0.0478	0.0000	141.5803	141.5803	4.4800e-003	4.0500e-003	142.8981
Total	0.0760	0.3073	0.6400	2.5500e-003	0.2083	2.3500e-003	0.2106	0.0561	2.2200e-003	0.0584	0.0000	242.2715	242.2715	6.9600e-003	0.0188	248.0543

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1400	1.2803	1.4457	2.4000e-003		0.0623	0.0623		0.0586	0.0586	0.0000	206.3060	206.3060	0.0491	0.0000	207.5329
Total	0.1400	1.2803	1.4457	2.4000e-003		0.0623	0.0623		0.0586	0.0586	0.0000	206.3060	206.3060	0.0491	0.0000	207.5329

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0800e-003	0.2646	0.0798	1.0300e-003	0.0318	1.4100e-003	0.0332	9.1900e-003	1.3500e-003	0.0105	0.0000	100.6913	100.6913	2.4800e-003	0.0148	105.1562
Worker	0.0689	0.0426	0.5602	1.5200e-003	0.1765	9.4000e-004	0.1774	0.0469	8.7000e-004	0.0478	0.0000	141.5803	141.5803	4.4800e-003	4.0500e-003	142.8981
Total	0.0760	0.3073	0.6400	2.5500e-003	0.2083	2.3500e-003	0.2106	0.0561	2.2200e-003	0.0584	0.0000	242.2715	242.2715	6.9600e-003	0.0188	248.0543

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.3143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.1042	0.1449	2.4000e-004		5.6700e-003	5.6700e-003		5.6700e-003	5.6700e-003	0.0000	20.4260	20.4260	1.2200e-003	0.0000	20.4566
Total	1.3296	0.1042	0.1449	2.4000e-004		5.6700e-003	5.6700e-003		5.6700e-003	5.6700e-003	0.0000	20.4260	20.4260	1.2200e-003	0.0000	20.4566

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0124	7.6600e-003	0.1007	2.7000e-004	0.0317	1.7000e-004	0.0319	8.4400e-003	1.6000e-004	8.5900e-003	0.0000	25.4526	25.4526	8.1000e-004	7.3000e-004	25.6895
Total	0.0124	7.6600e-003	0.1007	2.7000e-004	0.0317	1.7000e-004	0.0319	8.4400e-003	1.6000e-004	8.5900e-003	0.0000	25.4526	25.4526	8.1000e-004	7.3000e-004	25.6895

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.3143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.1042	0.1449	2.4000e-004		5.6700e-003	5.6700e-003		5.6700e-003	5.6700e-003	0.0000	20.4260	20.4260	1.2200e-003	0.0000	20.4566
Total	1.3296	0.1042	0.1449	2.4000e-004		5.6700e-003	5.6700e-003		5.6700e-003	5.6700e-003	0.0000	20.4260	20.4260	1.2200e-003	0.0000	20.4566

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0124	7.6600e-003	0.1007	2.7000e-004	0.0317	1.7000e-004	0.0319	8.4400e-003	1.6000e-004	8.5900e-003	0.0000	25.4526	25.4526	8.1000e-004	7.3000e-004	25.6895
Total	0.0124	7.6600e-003	0.1007	2.7000e-004	0.0317	1.7000e-004	0.0319	8.4400e-003	1.6000e-004	8.5900e-003	0.0000	25.4526	25.4526	8.1000e-004	7.3000e-004	25.6895

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Enclosed Parking Structure	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351
Enclosed Parking Structure	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351
General Office Building	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351
Other Asphalt Surfaces	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351
Parking Lot	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

[illegible]

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated

[illegible]

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

[illegible]

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0801	0.0306	2.6537	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3379	4.3379	4.1800e-003	0.0000	4.4423
Unmitigated	0.0801	0.0306	2.6537	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3379	4.3379	4.1800e-003	0.0000	4.4423

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0801	0.0306	2.6537	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3379	4.3379	4.1800e-003	0.0000	4.4423
Total	0.0801	0.0306	2.6537	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3379	4.3379	4.1800e-003	0.0000	4.4423

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0801	0.0306	2.6537	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3379	4.3379	4.1800e-003	0.0000	4.4423
Total	0.0801	0.0306	2.6537	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3379	4.3379	4.1800e-003	0.0000	4.4423

7.0 Water Detail

7.1 Mitigation Measures Water

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.2 Waste by Land Use****Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

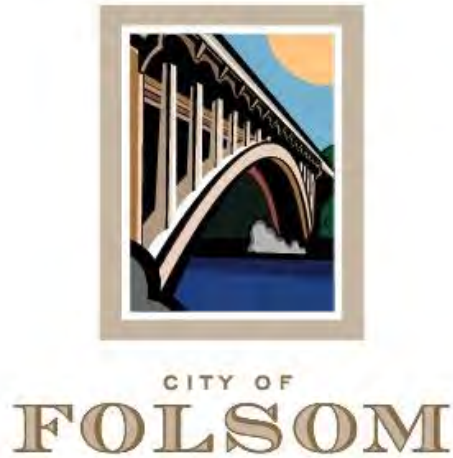
Broadstone Villas - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation



Greenhouse Gas Reduction Strategy Consistency Checklist

City of Folsom
Community Development Department
50 Natoma Street
Folsom, CA 95630
(916) 461-6202

Introduction

On August 28, 2018, the City adopted its 2035 General Plan, which establishes the framework to guide future growth and development. As part of the General Plan, the City also adopted a Greenhouse Gas Emissions Reduction Strategy (see Appendix A to the General Plan). These serve as the City's Climate Action Plan (CAP). Together they outline the policies and programs that the City will undertake to achieve its proportional share of State greenhouse gas (GHG) emission reductions. The purpose of this Consistency Checklist (Checklist) is to, in conjunction with the 2035 General Plan GHG Reduction Strategy and the General Plan EIR, provide a streamlined review process for proposed new development projects that are subject to discretionary review and trigger environmental review pursuant to the California Environmental Quality Act (CEQA).

Applicability

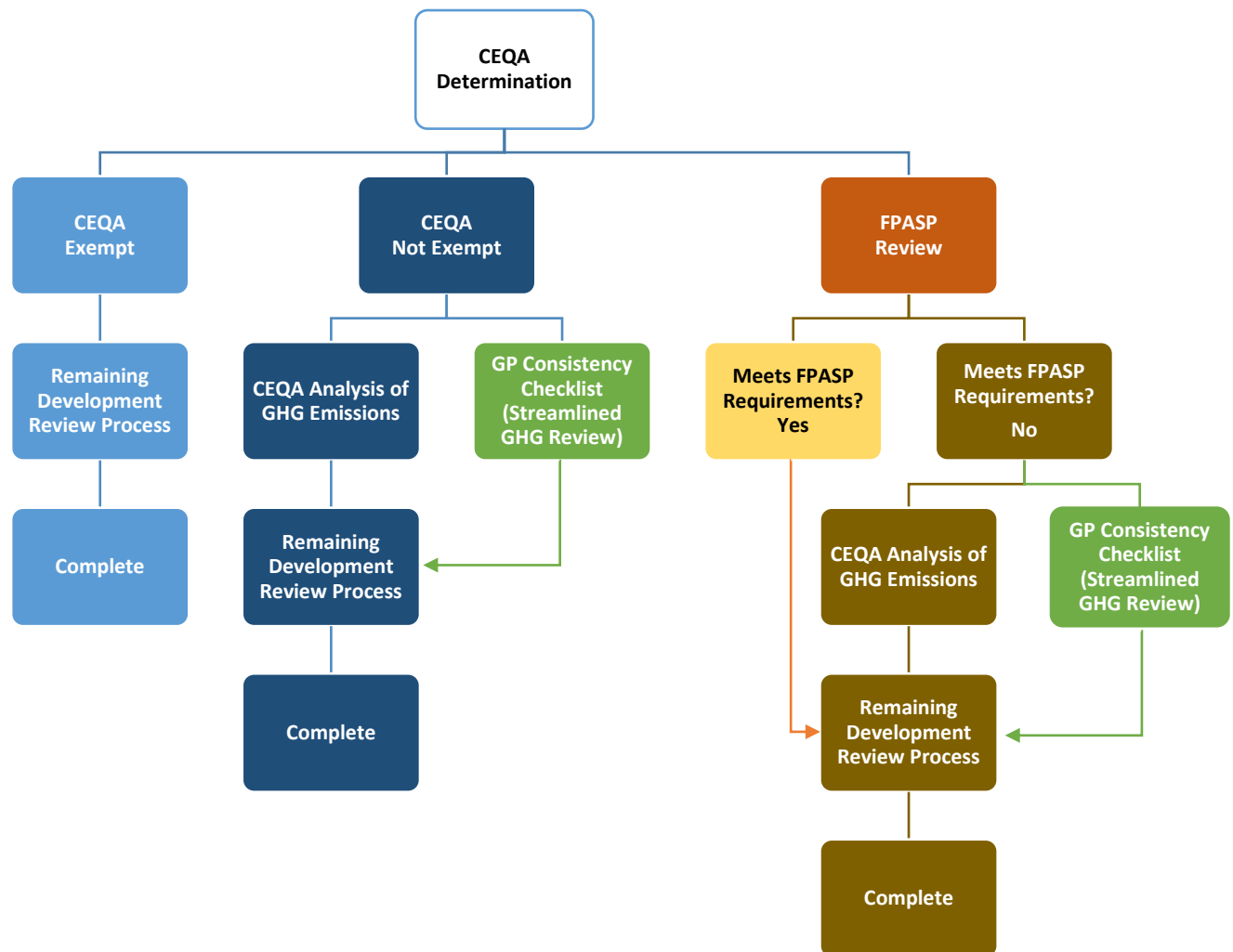
This Checklist contains measures that are required to be implemented on a project-by-project basis to ensure that the specified emissions targets identified in the General Plan are achieved. Implementation of these measures would ensure that new development is consistent with the General Plan's assumptions for achieving the identified GHG reduction targets.

- As shown in the diagram on the following page, the Checklist is required **only** for projects subject to CEQA review.
 - **Exception:** *Projects located in the Folsom Plan Area Specific Plan (FPASP) area and consistent with the Specific Plan requirements do not have to complete this checklist but must address the requirements and applicable GHG mitigation measures of the Specific Plan and its environmental impact report (EIR).*
- If required, the Checklist must be included in the project submittal package. The development application is available on the City's [website](#).
- The requirements in the Checklist must be included in the project's conditions of approval as well as in the mitigation measures in the Climate Change/GHG section of the project-specific CEQA document (i.e., EIR, Mitigated Negative Declaration, etc.).
- The applicant must provide an explanation of how the proposed project will implement these requirements to the satisfaction of the Community Development Department.

Please note that the Checklist may be updated to incorporate new GHG reduction techniques or to comply with later amendments to the General Plan or local, State, or federal law.

Streamlining Benefits

Analysis of GHG emissions and potential climate change impacts from new development is required under CEQA. The City's General Plan contains a strategy for the reduction of GHG emissions prepared in accordance with CEQA Guidelines Section 15183.5. Pursuant to CEQA Guidelines Sections 15064(h)(3), 15130(d), and 15183(b), a project that is consistent with the General Plan as determined through the use of this Checklist may rely on the General Plan and General Plan EIR for the cumulative impacts analysis of GHG emissions (refer to diagram below). Therefore, a project's incremental contribution to a cumulative GHG emissions effect may be determined not to be cumulatively considerable if it complies with the requirements of the General Plan's GHG Reduction Strategy. This would also apply to projects in the FPASP that don't meet the Specific Plan requirements, but do comply with the requirements of the General Plan's GHG Reduction Strategy. However, projects that are not consistent with the Strategy must prepare a comprehensive project-specific analysis of GHG emissions, including quantification of existing and projected GHG emissions and incorporation of the measures in this Checklist to the extent feasible. Cumulative GHG impacts would be significant for any project that is not consistent with the General Plan.



GHG Reduction Strategy Consistency Checklist - Project Application

Application Information			
Project No./Name:	Broadstone Villas Project		
Property Address:	1565 Cavitt Drive		
Applicant Name:	Elliott Homes		
Contact Phone:		Contact Email:	
Was a consultant used to complete this checklist?	Yes <u>X</u> No ____		
Consultant Name:	Victor Ortiz	Contact Phone:	619.462.1515
Company Name:	HELIX Environmental Planning Inc.	Contact Email:	VictorO@helixepi.com

Project Information	
1. What is the size of the project? (acres)	16.79 acres
2. Identify all applicable proposed land uses:	
Residential (indicate # of single-family units):	
Residential (indicate # of multi-family units):	257 units
Commercial (indicate total square footage):	
Industrial (indicate total square footage):	
Office (indicate total square footage):	
Mixed Use (indicate total square footage/# units):	
Other (describe):	
3. Is the project located in a Transit Priority Area (within ¼-mile radius of light rail station) or the East Bidwell Mixed Use Overlay?	Yes <u>X</u> No ____
4. Provide a brief description below of the proposed project:	
Elliot Homes (project applicant) proposes the Broadstone Villas project (proposed project), a 257-unit, market-rate apartment community on an estimated 16.79 net acre site at the east corner of East Bidwell Steet and Broadstone Parkway in the City of Folsom.	

Part 1: Land Use Consistency

Land Use Consistency*		
Checklist Item <i>(Check the appropriate box and provide an explanation and supporting documentation for your answer to either A, B, C, or D).</i>	Yes	No
A. The proposed project is consistent with the City's 2035 General Plan land use and zoning designations. [†]		
B. If proposed project is not consistent with the 2035 General Plan land use designation, the proposed amendment or rezone will result in an increased density within a Transit Priority Area (TPA) or East Bidwell Mixed-Use Overlay area (refer to 2035 General Plan Land Use Map). ^{(1), (4)}		
C. If the proposed project is not consistent with the 2035 General Plan land use and zoning designations, the project will include a land use plan and/or zoning designation amendment that would result in an equivalent or less GHG-intensive project when compared to the existing designations. ^{(2), (4)}	<u>X</u>	—
D. The proposed project is located in and consistent with the requirements of the Folsom Plan Area Specific Plan (FPASP) area south of Highway 50. ^{(3), (5)}		
If "Yes," proceed to Part 2 of the Checklist and: (1) For question B above, also complete Part 3 of the checklist. (2) For question C above, provide estimated project emissions under both existing and proposed designation(s) for comparison. Compare the maximum buildout of the existing designation and the maximum buildout of the proposed designation. (3) For question D above, the project is covered by the requirements of the FPASP and its EIR and does NOT need to complete the Checklist. If "No," in accordance with the CEQA Significance Thresholds, the project's GHG impact is significant. (4) For questions A, B, C, and D the project must nonetheless incorporate each of the measures identified in Part 2 to mitigate cumulative GHG emissions impacts unless the City finds that a measure is infeasible in accordance with CEQA Guidelines Section 15091. Proceed and complete Part 2 of the Checklist.		

* Requirements from this checklist should be incorporated into the conditions of approval, and shown on the full-size plans submitted for building plan check.

[†] In the event of a conflict between the 2035 General Plan and Zoning Code (Chapter 17 of the Folsom Municipal Code), to check YES the project must be consistent with the 2035 General Plan requirements. If the project is not consistent with the zoning, a rezone may be required unless the project includes affordable housing.

Explanation:

Yes. The site is designated as Community Commercial (CC) in the Folsom 2035 General Plan. The General Plan also designates the site within the East Bidwell Corridor overlay (EBC Overlay). The EBC Overlay allows multi-family housing as well as retail commercial, restaurants, office, and other compatible uses. The acceptable density range within this overlay is 20-30 dwelling units per acre. The density of the proposed project would be 20 units per net acre. Given that the project site is within the EBC Overlay, the proposed multi-family use is consistent with the existing General Plan designation.

The zoning designation of the site is SP 95-1 (Broadstone Unit No. 3 Specific Plan) with an underlying specific plan designation of C-2 (Central Business District). In the C-2 (Central Business District) zone, apartments are not an expressly permitted use (Zoning Code 17.22.030). The Planned Development District (PD) component of the zoning designation requires a Planned Development Permit Review (PD Permit) entitlement for design review purposes (Zoning Code 17.38.050). With approval of the PD Permit, the project would be consistent with the site zoning designation.

Part 2: GHG Reduction Measures Consistency

The second part of the checklist evaluates a project's consistency with the applicable policies and programs of the General Plan. If "Not Applicable" (N/A) is checked, please explain below.

GHG Reduction Measures - Consistency Checklist				
Checklist Item <i>(Check the appropriate box and provide an explanation and supporting documentation for your answer. Only one action for each GHG Measure is required)</i>	GP GHG Measure	Yes	No	N/A
BUILDING ENERGY SECTOR				
<u>Exceeds Title 24</u> : The project will exceed the requirements of the 2016 California Building Energy Efficiency Standards (Title 24 , Part 6) by 15% or more; OR	E-1			
<u>CALGreen</u> : The project will comply with Tier 1 or Tier 2 California Green Building Standards Code (CALGreen) (<i>Residential and non-residential projects</i>); OR	E-1			
<u>LEED</u> : The project is registered with the USGBC and is pursuing LEED Silver certification or greater (<i>Non-residential projects only</i>); OR	E-1	<u> X </u>	<u> </u>	<u> </u>
<u>Zero Net Energy</u> : The project will be Zero Net Energy (ZNE) and will include on-site renewable energy as listed in California Green Building Standards Code (CALGreen) in Appendix A4 (Section A4.203).	E-1			
<u>Water Heater Replacement</u> : One of the following types of water heaters will be installed (<i>Existing buildings only</i>): • Tankless water heater • Electric water heater • Ground source heat pump • Solar thermal water heater • Heat pump water heater	E-2	<u> </u>	<u> </u>	<u> X </u>
<u>Energy Audit</u> : An energy audit be performed prior to the issuance of the building permit and the applicant agrees as a condition of approval to incorporate all cost-effective energy improvements into the project based on the recommendations of the energy audit. (<i>Existing buildings only</i>)	E-3	<u> </u>	<u> </u>	<u> X </u>
<u>Renewable Energy for Building Retrofits</u> : The retrofit or expansion for the project will add on-site installation of solar panels/photovoltaics, the use of geothermal heating and cooling, or the use of wind power (<i>Existing buildings only</i>).	E-4	<u> </u>	<u> </u>	<u> X </u>

GHG Reduction Measures - Consistency Checklist				
Checklist Item <i>(Check the appropriate box and provide an explanation and supporting documentation for your answer. Only one action for each GHG Measure is required)</i>	GP GHG Measure	Yes	No	N/A
BUILDING ENERGY SECTOR				
Explanation: E-1 The project would meet the requirement of the 2019 California Building Energy Efficiency Standards (Title 24, Part 6), including the requirements for on-site photovoltaic electricity generation (solar panels). According to the California Energy Commission (CEC), once rooftop solar electricity generation is factored in, homes built under the 2019 standards will use about 53 percent less energy than those under the 2016 standards. (CEC. 2018. 2019 Building Energy Efficiency Standards Frequently Asked Questions). T-1 The project is within the EBC Overlay and would have a density of approximately 20 DU/acre. T-3, T-6, T-8, SW-1, and W-1: All incorporated into the project by mitigation measures.				

GHG Reduction Measures - Consistency Checklist				
Checklist Item <i>(Check the appropriate box and provide an explanation and supporting documentation for your answer. Only one action for each GHG Measure is required)</i>	GP GHG Measure	Yes	No	N/A
TRANSPORTATION SECTOR				
<u>Project Location and Density</u> : Project is located within a Transit Priority Area or within the East Bidwell Mixed-Use Overlay and has a mix of uses (i.e., residential, office, commercial, etc.) with a minimum density of 20 units per acre (du/ac) or a Floor Area Ratio (FAR) of 0.75; OR	T-1	<u>X</u>	—	—
<u>Mix of Uses</u> : The project is a mixed-use building with two or more uses (i.e., residential, commercial, office, etc.) or if the site is 5 acres or larger there are two or more uses on the site connected by protected pedestrian paths (e.g., sidewalks, elevated walkways) excluding driveways.	T-1			
<u>Complete Streets (New Development only)</u> : For projects that include the construction of new streets, the project will design and build complete streets (i.e., streets with sidewalk, planter strip, bike lane and vehicle lane(s)) as set forth in Section 11 of the City's Design and Procedures Manual and Improvement Standards - Standard Construction Specifications and Details .	T-2	—	—	<u>X</u>

GHG Reduction Measures - Consistency Checklist																						
Checklist Item <i>(Check the appropriate box and provide an explanation and supporting documentation for your answer. Only one action for each GHG Measure is required)</i>	GP GHG Measure	Yes	No	N/A																		
TRANSPORTATION SECTOR																						
<u>Bicycle Parking</u> : Project provides 5% more bicycle parking spaces than required in the City's Municipal Code (Section 17.57.090); OR	T-3																					
<u>Shower Facilities (Non-residential only)</u> : Project would either meet the requirements of Section 17.57.050(C) of the Folsom Municipal Code or will install changing/shower facilities in accordance with the voluntary measures under Appendix A5 of the California Green Building Standards Code (CALGreen) as shown in the table below: <table border="1" data-bbox="225 814 971 1327"> <thead> <tr> <th>Number of Tenant Occupants (Employees)</th> <th>Shower/Changing Facilities Required</th> <th>Personal Effects Lockers Required (12" x 15" x 72")</th> </tr> </thead> <tbody> <tr> <td>0-10</td> <td>0</td> <td>0</td> </tr> <tr> <td>11-50</td> <td>1</td> <td>2</td> </tr> <tr> <td>51-100</td> <td>3</td> <td>3</td> </tr> <tr> <td>101-200</td> <td>5</td> <td>4</td> </tr> <tr> <td>201 and over</td> <td>1 shower stall plus 1 additional stall for each 200 additional tenant-occupants</td> <td>1 locker plus 1 locker for each additional 50 additional tenant-occupants</td> </tr> </tbody> </table>	Number of Tenant Occupants (Employees)	Shower/Changing Facilities Required	Personal Effects Lockers Required (12" x 15" x 72")	0-10	0	0	11-50	1	2	51-100	3	3	101-200	5	4	201 and over	1 shower stall plus 1 additional stall for each 200 additional tenant-occupants	1 locker plus 1 locker for each additional 50 additional tenant-occupants	T-3	X		
Number of Tenant Occupants (Employees)	Shower/Changing Facilities Required	Personal Effects Lockers Required (12" x 15" x 72")																				
0-10	0	0																				
11-50	1	2																				
51-100	3	3																				
101-200	5	4																				
201 and over	1 shower stall plus 1 additional stall for each 200 additional tenant-occupants	1 locker plus 1 locker for each additional 50 additional tenant-occupants																				
<u>Reduced Parking Capacity (Non-Residential)</u> : For new non-residential projects, the project will reduce total parking spaces by 5% and will comply with the requirements of Section 17.57.050(C) of the Folsom Municipal Code <u>OR</u> provide one or more of the following: • Shared parking agreement with adjacent property owner. • Use of street parking or compact spaces on site plan. • Program to encourage employees to carpool, ride share or use alternate forms of transportation (e.g., employee bus pass program).	T-5			X																		

GHG Reduction Measures - Consistency Checklist																			
Checklist Item <i>(Check the appropriate box and provide an explanation and supporting documentation for your answer. Only one action for each GHG Measure is required)</i>	GP GHG Measure	Yes	No	N/A															
TRANSPORTATION SECTOR																			
<u>High-Performance Diesel (Construction only)</u> : Use high-performance diesel (also known as Diesel-HPR or Reg-9000/RHD) for construction equipment.	T-6	<u>X</u>	—	—															
<u>Electric Vehicle Charging (Residential)</u> : For multifamily projects with 17 or more dwelling units, provide electric vehicle charging in 5% of total parking spaces; OR	T-8	<u>X</u>	—	—															
<u>Electric Vehicle Charging (Residential)</u> : For one- and two-family dwellings and townhouses with attached private garages, install at least one (1) electric vehicle charger which includes a dedicated 208/240-volt branch circuit that has an overcurrent protective device rated at 40 amperes minimum per dwelling unit; OR	T-8																		
<u>Electric Vehicle Charging (Non-Residential)</u> : Project will install electric vehicle charging stations based on the total number of parking spaces and shown in the table below:	T-8																		
<table border="1"> <thead> <tr> <th>Total Parking Spaces</th> <th>Number of Required Spaces</th> </tr> </thead> <tbody> <tr> <td>0-9</td> <td>0</td> </tr> <tr> <td>10-25</td> <td>2</td> </tr> <tr> <td>26-50</td> <td>3</td> </tr> <tr> <td>51-75</td> <td>5</td> </tr> <tr> <td>76-100</td> <td>7</td> </tr> <tr> <td>101-150</td> <td>10</td> </tr> <tr> <td>151-200</td> <td>14</td> </tr> <tr> <td>201 and over</td> <td>8% of total</td> </tr> </tbody> </table>		Total Parking Spaces	Number of Required Spaces	0-9	0	10-25	2	26-50	3	51-75	5	76-100	7	101-150	10	151-200	14	201 and over	8% of total
Total Parking Spaces		Number of Required Spaces																	
0-9		0																	
10-25		2																	
26-50		3																	
51-75		5																	
76-100		7																	
101-150	10																		
151-200	14																		
201 and over	8% of total																		

GHG Reduction Measures - Consistency Checklist				
Checklist Item (Check the appropriate box and provide an explanation and supporting documentation for your answer. Only one action for each GHG Measure is required)	GP GHG Measure	Yes	No	N/A
SOLID WASTE				
<u>Enhanced Construction Waste Diversion</u> : Project diverts to recycle or salvage at least 65% of nonhazardous construction and demolition waste generated at the project site in accordance with either Appendix A4 (Residential) or Appendix A5 (Non-Residential) of the California Green Building Standards Code . This may be done by using a waste management company that can provide verifiable documentation that the waste diversion complies with this requirement.	SW-1	<u>X</u>	—	—
WATER AND WASTE WATER				
<u>Water Efficiency</u> : For new residential and non-residential projects, the project will comply with all applicable indoor and outdoor water efficiency and conservation measures required under CALGreen Tier 1, as outlined in the California Green Building Standards Code .	W-1	<u>X</u>	—	—
<u>Commercial Water Audit</u> : For existing commercial and industrial projects that require substantial addition, alteration, and expansion to existing facilities, the project must comply with a water audit . The water audit must be performed prior to issuance of a building permit. The applicant agrees, as a condition of approval, to incorporate all cost-effective water efficiency improvements into the project design, per recommendations in the water audit .	W-2	—	—	<u>X</u>
<u>Large Landscape Irrigation Audit</u> : For existing multi-family projects or commercial and industrial projects on lots 5 acres or larger, the project must comply with a water audit . The water audit must be performed prior to issuance of a building permit. The applicant agrees, as a condition of approval, to incorporate all cost-effective water efficiency improvements into the project design, per recommendations in the water audit .	W-2	—	—	<u>X</u>

Part 3: Project Conformance Evaluation *(if applicable)*

The third part of the consistency review only applies if B is checked YES in Part 1. The purpose of this is to determine whether a project that is located in any of the City's Transit Priority Areas (Historic Folsom Station TPA, Glenn Station TPA, or Iron Point Station TPA) or the East Bidwell Mixed Use Overlay area which includes a land use plan and/or zoning designation amendment is nevertheless consistent with the General Plan's GHG Reduction Strategy because it would implement those policies and programs. In general, a project that would result in a reduction in density inside a TPA or mixed-use overlay area[‡] would not be consistent with the GHG reduction policies nor could it take advantage of CEQA streamlining benefits available through Senate Bill 375 (2009). The following questions must each be answered in the affirmative and fully explained.

1. Would the proposed project implement the General Plan's Transit Oriented Development (TOD) or Mixed-Use District policies in an identified Transit Priority Area (TPA) or Mixed Use Overlay area that will result in an increase in the capacity for transit-supportive residential and/or employment densities?

Considerations for this question:

- a) Does the proposed land use and zoning designation associated with the project provide capacity for transit-supportive residential densities within the TPA or Mixed Use Overlay area (Minimum of 20 du/acre)? **Yes** ___ **No** ___ **N/A** ___
- b) Does the land use and zoning associated with the project increase the capacity for transit-supportive employment intensities within the TPA or Mixed Use Zone (Minimum of 0.75 FAR)? **Yes** ___ **No** ___ **N/A** ___
- c) If the project is mixed-use, is 75% or the total building square footage for residential use? **Yes** ___ **No** ___ **N/A** ___

If N/A, checked please explain: _____

[‡] Project located in the East Bidwell Mixed-Use Overlay area would not qualify for CEQA streamlining under SB 375 unless the project was located near a high frequency bus stop (i.e., a stop with 15-minute bus headways during peak commute times).

2. Would the proposed project implement the General Plan’s Mobility Element in Transit Priority Areas or Mixed Use Overlay areas to increase the use of transit?

Considerations for this question:

- a) Does the proposed project support/incorporate identified transit routes and stops/stations? **Yes** ___ **No** ___ **N/A** ___

Explain: _____

- b) Does the project include transit priority measures consistent with General Plan Goal 3.1 and related policies? **Yes** ___ **No** ___ **N/A** ___

Explain: _____

3. Would the proposed project implement pedestrian improvements in Transit Priority Areas or Mixed-Use Overlay areas to increase walking opportunities?

Considerations for this question:

- a) Does the proposed project circulation system provide multiple and direct pedestrian connections and accessibility to local activity centers (such as transit stations, schools, parks, shopping centers, and libraries)? **Yes** ___ **No** ___ **N/A** ___

Explain: _____

- b) Does the proposed project urban design include features for walkability to promote a transit supportive environment? **Yes** ___ **No** ___ **N/A** ___

Explain: _____

- c) Does the project fill gaps in the City’s existing sidewalk network?
Yes ___ **No** ___ **N/A** ___

Explain: _____

4. Would the proposed project implement the City of Folsom’s Bicycle Master Plan to increase bicycling opportunities?

Considerations for this question:

- a) Does the proposed project circulation system include bicycle improvements consistent with the Bicycle Master Plan? **Yes** ____ **No** ____ **N/A** ____

Explain: _____

- b) Does the overall project circulation system provide a balanced, multimodal, “complete streets” approach to accommodate mobility needs of all users (i.e., includes separated sidewalks, bike paths, and vehicle travel lanes)? **Yes** ____ **No** ____ **N/A** ____

Explain: _____

5. Would the proposed project incorporate implementation mechanisms that support Transit Oriented Development?

Considerations for this question:

- a) Does the proposed project include new or expanded urban public spaces such as plazas, pocket parks, or urban greens in the TPA or Mixed Use Overlay area?

Yes ____ **No** ____ **N/A** ____

Explain: _____

- b) Does the land use and zoning associated with the proposed project increase the potential for jobs within the TPA or Mixed Use Overlay area?

Yes ___ No ___ N/A ___

Explain: _____

- c) Do the zoning/implementing regulations associated with the proposed project support the efficient use of parking through mechanisms such as: shared parking, parking districts, unbundled parking[§], reduced parking, paid or time-limited parking, etc.?

Yes ___ No ___ N/A ___

Explain: _____

[§] "Unbundled parking" is a strategy in which parking spaces are rented or sold separately, rather than automatically included with the rent or purchase price of a residential or commercial unit.

Appendix A - City GHG Reduction Measures and Implementing Programs**

E-1 Improve Building Energy Efficiency in New Development*

- PFS-25 Zero Net Energy Development: Adopt an ordinance to require ZNE for all new residential construction by 2020 and commercial construction by 2030, in coordination with State actions to phase in ZNE requirements through future triennial building code updates.
 - Applicable to: New Development
- LU-6 Adopt Green Building: Encourage new residential and non-residential construction projects to adopt and incorporate green building features included in the CALGreen Tier 1 checklist in project designs; and, encourage projects to seek LEED rating and certification that would meet equivalent CALGreen Tier 1 standards or better. Consider future amendments to City code to adopt CALGreen Tier 1 requirements consistent with State building code. For projects subject to CEQA seeking to streamline GHG analysis consistent with the General Plan, CALGreen Tier 1 compliance would be required.
 - Applicable to: New Development

E-2 Water Heater Replacement in Existing Residential Development

- PFS-23 High-Efficiency or Alternatively-Powered Water Heater Replacement Program: Provide educational material and information on the City's website, as well as through the permit and building department, on the various high-efficiency and alternatively-powered water heat replacement options available to current homeowners considering water heater replacement; develop appropriate financial incentives, working with energy utilities or other partners; and, streamline the permitting process. Replacement water heaters could include high-efficiency natural gas (i.e., tankless), or other alternatively-powered water heating systems that reduce or eliminate natural gas usage such as solar water heating systems, tankless or storage electric water heaters, and electric heat pump systems.
 - Applicable to: Existing Development

E-3 Improve Building Energy Efficiency in Existing Residential Development

- PFS-24 Energy Efficiency and Renewable Energy Retrofits and Programs: Strive to increase energy efficiency and renewable energy use in existing buildings through participation in available programs. Actions include:

** GHG Reduction Strategy measures are from Appendix A of the 2035 General Plan adopted August 28, 2018.

- Establish a dedicated City program with a clear intent to provide support and promote available green building and energy retrofit programs for existing buildings.
- Incentivize solar installation on all existing buildings that undergo major remodels or renovations, and provide permit streamlining for solar retrofit projects.
- Provide rebates or incentives to existing SMUD customers for enrolling in the existing Greenergy program.
- Provide education to property owners on low-interest financing and/or assist property owners in purchasing solar photovoltaics through low- interest loans or property tax assessments.
- Continue to work with SMUD and other private sector funding sources to increase solar leases or power purchase agreements (PPAs).
 - Applicable to: Existing Development

E-4 Increase Use of Renewable Energy in Existing Development

- PFS-24 Energy Efficiency and Renewable Energy Retrofits and Programs: Strive to increase energy efficiency and renewable energy use in existing buildings through participation in available programs. Actions include:
 - Establish a dedicated City program with a clear intent to provide support and promote available green building and energy retrofit programs for existing buildings.
 - Incentivize solar installation on all existing buildings that undergo major remodels or renovations, and provide permit streamlining for solar retrofit projects.
 - Provide rebates or incentives to existing SMUD customers for enrolling in the existing Greenergy program.
 - Provide education to property owners on low-interest financing and/or assist property owners in purchasing solar photovoltaics through low- interest loans or property tax assessments.
 - Continue to work with SMUD and other private sector funding sources to increase solar leases or power purchase agreements (PPAs).
 - Applicable to: Existing Development

T-1 Reduce VMT through Mixed and High-Density Land Use*

- LU-1. Update the Zoning Ordinance: Develop a priority list for how sections of the Folsom Zoning Ordinance and applicable guidelines will be updated consistent with the General Plan. The City shall review and update the Folsom Zoning Ordinance and applicable guidelines, consistent with the policies and diagrams of the General Plan. The update shall include developing appropriate standards to encourage mixed use within the East Bidwell Overlay area and transit-oriented development around light rail

stations, including restrictions on automobile-oriented uses within one-quarter mile of light rail stations. The City shall review and update the Historic District Design and Development Guidelines.

- Applicable to: New and Existing Development
- LU-4. Property Owner Outreach on Overlay Designations: Reach out to property owners within the East Bidwell Mixed Use Overlay and Transit-Oriented Development Overlay areas to explain the options available to property owners and developers in this area, and provide technical assistance, as appropriate, to facilitate development within these areas.
 - Applicable to: New and Existing Development

T-2 Improve Streets and Intersections for Multi-Modal Use and Access*

- M-8. Bicycle and Pedestrian Improvements: Identify regional, State, and Federal funding sources to support bicycle and pedestrian facilities and programs to improve roadways and intersections by 2035. Actions include:
 - Require bicycle and pedestrian improvements as conditions of approval for new development on roadways and intersections serving the project. Improvements may include, but are not limited to: on-street bike lanes, traffic calming improvements such as marked crosswalks, raised intersections, median islands, tight corner radii, roundabouts, on-street parking, planter strips with street trees, chicanes, chokers, any other improvement that focuses on reducing traffic speeds and increasing bicycle and pedestrian safety. For projects subject to CEQA seeking to streamline GHG analysis consistent with the General Plan, incorporation of applicable bicycle and pedestrian improvements into project designs or conditions of approval would be required.
 - Based on the most recent citywide inventory of roadways and pedestrian/bicycle facilities, identify areas of greatest need, to focus improvements on first. Areas to prioritize include roadways or intersections with a lack of safety features, street where disruption in sidewalks or bicycle lanes occurs, areas of highest vehicle traffic near commercial centers and transit facilities, where increased use of pedestrian/bicycle facilities would be most used.
 - Applicable to: Existing and New Development

T-3 Adopt Citywide TDM Program

- M-1. Transportation Demand Management: Adopt a citywide Transportation Demand Management (TDM) program that encourages residents to reduce the amount of trips taken with single-occupancy vehicles. The program shall be designed to achieve an overall 15 percent vehicle mile traveled (VMT) reduction over 2014 levels and a 20 percent reduction in City-employee commute VMT. The City shall coordinate with

employers to develop a menu of incentives and encourage participation in TDM programs.

- Applicable to: Existing and New Development

T-5 Reduce Minimum Parking Standards*

- M-11. Parking Standards Review and update its parking standards as necessary to reduce the amount of land devoted to parking and encourage shared parking arrangements, particularly in mixed-use and transit-oriented developments.
 - Applicable to: Existing and New Development

T-6 Require the Use of High-Performance Renewable Diesel in Construction Equipment*

- PFS-26 Renewable Diesel: Revise the City of Folsom’s Standard Construction Specifications to require that all construction contractors use high-performance renewable diesel for both private and City construction. Phase in targets such that high-performance renewable diesel would comprise 50 percent of construction equipment diesel usage for projects covered under the specifications through 2030, and 100 percent of construction equipment diesel usage in projects covered under the specifications by 2035.

For projects subject to CEQA seeking to streamline GHG analysis consistent with the General Plan, the use of high-performance renewable diesel would be required consistent with the above targets.

- Applicable to: Existing and New Development

T-8 Install Electric Vehicle Charging Stations*

- M-3. Electric Vehicle Charge Stations in Public Places: Develop and implement a citywide strategy to install electric vehicle charging stations in public places where people shop, dine, recreate, and gather.
 - Applicable to: Existing and New Development

SW-1 Increase Solid Waste Diversions

- This measure is addressed though Program LU-6 (Adopt Green Building) as both LEED and CALGreen Tier 1 require solid waste diversion to gain certification.
 - Applicable to: Existing and New Development

W-1 Increase Water Efficiency in New Residential Development*

- PFS-27 Reduce Water Consumption in New Development: Encourage water efficiency measures for new residential construction to reduce indoor and outdoor water use. Actions include: promote the use of higher efficiency measures, including: use of low-water irrigation systems, and installation of water- efficient appliances and plumbing fixtures. Measures and targets can be borrowed from the latest version of the Guide to the California Green Building Standards Code (International Code Council)

For projects subject to CEQA seeking to streamline GHG analysis consistent with the general plan, compliance with CALGreen Tier 1 Water Efficiency and Conservation measures would be required.

- o Applicable to: New Development
- o Time Frame: Ongoing

W-2 Reduce Outdoor Water Use in New Residential Development*

- PFS-27 Reduce Water Consumption in New Development: Encourage water efficiency measures for new residential construction to reduce indoor and outdoor water use. Actions include: promote the use of higher efficiency measures, including: use of low-water irrigation systems, and installation of water- efficient appliances and plumbing fixtures. Measures and targets can be borrowed from the latest version of the Guide to the California Green Building Standards Code (International Code Council)

For projects subject to CEQA seeking to streamline GHG analysis consistent with the general plan, compliance with CALGreen Tier 1 Water Efficiency and Conservation measures would be required.

- o Applicable to: New Development
- o Time Frame: Ongoing

**Applies to projects subject to CEQA seeking to streamline GHG analysis consistent with the general plan.*