Appendix B1: Air Quality and GHG Modeling

Appendices

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Air Quality and Greenhouse Gas Appendix

Emissions Worksheet

Regional Construction Emissions Worksheet (Option 1):

Building Demolition

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022 Winter**						
	Off-Road		1.73	11.31	12.77	0.04	0.46	0.45
	Total		**1.73**	**11.31**	**12.77**	**0.04**	**0.46**	**0.45**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.03	0.02	0.31	0.00	0.10	0.03
	Total		**0.04**	**0.21**	**0.37**	**0.00**	**0.13**	**0.04**
TOTAL			***1.77***	***11.52***	***13.15***	***0.04***	***0.59***	***0.48***
Onsite		**2022**						
	Off-Road		1.73	11.31	12.77	0.04	0.46	0.45
	Total		**1.73**	**11.31**	**12.77**	**0.04**	**0.46**	**0.45**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.03	0.02	0.31	0.00	0.10	0.03
	Total		**0.04**	**0.21**	**0.37**	**0.00**	**0.13**	**0.04**
TOTAL			***1.77***	***11.52***	***13.15***	***0.04***	***0.59***	***0.48***

Building Demolition Haul

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Winter						
	Fugitive Dust						2.44	0.37
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**2.44**	**0.37**
Offsite								
	Hauling		0.11	4.31	1.18	0.02	0.46	0.15
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.11**	**4.31**	**1.18**	**0.02**	**0.46**	**0.15**
TOTAL			***0.11***	***4.31***	***1.18***	***0.02***	***2.90***	***0.52***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	2.44	0.37
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**2.44**	**0.37**
Offsite								
	Hauling		0.11	4.31	1.18	0.02	0.46	0.15
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.11**	**4.31**	**1.18**	**0.02**	**0.46**	**0.15**
TOTAL			***0.11***	***4.31***	***1.18***	***0.02***	***2.90***	***0.52***

Asphalt Demolition

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Winter						
	Off-Road		0.16	1.68	2.24	0.00	0.09	0.08
	Total		**0.16**	**1.68**	**2.24**	**0.00**	**0.09**	**0.08**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.01	0.01	0.09	0.00	0.03	0.01
	Total		**0.02**	**0.19**	**0.16**	**0.00**	**0.06**	**0.02**
TOTAL			***0.18***	***1.87***	***2.40***	***0.00***	***0.15***	***0.10***
Onsite		**2022**						
	Off-Road		0.16	1.68	2.24	0.00	0.09	0.08
	Total		**0.16**	**1.68**	**2.24**	**0.00**	**0.09**	**0.08**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.01	0.01	0.09	0.00	0.03	0.01
	Total		**0.02**	**0.19**	**0.16**	**0.00**	**0.06**	**0.02**
TOTAL			***0.18***	***1.87***	***2.40***	***0.00***	***0.15***	***0.10***

Asphalt Demolition Haul

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022** Winter						
	Fugitive Dust					1.73	0.26
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**1.73**	**0.26**
Offsite							
	Hauling	0.11	4.40	1.21	0.02	0.47	0.15
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.11**	**4.40**	**1.21**	**0.02**	**0.47**	**0.15**
TOTAL		***0.11***	***4.40***	***1.21***	***0.02***	***2.20***	***0.41***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	1.73	0.26
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**1.73**	**0.26**
Offsite							
	Hauling	0.11	4.40	1.21	0.02	0.47	0.15
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.11**	**4.40**	**1.21**	**0.02**	**0.47**	**0.15**
TOTAL		***0.11***	***4.40***	***1.21***	***0.02***	***2.20***	***0.41***

Site Preparation 2022

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022** Winter						
	Fugitive Dust					4.53	0.49
	Off-Road	8.97	101.36	64.08	0.16	3.81	3.51
	Total	**8.97**	**101.36**	**64.08**	**0.16**	**8.35**	**4.00**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.19	0.07	0.00	0.03	0.01
	Worker	0.11	0.08	1.07	0.00	0.36	0.10
	Total	**0.12**	**0.26**	**1.14**	**0.00**	**0.39**	**0.11**
TOTAL		***9.09***	***101.63***	***65.22***	***0.16***	***8.73***	***4.10***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	4.53	0.49
	Off-Road	8.97	101.36	64.08	0.16	3.81	3.51
	Total	**8.97**	**101.36**	**64.08**	**0.16**	**8.35**	**4.00**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.19	0.07	0.00	0.03	0.01
	Worker	0.11	0.08	1.07	0.00	0.36	0.10
	Total	**0.12**	**0.26**	**1.14**	**0.00**	**0.39**	**0.11**
TOTAL		***9.09***	***101.63***	***65.22***	***0.16***	***8.73***	***4.10***

Site Preparation 2023

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2023** Winter						
	Fugitive Dust					4.53	0.49
	Off-Road	8.52	92.74	62.01	0.16	3.51	3.23
	Total	**8.52**	**92.74**	**62.01**	**0.16**	**8.04**	**3.72**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.15	0.06	0.00	0.02	0.01
	Worker	0.11	0.07	1.00	0.00	0.36	0.10
	Total	**0.11**	**0.22**	**1.06**	**0.00**	**0.39**	**0.11**
TOTAL		***8.63***	***92.96***	***63.07***	***0.16***	***8.43***	***3.82***
Onsite	**2023**						
	Fugitive Dust	0.00	0.00	0.00	0.00	4.53	0.49
	Off-Road	8.52	92.74	62.01	0.16	3.51	3.23
	Total	**8.52**	**92.74**	**62.01**	**0.16**	**8.04**	**3.72**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.15	0.06	0.00	0.02	0.01
	Worker	0.11	0.07	1.00	0.00	0.36	0.10
	Total	**0.11**	**0.22**	**1.06**	**0.00**	**0.39**	**0.11**
TOTAL		***8.63***	***92.96***	***63.07***	***0.16***	***8.43***	***3.82***

Site Preparation Soil Haul 2022		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022** Winter						
	Fugitive Dust					0.02	0.00
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**
Offsite							
	Hauling	0.19	7.91	2.17	0.03	0.85	0.27
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.19**	**7.91**	**2.17**	**0.03**	**0.85**	**0.27**
TOTAL		***0.19***	***7.91***	***2.17***	***0.03***	***0.87***	***0.28***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.02	0.00
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**
Offsite							
	Hauling	0.19	7.91	2.17	0.03	0.85	0.27
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.19**	**7.91**	**2.17**	**0.03**	**0.85**	**0.27**
TOTAL		***0.19***	***7.91***	***2.17***	***0.03***	***0.87***	***0.28***

Site Preparation Soil Haul 2023		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2023 Winter**						
	Fugitive Dust					0.02	0.00
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**
Offsite							
	Hauling	0.10	6.07	2.02	0.03	0.83	0.26
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.10**	**6.07**	**2.02**	**0.03**	**0.83**	**0.26**
TOTAL		***0.10***	***6.07***	***2.02***	***0.03***	***0.85***	***0.26***
Onsite	**2023**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.02	0.00
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**
Offsite							
	Hauling	0.10	6.07	2.02	0.03	0.83	0.26
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.10**	**6.07**	**2.02**	**0.03**	**0.83**	**0.26**
TOTAL		***0.10***	***6.07***	***2.02***	***0.03***	***0.85***	***0.26***

Retail and Residential Building A Building Construction 2023		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2023** Winter						
	Off-Road	0.72	6.67	6.01	0.01	0.28	0.26
	Total	**0.72**	**6.67**	**6.01**	**0.01**	**0.28**	**0.26**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.11	4.10	1.68	0.02	0.69	0.21
	Worker	0.88	0.57	8.16	0.03	2.97	0.80
	Total	**0.99**	**4.67**	**9.84**	**0.05**	**3.66**	**1.02**
TOTAL		***1.71***	***11.34***	***15.85***	***0.06***	***3.94***	***1.28***
Onsite	**2023**						
	Off-Road	0.72	6.67	6.01	0.01	0.28	0.26
	Total	**0.72**	**6.67**	**6.01**	**0.01**	**0.28**	**0.26**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.11	4.10	1.68	0.02	0.69	0.21
	Worker	0.88	0.57	8.16	0.03	2.97	0.80
	Total	**0.99**	**4.67**	**9.84**	**0.05**	**3.66**	**1.02**
TOTAL		***1.71***	***11.34***	***15.85***	***0.06***	***3.94***	***1.28***

Retail and Residential Building A Building Construction 2024							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2024 Winter**						
	Off-Road	0.70	6.39	5.89	0.01	0.26	0.24
	Total	**0.70**	**6.39**	**5.89**	**0.01**	**0.26**	**0.24**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.11	4.09	1.67	0.02	0.69	0.22
	Worker	0.83	0.51	7.61	0.03	2.97	0.80
	Total	**0.94**	**4.60**	**9.27**	**0.04**	**3.66**	**1.02**
TOTAL		***1.64***	***10.99***	***15.17***	***0.06***	***3.93***	***1.26***
Onsite	**2024**						
	Off-Road	0.70	6.39	5.89	0.01	0.26	0.24
	Total	**0.70**	**6.39**	**5.89**	**0.01**	**0.26**	**0.24**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.11	4.09	1.67	0.02	0.69	0.22
	Worker	0.83	0.51	7.61	0.03	2.97	0.80
	Total	**0.94**	**4.60**	**9.27**	**0.04**	**3.66**	**1.02**
TOTAL		***1.64***	***10.99***	***15.17***	***0.06***	***3.93***	***1.26***

Retail and Residential Building A Building Construction 2025							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2025 Winter**						
	Off-Road	0.67	5.92	5.74	0.01	0.24	0.22
	Total	**0.67**	**5.92**	**5.74**	**0.01**	**0.24**	**0.22**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.11	4.07	1.66	0.02	0.69	0.22
	Worker	0.79	0.46	7.14	0.02	2.97	0.80
	Total	**0.89**	**4.53**	**8.80**	**0.04**	**3.66**	**1.02**
TOTAL		***1.56***	***10.45***	***14.54***	***0.06***	***3.90***	***1.24***
Onsite	**2025**						
	Off-Road	0.67	5.92	5.74	0.01	0.24	0.22
	Total	**0.67**	**5.92**	**5.74**	**0.01**	**0.24**	**0.22**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.11	4.07	1.66	0.02	0.69	0.22
	Worker	0.79	0.46	7.14	0.02	2.97	0.80
	Total	**0.89**	**4.53**	**8.80**	**0.04**	**3.66**	**1.02**
TOTAL		***1.56***	***10.45***	***14.54***	***0.06***	***3.90***	***1.24***

Retail Architectural Coating 2023							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2023** Winter						
	Archit. Coating	50.31				0.00	0.00
	Off-Road	0.38	2.61	3.62	0.01	0.14	0.14
	Total	**50.70**	**2.61**	**3.62**	**0.01**	**0.14**	**0.14**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.06	0.04	0.60	0.00	0.22	0.06
	Total	**0.06**	**0.04**	**0.60**	**0.00**	**0.22**	**0.06**
TOTAL		***50.76***	***2.65***	***4.22***	***0.01***	***0.36***	***0.20***
Onsite	**2023**						
	Archit. Coating	50.31	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.38	2.61	3.62	0.01	0.14	0.14
	Total	**50.70**	**2.61**	**3.62**	**0.01**	**0.14**	**0.14**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.06	0.04	0.60	0.00	0.22	0.06
	Total	**0.06**	**0.04**	**0.60**	**0.00**	**0.22**	**0.06**
TOTAL		***50.76***	***2.65***	***4.22***	***0.01***	***0.36***	***0.20***

Finishing/Landscaping

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2024 Winter**						
	Off-Road		0.45	5.29	2.11	0.01	0.17	0.16
	Total		**0.45**	**5.29**	**2.11**	**0.01**	**0.17**	**0.16**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.01	0.01	0.08	0.00	0.03	0.01
	Total		**0.01**	**0.01**	**0.08**	**0.00**	**0.03**	**0.01**
TOTAL			***0.46***	***5.29***	***2.19***	***0.01***	***0.20***	***0.17***
Onsite		**2024**						
	Off-Road		0.45	5.29	2.11	0.01	0.17	0.16
	Total		**0.45**	**5.29**	**2.11**	**0.01**	**0.17**	**0.16**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.01	0.01	0.08	0.00	0.03	0.01
	Total		**0.01**	**0.01**	**0.08**	**0.00**	**0.03**	**0.01**
TOTAL			***0.46***	***5.29***	***2.19***	***0.01***	***0.20***	***0.17***

Paving

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2024** Winter						
	Off-Road		0.47	4.96	5.63	0.01	0.21	0.19
	Paving		3.87				0.00	0.00
	Total		**4.34**	**4.96**	**5.63**	**0.01**	**0.21**	**0.19**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.02	0.01	0.21	0.00	0.08	0.02
	Total		**0.02**	**0.01**	**0.21**	**0.00**	**0.08**	**0.02**
TOTAL			***4.36***	***4.97***	***5.84***	***0.01***	***0.29***	***0.22***
Onsite		**2024**						
	Off-Road		0.47	4.96	5.63	0.01	0.21	0.19
	Paving		3.87	0.00	0.00	0.00	0.00	0.00
	Total		**4.34**	**4.96**	**5.63**	**0.01**	**0.21**	**0.19**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.02	0.01	0.21	0.00	0.08	0.02
	Total		**0.02**	**0.01**	**0.21**	**0.00**	**0.08**	**0.02**
TOTAL			***4.36***	***4.97***	***5.84***	***0.01***	***0.29***	***0.22***

Residential Architectural Coating 2025

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2025** Winter						
	Archit. Coating		41.38				0.00	0.00
	Off-Road		0.34	2.29	3.62	0.01	0.10	0.10
	Total		**41.72**	**2.29**	**3.62**	**0.01**	**0.10**	**0.10**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.06	0.03	0.52	0.00	0.22	0.06
	Total		**0.06**	**0.03**	**0.52**	**0.00**	**0.22**	**0.06**
TOTAL			***41.78***	***2.32***	***4.14***	***0.01***	***0.32***	***0.16***
Onsite		**2025**						
	Archit. Coating		41.38	0.00	0.00	0.00	0.00	0.00
	Off-Road		0.34	2.29	3.62	0.01	0.10	0.10
	Total		**41.72**	**2.29**	**3.62**	**0.01**	**0.10**	**0.10**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.06	0.03	0.52	0.00	0.22	0.06
	Total		**0.06**	**0.03**	**0.52**	**0.00**	**0.22**	**0.06**
TOTAL			***41.78***	***2.32***	***4.14***	***0.01***	***0.32***	***0.16***

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Building Demolition	*2*	*12*	*13*	*0*	*1*	*0*
Building and Asphalt Demolition	*2*	*13*	*16*	*0*	*1*	*1*
Building and Asphalt Demolition and Debris Haul	*2*	*22*	*18*	*0*	*6*	*2*
Site Preparation and Soil Haul 2022	*9*	*110*	*67*	*0*	*10*	*4*
Site Preparation and Soil Haul 2023	*9*	*99*	*65*	*0*	*9*	*4*
Site Preparation and Soil Haul 2023 and Retail and Residential Building A Building Construction 2023	*10*	*110*	*81*	*0*	*13*	*5*
Retail and Residential Building A Building Construction 2023	*2*	*11*	*16*	*0*	*4*	*1*
Retail and Residential Building A Building Construction 2023 and Retail Architectural Coating	*52*	*14*	*20*	*0*	*4*	*1*
Retail and Residential Building A Building Construction 2024	*2*	*11*	*15*	*0*	*4*	*1*
Retail and Residential Building A Building Construction 2024, Paving, and Finishing/Landscaping	*6*	*21*	*23*	*0*	*4*	*2*
Retail and Residential Building A Building Construction 2024 and Finishing/Landscaping	*2*	*16*	*17*	*0*	*4*	*1*
Retail and Residential Building A Building Construction 2025	*2*	*10*	*15*	*0*	*4*	*1*
Retail and Residential Building A Building Construction 2025 Residential Architectural Coating	*43*	*13*	*19*	*0*	*4*	*1*
MAX DAILY	**52**	**110**	**81**	**0**	**13**	**5**
Regional Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	Yes	No	No	No	No

Regional Construction Emissions Worksheet (Option 2):

Building Demolition

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022 Winter**						
	Off-Road		1.73	11.31	12.77	0.04	0.46	0.45
	Total		**1.73**	**11.31**	**12.77**	**0.04**	**0.46**	**0.45**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.03	0.02	0.31	0.00	0.10	0.03
	Total		**0.04**	**0.21**	**0.37**	**0.00**	**0.13**	**0.04**
TOTAL			***1.77***	***11.52***	***13.15***	***0.04***	***0.59***	***0.48***
Onsite		**2022**						
	Off-Road		1.73	11.31	12.77	0.04	0.46	0.45
	Total		**1.73**	**11.31**	**12.77**	**0.04**	**0.46**	**0.45**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.03	0.02	0.31	0.00	0.10	0.03
	Total		**0.04**	**0.21**	**0.37**	**0.00**	**0.13**	**0.04**
TOTAL			***1.77***	***11.52***	***13.15***	***0.04***	***0.59***	***0.48***

Building Demolition Haul

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022 Winter**						
	Fugitive Dust						2.44	0.37
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**2.44**	**0.37**
Offsite								
	Hauling		0.11	4.31	1.18	0.02	0.46	0.15
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.11**	**4.31**	**1.18**	**0.02**	**0.46**	**0.15**
TOTAL			***0.11***	***4.31***	***1.18***	***0.02***	***2.90***	***0.52***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	2.44	0.37
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**2.44**	**0.37**
Offsite								
	Hauling		0.11	4.31	1.18	0.02	0.46	0.15
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.11**	**4.31**	**1.18**	**0.02**	**0.46**	**0.15**
TOTAL			***0.11***	***4.31***	***1.18***	***0.02***	***2.90***	***0.52***

Asphalt Demolition

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022 Winter**						
	Off-Road		0.16	1.68	2.24	0.00	0.09	0.08
	Total		**0.16**	**1.68**	**2.24**	**0.00**	**0.09**	**0.08**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.01	0.01	0.09	0.00	0.03	0.01
	Total		**0.02**	**0.19**	**0.16**	**0.00**	**0.06**	**0.02**
TOTAL			***0.18***	***1.87***	***2.40***	***0.00***	***0.15***	***0.10***
Onsite		**2022**						
	Off-Road		0.16	1.68	2.24	0.00	0.09	0.08
	Total		**0.16**	**1.68**	**2.24**	**0.00**	**0.09**	**0.08**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.01	0.01	0.09	0.00	0.03	0.01
	Total		**0.02**	**0.19**	**0.16**	**0.00**	**0.06**	**0.02**
TOTAL			***0.18***	***1.87***	***2.40***	***0.00***	***0.15***	***0.10***

Asphalt Demolition Haul

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Winter						
	Fugitive Dust						1.73	0.26
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**1.73**	**0.26**
Offsite								
	Hauling		0.11	4.40	1.21	0.02	0.47	0.15
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.11**	**4.40**	**1.21**	**0.02**	**0.47**	**0.15**
TOTAL			***0.11***	***4.40***	***1.21***	***0.02***	***2.20***	***0.41***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	1.73	0.26
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**1.73**	**0.26**
Offsite								
	Hauling		0.11	4.40	1.21	0.02	0.47	0.15
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.11**	**4.40**	**1.21**	**0.02**	**0.47**	**0.15**
TOTAL			***0.11***	***4.40***	***1.21***	***0.02***	***2.20***	***0.41***

Site Preparation 2022

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Winter						
	Fugitive Dust						4.53	0.49
	Off-Road		8.97	101.36	64.08	0.16	3.81	3.51
	Total		**8.97**	**101.36**	**64.08**	**0.16**	**8.35**	**4.00**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.11	0.08	1.07	0.00	0.36	0.10
	Total		**0.12**	**0.26**	**1.14**	**0.00**	**0.39**	**0.11**
TOTAL			***9.09***	***101.63***	***65.22***	***0.16***	***8.73***	***4.10***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	4.53	0.49
	Off-Road		8.97	101.36	64.08	0.16	3.81	3.51
	Total		**8.97**	**101.36**	**64.08**	**0.16**	**8.35**	**4.00**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.11	0.08	1.07	0.00	0.36	0.10
	Total		**0.12**	**0.26**	**1.14**	**0.00**	**0.39**	**0.11**
TOTAL			***9.09***	***101.63***	***65.22***	***0.16***	***8.73***	***4.10***

Site Preparation 2023

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2023** Winter						
	Fugitive Dust						4.53	0.49
	Off-Road		8.52	92.74	62.01	0.16	3.51	3.23
	Total		**8.52**	**92.74**	**62.01**	**0.16**	**8.04**	**3.72**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.15	0.06	0.00	0.02	0.01
	Worker		0.11	0.07	1.00	0.00	0.36	0.10
	Total		**0.11**	**0.22**	**1.06**	**0.00**	**0.39**	**0.11**
TOTAL			***8.63***	***92.96***	***63.07***	***0.16***	***8.43***	***3.82***
Onsite		**2023**						
	Fugitive Dust		0.00	0.00	0.00	0.00	4.53	0.49
	Off-Road		8.52	92.74	62.01	0.16	3.51	3.23
	Total		**8.52**	**92.74**	**62.01**	**0.16**	**8.04**	**3.72**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.15	0.06	0.00	0.02	0.01
	Worker		0.11	0.07	1.00	0.00	0.36	0.10
	Total		**0.11**	**0.22**	**1.06**	**0.00**	**0.39**	**0.11**
TOTAL			***8.63***	***92.96***	***63.07***	***0.16***	***8.43***	***3.82***

Site Preparation Soil Haul 2022		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022** Winter						
	Fugitive Dust					0.02	0.00
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**
Offsite							
	Hauling	0.19	7.91	2.17	0.03	0.85	0.27
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.19**	**7.91**	**2.17**	**0.03**	**0.85**	**0.27**
TOTAL		***0.19***	***7.91***	***2.17***	***0.03***	***0.87***	***0.28***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.02	0.00
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**
Offsite							
	Hauling	0.19	7.91	2.17	0.03	0.85	0.27
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.19**	**7.91**	**2.17**	**0.03**	**0.85**	**0.27**
TOTAL		***0.19***	***7.91***	***2.17***	***0.03***	***0.87***	***0.28***

Site Preparation Soil Haul 2023		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2023 Winter**						
	Fugitive Dust					0.02	0.00
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**
Offsite							
	Hauling	0.10	6.07	2.02	0.03	0.83	0.26
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.10**	**6.07**	**2.02**	**0.03**	**0.83**	**0.26**
TOTAL		***0.10***	***6.07***	***2.02***	***0.03***	***0.85***	***0.26***
Onsite	**2023**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.02	0.00
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**
Offsite							
	Hauling	0.10	6.07	2.02	0.03	0.83	0.26
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.10**	**6.07**	**2.02**	**0.03**	**0.83**	**0.26**
TOTAL		***0.10***	***6.07***	***2.02***	***0.03***	***0.85***	***0.26***

Retail and Residential Building A Building Construction 2023		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2023** Winter						
	Off-Road	0.72	6.67	6.01	0.01	0.28	0.26
	Total	**0.72**	**6.67**	**6.01**	**0.01**	**0.28**	**0.26**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.09	3.33	1.36	0.02	0.56	0.17
	Worker	2.80	1.80	25.89	0.08	9.43	2.55
	Total	**2.89**	**5.13**	**27.25**	**0.10**	**9.99**	**2.72**
TOTAL		***3.61***	***11.80***	***33.26***	***0.11***	***10.27***	***2.98***
Onsite	**2023**						
	Off-Road	0.72	6.67	6.01	0.01	0.28	0.26
	Total	**0.72**	**6.67**	**6.01**	**0.01**	**0.28**	**0.26**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.09	3.33	1.36	0.02	0.56	0.17
	Worker	2.80	1.80	25.89	0.08	9.43	2.55
	Total	**2.89**	**5.13**	**27.25**	**0.10**	**9.99**	**2.72**
TOTAL		***3.61***	***11.80***	***33.26***	***0.11***	***10.27***	***2.98***

Retail and Residential Building A Building Construction 2024							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2024 Winter**						
	Off-Road	0.70	6.39	5.89	0.01	0.26	0.24
	Total	**0.70**	**6.39**	**5.89**	**0.01**	**0.26**	**0.24**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.09	3.32	1.35	0.02	0.56	0.17
	Worker	2.64	1.62	24.12	0.08	9.43	2.55
	Total	**2.73**	**4.94**	**25.47**	**0.10**	**9.99**	**2.72**
TOTAL		***3.43***	***11.33***	***31.36***	***0.11***	***10.25***	***2.97***
Onsite	**2024**						
	Off-Road	0.70	6.39	5.89	0.01	0.26	0.24
	Total	**0.70**	**6.39**	**5.89**	**0.01**	**0.26**	**0.24**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.09	3.32	1.35	0.02	0.56	0.17
	Worker	2.64	1.62	24.12	0.08	9.43	2.55
	Total	**2.73**	**4.94**	**25.47**	**0.10**	**9.99**	**2.72**
TOTAL		***3.43***	***11.33***	***31.36***	***0.11***	***10.25***	***2.97***

Retail and Residential Building A Building Construction 2025							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2025 Winter**						
	Off-Road	0.67	5.92	5.74	0.01	0.24	0.22
	Total	**0.67**	**5.92**	**5.74**	**0.01**	**0.24**	**0.22**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.09	3.31	1.35	0.02	0.56	0.17
	Worker	2.50	1.46	22.65	0.08	9.42	2.55
	Total	**2.59**	**4.77**	**24.00**	**0.09**	**9.98**	**2.72**
TOTAL		***3.26***	***10.69***	***29.74***	***0.10***	***10.22***	***2.94***
Onsite	**2025**						
	Off-Road	0.67	5.92	5.74	0.01	0.24	0.22
	Total	**0.67**	**5.92**	**5.74**	**0.01**	**0.24**	**0.22**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.09	3.31	1.35	0.02	0.56	0.17
	Worker	2.50	1.46	22.65	0.08	9.42	2.55
	Total	**2.59**	**4.77**	**24.00**	**0.09**	**9.98**	**2.72**
TOTAL		***3.26***	***10.69***	***29.74***	***0.10***	***10.22***	***2.94***

Retail Architectural Coating 2023							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2023** Winter						
	Archit. Coating	26.15				0.00	0.00
	Off-Road	0.38	2.61	3.62	0.01	0.14	0.14
	Total	**26.53**	**2.61**	**3.62**	**0.01**	**0.14**	**0.14**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.56	0.36	5.18	0.02	1.89	0.51
	Total	**0.56**	**0.36**	**5.18**	**0.02**	**1.89**	**0.51**
TOTAL		***27.09***	***2.97***	***8.80***	***0.02***	***2.03***	***0.65***
Onsite	**2023**						
	Archit. Coating	26.15	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.38	2.61	3.62	0.01	0.14	0.14
	Total	**26.53**	**2.61**	**3.62**	**0.01**	**0.14**	**0.14**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.56	0.36	5.18	0.02	1.89	0.51
	Total	**0.56**	**0.36**	**5.18**	**0.02**	**1.89**	**0.51**
TOTAL		***27.09***	***2.97***	***8.80***	***0.02***	***2.03***	***0.65***

Residential Building A Architectural Coating 2025

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2023** Winter						
	Archit. Coating		41.38				0.00	0.00
	Off-Road		0.34	2.29	3.62	0.01	0.10	0.10
	Total		**41.72**	**2.29**	**3.62**	**0.01**	**0.10**	**0.10**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.50	0.29	4.53	0.02	1.88	0.51
	Total		**0.50**	**0.29**	**4.53**	**0.02**	**1.88**	**0.51**
TOTAL			***42.22***	***2.58***	***8.15***	***0.02***	***1.99***	***0.61***
Onsite		**2023**						
	Archit. Coating		41.38	0.00	0.00	0.00	0.00	0.00
	Off-Road		0.34	2.29	3.62	0.01	0.10	0.10
	Total		**41.72**	**2.29**	**3.62**	**0.01**	**0.10**	**0.10**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.50	0.29	4.53	0.02	1.88	0.51
	Total		**0.50**	**0.29**	**4.53**	**0.02**	**1.88**	**0.51**
TOTAL			***42.22***	***2.58***	***8.15***	***0.02***	***1.99***	***0.61***

Paving

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2024** Winter						
	Off-Road		0.47	4.96	5.63	0.01	0.21	0.19
	Paving		3.87				0.00	0.00
	Total		**4.34**	**4.96**	**5.63**	**0.01**	**0.21**	**0.19**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.02	0.01	0.21	0.00	0.08	0.02
	Total		**0.02**	**0.01**	**0.21**	**0.00**	**0.08**	**0.02**
TOTAL			***4.36***	***4.97***	***5.84***	***0.01***	***0.29***	***0.22***
Onsite		**2024**						
	Off-Road		0.47	4.96	5.63	0.01	0.21	0.19
	Paving		3.87	0.00	0.00	0.00	0.00	0.00
	Total		**4.34**	**4.96**	**5.63**	**0.01**	**0.21**	**0.19**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.02	0.01	0.21	0.00	0.08	0.02
	Total		**0.02**	**0.01**	**0.21**	**0.00**	**0.08**	**0.02**
TOTAL			***4.36***	***4.97***	***5.84***	***0.01***	***0.29***	***0.22***

Finishing/Landscaping

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2024 Winter**						
	Off-Road		0.45	5.29	2.11	0.01	0.17	0.16
	Total		**0.45**	**5.29**	**2.11**	**0.01**	**0.17**	**0.16**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.01	0.01	0.08	0.00	0.03	0.01
	Total		**0.01**	**0.01**	**0.08**	**0.00**	**0.03**	**0.01**
TOTAL			***0.46***	***5.29***	***2.19***	***0.01***	***0.20***	***0.17***
Onsite		**2024**						
	Off-Road		0.45	5.29	2.11	0.01	0.17	0.16
	Total		**0.45**	**5.29**	**2.11**	**0.01**	**0.17**	**0.16**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.01	0.01	0.08	0.00	0.03	0.01
	Total		**0.01**	**0.01**	**0.08**	**0.00**	**0.03**	**0.01**
TOTAL			***0.46***	***5.29***	***2.19***	***0.01***	***0.20***	***0.17***

Residential Building B Building Construction 2026							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2026 Winter**						
	Off-Road	0.67	5.92	5.74	0.01	0.24	0.22
	Total	**0.67**	**5.92**	**5.74**	**0.01**	**0.24**	**0.22**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.05	1.84	0.75	0.01	0.31	0.10
	Worker	2.38	1.34	21.42	0.07	9.42	2.54
	Total	**2.42**	**3.18**	**22.18**	**0.08**	**9.74**	**2.64**
TOTAL		***3.09***	***9.10***	***27.91***	***0.10***	***9.97***	***2.86***
Onsite	**2026**						
	Off-Road	0.67	5.92	5.74	0.01	0.24	0.22
	Total	**0.67**	**5.92**	**5.74**	**0.01**	**0.24**	**0.22**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.05	1.84	0.75	0.01	0.31	0.10
	Worker	2.38	1.34	21.42	0.07	9.42	2.54
	Total	**2.42**	**3.18**	**22.18**	**0.08**	**9.74**	**2.64**
TOTAL		***3.09***	***9.10***	***27.91***	***0.10***	***9.97***	***2.86***

Residential Building B Building Construction 2027							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2027 Winter**						
	Off-Road	0.67	5.92	5.74	0.01	0.24	0.22
	Total	**0.67**	**5.92**	**5.74**	**0.01**	**0.24**	**0.22**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.05	1.83	0.75	0.01	0.31	0.10
	Worker	2.26	1.23	20.38	0.07	9.42	2.54
	Total	**2.31**	**3.06**	**21.13**	**0.08**	**9.73**	**2.64**
TOTAL		***2.98***	***8.98***	***26.87***	***0.09***	***9.97***	***2.86***
Onsite	**2027**						
	Off-Road	0.67	5.92	5.74	0.01	0.24	0.22
	Total	**0.67**	**5.92**	**5.74**	**0.01**	**0.24**	**0.22**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.05	1.83	0.75	0.01	0.31	0.10
	Worker	2.26	1.23	20.38	0.07	9.42	2.54
	Total	**2.31**	**3.06**	**21.13**	**0.08**	**9.73**	**2.64**
TOTAL		***2.98***	***8.98***	***26.87***	***0.09***	***9.97***	***2.86***

Residential Building B Building Construction 2028							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2028 Winter**						
	Off-Road	0.67	5.92	5.74	0.01	0.24	0.22
	Total	**0.67**	**5.92**	**5.74**	**0.01**	**0.24**	**0.22**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.05	1.81	0.75	0.01	0.31	0.10
	Worker	2.16	1.15	19.50	0.07	9.42	2.54
	Total	**2.20**	**2.96**	**20.25**	**0.08**	**9.73**	**2.64**
TOTAL		***2.87***	***8.88***	***25.99***	***0.09***	***9.97***	***2.86***
Onsite	**2028**						
	Off-Road	0.67	5.92	5.74	0.01	0.24	0.22
	Total	**0.67**	**5.92**	**5.74**	**0.01**	**0.24**	**0.22**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.05	1.81	0.75	0.01	0.31	0.10
	Worker	2.16	1.15	19.50	0.07	9.42	2.54
	Total	**2.20**	**2.96**	**20.25**	**0.08**	**9.73**	**2.64**
TOTAL		***2.87***	***8.88***	***25.99***	***0.09***	***9.97***	***2.86***

Residential Architectural Coating 2028							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2028** Winter						
	Archit. Coating	35.70				0.00	0.00
	Off-Road	0.34	2.29	3.62	0.01	0.10	0.10
	Total	**36.04**	**2.29**	**3.62**	**0.01**	**0.10**	**0.10**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.43	0.23	3.90	0.01	1.88	0.51
	Total	**0.43**	**0.23**	**3.90**	**0.01**	**1.88**	**0.51**
TOTAL		***36.47***	***2.52***	***7.52***	***0.02***	***1.99***	***0.61***
Onsite	**2028**						
	Archit. Coating	35.70	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.34	2.29	3.62	0.01	0.10	0.10
	Total	**36.04**	**2.29**	**3.62**	**0.01**	**0.10**	**0.10**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.43	0.23	3.90	0.01	1.88	0.51
	Total	**0.43**	**0.23**	**3.90**	**0.01**	**1.88**	**0.51**
TOTAL		***36.47***	***2.52***	***7.52***	***0.02***	***1.99***	***0.61***

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Building Demolition	***2***	***12***	***13***	***0***	***1***	***0***
Building and Asphalt Demolition	***2***	***13***	***16***	***0***	***1***	***1***
Building and Asphalt Demolition and Debris Haul	***2***	***22***	***18***	***0***	***6***	***2***
Site Preparation and Soil Haul 2022	***9***	***110***	***67***	***0***	***10***	***4***
Site Preparation and Soil Haul 2023	***9***	***99***	***65***	***0***	***9***	***4***
Site Preparation and Soil Haul 2023 and Retail and Residential Building A Building Construction 2023	***12***	***111***	***98***	***0***	***20***	***7***
Retail and Residential Building A Building Construction 2023	***4***	***12***	***33***	***0***	***10***	***3***
Retail and Residential Building A Building Construction 2023 and Retail Architectural Coating	***31***	***15***	***42***	***0***	***12***	***4***
Retail and Residential Building A Building Construction 2024	***3***	***11***	***31***	***0***	***10***	***3***
Retail and Residential Building A Building Construction 2024, Paving, and Finishing/Landscaping	***8***	***22***	***39***	***0***	***11***	***3***
Retail and Residential Building A Building Construction 2024 and Finishing/Landscaping	***4***	***17***	***34***	***0***	***10***	***3***
Retail and Residential Building A Building Construction 2025	***3***	***11***	***30***	***0***	***10***	***3***
Retail and Residential Building A Building Construction 2025 and Residential Building A Architectural Coating	***30***	***14***	***39***	***0***	***12***	***4***
Residential Building B Building Construction 2026	***3***	***9***	***28***	***0***	***10***	***3***
Residential Building B Building Construction 2027	***3***	***9***	***27***	***0***	***10***	***3***
Residential Building B Building Construction 2028	***3***	***9***	***26***	***0***	***10***	***3***
Residential Building B Building Construction 2028 and Residential Building B Architectural Coating	***39***	***11***	***34***	***0***	***12***	***3***
MAX DAILY	**42**	**111**	**98**	**0**	**20**	**7**
Regional Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	Yes	No	No	No	No

Regional Construction Emissions Worksheet (Option 1):

Building Demolition

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022 Winter**						
	Off-Road		0.43	1.87	19.43	0.04	0.06	0.06
	Total		**0.43**	**1.87**	**19.43**	**0.04**	**0.06**	**0.06**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.03	0.02	0.31	0.00	0.10	0.03
	Total		**0.04**	**0.21**	**0.37**	**0.00**	**0.13**	**0.04**
TOTAL			***0.47***	***2.08***	***19.80***	***0.04***	***0.19***	***0.09***
Onsite		**2022**						
	Off-Road		0.43	1.87	19.43	0.04	0.06	0.06
	Total		**0.43**	**1.87**	**19.43**	**0.04**	**0.06**	**0.06**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.03	0.02	0.31	0.00	0.10	0.03
	Total		**0.04**	**0.21**	**0.37**	**0.00**	**0.13**	**0.04**
TOTAL			***0.47***	***2.08***	***19.80***	***0.04***	***0.19***	***0.09***

Building Demolition Haul

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Winter						
	Fugitive Dust						2.44	0.37
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**2.44**	**0.37**
Offsite								
	Hauling		0.11	4.31	1.18	0.02	0.46	0.15
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.11**	**4.31**	**1.18**	**0.02**	**0.46**	**0.15**
TOTAL			***0.11***	***4.31***	***1.18***	***0.02***	***2.90***	***0.52***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	2.44	0.37
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**2.44**	**0.37**
Offsite								
	Hauling		0.11	4.31	1.18	0.02	0.46	0.15
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.11**	**4.31**	**1.18**	**0.02**	**0.46**	**0.15**
TOTAL			***0.11***	***4.31***	***1.18***	***0.02***	***2.90***	***0.52***

Asphalt Demolition

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Winter						
	Off-Road		0.04	0.16	2.34	0.00	0.01	0.01
	Total		**0.04**	**0.16**	**2.34**	**0.00**	**0.01**	**0.01**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.01	0.01	0.09	0.00	0.03	0.01
	Total		**0.02**	**0.19**	**0.16**	**0.00**	**0.06**	**0.02**
TOTAL			***0.05***	***0.36***	***2.50***	***0.00***	***0.06***	***0.02***
Onsite		**2022**						
	Off-Road		0.04	0.16	2.34	0.00	0.01	0.01
	Total		**0.04**	**0.16**	**2.34**	**0.00**	**0.01**	**0.01**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.01	0.01	0.09	0.00	0.03	0.01
	Total		**0.02**	**0.19**	**0.16**	**0.00**	**0.06**	**0.02**
TOTAL			***0.05***	***0.36***	***2.50***	***0.00***	***0.06***	***0.02***

Asphalt Demolition Haul

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Winter						
	Fugitive Dust						1.73	0.26
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**1.73**	**0.26**
Offsite								
	Hauling		0.11	4.40	1.21	0.02	0.47	0.15
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.11**	**4.40**	**1.21**	**0.02**	**0.47**	**0.15**
TOTAL			***0.11***	***4.40***	***1.21***	***0.02***	***2.20***	***0.41***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	1.73	0.26
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**1.73**	**0.26**
Offsite								
	Hauling		0.11	4.40	1.21	0.02	0.47	0.15
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.11**	**4.40**	**1.21**	**0.02**	**0.47**	**0.15**
TOTAL			***0.11***	***4.40***	***1.21***	***0.02***	***2.20***	***0.41***

Site Preparation 2022

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Winter						
	Fugitive Dust						4.53	0.49
	Off-Road		1.97	8.56	74.38	0.16	0.26	0.26
	Total		**1.97**	**8.56**	**74.38**	**0.16**	**4.80**	**0.75**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.11	0.08	1.07	0.00	0.36	0.10
	Total		**0.12**	**0.26**	**1.14**	**0.00**	**0.39**	**0.11**
TOTAL			***2.10***	***8.82***	***75.51***	***0.16***	***5.19***	***0.86***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	4.53	0.49
	Off-Road		1.97	8.56	74.38	0.16	0.26	0.26
	Total		**1.97**	**8.56**	**74.38**	**0.16**	**4.80**	**0.75**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.11	0.08	1.07	0.00	0.36	0.10
	Total		**0.12**	**0.26**	**1.14**	**0.00**	**0.39**	**0.11**
TOTAL			***2.10***	***8.82***	***75.51***	***0.16***	***5.19***	***0.86***

Site Preparation 2023

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2023** Winter						
	Fugitive Dust						4.53	0.49
	Off-Road		1.97	8.56	74.38	0.16	0.26	0.26
	Total		**1.97**	**8.56**	**74.38**	**0.16**	**4.80**	**0.75**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.15	0.06	0.00	0.02	0.01
	Worker		0.11	0.07	1.00	0.00	0.36	0.10
	Total		**0.11**	**0.22**	**1.06**	**0.00**	**0.39**	**0.11**
TOTAL			***2.09***	***8.77***	***75.43***	***0.16***	***5.18***	***0.86***
Onsite		**2023**						
	Fugitive Dust		0.00	0.00	0.00	0.00	4.53	0.49
	Off-Road		1.97	8.56	74.38	0.16	0.26	0.26
	Total		**1.97**	**8.56**	**74.38**	**0.16**	**4.80**	**0.75**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.15	0.06	0.00	0.02	0.01
	Worker		0.11	0.07	1.00	0.00	0.36	0.10
	Total		**0.11**	**0.22**	**1.06**	**0.00**	**0.39**	**0.11**
TOTAL			***2.09***	***8.77***	***75.43***	***0.16***	***5.18***	***0.86***

Site Preparation Soil Haul 2022		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022** Winter						
	Fugitive Dust					0.02	0.00
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**
Offsite							
	Hauling	0.19	7.91	2.17	0.03	0.85	0.27
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.19**	**7.91**	**2.17**	**0.03**	**0.85**	**0.27**
TOTAL		***0.19***	***7.91***	***2.17***	***0.03***	***0.87***	***0.28***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.02	0.00
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**
Offsite							
	Hauling	0.19	7.91	2.17	0.03	0.85	0.27
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.19**	**7.91**	**2.17**	**0.03**	**0.85**	**0.27**
TOTAL		***0.19***	***7.91***	***2.17***	***0.03***	***0.87***	***0.28***

Site Preparation Soil Haul 2023		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2023 Winter**						
	Fugitive Dust					0.02	0.00
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**
Offsite							
	Hauling	0.10	6.07	2.02	0.03	0.83	0.26
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.10**	**6.07**	**2.02**	**0.03**	**0.83**	**0.26**
TOTAL		***0.10***	***6.07***	***2.02***	***0.03***	***0.85***	***0.26***
Onsite	**2023**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.02	0.00
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**
Offsite							
	Hauling	0.10	6.07	2.02	0.03	0.83	0.26
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.10**	**6.07**	**2.02**	**0.03**	**0.83**	**0.26**
TOTAL		***0.10***	***6.07***	***2.02***	***0.03***	***0.85***	***0.26***

Retail and Residential Building A Building Construction 2023		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2023** Winter						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.11	4.10	1.68	0.02	0.69	0.21
	Worker	0.88	0.57	8.16	0.03	2.97	0.80
	Total	**0.99**	**4.67**	**9.84**	**0.05**	**3.66**	**1.02**
TOTAL		***1.33***	***6.51***	***16.25***	***0.06***	***3.73***	***1.08***
Onsite	**2023**						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.11	4.10	1.68	0.02	0.69	0.21
	Worker	0.88	0.57	8.16	0.03	2.97	0.80
	Total	**0.99**	**4.67**	**9.84**	**0.05**	**3.66**	**1.02**
TOTAL		***1.33***	***6.51***	***16.25***	***0.06***	***3.73***	***1.08***

Retail and Residential Building A Building Construction 2024							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2024 Winter**						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.11	4.09	1.67	0.02	0.69	0.22
	Worker	0.83	0.51	7.61	0.03	2.97	0.80
	Total	**0.94**	**4.60**	**9.27**	**0.04**	**3.66**	**1.02**
TOTAL		***1.27***	***6.44***	***15.68***	***0.06***	***3.73***	***1.08***
Onsite	**2024**						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.11	4.09	1.67	0.02	0.69	0.22
	Worker	0.83	0.51	7.61	0.03	2.97	0.80
	Total	**0.94**	**4.60**	**9.27**	**0.04**	**3.66**	**1.02**
TOTAL		***1.27***	***6.44***	***15.68***	***0.06***	***3.73***	***1.08***

Retail and Residential Building A Building Construction 2025							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2025 Winter**						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.11	4.07	1.66	0.02	0.69	0.22
	Worker	0.79	0.46	7.14	0.02	2.97	0.80
	Total	**0.89**	**4.53**	**8.80**	**0.04**	**3.66**	**1.02**
TOTAL		***1.23***	***6.38***	***15.21***	***0.06***	***3.73***	***1.08***
Onsite	**2025**						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.11	4.07	1.66	0.02	0.69	0.22
	Worker	0.79	0.46	7.14	0.02	2.97	0.80
	Total	**0.89**	**4.53**	**8.80**	**0.04**	**3.66**	**1.02**
TOTAL		***1.23***	***6.38***	***15.21***	***0.06***	***3.73***	***1.08***

Retail Architectural Coating 2023							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2023** Winter						
	Archit. Coating	50.31				0.00	0.00
	Off-Road	0.06	0.26	3.66	0.01	0.01	0.01
	Total	**50.37**	**0.26**	**3.66**	**0.01**	**0.01**	**0.01**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.06	0.04	0.60	0.00	0.22	0.06
	Total	**0.06**	**0.04**	**0.60**	**0.00**	**0.22**	**0.06**
TOTAL		***50.44***	***0.30***	***4.26***	***0.01***	***0.23***	***0.07***
Onsite	**2023**						
	Archit. Coating	50.31	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.06	0.26	3.66	0.01	0.01	0.01
	Total	**50.37**	**0.26**	**3.66**	**0.01**	**0.01**	**0.01**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.06	0.04	0.60	0.00	0.22	0.06
	Total	**0.06**	**0.04**	**0.60**	**0.00**	**0.22**	**0.06**
TOTAL		***50.44***	***0.30***	***4.26***	***0.01***	***0.23***	***0.07***

Finishing/Landscaping

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2024 Winter**						
	Off-Road	0.10	0.45	3.79	0.01	0.01	0.01
	Total	**0.10**	**0.45**	**3.79**	**0.01**	**0.01**	**0.01**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.01	0.08	0.00	0.03	0.01
	Total	**0.01**	**0.01**	**0.08**	**0.00**	**0.03**	**0.01**
TOTAL		***0.11***	***0.45***	***3.87***	***0.01***	***0.04***	***0.02***
Onsite	**2024**						
	Off-Road	0.10	0.45	3.79	0.01	0.01	0.01
	Total	**0.10**	**0.45**	**3.79**	**0.01**	**0.01**	**0.01**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.01	0.08	0.00	0.03	0.01
	Total	**0.01**	**0.01**	**0.08**	**0.00**	**0.03**	**0.01**
TOTAL		***0.11***	***0.45***	***3.87***	***0.01***	***0.04***	***0.02***

Paving

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2024** Winter						
	Off-Road	0.16	0.68	7.54	0.01	0.02	0.02
	Paving	3.87				0.00	0.00
	Total	**4.03**	**0.68**	**7.54**	**0.01**	**0.02**	**0.02**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.21	0.00	0.08	0.02
	Total	**0.02**	**0.01**	**0.21**	**0.00**	**0.08**	**0.02**
TOTAL		***4.05***	***0.69***	***7.75***	***0.01***	***0.10***	***0.04***
Onsite	**2024**						
	Off-Road	0.16	0.68	7.54	0.01	0.02	0.02
	Paving	3.87	0.00	0.00	0.00	0.00	0.00
	Total	**4.03**	**0.68**	**7.54**	**0.01**	**0.02**	**0.02**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.21	0.00	0.08	0.02
	Total	**0.02**	**0.01**	**0.21**	**0.00**	**0.08**	**0.02**
TOTAL		***4.05***	***0.69***	***7.75***	***0.01***	***0.10***	***0.04***

Residential Architectural Coating 2025

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2025** Winter						
	Archit. Coating	41.38				0.00	0.00
	Off-Road	0.06	0.26	3.66	0.01	0.01	0.01
	Total	**41.44**	**0.26**	**3.66**	**0.01**	**0.01**	**0.01**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.06	0.03	0.52	0.00	0.22	0.06
	Total	**0.06**	**0.03**	**0.52**	**0.00**	**0.22**	**0.06**
TOTAL		***41.50***	***0.29***	***4.19***	***0.01***	***0.23***	***0.07***
Onsite	**2025**						
	Archit. Coating	41.38	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.06	0.26	3.66	0.01	0.01	0.01
	Total	**41.44**	**0.26**	**3.66**	**0.01**	**0.01**	**0.01**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.06	0.03	0.52	0.00	0.22	0.06
	Total	**0.06**	**0.03**	**0.52**	**0.00**	**0.22**	**0.06**
TOTAL		***41.50***	***0.29***	***4.19***	***0.01***	***0.23***	***0.07***

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Building Demolition	*0*	*2*	*20*	*0*	*0*	*0*
Building and Asphalt Demolition	*1*	*2*	*22*	*0*	*0*	*0*
Building and Asphalt Demolition and Debris Haul	*1*	*11*	*25*	*0*	*5*	*1*
Site Preparation and Soil Haul 2022	*2*	*17*	*78*	*0*	*6*	*1*
Site Preparation and Soil Haul 2023	*2*	*15*	*77*	*0*	*6*	*1*
Site Preparation and Soil Haul 2023 and Retail and Residential Building A Building Construction 2023	*4*	*21*	*94*	*0*	*10*	*2*
Retail and Residential Building A Building Construction 2023	*1*	*7*	*16*	*0*	*4*	*1*
Retail and Residential Building A Building Construction 2023 and Retail Architectural Coating	*52*	*7*	*21*	*0*	*4*	*1*
Retail and Residential Building A Building Construction 2024	*1*	*6*	*16*	*0*	*4*	*1*
Retail and Residential Building A Building Construction 2024, Paving, and Finishing/Landscaping	*5*	*8*	*27*	*0*	*4*	*1*
Retail and Residential Building A Building Construction 2024 and Finishing/Landscaping	*1*	*7*	*20*	*0*	*4*	*1*
Retail and Residential Building A Building Construction 2025	*1*	*6*	*15*	*0*	*4*	*1*
Retail and Residential Building A Building Construction 2025 Residential Architectural Coating	*43*	*7*	*19*	*0*	*4*	*1*
MAX DAILY	**52**	**21**	**94**	**0**	**10**	**2**
Regional Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

Regional Construction Emissions Worksheet (Option 2):

Building Demolition

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022 Winter**						
	Off-Road		0.43	1.87	19.43	0.04	0.06	0.06
	Total		**0.43**	**1.87**	**19.43**	**0.04**	**0.06**	**0.06**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.03	0.02	0.31	0.00	0.10	0.03
	Total		**0.04**	**0.21**	**0.37**	**0.00**	**0.13**	**0.04**
TOTAL			***0.47***	***2.08***	***19.80***	***0.04***	***0.19***	***0.09***
Onsite		**2022**						
	Off-Road		0.43	1.87	19.43	0.04	0.06	0.06
	Total		**0.43**	**1.87**	**19.43**	**0.04**	**0.06**	**0.06**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.03	0.02	0.31	0.00	0.10	0.03
	Total		**0.04**	**0.21**	**0.37**	**0.00**	**0.13**	**0.04**
TOTAL			***0.47***	***2.08***	***19.80***	***0.04***	***0.19***	***0.09***

Building Demolition Haul

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Winter						
	Fugitive Dust						2.44	0.37
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**2.44**	**0.37**
Offsite								
	Hauling		0.11	4.31	1.18	0.02	0.46	0.15
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.11**	**4.31**	**1.18**	**0.02**	**0.46**	**0.15**
TOTAL			***0.11***	***4.31***	***1.18***	***0.02***	***2.90***	***0.52***
Onsite		**2022**						
	Fugitive Dust		0.00	0.00	0.00	0.00	2.44	0.37
	Off-Road		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**	**2.44**	**0.37**
Offsite								
	Hauling		0.11	4.31	1.18	0.02	0.46	0.15
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		**0.11**	**4.31**	**1.18**	**0.02**	**0.46**	**0.15**
TOTAL			***0.11***	***4.31***	***1.18***	***0.02***	***2.90***	***0.52***

Asphalt Demolition

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2022** Winter						
	Off-Road		0.04	0.16	2.34	0.00	0.01	0.01
	Total		**0.04**	**0.16**	**2.34**	**0.00**	**0.01**	**0.01**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.01	0.01	0.09	0.00	0.03	0.01
	Total		**0.02**	**0.19**	**0.16**	**0.00**	**0.06**	**0.02**
TOTAL			***0.05***	***0.36***	***2.50***	***0.00***	***0.06***	***0.02***
Onsite		**2022**						
	Off-Road		0.04	0.16	2.34	0.00	0.01	0.01
	Total		**0.04**	**0.16**	**2.34**	**0.00**	**0.01**	**0.01**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.19	0.07	0.00	0.03	0.01
	Worker		0.01	0.01	0.09	0.00	0.03	0.01
	Total		**0.02**	**0.19**	**0.16**	**0.00**	**0.06**	**0.02**
TOTAL			***0.05***	***0.36***	***2.50***	***0.00***	***0.06***	***0.02***

Asphalt Demolition Haul

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022** Winter						
	Fugitive Dust					1.73	0.26
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**1.73**	**0.26**
Offsite							
	Hauling	0.11	4.40	1.21	0.02	0.47	0.15
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.11**	**4.40**	**1.21**	**0.02**	**0.47**	**0.15**
TOTAL		***0.11***	***4.40***	***1.21***	***0.02***	***2.20***	***0.41***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	1.73	0.26
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**1.73**	**0.26**
Offsite							
	Hauling	0.11	4.40	1.21	0.02	0.47	0.15
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.11**	**4.40**	**1.21**	**0.02**	**0.47**	**0.15**
TOTAL		***0.11***	***4.40***	***1.21***	***0.02***	***2.20***	***0.41***

Site Preparation 2022

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022** Winter						
	Fugitive Dust					4.53	0.49
	Off-Road	1.97	8.56	74.38	0.16	0.26	0.26
	Total	**1.97**	**8.56**	**74.38**	**0.16**	**4.80**	**0.75**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.19	0.07	0.00	0.03	0.01
	Worker	0.11	0.08	1.07	0.00	0.36	0.10
	Total	**0.12**	**0.26**	**1.14**	**0.00**	**0.39**	**0.11**
TOTAL		***2.10***	***8.82***	***75.51***	***0.16***	***5.19***	***0.86***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	4.53	0.49
	Off-Road	1.97	8.56	74.38	0.16	0.26	0.26
	Total	**1.97**	**8.56**	**74.38**	**0.16**	**4.80**	**0.75**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.19	0.07	0.00	0.03	0.01
	Worker	0.11	0.08	1.07	0.00	0.36	0.10
	Total	**0.12**	**0.26**	**1.14**	**0.00**	**0.39**	**0.11**
TOTAL		***2.10***	***8.82***	***75.51***	***0.16***	***5.19***	***0.86***

Site Preparation 2023

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2023** Winter						
	Fugitive Dust					4.53	0.49
	Off-Road	1.97	8.56	74.38	0.16	0.26	0.26
	Total	**1.97**	**8.56**	**74.38**	**0.16**	**4.80**	**0.75**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.15	0.06	0.00	0.02	0.01
	Worker	0.11	0.07	1.00	0.00	0.36	0.10
	Total	**0.11**	**0.22**	**1.06**	**0.00**	**0.39**	**0.11**
TOTAL		***2.09***	***8.77***	***75.43***	***0.16***	***5.18***	***0.86***
Onsite	**2023**						
	Fugitive Dust	0.00	0.00	0.00	0.00	4.53	0.49
	Off-Road	1.97	8.56	74.38	0.16	0.26	0.26
	Total	**1.97**	**8.56**	**74.38**	**0.16**	**4.80**	**0.75**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.15	0.06	0.00	0.02	0.01
	Worker	0.11	0.07	1.00	0.00	0.36	0.10
	Total	**0.11**	**0.22**	**1.06**	**0.00**	**0.39**	**0.11**
TOTAL		***2.09***	***8.77***	***75.43***	***0.16***	***5.18***	***0.86***

Site Preparation Soil Haul 2022		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2022** Winter						
	Fugitive Dust					0.02	0.00
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**
Offsite							
	Hauling	0.19	7.91	2.17	0.03	0.85	0.27
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.19**	**7.91**	**2.17**	**0.03**	**0.85**	**0.27**
TOTAL		***0.19***	***7.91***	***2.17***	***0.03***	***0.87***	***0.28***
Onsite	**2022**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.02	0.00
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**
Offsite							
	Hauling	0.19	7.91	2.17	0.03	0.85	0.27
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.19**	**7.91**	**2.17**	**0.03**	**0.85**	**0.27**
TOTAL		***0.19***	***7.91***	***2.17***	***0.03***	***0.87***	***0.28***

Site Preparation Soil Haul 2023		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2023 Winter**						
	Fugitive Dust					0.02	0.00
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**
Offsite							
	Hauling	0.10	6.07	2.02	0.03	0.83	0.26
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.10**	**6.07**	**2.02**	**0.03**	**0.83**	**0.26**
TOTAL		***0.10***	***6.07***	***2.02***	***0.03***	***0.85***	***0.26***
Onsite	**2023**						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.02	0.00
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**
Offsite							
	Hauling	0.10	6.07	2.02	0.03	0.83	0.26
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.10**	**6.07**	**2.02**	**0.03**	**0.83**	**0.26**
TOTAL		***0.10***	***6.07***	***2.02***	***0.03***	***0.85***	***0.26***

Retail and Residential Building A Building Construction 2023		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2023** Winter						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.09	3.33	1.36	0.02	0.56	0.17
	Worker	2.80	1.80	25.89	0.08	9.43	2.55
	Total	**2.89**	**5.13**	**27.25**	**0.10**	**9.99**	**2.72**
TOTAL		***3.22***	***6.98***	***33.66***	***0.11***	***10.05***	***2.79***
Onsite	**2023**						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.09	3.33	1.36	0.02	0.56	0.17
	Worker	2.80	1.80	25.89	0.08	9.43	2.55
	Total	**2.89**	**5.13**	**27.25**	**0.10**	**9.99**	**2.72**
TOTAL		***3.22***	***6.98***	***33.66***	***0.11***	***10.05***	***2.79***

Retail and Residential Building A Building Construction 2024							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2024 Winter**						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.09	3.32	1.35	0.02	0.56	0.17
	Worker	2.64	1.62	24.12	0.08	9.43	2.55
	Total	**2.73**	**4.94**	**25.47**	**0.10**	**9.99**	**2.72**
TOTAL		***3.06***	***6.78***	***31.88***	***0.11***	***10.05***	***2.79***
Onsite	**2024**						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.09	3.32	1.35	0.02	0.56	0.17
	Worker	2.64	1.62	24.12	0.08	9.43	2.55
	Total	**2.73**	**4.94**	**25.47**	**0.10**	**9.99**	**2.72**
TOTAL		***3.06***	***6.78***	***31.88***	***0.11***	***10.05***	***2.79***

Retail and Residential Building A Building Construction 2025							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2025 Winter**						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.09	3.31	1.35	0.02	0.56	0.17
	Worker	2.50	1.46	22.65	0.08	9.42	2.55
	Total	**2.59**	**4.77**	**24.00**	**0.09**	**9.98**	**2.72**
TOTAL		***2.92***	***6.62***	***30.41***	***0.10***	***10.05***	***2.79***
Onsite	**2025**						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.09	3.31	1.35	0.02	0.56	0.17
	Worker	2.50	1.46	22.65	0.08	9.42	2.55
	Total	**2.59**	**4.77**	**24.00**	**0.09**	**9.98**	**2.72**
TOTAL		***2.92***	***6.62***	***30.41***	***0.10***	***10.05***	***2.79***

Retail Architectural Coating 2023							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2023** Winter						
	Archit. Coating	26.15				0.00	0.00
	Off-Road	0.06	0.26	3.66	0.01	0.01	0.01
	Total	**26.21**	**0.26**	**3.66**	**0.01**	**0.01**	**0.01**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.56	0.36	5.18	0.02	1.89	0.51
	Total	**0.56**	**0.36**	**5.18**	**0.02**	**1.89**	**0.51**
TOTAL		***26.77***	***0.62***	***8.84***	***0.02***	***1.89***	***0.52***
Onsite	**2023**						
	Archit. Coating	26.15	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.06	0.26	3.66	0.01	0.01	0.01
	Total	**26.21**	**0.26**	**3.66**	**0.01**	**0.01**	**0.01**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.56	0.36	5.18	0.02	1.89	0.51
	Total	**0.56**	**0.36**	**5.18**	**0.02**	**1.89**	**0.51**
TOTAL		***26.77***	***0.62***	***8.84***	***0.02***	***1.89***	***0.52***

Residential Building A Architectural Coating 2025

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2023** Winter						
	Archit. Coating		41.38				0.00	0.00
	Off-Road		0.06	0.26	3.66	0.01	0.01	0.01
	Total		**41.44**	**0.26**	**3.66**	**0.01**	**0.01**	**0.01**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.50	0.29	4.53	0.02	1.88	0.51
	Total		**0.50**	**0.29**	**4.53**	**0.02**	**1.88**	**0.51**
TOTAL			***41.94***	***0.55***	***8.20***	***0.02***	***1.89***	***0.52***
Onsite		**2023**						
	Archit. Coating		41.38	0.00	0.00	0.00	0.00	0.00
	Off-Road		0.06	0.26	3.66	0.01	0.01	0.01
	Total		**41.44**	**0.26**	**3.66**	**0.01**	**0.01**	**0.01**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.50	0.29	4.53	0.02	1.88	0.51
	Total		**0.50**	**0.29**	**4.53**	**0.02**	**1.88**	**0.51**
TOTAL			***41.94***	***0.55***	***8.20***	***0.02***	***1.89***	***0.52***

Paving

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2024** Winter						
	Off-Road		0.16	0.68	7.54	0.01	0.02	0.02
	Paving		3.87				0.00	0.00
	Total		**4.03**	**0.68**	**7.54**	**0.01**	**0.02**	**0.02**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.02	0.01	0.21	0.00	0.08	0.02
	Total		**0.02**	**0.01**	**0.21**	**0.00**	**0.08**	**0.02**
TOTAL			***4.05***	***0.69***	***7.75***	***0.01***	***0.10***	***0.04***
Onsite		**2024**						
	Off-Road		0.16	0.68	7.54	0.01	0.02	0.02
	Paving		3.87	0.00	0.00	0.00	0.00	0.00
	Total		**4.03**	**0.68**	**7.54**	**0.01**	**0.02**	**0.02**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.02	0.01	0.21	0.00	0.08	0.02
	Total		**0.02**	**0.01**	**0.21**	**0.00**	**0.08**	**0.02**
TOTAL			***4.05***	***0.69***	***7.75***	***0.01***	***0.10***	***0.04***

Finishing/Landscaping

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		**2024 Winter**						
	Off-Road		0.10	0.45	3.79	0.01	0.01	0.01
	Total		**0.10**	**0.45**	**3.79**	**0.01**	**0.01**	**0.01**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.01	0.01	0.08	0.00	0.03	0.01
	Total		**0.01**	**0.01**	**0.08**	**0.00**	**0.03**	**0.01**
TOTAL			***0.11***	***0.45***	***3.87***	***0.01***	***0.04***	***0.02***
Onsite		**2024**						
	Off-Road		0.10	0.45	3.79	0.01	0.01	0.01
	Total		**0.10**	**0.45**	**3.79**	**0.01**	**0.01**	**0.01**
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.01	0.01	0.08	0.00	0.03	0.01
	Total		**0.01**	**0.01**	**0.08**	**0.00**	**0.03**	**0.01**
TOTAL			***0.11***	***0.45***	***3.87***	***0.01***	***0.04***	***0.02***

Residential Building B Building Construction 2026							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2026 Winter**						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.05	1.84	0.75	0.01	0.31	0.10
	Worker	2.38	1.34	21.42	0.07	9.42	2.54
	Total	**2.42**	**3.18**	**22.18**	**0.08**	**9.74**	**2.64**
TOTAL		***2.76***	***5.02***	***28.59***	***0.10***	***9.80***	***2.71***
Onsite	**2026**						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.05	1.84	0.75	0.01	0.31	0.10
	Worker	2.38	1.34	21.42	0.07	9.42	2.54
	Total	**2.42**	**3.18**	**22.18**	**0.08**	**9.74**	**2.64**
TOTAL		***2.76***	***5.02***	***28.59***	***0.10***	***9.80***	***2.71***

Residential Building B Building Construction 2027							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2027 Winter**						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.05	1.83	0.75	0.01	0.31	0.10
	Worker	2.26	1.23	20.38	0.07	9.42	2.54
	Total	**2.31**	**3.06**	**21.13**	**0.08**	**9.73**	**2.64**
TOTAL		***2.64***	***4.91***	***27.54***	***0.09***	***9.80***	***2.70***
Onsite	**2027**						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.05	1.83	0.75	0.01	0.31	0.10
	Worker	2.26	1.23	20.38	0.07	9.42	2.54
	Total	**2.31**	**3.06**	**21.13**	**0.08**	**9.73**	**2.64**
TOTAL		***2.64***	***4.91***	***27.54***	***0.09***	***9.80***	***2.70***

Residential Building B Building Construction 2028							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2028 Winter**						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.05	1.81	0.75	0.01	0.31	0.10
	Worker	2.16	1.15	19.50	0.07	9.42	2.54
	Total	**2.20**	**2.96**	**20.25**	**0.08**	**9.73**	**2.64**
TOTAL		***2.53***	***4.81***	***26.66***	***0.09***	***9.79***	***2.70***
Onsite	**2028**						
	Off-Road	0.33	1.85	6.41	0.01	0.07	0.07
	Total	**0.33**	**1.85**	**6.41**	**0.01**	**0.07**	**0.07**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.05	1.81	0.75	0.01	0.31	0.10
	Worker	2.16	1.15	19.50	0.07	9.42	2.54
	Total	**2.20**	**2.96**	**20.25**	**0.08**	**9.73**	**2.64**
TOTAL		***2.53***	***4.81***	***26.66***	***0.09***	***9.79***	***2.70***

Residential Architectural Coating 2028							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	**2028** Winter						
	Archit. Coating	35.70				0.00	0.00
	Off-Road	0.06	0.26	3.66	0.01	0.01	0.01
	Total	**35.76**	**0.26**	**3.66**	**0.01**	**0.01**	**0.01**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.43	0.23	3.90	0.01	1.88	0.51
	Total	**0.43**	**0.23**	**3.90**	**0.01**	**1.88**	**0.51**
TOTAL		***36.19***	***0.49***	***7.57***	***0.02***	***1.89***	***0.52***
Onsite	**2028**						
	Archit. Coating	35.70	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.06	0.26	3.66	0.01	0.01	0.01
	Total	**35.76**	**0.26**	**3.66**	**0.01**	**0.01**	**0.01**
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.43	0.23	3.90	0.01	1.88	0.51
	Total	**0.43**	**0.23**	**3.90**	**0.01**	**1.88**	**0.51**
TOTAL		***36.19***	***0.49***	***7.57***	***0.02***	***1.89***	***0.52***

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Building Demolition	***0***	***2***	***20***	***0***	***0***	***0***
Building and Asphalt Demolition	***1***	***2***	***22***	***0***	***0***	***0***
Building and Asphalt Demolition and Debris Haul	***1***	***11***	***25***	***0***	***5***	***1***
Site Preparation and Soil Haul 2022	***2***	***17***	***78***	***0***	***6***	***1***
Site Preparation and Soil Haul 2023	***2***	***15***	***77***	***0***	***6***	***1***
Site Preparation and Soil Haul 2023 and Retail and Residential Building A Building Construction 2023	***5***	***22***	***111***	***0***	***16***	***4***
Retail and Residential Building A Building Construction 2023	***3***	***7***	***34***	***0***	***10***	***3***
Retail and Residential Building A Building Construction 2023 and Retail Architectural Coating	***30***	***8***	***43***	***0***	***12***	***3***
Retail and Residential Building A Building Construction 2024	***3***	***7***	***32***	***0***	***10***	***3***
Retail and Residential Building A Building Construction 2024, Paving, and Finishing/Landscaping	***7***	***8***	***43***	***0***	***10***	***3***
Retail and Residential Building A Building Construction 2024 and Finishing/Landscaping	***3***	***7***	***36***	***0***	***10***	***3***
Retail and Residential Building A Building Construction 2025	***3***	***7***	***30***	***0***	***10***	***3***
Retail and Residential Building A Building Construction 2025 and Residential Building A Architectural Coating	***45***	***7***	***39***	***0***	***12***	***3***
Residential Building B Building Construction 2026	***3***	***5***	***29***	***0***	***10***	***3***
Residential Building B Building Construction 2027	***3***	***5***	***28***	***0***	***10***	***3***
Residential Building B Building Construction 2028	***3***	***5***	***27***	***0***	***10***	***3***
Residential Building B Building Construction 2028 and Residential Building B Architectural Coating	***39***	***5***	***34***	***0***	***12***	***3***
MAX DAILY	**45**	**22**	**111**	**0**	**16**	**4**
Regional Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

Construction LST Worksheet (Option 1):

Building Demolition						
			NOx	CO	PM10 Total	PM2.5 Total
TOTAL			***0.00***	***0.00***	***0.00***	***0.00***
Onsite		**2022**				
	Off-Road		11.31	12.77	0.46	0.45
	Total		**11.31**	**12.77**	**0.46**	**0.45**
TOTAL			***11.31***	***12.77***	***0.46***	***0.45***
Onsite		**2022**				
	Off-Road		11.31	12.77	0.46	0.45
	Total		**11.31**	**12.77**	**0.46**	**0.45**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***11.31***	***12.77***	***0.46***	***0.45***

Building Demolition Haul						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022**				
	Fugitive Dust				2.44	0.37
	Off-Road		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**2.44**	**0.37**
TOTAL			***0.00***	***0.00***	***2.44***	***0.37***
Onsite		**2022**				
	Fugitive Dust		0.00	0.00	2.44	0.37
	Off-Road		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**2.44**	**0.37**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***0.00***	***0.00***	***2.44***	***0.37***

Asphalt Demolition						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		**2022**				
	Off-Road		1.68	2.24	0.09	0.08
	Total		**1.68**	**2.24**	**0.09**	**0.08**
TOTAL			***1.68***	***2.24***	***0.09***	***0.08***
Onsite		**2022**				
	Off-Road		1.68	2.24	0.09	0.08
	Total		**1.68**	**2.24**	**0.09**	**0.08**
Offsite						
	Hauling		0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00
	Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL			***1.68***	***2.24***	***0.09***	***0.08***

Asphalt Demolition Haul					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2022**				
Fugitive Dust				1.73	0.26
Off-Road		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**1.73**	**0.26**
TOTAL		***0.00***	***0.00***	***1.73***	***0.26***
Onsite	**2022**				
Fugitive Dust		0.00	0.00	1.73	0.26
Off-Road		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**1.73**	**0.26**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***1.73***	***0.26***

Site Preparation 2022					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2022**				
Fugitive Dust				4.53	0.49
Off-Road		101.36	64.08	3.81	3.51
Total		**101.36**	**64.08**	**8.35**	**4.00**
TOTAL		***101.36***	***64.08***	***8.35***	***4.00***
Onsite	**2022**				
Fugitive Dust		0.00	0.00	4.53	0.49
Off-Road		101.36	64.08	3.81	3.51
Total		**101.36**	**64.08**	**8.35**	**4.00**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***101.36***	***64.08***	***8.35***	***4.00***

Site Preparation 2023					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2023**				
Fugitive Dust				4.53	0.49
Off-Road		92.74	62.01	3.51	3.23
Total		**92.74**	**62.01**	**8.04**	**3.72**
TOTAL		***92.74***	***62.01***	***8.04***	***3.72***
Onsite	**2023**				
Fugitive Dust		0.00	0.00	4.53	0.49
Off-Road		92.74	62.01	3.51	3.23
Total		**92.74**	**62.01**	**8.04**	**3.72**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***92.74***	***62.01***	***8.04***	***3.72***

Site Preparation Soil Haul 2022					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2022**				
Fugitive Dust				0.02	0.00
Off-Road		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.02**	**0.00**
TOTAL		***0.00***	***0.00***	***0.02***	***0.00***
Onsite	**2022**				
Fugitive Dust		0.00	0.00	0.02	0.00
Off-Road		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.02**	**0.00**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.02***	***0.00***

Site Preparation Soil Haul 2023					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2023**				
Fugitive Dust				0.02	0.00
Off-Road		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.02**	**0.00**
TOTAL		***0.00***	***0.00***	***0.02***	***0.00***
Onsite	**2023**				
Fugitive Dust		0.00	0.00	0.02	0.00
Off-Road		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.02**	**0.00**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.02***	***0.00***

Retail and Residential Building A Building Construction 2023					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2023**				
Off-Road		6.67	6.01	0.28	0.26
Total		**6.67**	**6.01**	**0.28**	**0.26**
TOTAL		***6.67***	***6.01***	***0.28***	***0.26***
Onsite	**2023**				
Off-Road		6.67	6.01	0.28	0.26
Total		**6.67**	**6.01**	**0.28**	**0.26**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***6.67***	***6.01***	***0.28***	***0.26***

Retail and Residential Building A Building Construction 2024					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2024**				
Off-Road		6.39	5.89	0.26	0.24
Total		**6.39**	**5.89**	**0.26**	**0.24**
TOTAL		***6.39***	***5.89***	***0.26***	***0.24***
Onsite	**2024**				
Off-Road		6.39	5.89	0.26	0.24
Total		**6.39**	**5.89**	**0.26**	**0.24**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***6.39***	***5.89***	***0.26***	***0.24***

Retail and Residential Building A Building Construction 2025					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2025**				
Off-Road		5.92	5.74	0.24	0.22
Total		**5.92**	**5.74**	**0.24**	**0.22**
TOTAL		***5.92***	***5.74***	***0.24***	***0.22***
Onsite	**2025**				
Off-Road		5.92	5.74	0.24	0.22
Total		**5.92**	**5.74**	**0.24**	**0.22**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***5.92***	***5.74***	***0.24***	***0.22***

Retail Architectural Coating 2023					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2023**				
Archit. Coating				0.00	0.00
Off-Road		2.61	3.62	0.14	0.14
Total		**2.61**	**3.62**	**0.14**	**0.14**
TOTAL		***2.61***	***3.62***	***0.14***	***0.14***
Onsite	**2023**				
Archit. Coating		0.00	0.00	0.00	0.00
Off-Road		2.61	3.62	0.14	0.14
Total		**2.61**	**3.62**	**0.14**	**0.14**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***2.61***	***3.62***	***0.14***	***0.14***

Finishing/Landscaping					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2024**				
Off-Road		5.29	2.11	0.17	0.16
Total		**5.29**	**2.11**	**0.17**	**0.16**
TOTAL		***5.29***	***2.11***	***0.17***	***0.16***
Onsite	**2024**				
Off-Road		5.29	2.11	0.17	0.16
Total		**5.29**	**2.11**	**0.17**	**0.16**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***5.29***	***2.11***	***0.17***	***0.16***

Paving					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2024**				
Off-Road		4.96	5.63	0.21	0.19
Paving				0.00	0.00
Total		**4.96**	**5.63**	**0.21**	**0.19**
TOTAL		***4.96***	***5.63***	***0.21***	***0.19***
Onsite	**2024**				
Off-Road		4.96	5.63	0.21	0.19
Paving		0.00	0.00	0.00	0.00
Total		**4.96**	**5.63**	**0.21**	**0.19**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***4.96***	***5.63***	***0.21***	***0.19***

Residential Architectural Coating 2025					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2025**				
Archit. Coating				0.00	0.00
Off-Road		2.29	3.62	0.10	0.10
Total		**2.29**	**3.62**	**0.10**	**0.10**
TOTAL		***2.29***	***3.62***	***0.10***	***0.10***
Onsite	**2025**				
Archit. Coating		0.00	0.00	0.00	0.00
Off-Road		2.29	3.62	0.10	0.10
Total		**2.29**	**3.62**	**0.10**	**0.10**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***2.29***	***3.62***	***0.10***	***0.10***

	NOx	CO	PM10 Total	PM2.5 Total
Building Demolition	*11*	*13*	*0.46*	*0.45*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*
Building and Asphalt Demolition	*13*	*15*	*0.55*	*0.53*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*
Building and Asphalt Demolition and Debris Haul	*13*	*15*	*4.72*	*1.16*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*
Site Preparation and Soil Haul 2022	*101*	*64*	*8.36*	*4.00*
5.00 Acre LST	*221*	*1,311*	*68.62*	*27.85*
Exceeds LST?	*no*	*no*	*no*	*no*
Site Preparation and Soil Haul 2023	*93*	*62*	*8.06*	*3.72*
5.00 Acre LST	*221*	*1,311*	*68.62*	*27.85*
Exceeds LST?	*no*	*no*	*no*	*no*
Site Preparation and Soil Haul 2023 and Retail and Residential Building A Building Construction 2023	*99*	*68*	*8.34*	*3.98*
5.00 Acre LST	*221*	*1,311*	*68.62*	*27.85*
Exceeds LST?	*no*	*no*	*no*	*no*
Retail and Residential Building A Building Construction 2023	*7*	*6*	*0.28*	*0.26*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*
Retail and Residential Building A Building Construction 2023 and Retail Architectural Coating	*9*	*10*	*0.42*	*0.40*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*
Retail and Residential Building A Building Construction 2024	*6*	*6*	*0.26*	*0.24*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*
Retail and Residential Building A Building Construction 2024, Paving, and Finishing/Landscaping	*17*	*14*	*0.64*	*0.60*
1.50 Acre LST	*125*	*642*	*47.12*	*18.12*
Exceeds LST?	*no*	*no*	*no*	*no*

Retail and Residential Building A Building Construction 2024 and Finishing/Landscaping	*12*	*8*	*0.43*	*0.40*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*
Retail and Residential Building A Building Construction 2025	*6*	*6*	*0.24*	*0.22*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*
Retail and Residential Building A Building Construction 2025 Residential Architectural Coating	*8*	*9*	*0.34*	*0.32*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*

Construction LST Worksheet (Option 2):

Building Demolition					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2022**				
Off-Road		11.31	12.77	0.46	0.45
Total		**11.31**	**12.77**	**0.46**	**0.45**
Onsite	**2022**				
Off-Road		11.31	12.77	0.46	0.45
Total		**11.31**	**12.77**	**0.46**	**0.45**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***11.31***	***12.77***	***0.46***	***0.45***

Building Demolition Haul					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2022**				
Fugitive Dust				2.44	0.37
Off-Road		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**2.44**	**0.37**
Onsite	**2022**				
Fugitive Dust		0.00	0.00	2.44	0.37
Off-Road		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**2.44**	**0.37**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***2.44***	***0.37***

Asphalt Demolition					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2022**				
Off-Road		1.68	2.24	0.09	0.08
Total		**1.68**	**2.24**	**0.09**	**0.08**
TOTAL		***1.68***	***2.24***	***0.09***	***0.08***
Onsite	**2022**				
Off-Road		1.68	2.24	0.09	0.08
Total		**1.68**	**2.24**	**0.09**	**0.08**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***1.68***	***2.24***	***0.09***	***0.08***

Asphalt Demolition Haul					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2022**				
Fugitive Dust				1.73	0.26
Off-Road		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**1.73**	**0.26**
TOTAL		***0.00***	***0.00***	***1.73***	***0.26***
Onsite	**2022**				
Fugitive Dust		0.00	0.00	1.73	0.26
Off-Road		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**1.73**	**0.26**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***1.73***	***0.26***

Site Preparation 2022					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2022**				
Fugitive Dust				4.53	0.49
Off-Road		101.36	64.08	3.81	3.51
Total		**101.36**	**64.08**	**8.35**	**4.00**
TOTAL		***101.36***	***64.08***	***8.35***	***4.00***
Onsite	**2022**				
Fugitive Dust		0.00	0.00	4.53	0.49
Off-Road		101.36	64.08	3.81	3.51
Total		**101.36**	**64.08**	**8.35**	**4.00**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***101.36***	***64.08***	***8.35***	***4.00***

Site Preparation 2023					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2023**				
Fugitive Dust				4.53	0.49
Off-Road		92.74	62.01	3.51	3.23
Total		**92.74**	**62.01**	**8.04**	**3.72**
TOTAL		***92.74***	***62.01***	***8.04***	***3.72***
Onsite	**2023**				
Fugitive Dust		0.00	0.00	4.53	0.49
Off-Road		92.74	62.01	3.51	3.23
Total		**92.74**	**62.01**	**8.04**	**3.72**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***92.74***	***62.01***	***8.04***	***3.72***

Site Preparation Soil Haul 2022					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2022**				
Fugitive Dust				0.02	0.00
Off-Road		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.02**	**0.00**
TOTAL		***0.00***	***0.00***	***0.02***	***0.00***
Onsite	**2022**				
Fugitive Dust		0.00	0.00	0.02	0.00
Off-Road		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.02**	**0.00**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.02***	***0.00***

Site Preparation Soil Haul 2023					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2023**				
Fugitive Dust				0.02	0.00
Off-Road		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.02**	**0.00**
TOTAL		***0.00***	***0.00***	***0.02***	***0.00***
Onsite	**2023**				
Fugitive Dust		0.00	0.00	0.02	0.00
Off-Road		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.02**	**0.00**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***0.00***	***0.00***	***0.02***	***0.00***

Retail and Residential Building A Building Construction 2023					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2023**				
Off-Road		6.67	6.01	0.28	0.26
Total		**6.67**	**6.01**	**0.28**	**0.26**
TOTAL		***6.67***	***6.01***	***0.28***	***0.26***
Onsite	**2023**				
Off-Road		6.67	6.01	0.28	0.26
Total		**6.67**	**6.01**	**0.28**	**0.26**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***6.67***	***6.01***	***0.28***	***0.26***

Retail and Residential Building A Building Construction 2024					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2024**				
Off-Road		6.39	5.89	0.26	0.24
Total		**6.39**	**5.89**	**0.26**	**0.24**
TOTAL		***6.39***	***5.89***	***0.26***	***0.24***
Onsite	**2024**				
Off-Road		6.39	5.89	0.26	0.24
Total		**6.39**	**5.89**	**0.26**	**0.24**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***6.39***	***5.89***	***0.26***	***0.24***

Retail and Residential Building A Building Construction 2025					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2025**				
Off-Road		5.92	5.74	0.24	0.22
Total		**5.92**	**5.74**	**0.24**	**0.22**
TOTAL		***5.92***	***5.74***	***0.24***	***0.22***
Onsite	**2025**				
Off-Road		5.92	5.74	0.24	0.22
Total		**5.92**	**5.74**	**0.24**	**0.22**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***5.92***	***5.74***	***0.24***	***0.22***

Retail Architectural Coating 2023					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2023**				
Archit. Coating				0.00	0.00
Off-Road		2.61	3.62	0.14	0.14
Total		**2.61**	**3.62**	**0.14**	**0.14**
TOTAL		***2.61***	***3.62***	***0.14***	***0.14***
Onsite	**2023**				
Archit. Coating		0.00	0.00	0.00	0.00
Off-Road		2.61	3.62	0.14	0.14
Total		**2.61**	**3.62**	**0.14**	**0.14**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***2.61***	***3.62***	***0.14***	***0.14***

Residential Building A Architectural Coating 2025					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2023**				
Archit. Coating				0.00	0.00
Off-Road		2.29	3.62	0.10	0.10
Total		**2.29**	**3.62**	**0.10**	**0.10**
TOTAL		***2.29***	***3.62***	***0.10***	***0.10***
Onsite	**2023**				
Archit. Coating		0.00	0.00	0.00	0.00
Off-Road		2.29	3.62	0.10	0.10
Total		**2.29**	**3.62**	**0.10**	**0.10**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***2.29***	***3.62***	***0.10***	***0.10***

Paving					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2024**				
Off-Road		4.96	5.63	0.21	0.19
Paving				0.00	0.00
Total		**4.96**	**5.63**	**0.21**	**0.19**
TOTAL		***4.96***	***5.63***	***0.21***	***0.19***
Onsite	**2024**				
Off-Road		4.96	5.63	0.21	0.19
Paving		0.00	0.00	0.00	0.00
Total		**4.96**	**5.63**	**0.21**	**0.19**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***4.96***	***5.63***	***0.21***	***0.19***

Finishing/Landscaping					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2024**				
Off-Road		5.29	2.11	0.17	0.16
Total		**5.29**	**2.11**	**0.17**	**0.16**
TOTAL		***5.29***	***2.11***	***0.17***	***0.16***
Onsite	**2024**				
Off-Road		5.29	2.11	0.17	0.16
Total		**5.29**	**2.11**	**0.17**	**0.16**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***5.29***	***2.11***	***0.17***	***0.16***

Residential Building B Building Construction 2026					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2026**				
Off-Road		5.92	5.74	0.24	0.22
Total		**5.92**	**5.74**	**0.24**	**0.22**
TOTAL		***5.92***	***5.74***	***0.24***	***0.22***
Onsite	**2026**				
Off-Road		5.92	5.74	0.24	0.22
Total		**5.92**	**5.74**	**0.24**	**0.22**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***5.92***	***5.74***	***0.24***	***0.22***

Residential Building B Building Construction 2027					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2027**				
Off-Road		5.92	5.74	0.24	0.22
Total		**5.92**	**5.74**	**0.24**	**0.22**
TOTAL		***5.92***	***5.74***	***0.24***	***0.22***
Onsite	**2027**				
Off-Road		5.92	5.74	0.24	0.22
Total		**5.92**	**5.74**	**0.24**	**0.22**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***5.92***	***5.74***	***0.24***	***0.22***

Residential Building B Building Construction 2028					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2028**				
Off-Road		5.92	5.74	0.24	0.22
Total		**5.92**	**5.74**	**0.24**	**0.22**
TOTAL		***5.92***	***5.74***	***0.24***	***0.22***
Onsite	**2028**				
Off-Road		5.92	5.74	0.24	0.22
Total		**5.92**	**5.74**	**0.24**	**0.22**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***5.92***	***5.74***	***0.24***	***0.22***

Residential Architectural Coating 2028					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	**2028**				
Archit. Coating				0.00	0.00
Off-Road		2.29	3.62	0.10	0.10
Total		**2.29**	**3.62**	**0.10**	**0.10**
TOTAL		***2.29***	***3.62***	***0.10***	***0.10***
Onsite	**2028**				
Archit. Coating		0.00	0.00	0.00	0.00
Off-Road		2.29	3.62	0.10	0.10
Total		**2.29**	**3.62**	**0.10**	**0.10**
Offsite					
Hauling		0.00	0.00	0.00	0.00
Vendor		0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**
TOTAL		***2.29***	***3.62***	***0.10***	***0.10***
		NOx	**CO**	**PM10 Total**	**PM2.5 Total**
Building Demolition		***11***	***13***	***0.46***	***0.45***
≤1.00 Acre LST		***103***	***522***	***43.62***	***16.44***
Exceeds LST?		***no***	***no***	***no***	***no***
Building and Asphalt Demolition		***13***	***15***	***0.55***	***0.53***
≤1.00 Acre LST		***103***	***522***	***43.62***	***16.44***
Exceeds LST?		***no***	***no***	***no***	***no***
Building and Asphalt Demolition and Debris Haul		***13***	***15***	***4.72***	***1.16***
≤1.00 Acre LST		***103***	***522***	***43.62***	***16.44***
Exceeds LST?		***no***	***no***	***no***	***no***
Site Preparation and Soil Haul 2022		***101***	***64***	***8.36***	***4.00***
5.00 Acre LST		***221***	***1,311***	***68.62***	***27.85***
Exceeds LST?		***no***	***no***	***no***	***no***
Site Preparation and Soil Haul 2023		***93***	***62***	***8.06***	***3.72***
5.00 Acre LST		***221***	***1,311***	***68.62***	***27.85***
Exceeds LST?		***no***	***no***	***no***	***no***
Site Preparation and Soil Haul 2023 and Retail and Residential Building A Building Construction 2023		***99***	***68***	***8.34***	***3.98***
5.00 Acre LST		***221***	***1,311***	***68.62***	***27.85***
Exceeds LST?		***no***	***no***	***no***	***no***
Retail and Residential Building A Building Construction 2023		***7***	***6***	***0.28***	***0.26***
≤1.00 Acre LST		***103***	***522***	***43.62***	***16.44***
Exceeds LST?		***no***	***no***	***no***	***no***

Retail and Residential Building A Building Construction 2023 and Retail Architectural Coating	*9*	*10*	*0.42*	*0.40*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*
Retail and Residential Building A Building Construction 2024	*6*	*6*	*0.26*	*0.24*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*
Retail and Residential Building A Building Construction 2024, Paving, and Finishing/Landscaping	*17*	*14*	*0.64*	*0.60*
1.50 Acre LST	*125*	*642*	*47.12*	*18.12*
Exceeds LST?	*no*	*no*	*no*	*no*
Retail and Residential Building A Building Construction 2024 and Finishing/Landscaping	*12*	*8*	*0.43*	*0.40*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*
Retail and Residential Building A Building Construction 2025	*6*	*6*	*0.24*	*0.22*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*
Retail and Residential Building A Building Construction 2025 and Residential Building A Architectural Coating	*9*	*9*	*0.38*	*0.36*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*
Residential Building B Building Construction 2026	*6*	*6*	*0.24*	*0.22*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*
Residential Building B Building Construction 2027	*6*	*6*	*0.24*	*0.22*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*
Residential Building B Building Construction 2028	*6*	*6*	*0.24*	*0.22*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*
Residential Building B Building Construction 2028 and Residential Building B Architectural Coating	*8*	*9*	*0.34*	*0.32*
≤1.00 Acre LST	*103*	*522*	*43.62*	*16.44*
Exceeds LST?	*no*	*no*	*no*	*no*

Regional Operation Emissions Worksheet[1]

[1] CalEEMod, Version 2020.4

Existing Conditions (2019)

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	30.17	0.00	0.46	0.00	0.00	0.00
Energy	0.08	0.73	0.61	0.00	0.06	0.06
Mobile	132.88	181.80	1,416.84	3.03	287.35	78.76
Total	**163.13**	**182.54**	**1,417.92**	**3.04**	**287.40**	**78.82**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	30.17	0.00	0.46	0.00	0.00	0.00
Energy	0.08	0.73	0.61	0.00	0.06	0.06
Mobile	132.63	194.43	1,383.55	2.91	287.35	78.77
Total	**162.89**	**195.16**	**1,384.63**	**2.92**	**287.41**	**78.82**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	30	0	0	0	0	0
Energy	0	1	1	0	0	0
Mobile	133	194	1,417	3	287	79
Total	**163**	**195**	**1,418**	**3**	**287**	**79**

Baseline Conditions (2026)

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	30.17	0.00	0.46	0.00	0.00	0.00
Energy	0.08	0.73	0.61	0.00	0.06	0.06
Mobile	100.69	98.43	1,011.79	2.44	285.66	77.21
Total	**130.94**	**99.17**	**1,012.86**	**2.44**	**285.72**	**77.27**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	30.17	0.00	0.46	0.00	0.00	0.00
Energy	0.08	0.73	0.61	0.00	0.06	0.06
Mobile	99.92	105.66	1,001.84	2.34	285.66	77.21
Total	**130.18**	**106.39**	**1,002.91**	**2.35**	**285.72**	**77.27**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	30	0	0	0	0	0
Energy	0	1	1	0	0	0
Mobile	101	106	1,012	2	286	77
Total	**131**	**106**	**1,013**	**2**	**286**	**77**

Option 1

Proposed Project

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	42.33	0.37	32.63	0.00	0.18	0.18
Energy	0.28	2.51	1.65	0.02	0.20	0.20
Mobile	111.51	111.25	1,127.75	2.71	308.51	83.43
Total	**154.13**	**114.14**	**1,162.04**	**2.73**	**308.89**	**83.81**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	42.33	0.37	32.63	0.00	0.18	0.18
Energy	0.28	2.51	1.65	0.02	0.20	0.20
Mobile	110.74	119.44	1,115.26	2.61	308.52	83.43
Total	**153.36**	**122.33**	**1,149.54**	**2.63**	**308.89**	**83.81**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	42	0	33	0	0	0
Energy	0	3	2	0	0	0
Mobile	112	119	1,128	3	309	83
Total	**154**	**122**	**1,162**	**3**	**309**	**84**

Proposed Net Operations

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	12.16	0.37	32.18	0.00	0.18	0.18
Energy	0.20	1.78	1.04	0.01	0.14	0.14
Mobile	10.83	12.82	115.97	0.28	22.85	6.22
Total	**23.19**	**14.97**	**149.18**	**0.29**	**23.17**	**6.54**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	12.16	0.37	32.18	0.00	0.18	0.18
Energy	0.20	1.78	1.04	0.01	0.14	0.14
Mobile	10.82	13.79	113.42	0.27	22.85	6.22
Total	**23.18**	**15.94**	**146.64**	**0.28**	**23.17**	**6.54**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	12	0	32	0	0	0
Energy	0	2	1	0	0	0
Mobile	11	14	116	0	23	6
Total	**23**	**16**	**149**	**0**	**23**	**7**
Regional Thresholds (lb/day)	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

Option 2

Proposed Project

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	46.91	0.64	55.70	0.00	0.31	0.31
Energy	0.30	2.59	1.39	0.02	0.21	0.21
Mobile	95.78	90.75	959.50	2.31	285.56	77.09
Total	**142.99**	**93.97**	**1,016.59**	**2.33**	**286.07**	**77.60**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	46.91	0.64	55.70	0.00	0.31	0.31
Energy	0.30	2.59	1.39	0.02	0.21	0.21
Mobile	94.95	97.39	951.53	2.22	285.56	77.09
Total	**142.16**	**100.62**	**1,008.62**	**2.24**	**286.07**	**77.60**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	47	1	56	0	0	0
Energy	0	3	1	0	0	0
Mobile	96	97	960	2	286	77
Total	**143**	**101**	**1,017**	**2**	**286**	**78**

Proposed Net Operations

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	16.74	0.64	55.24	0.00	0.31	0.31
Energy	0.22	1.85	0.78	0.01	0.15	0.15
Mobile	-4.91	-7.68	-52.28	-0.13	-0.11	-0.13
Total	**12.05**	**-5.19**	**3.73**	**-0.11**	**0.35**	**0.33**

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	16.74	0.64	55.24	0.00	0.31	0.31
Energy	0.22	1.85	0.78	0.01	0.15	0.15
Mobile	-4.97	-8.26	-50.31	-0.12	-0.11	-0.13
Total	**11.99**	**-5.77**	**5.71**	**-0.11**	**0.35**	**0.33**

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	16.74	0.64	55.24	0.00	0.31	0.31
Energy	0.22	1.85	0.78	0.01	0.15	0.15
Mobile	-4.91	-7.68	-50.31	-0.12	-0.11	-0.13
Total	**12.05**	**-5.19**	**5.71**	**-0.11**	**0.35**	**0.33**
Regional Thresholds (lb/day)	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

GHG Emissions Inventory

Proposed Project Buildout

Construction

Option 1

	$MTCO_2e$
2022	756
2023	974
2024	731
2025	546
Total Construction	**3,008**
30-Year Amortization[1]	**100**

Option 2

	$MTCO_2e$
2022	756
2023	1,585
2024	1,345
2025	1,029
2026	1,067
2027	1,138
2028	327
Total Construction	**7,247**
30-Year Amortization[1]	**242**

*CalEEMod, Version 2016.3.2.25

Operation*

Proposed Project

Option 1

	Existing Conditions (2019) $MTCO_2e$	Percent of Emissions	Proposed Project $MTCO_2e$	Percent of Emissions	Net Change
Area	0	0.0%	7	0.0%	7
Energy	5,841	13%	6,148	14%	307
Mobile	39,806	85%	37,196	83%	-2,610
Solid Waste	682	1%	1,112	2%	430
Water	294	1%	410	1%	116
30-Yr Amortized Construction Emissions[1]	NA	NA	100	0%	100
Total	**46,623**	100%	**44,972**	100%	**-1,650**

South Coast AQMD Working Group Threshold	3,000	$MTCO_2e$/Year
Exceed Threshold?	**No**	

Option 2

	Existing Conditions (2019) $MTCO_2e$	Percent of Emissions	Proposed Project $MTCO_2e$	Percent of Emissions	Net Change
Area	0	0.0%	12	0.0%	12
Energy	5,841	13%	6,703	15%	862
Mobile	39,806	85%	31,612	70%	-8,194
Solid Waste	682	1%	810	2%	128
Water	294	1%	400	1%	107
30-Yr Amortized Construction Emissions[1]	NA	NA	242	1%	242
Total	**46,623**	100%	**39,778**	100%	**-6,845**

South Coast AQMD Working Group Threshold	3,000	$MTCO_2e$/Year
Exceed Threshold?	**No**	

*CalEEMod, Version 2020.4

** $MTCO_2e$=metric tons of carbon dioxide equivalent.

*** Total construction emissions are amortized over 30 years per SCAQMD methodology; SCAQMD. 2009, November 19. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 14. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2.

Assumptions Worksheet

CalEEMod Inputs - Construction Run

Name:	Brea Mall Mixed-Use Project (Option 1)
Project Number:	BREA-03.3
Project Location:	1065 Brea Mall, Brea, CA 92821
County/Air Basin:	Orange County
Climate Zone:	8
Land Use Setting:	Urban
Operational Year:	2025
Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	SCAQMD
SRA:	16

Proiect Site Acreage	74
Disturbed Site Acreage	17.50

Project Components				
Demolition	***SQFT***	***Tons***	***Acres***	
Sears	161,990	1,600		
Asphalt	326,700	20	7.50	
ROW, hardscape, landscape	148,540	**1,114**	3.41	
New Construction	***SQFT***	***Stories***	***Acres***	
Residential				**Units**
Apartments	436,500	5	0.00	**390**
Retail				
Fitness Center	128,000	3	0.98	
Mall	69,415	2	0.80	
Sporting Goods[2]	50,000	1	0.00	
TOTAL RETAIL	247,415			
Commercial Space Net Change	85,425			
Parking	***SQFT***	***Stories***	***Acres***	**Stalls**
Retail Surface Parking	129,809	NA	2.98	
Residential Structure Parking	476,800	2	5.47	**1080**
Driveways	192,000	NA	4.41	
Landscaping/Hardscape	124,717	NA	2.86	
			17.50	
Total New Construction	**1,160,715**		**17.50**	

[2] *Sporting goods store would be built on top of ground floor mall shops*

CalEEMod Inputs						
Land Use	**Land Use Type**	**Land Use Subtype**	**Unit Amount**	**Size Metric**	**Lot Acreage**	**Building Square Feet**
Apartments	Residential	Apartments (Mid-Rise)	390	Units	0.00	436,500
Mall Shops + Sporting Goods	Retail	Regional Shopping Center	119.415	1000sf	0.80	119,415
Fitness Center	Recreational	Health Club	128.000	1000sf	0.98	128,000
Retail + Residential Parking Structures	Parking	Enclosed Parking Structure	476.800	1000sf	5.47	476,800
Parking Lots	Parking	Parking Lot	129.809	1000sf	2.98	129,809
Driveways	Parking	Other Asphalt Surfaces	192.000	1000sf	4.41	192,000
Landscape and Hardscape	Parking	Other Non-Asphalt Surfaces	124.717	1000sf	2.86	124,717
Total					17.50	

Demolition

Component	**Amount to be Demolished (Tons)**	**Haul Truck Capacity (tons)**	**Haul Distance (miles)**	**Total Trip Ends**	**Duration (days)**	**Trip Ends/day**
Building Demo[1] (Trash)	1,320	22	20	120	107	2
Building Demo[1] (Metal)	280	14	20	40	107	1
Total Building Demo	1,600			160		
Asphalt Demo[1,2]	1,134	14	20	163	5	33

[1] *Based on tonnage, truck capacity, and duration provided by the applicant by demolition type.*

[2] *includes the ROW, hardscape, and landscape demolition tonnage based on CalEEMod defaults*

Soil Haul [1]

Construction Activities	**Export Volume (CY)1**	**Haul Truck Capacity (cy)[2]**	**Haul Distance (miles)2**	**Total Trip Ends**	**Duration (days)**	**Trip Ends/day**
Site Preparation Soil Haul 2022	25,416	16	20	3,178	65	49
Site Preparation Soil Haul 2023	12,904	16	20	1,613	33	49
TOTAL	**38,320**			**4,791**		

[1] *Based on data provided by the applicant*

[2] *CalEEMod Default*

Architectural Coating

Percentage of Buildings' Interior Painted:	100%
Percentage of Buildings' Exterior Painted:	100%

SCAQMD Rule 1113

Non-Res Interior Paint VOC content:	100	grams per liter	*Res Interior Paint VOC content:*	50	grams per liter
Non-Res Exterior Paint VOC content:	100	grams per liter	*Res Exterior Paint VOC content:*	50	grams per liter

Land Use	Land Use SQFT	CalEEMod Factor[2]	Total Paintable Surface Area	Paintable Interior Area[1]	Paintable Exterior Area[1]
Residential					
Residential	436,500	2.7	1,178,550	**883,913**	**294,638**
Non-Residential					
Shopping Center	119,415	2	238,830	179,123	59,708
Fitness Center	128,000	2	256,000	192,000	64,000
				371,123	**123,708**
Asphalt Surfaces					
Parking Lot	129,809	6%	7,789	-	7,789
Parking Structures	476,800	6%	28,608	-	28,608
Driveways	192,000	6%	11,520	-	11,520
					47,917

[1] *CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.*

[2] *The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.*

[3] *We assume 100% of the interior and exterior of buildings to be modernized will be painted*

Construction Mitigation

				Enhanced Fugitive Dust Mitigation		
SCAQMD Rule 403						
Replace Ground Cover	PM10:	5	% Reduction			
	PM25:	5	% Reduction			
Water Exposed Area	Frequency:	2	per day	Frequency:	3	per day
	PM10:	55	% Reduction	PM10:	61	% Reduction
	PM25:	55	% Reduction	PM25:	61	% Reduction
Unpaved Roads	Vehicle Speed:	15	mph			
SCAQMD Rule 1186						
	Clean Paved Road	9	% PM Reduction			

Southern California Edison Carbon Intensity Factors

CO2:[1,2]	509.98	pounds per megawatt hour
CH4:[3]	0.033	pound per megawatt hour
N2O:[3]	0.004	pound per megawatt hour

[1] Based on CO2e intensity factor of 512 pounds per megawatt hour; Southern California Edison. 2021. 2020 Sustainability Report.

[2] Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

[3] CalEEMod default values.

Global Warming Potentials (GWP)		
	AR4	**AR5**
CO_2	1	1
CH_4	25	28
N_2O	298	265

Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC).

CalEEMod Inputs - Construction Run

Name:	Brea Mall Mixed-Use Project (Option 2)
Project Number:	BREA-03.3
Project Location:	1065 Brea Mall, Brea, CA 92821
County/Air Basin:	Orange County
Climate Zone:	8
Land Use Setting:	Urban
Operational Year:	2028
Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	SCAQMD
SRA:	16

Proiect Site Acreage	74
Disturbed Site Acreage	17.50

Project Components				
Demolition	***SQFT***	***Tons***	***Acres***	
Sears	161,990	1,600		
Asphalt	326,700	20	7.50	
ROW, hardscape, landscape	148,540	**1,114**	3.41	
New Construction	***SQFT***	***Stories***	***Acres***	
Residential				**Units**
Apartments	750,300	5	0.00	**670**
Retail				
Mall	69,415	2	0.80	
Sporting Goods[1]	50,000	1	0.00	
TOTAL RETAIL	119,415			
Commercial Space Net Change	-42,575			
Parking	***SQFT***	***Stories***	***Acres***	
Retail Surface Parking	129,809	NA	2.98	
Residential Structure Parking	398,500	2	4.57	
Driveways	192,000	NA	4.41	
Landscaping/Hardscape	206,534	NA	4.74	
			17.50	
Total New Construction	**1,268,215**		**17.50**	

[1] *Sporting goods store would be built on top of ground floor mall shops*

CalEEMod Inputs - Mall, Fitness, Sporting Goods, and Parking Construction						
Land Use	**Land Use Type**	**Land Use Subtype**	**Unit Amount**	**Size Metric**	**Lot Acreage**	**Building Square Feet**
Apartments	Residential	Apartments (Mid-Rise)	670	Units	0.00	750,300
Mall Shops + Sporting Goods	Retail	Regional Shopping Center	119.415	1000sf	0.80	119,415
Retail + Residential Parking Structures	Parking	Enclosed Parking Structure	398.5	1000sf	4.57	398,500
Parking Lots	Parking	Parking Lot	129.8088	1000sf	2.98	129,809
Driveways	Parking	Other Asphalt Surfaces	192	1000sf	4.41	192,000
Landscape and Hardscape	Parking	Other Non-Asphalt Surfaces	206.5337	1000sf	4.74	206,534
Total					17.50	

Demolition

Component	**Amount to be Demolished (Tons)**	**Haul Truck Capacity (tons)**	**Haul Distance (miles)**	**Total Trip Ends**	**Duration (days)**	**Trip Ends/day**
Building Demo[1] (Trash)	1,320	22	20	120	107	2
Building Demo1 (Metal)	280	14	20	40	107	1
Total Building Demo	1,600			160		
Asphalt Demo[1,2]	1,134	14	20	163	5	33

[1] *Based on tonnage, truck capacity, and duration provided by the applicant by demolition type.*

[2] *includes the ROW, hardscape, and landscape demolition tonnage based on CalEEMod defaults*

Soil Haul[1]

Construction Activities	**Export Volume (CY)1**	**Haul Truck Capacity (cy)[2]**	**Haul Distance (miles)2**	**Total Trip Ends**	**Duration (days)**	**Trip Ends/day**
Site Preparation Soil Haul 2022	25,416	16	20	3,178	65	49
Site Preparation Soil Haul 2023	12,904	16	20	1,613	33	49
TOTAL	**38,320**			**4,791**		

[1] *Based on data provided by the applicant*

[2] *CalEEMod Default*

Architectural Coating

Percentage of Buildings' Interior Painted:	100%
Percentage of Buildings' Exterior Painted:	100%

SCAQMD Rule 1113

Non-Res Interior Paint VOC content:	100	grams per liter	*Res Interior Paint VOC content:*	50	grams per liter
Non-Res Exterior Paint VOC content:	100	grams per liter	*Res Exterior Paint VOC content:*	50	grams per liter

Land Use	Land Use SQFT	CalEEMod Factor[2]	Total Paintable Surface Area	Paintable Interior Area[1]	Paintable Exterior Area[1]
Residential					
Residential Building A	436,500	2.7	1,178,550	883,913	294,638
Residential Building B	313,800	2.7	847,260	635,445	211,815
			2,025,810	**1,519,358**	**506,453**
Non-Residential					
Shopping Center	119,415	2	238,830	**179,123**	**59,708**
Asphalt Surfaces					
Parking Lot	129,809	6%	7,789	-	7,789
Parking Structures	398,500	6%	23,910	-	23,910
Driveways	192,000	6%	11,520	-	11,520
					43,219

[1] *CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.*

[2] *The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.*

[3] *We assume 100% of the interior and exterior of buildings to be modernized will be painted*

Construction Mitigation

SCAQMD Rule 403				**Enhanced Fugitive Dust Mitigation**		
Replace Ground Cover	PM10:	5	% Reduction			
	PM25:	5	% Reduction			
Water Exposed Area	Frequency:	2	per day	Frequency:	3	per day
	PM10:	55	% Reduction	PM10:	61	% Reduction
	PM25:	55	% Reduction	PM25:	61	% Reduction
Unpaved Roads	Vehicle Speed:	15	mph			
SCAQMD Rule 1186						
	Clean Paved Road	9	% PM Reduction			

Southern California Edison Carbon Intensity Factors

CO2:[1,2]	509.98	pounds per megawatt hour
CH4:[3]	0.033	pound per megawatt hour
N2O:[3]	0.004	pound per megawatt hour

[1] Based on CO2e intensity factor of 512 pounds per megawatt hour; Southern California Edison. 2021. 2020 Sustainability Report.

[2] Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

[3] CalEEMod default values.

Global Warming Potentials (GWP)		
	AR4	**AR5**
CO_2	1	1
CH_4	25	28
N_2O	298	265

Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC).

Pavement Volume to Weight Conversion

Component	Total SF of Area[1]	Assumed Thickness (foot)[2]	Debris Volume (cu. ft)	Weight of Crushed Asphalt (lbs/cf)[3]	AC Mass (lbs)	AC Mass (tons)
Asphalt	148,540	0.333	49,513	45	2,228,094	1114

[1] Based on construction information provided by the Applicant.

[2] Pavements and Surface Materials. Nonpoint Education for Municipal Officials, Technical Paper Number 8. University of Conneticut Cooperative Extension System, 1999.

[3] http://www.reade.com/Particle_Briefings/spec_gra2.html

Construction Activities and Schedule Assumptions: Brea Mall Project

based on durations provided by Applicant

Construction Schedule Option 1				
Construction Activities	**Phase Type**	**Start Date**	**End Date**	**CalEEMod Duration (Workday)**
Building Demolition	Demolition	6/1/2022	9/30/2022	88
Building Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	6
Asphalt Demolition	Demolition	7/1/2022	8/15/2022	32
Asphalt Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	6
Site Preparation	Site Preparation	10/1/2022	2/15/2023	98
Site Preparation Soil Haul 2022	Site Preparation	10/1/2022	12/31/2022	65
Site Preparation Soil Haul 2023	Site Preparation	1/1/2023	2/15/2023	33
Retail and Residential Building A Building Construction	Building Construction	2/1/2023	9/30/2025	695
Retail Architectural Coating	Architectural Coating	10/15/2023	12/23/2023	50
Paving	Paving	4/1/2024	4/7/2024	5
Finishing and Landscaping	Trenching	4/1/2024	4/30/2024	22
Residential Architectural Coating	Architectural Coating	7/1/2025	9/30/2025	66

Overlapping Construction Schedule Option 1			
Construction Activities	**Start Date**	**End Date**	**CalEEMod Duration (Workday)**
Building Demolition	6/1/2022	6/30/2022	22
Building and Asphalt Demolition	7/1/2022	8/8/2022	27
Building and Asphalt Demolition and Debris Haul	8/8/2022	8/15/2022	6
Building Demolition	8/16/2022	9/30/2022	34
Site Preparation and Soil Haul 2022	10/1/2022	12/31/2022	65
Site Preparation and Soil Haul 2023	1/1/2023	1/31/2023	22
Site Preparation and Soil Haul 2023 and Retail and Residential Building A Building Construction 2023	2/1/2023	2/15/2023	11
Retail and Residential Building A Building Construction 2023	2/14/2023	10/14/2023	174
Retail and Residential Building A Building Construction 2023 and Retail Architectural Coating	10/15/2023	12/23/2023	50
Retail and Residential Building A Building Construction 2023	12/24/2023	12/31/2023	5
Retail and Residential Building A Building Construction 2024	1/1/2024	3/31/2024	65
Retail and Residential Building A Building Construction 2024, Paving, and Finishing/Landscaping	4/1/2024	4/7/2024	5
Retail and Residential Building A Building Construction 2024 and Finishing/Landscaping	4/1/2024	4/30/2024	22
Retail and Residential Building A Building Construction 2024	5/1/2024	12/31/2024	175
Retail and Residential Building A Building Construction 2025	1/1/2025	6/30/2025	129
Retail and Residential Building A Building Construction 2025 Residential Architectural Coating	7/1/2025	9/30/2025	66

Construction Schedule Option 2				
Construction Activities	**Phase Type**	**Start Date**	**End Date**	**CalEEMod Duration (Workday)**
Building Demolition	Demolition	6/1/2022	9/30/2022	88
Building Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	6
Asphalt Demolition	Demolition	7/1/2022	8/15/2022	32
Asphalt Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	6
Site Preparation	Site Preparation	10/1/2022	2/15/2023	98
Site Preparation Soil Haul 2022	Site Preparation	10/1/2022	12/31/2022	65
Site Preparation Soil Haul 2023	Site Preparation	1/1/2023	2/15/2023	33
Retail and Residential Buildiing A Building Construction	Building Construction	2/1/2023	9/30/2025	695
Retail Architectural Coating	Architectural Coating	10/15/2023	12/23/2023	50
Residential Building A Architectural Coating	Architectural Coating	7/1/2025	9/30/2025	66
Paving	Paving	4/1/2024	4/7/2024	5
Finishing and Landscaping	Trenching	4/1/2024	4/30/2024	22
Residential Building B Building Construction	Building Construction	2/1/2026	3/31/2028	565
Residential Building B Architectural Coating	Architectural Coating	1/15/2028	3/31/2028	55

Overlapping Construction Schedule Option 2			
Construction Activities	**Start Date**	**End Date**	**CalEEMod Duration (Workday)**
Building Demolition	6/1/2022	6/30/2022	22
Building and Asphalt Demolition	7/1/2022	8/8/2022	27
Building and Asphalt Demolition and Debris Haul	8/8/2022	8/15/2022	6
Building Demolition	8/16/2022	9/30/2022	34
Site Preparation and Soil Haul 2022	10/1/2022	12/31/2022	65
Site Preparation and Soil Haul 2023	1/1/2023	1/31/2023	22
Site Preparation and Soil Haul 2023 and Retail and Residential Building A Building Construction 2023	2/1/2023	2/15/2023	11
Retail and Residential Building A Building Construction 2023	2/14/2023	10/14/2023	174
Retail and Residential Building A Building Construction 2023 and Retail Architectural Coating	10/15/2023	12/23/2023	50
Retail and Residential Building A Building Construction 2023	12/24/2023	12/31/2023	5
Retail and Residential Building A Building Construction 2024	1/1/2024	3/31/2024	65
Retail and Residential Building A Building Construction 2024, Paving, and Finishing/Landscaping	4/1/2024	4/7/2024	5
Retail and Residential Building A Building Construction 2024 and Finishing/Landscaping	4/1/2024	4/30/2024	22
Retail and Residential Building A Building Construction 2024	5/1/2024	12/31/2024	175
Retail and Residential Building A Building Construction 2025	1/1/2025	6/30/2025	129
Retail and Residential Building A Building Construction 2025 Residential Architectural Coating	7/1/2025	9/30/2025	66
Residential Building B Building Construction 2026	2/1/2026	1/14/2028	510
Residential Building B Building Construction 2027	2/1/2026	1/14/2028	510
Residential Building B Building Construction 2028			
Residential Building B Building Construction 2028 and Residential Architectural Coating Option 2	1/15/2028	3/31/2028	55

CalEEMod Construction Off-Road Equipment Inputs

**Based on equipment mix provided by the applicant.*

General Construction Hours: 8 hours btwn 7:00 AM to 4:00 PM (with 1 hr break), Mon-Fri

OPTION 1

Construction Equipment Details								
Equipment	model	# of Equipment	hr/day	hp	load factor*	Tier Rating	total trips/Day
Building Demolition								
Excavator	CAT 450	2	8	131	0.38		
Tractors/Loaders/Backhoes	CAT 980	1	8	97	0.3685		
Rock Crusher	Extec	1	8	350	0.78		
Worker Trips							10
Vendor Trips							0
Hauling Trips (TOTAL TRIPS)							0
Water Trucks							4
Building Demolition Debris Haul							
no additional equipment required for building demolition debris haul							
Worker Trips							0
Vendor Trips							0
Hauling Trips (TOTAL TRIPS)							160
Asphalt Demolition							
Tractors/Loaders/Backhoes	CAT 980	1	8	97	0.37		
Worker Trips							3
Vendor Trips							0
Hauling Trips (TOTAL TRIPS)							0
Dump Trucks		2					4
Asphalt Demolition Debris Haul							
no additional equipment required for asphalt demolition debris haul							
Worker Trips							0
Vendor Trips							0
Hauling Trips (TOTAL TRIPS)							163
Site Preparation							
Graders	CAT 14M3	4	8	238	0.41		
Scraper	CAT 623E	8	8	365	0.72		
Skip Loader	CAT 980	1	8	97	0.37		
Excavators	John Deere 85-135	1	8	101	0.3819		
Worker Trips							35
Vendor Trips							0
Hauling Trips (TOTAL TRIPS)							0
Water Trucks							4
Site Preparation Soil Haul 2022							
no additional equipment required for building demolition debris haul							
Worker Trips							0
Vendor Trips							0
Hauling Trips (TOTAL TRIPS)							3,178
Site Preparation Soil Haul 2023							
no additional equipment required for building demolition debris haul							
Worker Trips							0
Vendor Trips							0
Hauling Trips (TOTAL TRIPS)							1,613
Retail and Residential Buildiing A Building Construction							
Tractors/Loaders/Backhoes	Case 580	1	8	97	0.3685		
Saw	Husqvarna Soff-Cut 4200	1	8	23	0.73		
Cranes	Terex T340-1	1	8	300	0.29		
Worker Trips							287
Vendor Trips							112
Hauling Trips (TOTAL TRIPS)							0
Retail Architectural Coating							
Plaster Gun		2	8	78	0.48		
Worker Trips							21
Vendor Trips							0
Hauling Trips (TOTAL TRIPS)							0
Residential Architectural Coating							
Plaster Gun		2	8	78	0.48		
Worker Trips							37
Vendor Trips							0
Hauling Trips (TOTAL TRIPS)							0
Paving							
Paving Machine	Blaw-Knox	1	8	188	0.4154		
Roller	Ingersol	1	8	86	0.3752		
Skip Loader	CAT 980	1	8	97	0.37		
Worker Trips							8
Vendor Trips							0
Hauling Trips (TOTAL TRIPS)							0
Finishing/Landscaping							
Grader	CAT 14M3	1	8	238	0.41		
Worker Trips							3
Vendor Trips							0
Hauling Trips (TOTAL TRIPS)							0

Retail Building Construction Trips

Land Use Square Feet	Unit Amount	Unit
247,415	247	1000sqft

	Worker Ratio	Trips	Vendor Ratio	Trips
Building Construction[1]	0.42	104	0.1639	41
Architectural Coating[2]	0.2	21		

[1] Building Construction worker and vendor trip ratios are based on information from CalEEMod Appendix A Calculation Details

[2] Architectural Coating worker trip is 20% of Building Construction worker trip. See CalEEMod Appendix A.

Residential Building A Building Construction Trips

Land Use Square Feet	Unit Amount	Unit
436,500	437	1000sqft

	Worker Ratio	Trips	Vendor Ratio	Trips
Building Construction[1]	0.42	183	0.1639	72
Architectural Coating[2]	0.2	37		

[1] Building Construction worker and vendor trip ratios are based on information from CalEEMod Appendix A Calculation Details

[2] Architectural Coating worker trip is 20% of Building Construction worker trip. See CalEEMod Appendix A.

OPTION 2

	Construction Equipment Details							
	Equipment	model	# of Equipment	hr/day	hp	load factor*	Tier Rating	total trips/Day
Building Demolition								
	Excavator	CAT 450	2	8	131	0.3685		
	Tractors/Loaders/Backhoes	CAT 980	1	8	97	0.37		
	Rock Crusher	Extec	1	8	350	0.78		
	Worker Trips							10
	Vendor Trips							0
	Hauling Trips (TOTAL TRIPS)							0
	Water Trucks							4
Building Demolition Debris Haul								
	no additional equipment required for building demolition debris haul							
	Worker Trips							0
	Vendor Trips							0
	Hauling Trips (TOTAL TRIPS)							160
Asphalt Demolition								
	Tractors/Loaders/Backhoes	CAT 980	1	8	97	0.3685		
	Worker Trips							3
	Vendor Trips							0
	Hauling Trips (TOTAL TRIPS)							0
	Dump Trucks		2					4
Asphalt Demolition Debris Haul								
	no additional equipment required for asphalt demolition debris haul							
	Worker Trips							0
	Vendor Trips							0
	Hauling Trips (TOTAL TRIPS)							163
Site Preparation								
	Graders	CAT 14M3	4	8	238	0.41		
	Scraper	CAT 623E	8	8	365	0.4824		
	Skip Loader	CAT 980	1	8	97	0.37		
	Excavators	John Deere 85-135	1	8	101	0.3819		
	Worker Trips							35
	Vendor Trips							0
	Hauling Trips (TOTAL TRIPS)							0
	Water Trucks							4
Site Preparation Soil Haul 2022								
	no additional equipment required for site preparation soil haul							
	Worker Trips							0
	Vendor Trips							0
	Hauling Trips (TOTAL TRIPS)							3,178
Site Preparation Soil Haul 2023								
	no additional equipment required for site preparation soil haul							
	Worker Trips							0
	Vendor Trips							0
	Hauling Trips (TOTAL TRIPS)							1,613
Retail and Residential Buildiing A Building Construction								
	Tractors/Loaders/Backhoes	Case 580	1	8	97	0.3685		
	Saw	Husqvarna Soff-Cut 4200	1	8	23	0.73		
	Cranes	Terex T340-1	1	8	300	0.29		
	Worker Trips							233
	Vendor Trips							91
	Hauling Trips (TOTAL TRIPS)							0
Retail Architectural Coating								
	Plaster Gun		2	8	78	0.48		
	Worker Trips							47
	Vendor Trips							0
	Hauling Trips (TOTAL TRIPS)							0
Paving								
	Paving Machine	Blaw-Knox	1	8	188	0.42		
	Roller	Ingersol	1	8	86	0.38		
	Skip Loader	CAT 980	1	8	97	0.37		
	Worker Trips							8
	Vendor Trips							0
	Hauling Trips (TOTAL TRIPS)							0
Finishing/Landscaping								
	Grader	CAT 14M3	1	8	238	0.41		
	Worker Trips							3
	Vendor Trips							0
	Hauling Trips (TOTAL TRIPS)							0
Residential Building B Building Construction								
	Tractors/Loaders/Backhoes	Case 580	1	8	97	0.37		
	Saw	Husqvarna Soff-Cut 4200	1	8	23	0.73		
	Cranes	Terex T340-1	1	8	300	0.29		
	Worker Trips							132
	Vendor Trips							51
	Hauling Trips (TOTAL TRIPS)							0
Residential Architectural Coating								
	Plaster Gun		2	8	78	0.48		
	Worker Trips							26
	Vendor Trips							0
	Hauling Trips (TOTAL TRIPS)							0

Retail and Residential Building A Building Construction Trips

Land Use Square Feet	Unit Amount	Unit
555,915	556	1000sqft

	Worker Ratio	Trips	Vendor Ratio	Trips
Building Construction[1]	0.42	233	0.1639	91
Architectural Coating[2]	0.2	47		

[1] Building Construction worker and vendor trip ratios are based on information from CalEEMod Appendix A Calculation Details

[2] Architectural Coating worker trip is 20% of Building Construction worker trip. See CalEEMod Appendix A.

Residential Building B Building Construction Trips

Land Use Square Feet	Unit Amount	Unit
313,800	314	1000sqft

	Worker Ratio	Trips	Vendor Ratio	Trips
Building Construction[1]	0.42	132	0.1639	51
Architectural Coating[2]	0.2	26		

[1] Building Construction worker and vendor trip ratios are based on information from CalEEMod Appendix A Calculation Details

[2] Architectural Coating worker trip is 20% of Building Construction worker trip. See CalEEMod Appendix A.

CalEEMod Inputs - Brea Mall Existing Conditions

Name:	Brea Mall Mixed-Use Project
Project Number:	BREA-03.3
Project Location:	1065 Brea Mall, Brea, CA 92821
County/Air Basin:	Orange County
Climate Zone:	8
Land Use Setting:	Urban
Operational Year:	2022
Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	SCAQMD
SRA:	16

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Existing Occupied Shopping Center	Retail	1,291.43	1000sqft	18.10	1,291,433
Parking Structures	Parking	760.83	1000sqft	0.00	760,832
Surface Parking (Existing) Acres	Parking Lot	26.64	Acres	26.64	1,160,438
Other Asphalt Surfaces (Landscaping, Driveways, etc.)	Parking Lot	29.26	Acres	29.26	1,274,566
			Total	**74.00**	

Trip Generation

Land Use Type	Weekday Average Daily Trips	CalEEMod Trip Rate	Saturday Trips	CalEEMod Trip Rate	Sunday Trips	CalEEMod Trip Rate
Existing Occupied Shopping Center	30,817	23.86	39,183	30.34	24,526	18.99

Source:

Based on a fully occupied shopping center (i.e., historic baseline).

Linscott, Law, and Greenspan Engineers. 2019. Traffic Impact Analysis Scope of Work for Brea Mall Expansion Project

	Trip Type Percentages		
	Primary	Diverted	Passby
Regional Shopping Center	54%	35%	11%
Adjusted Trip Type Percentages	**100%**	**0%**	**0%**

Water Use

Land Use	Indoor (gallons/year)[1]	Outdoor (gallons/year)[2,3]
Regional Shopping Center	95,659,476	NA
Enclosed Parking with Elevator	0	NA
Other Asphalt Surfaces	0	NA
Parking Lot	0	NA
Total Water Use (gal/year)[3]	95,659,476	2,013,606

[1] Based on CalEEMod defaults for indoor water use

[2] Assumes 174,365 sqft of landscaping. Based on the California Department of Water Resource Water Budget Workbook for New and Rehabilitated Non-Residential Landscapes

[3] Assumes 100% aerobic treatment.

Solid Waste CalEEMod Defaults*

Land Use	Total Solid Waste (tons/yr)
Existing Occupied Shopping Center	1,356

Architectural Coating

Percentage of Buildings' Interior Painted:	100%
Percentage of Buildings' Exterior Painted:	100%

SCAQMD Rule 1113

Non-Res Interior Paint VOC content:	100	grams per liter
Non-Res Exterior Paint VOC content:	100	grams per liter

Land Use	Land Use SQFT	CalEEMod Factor[2]	Total Paintable Surface Area	Paintable Interior Area[1]	Paintable Exterior Area[1]
Non-Residential					
Shopping Center	1,291,433	2	2,582,866	1,937,150	645,717
TOTAL NONRESIDENTIAL				**1,937,150**	**645,717**
Asphalt Surfaces					
Parking Lot	1,160,438	6%	69,626	-	69,626
Parking Structures	760,832	6%	45,650	-	45,650
					115,276

Notes:

[1] CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.

[2] The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

[3] We assume 100% of the interior and exterior of buildings to be modernized will be painted

Electricity (Buildings)

Existing Energy

Existing non-residential is modeled using historic energy demand rates in CalEEMod. Modeling is conservative because the net increase in energy use due to the project is likely smaller than reflected due to improved building energy efficiency between the project and existing land uses.

Southern California Edison Carbon Intensity Factors

CO2:[1,2]	509.98	pounds per megawatt hour
CH4:[3]	0.033	pound per megawatt hour
N2O:[3]	0.004	pound per megawatt hour

[1] Based on CO2e intensity factor of 512 pounds per megawatt hour; Southern California Edison. 2021. 2020 Sustainability Report.

[2] Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

[3] CalEEMod default values.

Global Warming Potentials (GWP)

	AR4	AR5
CO_2	1	1
CH_4	25	28
N_2O	298	265

Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC).

CalEEMod Inputs - Brea Mall Mixed-Use Project (Option 1), Operations

Name:	Brea Mall Mixed-Use Project, Option 1
Project Number:	BREA-03.3
Project Location:	1065 Brea Mall, Brea, CA 92821
County/Air Basin:	Orange County
Climate Zone:	8
Land Use Setting:	Urban
Operational Year:	2022
Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	SCAQMD
SRA:	16

Project Site Acreage	74
Disturbed Site Acreage	15.50

Existing Land Uses	***SQFT***	***Stories***	***Acres***
Existing Occupied Shopping Center	1,282,519	2	18.10
Existing Parking Structures	760,832	2	0.00
Existing Surface Parking	1,160,438	NA	26.64
Existing Asphalt Surfaces *	1,274,566	NA	29.26

*includes landscaping and driveway areas for most conservative results

Demolition Area	***SQFT***	***Stories***	***Acres***
Sears	161,990	2	1.86
Asphalt	522,720	NA	12.00
ROW, hardscape, landscape	148,540	**NA**	3.41

New Construction	***SQFT***	***Stories***	***Acres***	
Residential				**Units**
Apartments	436,500	5	0.00	**390**
Retail				
Fitness Center	128,000	3	0.98	
Mall	69,415	2	0.80	
Sporting Goods[2]	50,000	1	0.00	
TOTAL NEW RETAIL	247,415			
Commercial Space Net Change	85,425			
Parking	***SQFT***	***Stories***	***Acres***	**Stalls**
Retail Surface Parking	129,809	NA	2.98	
Residential Structure Parking	476,800	2	5.47	**1080**
Driveways	192,000	NA	4.41	
Additional Area[2]	114,672	NA	2.63	
Total New Construction	**1,160,715**			

[1] *Sporting goods store would be built on top of ground floor mall shops*

[2] *Additional unaccounted area is assumed to be a part of "Other Asphalt Surfaces" for the most conservative outputs*

CalEEMod Land Use Inputs

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Building Square Feet
Apartments	Residential	Apartments (Mid-Rise)	390	Units	0.00	436,500
Mall Shops + Sporting Goods	Retail	Regional Shopping Center	1239.944	1000sf	17.04	1,239,944
Fitness Center	Recreational	Health Club	128.000	1000sf	0.98	128,000
Residential Parking Structures	Parking	Enclosed Parking Structure	1237.632	1000sf	5.47	1,237,632
Parking Lots	Parking	Parking Lot	766.576	1000sf	17.62	766,576
Driveways	Parking	Other Asphalt Surfaces	1432.698	1000sf	32.89	1,432,698
Total					74.00	

Trips

Land Use Type	Average Daily Trips	CalEEMod Trip Rate	Saturday Trips	CalEEMod Trip Rate	Sunday Trips	CalEEMod Trip
Regional Shopping Center	29,136	**23.50**	37,450	**30.20**	22,913	**18.48**
Health Club	3,512	**27.44**	3,373	**26.35**	3,373	**26.35**
Apartments (Mid-Rise)	1,188	**3.05**	1,073	**2.75**	893	**2.29**
Total	**33,836**		**41,896**		**27,179**	

	Trip Type Percentages		
	Primary	**Diverted**	**Passby**
Apartments (Mid-Rise)	86%	11%	3%
Regional Shopping Center	54%	35%	11%
Health Club			
Adjusted Trip Type Percentages	**100%**	**0%**	**0%**

Water Use*

Landscape Assumptions for Outdoor Water Use					
Total New Construction Area (Acres)	Assumed Landscape Percentage	New Landscaped Area	Existing Landscaped Area	Total Landscaped Area (Acres)	Total Landscaped Area (sqft)
15.50	15%	2.33	4.00	6.33	275,642.00

Land Use	Indoor (gallons/year)[1]	Outdoor (gallons/year)[2,3]
Apartments Mid Rise	25,410,070	NA
Enclosed Parking with Elevator	0	NA
Health Club	7,570,322	NA
Other Asphalt Surfaces	0	NA
Parking Lot	0	NA
Regional Shopping Center	91,845,482	NA
TOTAL WATER USE	124,825,875	2,326,926

[1] Based on CalEEMod defaults for indoor water use

[2] Based on the California Department of Water Resource Water Budget Workbook for New and Rehabilitated Non-Residential Landscapes. Assigns all outdoor water to the Apartments land uses

*Assumes 100% aerobic treatment.

Solid Waste (CalEEMod defaults)

Land Use	(tons/year)
Apartments Mid Rise	179.40
Enclosed Parking with Elevator	0.00
Health Club	729.60
Other Asphalt Surfaces	0.00
Parking Lot	0.00
Regional Shopping Center	1,301.94
TOTAL	2,210.94

Hearths

No fireplaces or barbecue grills for Option 1

Electricity (Buildings)

Default CalEEMod Energy Use

Land Use Subtype	Title-24 Electricity Energy Intensity (kWhr/size/year)*	Nontitle-24 Electricity Energy Intensity (kWhr/size/year)	Lighting Energy Intensity (KWhr/size/year)	Title-24 Natural Gas Energy Intensity (KBTU/size/year)*	Nontitle-24 Natural Gas Energy Intensity (KBTU/size/year)
Apartments Mid Rise	**38.29**	3,054.10	741.44	**5,633.62**	5,516.00
Enclosed Parking with Elevator	**3.50**	0.19	1.75	**0.00**	0.00
Health Club	**1.45**	3.83	2.99	**13.90**	6.86
Other Asphalt Surfaces	**0.00**	0.00	0.00	**0.00**	0.00
Parking Lot	**0.00**	0.00	0.35	**0.00**	0.00
Regional Shopping Center	**2.62**	2.80	5.71	**0.94**	1.05

Remaining Historical Uses

Enclosed Parking with Elevator	**3.92**	0.19	2.63	**0.00**	0.00
Parking Lot	**0.00**	0.00	0.88	**0.00**	0.00
Regional Shopping Center	**3.79**	2.80	6.85	**1.06**	1.05

Land Use Type	Remaining Historical Land Uses	New Land Uses	Total
Enclosed Parking with Elevator	760,832.00	476,800.00	1,237,632.00
Parking Lot	637,718.40	129,808.80	767,527.20
Regional Shopping Center	1,120,529.00	119,415.00	1,239,944.00

Adjusted CalEEMod Energy Use

Land Use Subtype	Title-24 Electricity Energy Intensity (kWhr/size/year)*	Nontitle-24 Electricity Energy Intensity (kWhr/size/year)	Lighting Energy Intensity (KWhr/size/year)	Title-24 Natural Gas Energy Intensity (KBTU/size/year)*	Nontitle-24 Natural Gas Energy Intensity (KBTU/size/year)
Apartments Mid Rise	**38.29**	3,054.10	741.44	**5,633.62**	5,516.00
Enclosed Parking with Elevator	**3.76**	0.19	2.29	**0.00**	0.00
Health Club	**1.45**	3.83	2.99	**13.90**	6.86
Other Asphalt Surfaces	**0.00**	0.00	0.00	**0.00**	0.00
Parking Lot	**0.00**	0.00	0.79	**0.00**	0.00
Regional Shopping Center	**3.68**	2.80	6.74	**1.05**	1.05

** adjusted CalEEMod Energy use reflects blended CalEEMod default energy rates for historical and new uses*

Architectural Coating

Percentage of Buildings' Interior Painted: 100%

Percentage of Buildings' Exterior Painted: 100%

SCAQMD Rule 1113

Non-Res Interior Paint VOC content: 100 grams per liter

Res Interior Paint VOC content: 50 grams per liter

Non-Res Exterior Paint VOC content: 100 grams per liter

Res Exterior Paint VOC content: 50 grams per liter

Land Use	Land Use SQFT	CalEEMod Factor[2]	Total Paintable Surface Area	Paintable Interior Area[1]	Paintable Exterior Area[1]
Residential					
Residential	436,500	2.7	1,178,550	**883,913**	**294,638**
Non-Residential					
Shopping Center	1,239,944	2	2,479,888	1,859,916	619,972
Fitness Center	128,000	2	256,000	192,000	64,000
				2,051,916	**683,972**
Asphalt Surfaces					
Parking Lot	766,576	6%	45,995	-	45,995
Parking Structures	1,237,632	6%	74,258	-	74,258
					120,252

[1] *CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.*

[2] *The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.*

[3] *We assume 100% of the interior and exterior of buildings to be modernized will be painted*

Southern California Edison Carbon Intensity Factors

CO2:[1,2]	509.98	pounds per megawatt hour
CH4:[3]	0.033	pound per megawatt hour
N2O:[3]	0.004	pound per megawatt hour

[1] Based on CO2e intensity factor of 512 pounds per megawatt hour; Southern California Edison. 2021. 2020 Sustainability Report. https://www.edison.com/home/sustainability/sustainability-

[2] Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

[3] CalEEMod default values.

Global Warming Potentials (GWP)

	AR4	AR5
CO_2	1	1
CH_4	25	28
N_2O	298	265

Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC).

CalEEMod Inputs - Brea Mall Mixed-Use Project (Option 2), Operations

Name:	Brea Mall Mixed-Use Project, Option 2
Project Number:	BREA-03.3
Project Location:	1065 Brea Mall, Brea, CA 92821
County/Air Basin:	Orange County
Climate Zone:	8
Land Use Setting:	Urban
Operational Year:	2022
Utility Company:	Southern California Edison
Air Basin:	South Coast Air Basin
Air District:	SCAQMD
SRA:	16

Proiect Site Acreage	74
Disturbed Site Acreage	17.50

Existing Land Uses	***SQFT***	***Stories***	***Acres***
Existing Occupied Shopping Center	1,282,519	2	18.10
Existing Parking Structures	760,832	2	0.00
Existing Surface Parking	1,160,438	NA	26.64
Existing Asphalt Surfaces *	1,274,566	NA	29.26

*includes landscaping and driveway areas for most conservative results

Demolition Area	***SQFT***	***Stories***	***Acres***
Sears	161,990	2	1.86
Asphalt	522,720	NA	12.00
ROW, hardscape, landscape	148,540	**NA**	3.41

New Construction	***SQFT***	***Stories***	***Acres***	
Residential				
Apartments	750,300	5	0.00	**Units** 670
Retail				
Mall	69,415	2	0.80	
Sporting Goods[2]	50,000	1	0.00	
TOTAL NEW RETAIL	119,415			
Commercial Space Net Change	-42,575			
Parking	***SQFT***	***Stories***	***Acres***	
Retail Surface Parking	129,809	NA	2.98	
Residential Structure Parking	398,500	2	4.57	
Driveways	192,000	NA	4.41	
Landscaping/Hardscape	196,488	NA	4.51	
			17.27	
Total New Construction	**1,268,215**		**17.50**	

[2] *Sporting goods store would be built on top of ground floor mall shops*

CalEEMod Land Use Inputs

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Building Square Feet
Apartments	Residential	Apartments (Mid-Rise)	670	DU	0.00	750,300
Mall Shops + Sporting Goods	Retail	Regional Shopping Center	1239.944	1000sf	17.04	1,239,944
Residential Parking Structures	Parking	Enclosed Parking Structure	1159.332	1000sf	4.57	1,159,332
Parking Lots	Parking	Parking Lot	766.576	1000sf	17.62	766,576
Driveways	Parking	Other Asphalt Surfaces	1514.514	1000sf	34.77	1,514,514
Total					74.00	

Trips

Land Use Type	Average Daily Trips	CalEEMod Trip Rate	Saturday Trips	CalEEMod Trip Rate	Sunday Trips	CalEEMod Trip
Shopping Center	28,533	**23.01**	36,904	**29.76**	22,460	**18.11**
Apartments (Mid-Rise)	2,041	**3.05**	1,842	**2.75**	1,535	**2.29**
Total	**30,574**		**38,746**		**23,995**	

	Trip Type Percentages		
	Primary	**Diverted**	**Passby**
Apartments Mid Rise	86%	11%	3%
Regional Shopping Center	54%	35%	11%
Adjusted Trip Type Percentages	**100%**	**0%**	**0%**

Water Use

Landscape Assumptions for Outdoor Water Use

Total New Construction Area (Acres)	Assumed Landscape Percentage	New Landscaped Area	Existing Landscaped Area*	Total Landscaped Area (Acres)	Total Landscaped Area (sqft)
15.50	15%	2.33	4.00	6.33	275,642.00

*existing landscaped area based on Google Earth estimates

Land Use	Indoor (gallons/year)[1]	Outdoor (gallons/year)[2,3]
Apartments Mid Rise	43,653,197	NA
Regional Shopping Center	91,845,482	NA
Enclosed Parking with Elevator	0	NA
Other Asphalt Surfaces	0	NA
Parking Lot	0	NA
Total Water Use (gal/year)[3]	135,498,679	2,326,926

[1] Based on CalEEMod defaults for indoor water use

[2] Based on the California Department of Water Resource Water Budget Workbook for New and Rehabilitated Non-Residential Landscapes

[3] Assumes 100% aerobic treatment.

Solid Waste

Land Use	(tons/year)
Apartments Mid Rise	308.20
Regional Shopping Center	1,301.94
TOTAL	1,610.14

Hearths

No fireplaces or barbecue grills for Option 2

Default CalEEMod Energy Use

Land Use Subtype	Title-24 Electricity Energy Intensity (kWhr/size/year)*	Nontitle-24 Electricity Energy Intensity (kWhr/size/year)	Lighting Energy Intensity (KWhr/size/year)	Title-24 Natural Gas Energy Intensity (KBTU/size/year)*	Nontitle-24 Natural Gas Energy Intensity (KBTU/size/year)
Apartments Mid Rise	**38.29**	3,054.10	741.44	**5,633.62**	5,516.00
Enclosed Parking with Elevator	**3.50**	0.19	1.75	**0.00**	0.00
Other Asphalt Surfaces	**0.00**	0.00	0.00	**0.00**	0.00
Parking Lot	**0.00**	0.00	0.35	**0.00**	0.00
Regional Shopping Center	**2.62**	2.80	5.71	**0.94**	1.05

Remaining Historical Uses

Enclosed Parking with Elevator	**3.92**	0.19	2.63	**0.00**	0.00
Parking Lot	**0.00**	0.00	0.88	**0.00**	0.00
Regional Shopping Center	**3.79**	2.80	6.85	**1.06**	1.05

Land Use Type	Remaining Historical Land Uses	New Land Uses	Total
Enclosed Parking with Elevator	760,832.00	398,500.00	1,159,332.00
Parking Lot	637,718.40	129,808.80	767,527.20
Regional Shopping Center	1,120,529.00	119,415.00	1,239,944.00

Adjusted CalEEMod Energy Use

Land Use Subtype	Title-24 Electricity Energy Intensity (kWhr/size/year)*	Nontitle-24 Electricity Energy Intensity (kWhr/size/year)	Lighting Energy Intensity (KWhr/size/year)	Title-24 Natural Gas Energy Intensity (KBTU/size/year)*	Nontitle-24 Natural Gas Energy Intensity (KBTU/size/year)
Apartments Mid Rise	**38.29**	3,054.10	741.44	**5,633.62**	5,516.00
Enclosed Parking with Elevator	**3.78**	0.19	2.33	**0.00**	0.00
Other Asphalt Surfaces	**0.00**	0.00	0.00	**0.00**	0.00
Parking Lot	**0.00**	0.00	0.79	**0.00**	0.00
Regional Shopping Center	**3.68**	2.80	6.74	**1.05**	1.05

** adjusted CalEEMod Energy use reflects blended CalEEMod default energy rates for historical and new uses*

Architectural Coating

Percentage of Buildings' Interior Painted: 100%

Percentage of Buildings' Exterior Painted: 100%

SCAQMD Rule 1113

Non-Res Interior Paint VOC content: 100 grams per liter

Res Interior Paint VOC content: 50 grams per liter

Non-Res Exterior Paint VOC content: 100 grams per liter

Res Exterior Paint VOC content: 50 grams per liter

Land Use	Land Use SQFT	CalEEMod Factor[2]	Total Paintable Surface Area	Paintable Interior Area[1]	Paintable Exterior Area[1]
Residential					
Residential	750,300	2.7	2,025,810	**1,519,358**	**506,453**
Non-Residential					
Shopping Center	1,239,944	2	2,479,888	1,859,916	619,972
				1,859,916	**619,972**
Asphalt Surfaces					
Parking Lot	766,576	6%	45,995	-	45,995
Parking Structures	1,159,332	6%	69,560	-	69,560
					115,554

[1] CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.

[2] The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

[3] We assume 100% of the interior and exterior of buildings to be modernized will be painted

Southern California Edison Carbon Intensity Factors

CO2:[1,2]	509.98	pounds per megawatt hour
CH4:[3]	0.033	pound per megawatt hour
N2O:[3]	0.004	pound per megawatt hour

[1] Based on CO2e intensity factor of 512 pounds per megawatt hour; Southern California Edison. 2021. 2020 Sustainability Report.

[2] Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

[3] CalEEMod default values.

Global Warming Potentials (GWP)

	AR4	AR5
CO_2	1	1
CH_4	25	28
N_2O	298	265

Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC).

Instructions

Cells with pale blue background are for entering data

Results show in cells with tan background

Messages and warnings are displayed in cells with yellow background

1) Select city by clicking on blue cell and

choosing a city from the drop down menu ETo

appears in the tan cell below the name of the city

2) Enter square footage of overhead spray ~~irrigated landscape area~~

3) Enter square footage of drip irrigated landscape area

4) Enter square footage of Special Landscape Area (SLA)

5) MAWA results appear in the tan cells

6) If you are considering effective precipitation (Eppt), enter total annual precipitation.

7) Eppt

8) For comparison, MAWA without effective precipitation is displayed below

MAWA without Eppt (Gallons)

1,241,328.36

Maximum Applied Water Allowance Calculations for New and Rehabilitated Non-Residential Landscapes

Enter value in Pale Blue Cells

Tan Cells Show Results

Messages and Warnings

Click on the blue cell on right to Pick City Name	**Brea**	**Name of City**
ET_o of City from Appendix A	**51.80**	**ET_o** (inches/year)
	43,954	Overhead Landscape Area (ft^2)
	41938	Drip Landscape Area (ft^2)
	0	SLA (ft^2)
Total Landscape Area	**174,365**	
Results:		
$(ET_o) \times (0.62) \times [(0.45 \times LA) + (1.0 - 0.45) \times SLA)]$	-	Gallons
	-	Cubic Feet
	-	HCF
	-	Acre-feet
	-	Millions of Gallons
MAWA calculation incorporating Effective Precipitation (Optional)		
Precipitation (Optional)		
ET_o of City from Appendix A	**52**	ET_o (inches/year)
Total Landscape Area	**174,365**	LA (ft^2)
Special Landscape Area	**0**	SLA (ft^2)
	15	Total annual precipitiation (inches/year)
Enter Effective Precipitation	**3.75**	Eppt (in/yr)(25% of total annual precipitation)
Results:		
$MAWA = [(ET_o - Eppt) \times (0.62)] \times [(0.45 \times LA) + ((1.0 - 0.45) \times SLA)]$	**2,337,450**	Gallons
	312,472.65	Cubic Feet
	3,124.73	HCF
	7.17	Acre-feet
	2.34	Millions of Gallons

Messages and Warnings

Irrigation Efficiency Default Value for overhead 0.75 and drip 0.81.

Plant Water Use Type	Plant Factor
Very Low	0 - 0.1
Low	0.2 - 0.3
Medium	0.4 - 0.6
High	0.7 - 1.0
SLA	1.0

Hydrozone	Select System From the Dropdown List click on cell below	Plant Water Use Type (s) (low, medium, high)	Plant Factor (PF)	Hydrozone Area (HA) (ft^2) Without SLA	Irrigation Efficiency (IE)	(PF x HA (ft^2))/IE
Zone 1	**Overhead Spray**	**High**	0.70	-	0.75	**0**
Zone 2	**Overhead Spray**	**Medium**	0.50	-	0.75	**0**
Zone 3	**Overhead Spray**	**Medium**	0.40	43,591	0.75	**23,249**
Zone 4	**Overhead Spray**	**Low**	0.30	43,591	0.75	**17,437**
Zone 5	**Drip**	**Low**	0.30	43,591	0.81	**16,145**
Zone 6	**Drip**	**Low**	0.20	43,591	0.81	**10,763**
Zone 7						
Zone 8						
Zone 9						
Zone 10						
Zone 11						
Zone 12						
Zone 13						
Zone 14						
Zone 15						
Zone 16						
Zone 17						
Zone 18						
Zone 19						
Zone 20						
Zone 21						
Zone 22						
Zone 23						
Zone 24						
Zone 25						
Zone 26						
Zone 27						
Zone 28						
Zone 29						
Zone 30						
Zone 31						
Zone 32						
Zone 33						
Zone 34						
Zone 35						
						67,593
		SLA		0		**0**
			Sum	174,365		

Results

MAWA = 2,337,450

ETWU = 2,013,606 Gallons
269,181 Cubic Feet
2,691.81 HCF
6.18 Acre-feet
2.01 Millions of Gallons

ETWU complies with MAWA

Instructions

Cells with pale blue background are for entering data

Results show in cells with tan background

Messages and warnings are displayed in cells with yellow backgroun

1) Select city by clicking on blue cell and

choosing a city from the drop down menu ETo

appears in the tan cell below the name of the city

2) Enter square footage of overhead spray ~~irrigated landscape area~~

3) Enter square footage of drip irrigated landscape area

4) Enter square footage of Special Landscape Area (SLA)

5) MAWA results appear in the tan cells

6) If you are considering effective precipitation (Eppt), enter total annual precipitation.

7) Eppt

8) For comparison, MAWA without effective precipitation is displayed below

MAWA without Eppt (Gallons)

1,241,328.36

Maximum Applied Water Allowance Calculations for New and Rehabilitated Non-Residential Landscapes

Enter value in Pale Blue Cells

Tan Cells Show Results

Messages and Warnings

Click on the blue cell on right to Pick City Name	**Brea**	**Name of City**
ET_o of City from Appendix A	**51.80**	**ET_o** (inches/year)
	43,954	Overhead Landscape Area (ft^2)
	41938	Drip Landscape Area (ft^2)
	0	SLA (ft^2)
Total Landscape Area	**275,642**	
Results:		
(ET_o) x (0.62) x [(0.45 x LA) + (1.0 - 0.45) X SLA)]	-	Gallons
	-	Cubic Feet
	-	HCF
	-	Acre-feet
	-	Millions of Gallons
MAWA calculation incorporating Effective Precipitation (Optional)		
Precipitation (Optional)		
ET_o of City from Appendix A	**52**	ET_o (inches/year)
Total Landscape Area	**275,642**	LA (ft^2)
Special Landscape Area	**0**	SLA (ft^2)
	15	Total annual precipitiation (inches/year)
Enter Effective Precipitation	**3.75**	Eppt (in/yr)(25% of total annual precipitation
Results:		
MAWA = [(ET_o - Eppt) x (0.62)] x [(0.45 x LA) + ((1.0 - 0.45) x SLA)]	**3,695,119**	Gallons
	493,967.18	Cubic Feet
	4,939.67	HCF
	11.34	Acre-feet
	3.70	Millions of Gallons

Messages and Warnings

Irrigation Efficiency Default Value for overhead 0.75 and drip 0.81.

Plant Water Use Type	Plant Factor
Very Low	0 - 0.1
Low	0.2 - 0.3
Medium	0.4 - 0.6
High	0.7 - 1.0
SLA	1.0

Hydrozone	Select System From the Dropdown List click on cell below	Plant Water Use Type (s) (low, medium, high)	Plant Factor (PF)	Hydrozone Area (HA) (ft^2) Without SLA	Irrigation Efficiency (IE)	(PF x HA (ft^2))/IE
Zone 1	**Overhead Spray**	**High**	0.70	-	0.75	**0**
Zone 2	**Overhead Spray**	**Medium**	0.50	-	0.75	**0**
Zone 3	**Overhead Spray**	**Medium**	0.40	27,564	0.75	**14,701**
Zone 4	**Overhead Spray**	**Low**	0.30	27,564	0.75	**11,026**
Zone 5	**Drip**	**Low**	0.30	110,257	0.81	**40,836**
Zone 6	**Drip**	**Low**	0.20	110,257	0.81	**27,224**
Zone 7						
Zone 8						
Zone 9						
Zone 10						
Zone 11						
Zone 12						
Zone 13						
Zone 14						
Zone 15						
Zone 16						
Zone 17						
Zone 18						
Zone 19						
Zone 20						
Zone 21						
Zone 22						
Zone 23						
Zone 24						
Zone 25						
Zone 26						
Zone 27						
Zone 28						
Zone 29						
Zone 30						
Zone 31						
Zone 32						
Zone 33						
Zone 34						
Zone 35						
						93,786
		SLA		0		**0**
			Sum	275,642		

Results

MAWA = 3,695,119

ETWU = 2,793,895 Gallons
373,491 Cubic Feet
3,734.91 HCF
8.57 Acre-feet
2.79 Millions of Gallons

ETWU complies with MAWA

CalEEMod Construction Model

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Brea Mall Mixed-Use Project (Option 1) Construction Run

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	476.80	1000sqft	5.47	476,800.00	0
Other Asphalt Surfaces	192.00	1000sqft	4.41	192,000.00	0
Other Non-Asphalt Surfaces	124.72	1000sqft	2.86	124,717.00	0
Parking Lot	129.81	1000sqft	2.98	129,809.00	0
Health Club	128.00	1000sqft	0.98	128,000.00	0
Apartments Mid Rise	390.00	Dwelling Unit	0.00	436,500.00	1115
Regional Shopping Center	119.42	1000sqft	0.80	119,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - structures are comprised of multiple stories

Construction Phase - based on information provided by applicant. see project description for construction durations

Off-road Equipment - based on information provided by the applicant

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - no additional equipment required for asphalt demolition debris haul

Off-road Equipment - based on information provided by applicant

Off-road Equipment - no additional equipment required for building demolition haul

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - no additional equipment required for site preparation soil haul

Off-road Equipment - no additional equipment required for site preparation soil haul

Trips and VMT - assumes 4 vt/water truck/day. Assumes that 2 dump trucks will be used for asphalt demo haul. Building Construction and Arch Coat are calculated based on CalEEMod Appendix A rates

Demolition -

Grading -

Architectural Coating - see assumptions file for calculations. Parking only accounts for parking area and driveways

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and SCAQMD Rule 1186

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	123,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	371,123.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,400.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,400.00	47,917.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	294,638.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	883,913.00	0.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	66.00

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	300.00	695.00
tblConstructionPhase	NumDays	20.00	88.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	98.00
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	NumDays	10.00	33.00
tblGrading	MaterialExported	0.00	25,416.00
tblGrading	MaterialExported	0.00	12,904.00
tblLandUse	LandUseSquareFeet	124,720.00	124,717.00
tblLandUse	LandUseSquareFeet	129,810.00	129,809.00
tblLandUse	LandUseSquareFeet	390,000.00	436,500.00
tblLandUse	LandUseSquareFeet	119,420.00	119,415.00
tblLandUse	LotAcreage	10.95	5.47
tblLandUse	LotAcreage	2.94	0.98
tblLandUse	LotAcreage	10.26	0.00
tblLandUse	LotAcreage	2.74	0.80
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	158.00	131.00
tblOffRoadEquipment	HorsePower	130.00	188.00
tblOffRoadEquipment	HorsePower	80.00	86.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	85.00	350.00
tblOffRoadEquipment	HorsePower	158.00	101.00

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	367.00	365.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	HaulingTripNumber	158.00	160.00
tblTripsAndVMT	HaulingTripNumber	112.00	163.00
tblTripsAndVMT	HaulingTripNumber	3,177.00	3,178.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	234.00	112.00
tblTripsAndVMT	WorkerTripNumber	152.00	21.00
tblTripsAndVMT	WorkerTripNumber	761.00	287.00
tblTripsAndVMT	WorkerTripNumber	152.00	21.00

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

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	0.3826	4.1265	2.8144	8.1200e-003	0.6006	0.1481	0.7486	0.0744	0.1371	0.2115	0.0000	746.4398	746.4398	0.1800	0.0186	756.4668
2023	1.6077	3.0532	3.0851	0.0104	1.0056	0.0997	1.1053	0.1871	0.0926	0.2797	0.0000	956.0420	956.0420	0.1398	0.0491	974.1653
2024	0.2219	1.5126	2.0441	7.7000e-003	0.5058	0.0415	0.5473	0.1364	0.0388	0.1752	0.0000	716.0699	716.0699	0.0675	0.0444	730.9980
2025	1.5247	1.0979	1.5675	5.7600e-003	0.3836	0.0300	0.4136	0.1034	0.0284	0.1318	0.0000	535.4819	535.4819	0.0484	0.0325	546.3648
Maximum	**1.6077**	**4.1265**	**3.0851**	**0.0104**	**1.0056**	**0.1481**	**1.1053**	**0.1871**	**0.1371**	**0.2797**	**0.0000**	**956.0420**	**956.0420**	**0.1800**	**0.0491**	**974.1653**

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	0.3826	4.1265	2.8144	8.1200e-003	0.2819	0.1481	0.4300	0.0388	0.1371	0.1759	0.0000	746.4391	746.4391	0.1800	0.0186	756.4661
2023	1.6077	3.0532	3.0851	0.0104	0.6712	0.0997	0.7709	0.1460	0.0926	0.2385	0.0000	956.0415	956.0415	0.1398	0.0491	974.1649
2024	0.2219	1.5126	2.0441	7.7000e-003	0.4676	0.0415	0.5091	0.1271	0.0388	0.1659	0.0000	716.0698	716.0698	0.0675	0.0444	730.9978
2025	1.5247	1.0979	1.5675	5.7600e-003	0.3546	0.0300	0.3847	0.0963	0.0284	0.1247	0.0000	535.4817	535.4817	0.0484	0.0325	546.3646
Maximum	**1.6077**	**4.1265**	**3.0851**	**0.0104**	**0.6712**	**0.1481**	**0.7709**	**0.1460**	**0.1371**	**0.2385**	**0.0000**	**956.0415**	**956.0415**	**0.1800**	**0.0491**	**974.1649**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	28.86	0.00	25.59	18.60	0.00	11.69	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	6-1-2022	8-31-2022	0.7055	0.7055
2	9-1-2022	11-30-2022	2.9530	2.9530
3	12-1-2022	2-28-2023	3.4073	3.4073
4	3-1-2023	5-31-2023	0.4222	0.4222
5	6-1-2023	8-31-2023	0.4190	0.4190
6	9-1-2023	11-30-2023	1.3174	1.3174
7	12-1-2023	2-29-2024	0.8537	0.8537
8	3-1-2024	5-31-2024	0.4935	0.4935
9	6-1-2024	8-31-2024	0.4053	0.4053
10	9-1-2024	11-30-2024	0.4073	0.4073
11	12-1-2024	2-28-2025	0.3930	0.3930
12	3-1-2025	5-31-2025	0.3887	0.3887
13	6-1-2025	8-31-2025	1.3621	1.3621
14	9-1-2025	9-30-2025	0.5982	0.5982
		Highest	3.4073	3.4073

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	6/1/2022	9/30/2022	5	88	
2	Building Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	
3	Asphalt Demolition	Demolition	7/1/2022	8/15/2022	5	32	
4	Asphalt Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	
5	Site Preparation	Site Preparation	10/1/2022	2/15/2023	5	98	
6	Site Preparation Soil Haul 2022	Site Preparation	10/1/2022	12/31/2022	5	65	
7	Site Preparation Soil Haul 2023	Site Preparation	1/1/2023	2/15/2023	5	33	
8	Retail and Residential Building A Building Construction	Building Construction	2/1/2023	9/30/2025	5	695	
9	Retail Architectural Coating	Architectural Coating	10/15/2023	12/23/2023	5	50	
10	Finishing and Landscaping	Trenching	4/1/2024	4/30/2024	5	22	
11	Paving	Paving	4/1/2024	4/7/2024	5	5	
12	Residential Architectural Coating	Architectural Coating	7/1/2025	9/30/2025	5	66	

Acres of Grading (Site Preparation Phase): 980

Acres of Grading (Grading Phase): 0

Acres of Paving: 15.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 371,123; Non-Residential Outdoor: 123,708; Striped Parking Area: 47,917

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition	Crushing/Proc. Equipment	1	8.00	350	0.78
Building Demolition	Excavators	2	8.00	131	0.38

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	0	8.00	158	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Excavators	1	8.00	101	0.38
Site Preparation	Graders	4	8.00	238	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Scrapers	8	8.00	365	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation Soil Haul 2022	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2022	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation Soil Haul 2023	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2023	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Retail and Residential Building A Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73
Retail and Residential Building A Building Construction	Cranes	1	8.00	300	0.29
Retail and Residential Building A Building Construction	Forklifts	0	8.00	89	0.20
Retail and Residential Building A Building Construction	Generator Sets	0	8.00	84	0.74
Retail and Residential Building A Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Retail and Residential Building A Building Construction	Welders	0	8.00	46	0.45

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Retail Architectural Coating	Air Compressors	2	6.00	78	0.48
Residential Architectural Coating	Air Compressors	2	6.00	78	0.48
Paving	Pavers	1	8.00	188	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	86	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Finishing and Landscaping	Graders	1	8.00	238	0.41

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
Building Demolition	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	0	0.00	0.00	160.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	0	0.00	0.00	163.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	14	35.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2022	0	0.00	0.00	3,178.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2023	0	0.00	0.00	1,613.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail and Residential Building A Building	3	287.00	112.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail Architectural Coating	2	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Architectural Coating	2	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing and Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building 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					
Off-Road	0.0760	0.4977	0.5620	1.5700e-003		0.0204	0.0204		0.0196	0.0196	0.0000	154.3428	154.3428	0.0190	0.0000	154.8182
Total	**0.0760**	**0.4977**	**0.5620**	**1.5700e-003**		**0.0204**	**0.0204**		**0.0196**	**0.0196**	**0.0000**	**154.3428**	**154.3428**	**0.0190**	**0.0000**	**154.8182**

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	2.9000e-004	8.2700e-003	2.8500e-003	3.0000e-005	1.1100e-003	8.0000e-005	1.1900e-003	3.2000e-004	7.0000e-005	3.9000e-004	0.0000	3.3112	3.3112	1.9000e-004	4.7000e-004	3.4575
Worker	1.3300e-003	1.0000e-003	0.0138	4.0000e-005	4.8300e-003	3.0000e-005	4.8600e-003	1.2800e-003	2.0000e-005	1.3100e-003	0.0000	3.7930	3.7930	9.0000e-005	1.0000e-004	3.8238
Total	**1.6200e-003**	**9.2700e-003**	**0.0166**	**7.0000e-005**	**5.9400e-003**	**1.1000e-004**	**6.0500e-003**	**1.6000e-003**	**9.0000e-005**	**1.7000e-003**	**0.0000**	**7.1042**	**7.1042**	**2.8000e-004**	**5.7000e-004**	**7.2812**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0760	0.4977	0.5620	1.5700e-003		0.0204	0.0204		0.0196	0.0196	0.0000	154.3427	154.3427	0.0190	0.0000	154.8180
Total	**0.0760**	**0.4977**	**0.5620**	**1.5700e-003**		**0.0204**	**0.0204**		**0.0196**	**0.0196**	**0.0000**	**154.3427**	**154.3427**	**0.0190**	**0.0000**	**154.8180**

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	2.9000e-004	8.2700e-003	2.8500e-003	3.0000e-005	1.0400e-003	8.0000e-005	1.1200e-003	3.0000e-004	7.0000e-005	3.8000e-004	0.0000	3.3112	3.3112	1.9000e-004	4.7000e-004	3.4575
Worker	1.3300e-003	1.0000e-003	0.0138	4.0000e-005	4.4500e-003	3.0000e-005	4.4800e-003	1.1900e-003	2.0000e-005	1.2100e-003	0.0000	3.7930	3.7930	9.0000e-005	1.0000e-004	3.8238
Total	**1.6200e-003**	**9.2700e-003**	**0.0166**	**7.0000e-005**	**5.4900e-003**	**1.1000e-004**	**5.6000e-003**	**1.4900e-003**	**9.0000e-005**	**1.5900e-003**	**0.0000**	**7.1042**	**7.1042**	**2.8000e-004**	**5.7000e-004**	**7.2812**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Building Demolition Debris Haul - 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					0.0171	0.0000	0.0171	2.5900e-003	0.0000	2.5900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0171**	**0.0000**	**0.0171**	**2.5900e-003**	**0.0000**	**2.5900e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2000e-004	0.0131	3.5200e-003	5.0000e-005	1.3700e-003	9.0000e-005	1.4700e-003	3.8000e-004	9.0000e-005	4.7000e-004	0.0000	4.9072	4.9072	4.7000e-004	7.9000e-004	5.1532
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.2000e-004**	**0.0131**	**3.5200e-003**	**5.0000e-005**	**1.3700e-003**	**9.0000e-005**	**1.4700e-003**	**3.8000e-004**	**9.0000e-005**	**4.7000e-004**	**0.0000**	**4.9072**	**4.9072**	**4.7000e-004**	**7.9000e-004**	**5.1532**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.3200e-003	0.0000	7.3200e-003	1.1100e-003	0.0000	1.1100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**7.3200e-003**	**0.0000**	**7.3200e-003**	**1.1100e-003**	**0.0000**	**1.1100e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2000e-004	0.0131	3.5200e-003	5.0000e-005	1.2800e-003	9.0000e-005	1.3700e-003	3.5000e-004	9.0000e-005	4.4000e-004	0.0000	4.9072	4.9072	4.7000e-004	7.9000e-004	5.1532
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.2000e-004**	**0.0131**	**3.5200e-003**	**5.0000e-005**	**1.2800e-003**	**9.0000e-005**	**1.3700e-003**	**3.5000e-004**	**9.0000e-005**	**4.4000e-004**	**0.0000**	**4.9072**	**4.9072**	**4.7000e-004**	**7.9000e-004**	**5.1532**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Asphalt 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					
Off-Road	2.6400e-003	0.0268	0.0358	5.0000e-005		1.4400e-003	1.4400e-003		1.3300e-003	1.3300e-003	0.0000	4.3725	4.3725	1.4100e-003	0.0000	4.4078
Total	**2.6400e-003**	**0.0268**	**0.0358**	**5.0000e-005**		**1.4400e-003**	**1.4400e-003**		**1.3300e-003**	**1.3300e-003**	**0.0000**	**4.3725**	**4.3725**	**1.4100e-003**	**0.0000**	**4.4078**

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	1.1000e-004	3.0100e-003	1.0400e-003	1.0000e-005	4.0000e-004	3.0000e-005	4.3000e-004	1.2000e-004	3.0000e-005	1.4000e-004	0.0000	1.2041	1.2041	7.0000e-005	1.7000e-004	1.2573
Worker	1.4000e-004	1.1000e-004	1.5000e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4138	0.4138	1.0000e-005	1.0000e-005	0.4171
Total	**2.5000e-004**	**3.1200e-003**	**2.5400e-003**	**1.0000e-005**	**9.3000e-004**	**3.0000e-005**	**9.6000e-004**	**2.6000e-004**	**3.0000e-005**	**2.8000e-004**	**0.0000**	**1.6179**	**1.6179**	**8.0000e-005**	**1.8000e-004**	**1.6744**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.6400e-003	0.0268	0.0358	5.0000e-005		1.4400e-003	1.4400e-003		1.3300e-003	1.3300e-003	0.0000	4.3725	4.3725	1.4100e-003	0.0000	4.4078
Total	**2.6400e-003**	**0.0268**	**0.0358**	**5.0000e-005**		**1.4400e-003**	**1.4400e-003**		**1.3300e-003**	**1.3300e-003**	**0.0000**	**4.3725**	**4.3725**	**1.4100e-003**	**0.0000**	**4.4078**

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	1.1000e-004	3.0100e-003	1.0400e-003	1.0000e-005	3.8000e-004	3.0000e-005	4.1000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.2041	1.2041	7.0000e-005	1.7000e-004	1.2573
Worker	1.4000e-004	1.1000e-004	1.5000e-003	0.0000	4.9000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4138	0.4138	1.0000e-005	1.0000e-005	0.4171
Total	**2.5000e-004**	**3.1200e-003**	**2.5400e-003**	**1.0000e-005**	**8.7000e-004**	**3.0000e-005**	**9.0000e-004**	**2.4000e-004**	**3.0000e-005**	**2.7000e-004**	**0.0000**	**1.6179**	**1.6179**	**8.0000e-005**	**1.8000e-004**	**1.6744**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Asphalt Demolition Debris Haul - 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					0.0121	0.0000	0.0121	1.8400e-003	0.0000	1.8400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0121**	**0.0000**	**0.0121**	**1.8400e-003**	**0.0000**	**1.8400e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-004	0.0134	3.5900e-003	5.0000e-005	1.4000e-003	1.0000e-004	1.5000e-003	3.8000e-004	9.0000e-005	4.8000e-004	0.0000	4.9993	4.9993	4.8000e-004	8.0000e-004	5.2498
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.3000e-004**	**0.0134**	**3.5900e-003**	**5.0000e-005**	**1.4000e-003**	**1.0000e-004**	**1.5000e-003**	**3.8000e-004**	**9.0000e-005**	**4.8000e-004**	**0.0000**	**4.9993**	**4.9993**	**4.8000e-004**	**8.0000e-004**	**5.2498**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					5.1900e-003	0.0000	5.1900e-003	7.9000e-004	0.0000	7.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.1900e-003**	**0.0000**	**5.1900e-003**	**7.9000e-004**	**0.0000**	**7.9000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-004	0.0134	3.5900e-003	5.0000e-005	1.3000e-003	1.0000e-004	1.4000e-003	3.6000e-004	9.0000e-005	4.5000e-004	0.0000	4.9993	4.9993	4.8000e-004	8.0000e-004	5.2498
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.3000e-004**	**0.0134**	**3.5900e-003**	**5.0000e-005**	**1.3000e-003**	**1.0000e-004**	**1.4000e-003**	**3.6000e-004**	**9.0000e-005**	**4.5000e-004**	**0.0000**	**4.9993**	**4.9993**	**4.8000e-004**	**8.0000e-004**	**5.2498**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 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					0.5197	0.0000	0.5197	0.0561	0.0000	0.0561	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2914	3.2943	2.0827	5.2300e-003		0.1239	0.1239		0.1140	0.1140	0.0000	459.3743	459.3743	0.1486	0.0000	463.0886
Total	**0.2914**	**3.2943**	**2.0827**	**5.2300e-003**	**0.5197**	**0.1239**	**0.6436**	**0.0561**	**0.1140**	**0.1701**	**0.0000**	**459.3743**	**459.3743**	**0.1486**	**0.0000**	**463.0886**

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	2.1000e-004	6.1100e-003	2.1000e-003	2.0000e-005	8.2000e-004	6.0000e-005	8.8000e-004	2.4000e-004	5.0000e-005	2.9000e-004	0.0000	2.4458	2.4458	1.4000e-004	3.5000e-004	2.5538
Worker	3.4300e-003	2.5800e-003	0.0356	1.1000e-004	0.0125	7.0000e-005	0.0126	3.3200e-003	6.0000e-005	3.3800e-003	0.0000	9.8057	9.8057	2.4000e-004	2.5000e-004	9.8853
Total	**3.6400e-003**	**8.6900e-003**	**0.0377**	**1.3000e-004**	**0.0133**	**1.3000e-004**	**0.0134**	**3.5600e-003**	**1.1000e-004**	**3.6700e-003**	**0.0000**	**12.2515**	**12.2515**	**3.8000e-004**	**6.0000e-004**	**12.4391**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					0.2222	0.0000	0.2222	0.0240	0.0000	0.0240	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2914	3.2943	2.0827	5.2300e-003		0.1239	0.1239		0.1140	0.1140	0.0000	459.3737	459.3737	0.1486	0.0000	463.0880
Total	**0.2914**	**3.2943**	**2.0827**	**5.2300e-003**	**0.2222**	**0.1239**	**0.3461**	**0.0240**	**0.1140**	**0.1380**	**0.0000**	**459.3737**	**459.3737**	**0.1486**	**0.0000**	**463.0880**

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	2.1000e-004	6.1100e-003	2.1000e-003	2.0000e-005	7.7000e-004	6.0000e-005	8.2000e-004	2.2000e-004	5.0000e-005	2.8000e-004	0.0000	2.4458	2.4458	1.4000e-004	3.5000e-004	2.5538
Worker	3.4300e-003	2.5800e-003	0.0356	1.1000e-004	0.0115	7.0000e-005	0.0116	3.0800e-003	6.0000e-005	3.1400e-003	0.0000	9.8057	9.8057	2.4000e-004	2.5000e-004	9.8853
Total	**3.6400e-003**	**8.6900e-003**	**0.0377**	**1.3000e-004**	**0.0123**	**1.3000e-004**	**0.0124**	**3.3000e-003**	**1.1000e-004**	**3.4200e-003**	**0.0000**	**12.2515**	**12.2515**	**3.8000e-004**	**6.0000e-004**	**12.4391**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Site Preparation - 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					
Fugitive Dust					0.5197	0.0000	0.5197	0.0561	0.0000	0.0561	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1406	1.5302	1.0232	2.6500e-003		0.0579	0.0579		0.0532	0.0532	0.0000	233.1691	233.1691	0.0754	0.0000	235.0544
Total	**0.1406**	**1.5302**	**1.0232**	**2.6500e-003**	**0.5197**	**0.0579**	**0.5775**	**0.0561**	**0.0532**	**0.1093**	**0.0000**	**233.1691**	**233.1691**	**0.0754**	**0.0000**	**235.0544**

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	7.0000e-005	2.4200e-003	9.7000e-004	1.0000e-005	4.2000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.1829	1.1829	7.0000e-005	1.7000e-004	1.2353
Worker	1.6300e-003	1.1700e-003	0.0168	5.0000e-005	6.3400e-003	3.0000e-005	6.3700e-003	1.6800e-003	3.0000e-005	1.7100e-003	0.0000	4.8203	4.8203	1.1000e-004	1.2000e-004	4.8578
Total	**1.7000e-003**	**3.5900e-003**	**0.0178**	**6.0000e-005**	**6.7600e-003**	**4.0000e-005**	**6.8000e-003**	**1.8000e-003**	**4.0000e-005**	**1.8400e-003**	**0.0000**	**6.0032**	**6.0032**	**1.8000e-004**	**2.9000e-004**	**6.0931**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					0.2222	0.0000	0.2222	0.0240	0.0000	0.0240	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1406	1.5302	1.0232	2.6500e-003		0.0579	0.0579		0.0532	0.0532	0.0000	233.1689	233.1689	0.0754	0.0000	235.0542
Total	**0.1406**	**1.5302**	**1.0232**	**2.6500e-003**	**0.2222**	**0.0579**	**0.2800**	**0.0240**	**0.0532**	**0.0772**	**0.0000**	**233.1689**	**233.1689**	**0.0754**	**0.0000**	**235.0542**

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	7.0000e-005	2.4200e-003	9.7000e-004	1.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.1829	1.1829	7.0000e-005	1.7000e-004	1.2353
Worker	1.6300e-003	1.1700e-003	0.0168	5.0000e-005	5.8500e-003	3.0000e-005	5.8800e-003	1.5600e-003	3.0000e-005	1.5900e-003	0.0000	4.8203	4.8203	1.1000e-004	1.2000e-004	4.8578
Total	**1.7000e-003**	**3.5900e-003**	**0.0178**	**6.0000e-005**	**6.2400e-003**	**4.0000e-005**	**6.2800e-003**	**1.6700e-003**	**4.0000e-005**	**1.7100e-003**	**0.0000**	**6.0032**	**6.0032**	**1.8000e-004**	**2.9000e-004**	**6.0931**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Site Preparation Soil Haul 2022 - 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					1.4400e-003	0.0000	1.4400e-003	2.2000e-004	0.0000	2.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.4400e-003**	**0.0000**	**1.4400e-003**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	6.3700e-003	0.2602	0.0699	9.5000e-004	0.0273	1.8700e-003	0.0292	7.4800e-003	1.7900e-003	9.2800e-003	0.0000	97.4701	97.4701	9.2900e-003	0.0156	102.3546
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.3700e-003**	**0.2602**	**0.0699**	**9.5000e-004**	**0.0273**	**1.8700e-003**	**0.0292**	**7.4800e-003**	**1.7900e-003**	**9.2800e-003**	**0.0000**	**97.4701**	**97.4701**	**9.2900e-003**	**0.0156**	**102.3546**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					6.1000e-004	0.0000	6.1000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**6.1000e-004**	**0.0000**	**6.1000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.3700e-003	0.2602	0.0699	9.5000e-004	0.0254	1.8700e-003	0.0273	7.0300e-003	1.7900e-003	8.8200e-003	0.0000	97.4701	97.4701	9.2900e-003	0.0156	102.3546
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.3700e-003**	**0.2602**	**0.0699**	**9.5000e-004**	**0.0254**	**1.8700e-003**	**0.0273**	**7.0300e-003**	**1.7900e-003**	**8.8200e-003**	**0.0000**	**97.4701**	**97.4701**	**9.2900e-003**	**0.0156**	**102.3546**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Site Preparation Soil Haul 2023 - 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					
Fugitive Dust					7.3000e-004	0.0000	7.3000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**7.3000e-004**	**0.0000**	**7.3000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	1.6400e-003	0.1011	0.0331	4.5000e-004	0.0139	6.2000e-004	0.0145	3.8000e-003	5.9000e-004	4.3900e-003	0.0000	46.8101	46.8101	4.7200e-003	7.5100e-003	49.1658
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6400e-003**	**0.1011**	**0.0331**	**4.5000e-004**	**0.0139**	**6.2000e-004**	**0.0145**	**3.8000e-003**	**5.9000e-004**	**4.3900e-003**	**0.0000**	**46.8101**	**46.8101**	**4.7200e-003**	**7.5100e-003**	**49.1658**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					3.1000e-004	0.0000	3.1000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.1000e-004**	**0.0000**	**3.1000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6400e-003	0.1011	0.0331	4.5000e-004	0.0129	6.2000e-004	0.0135	3.5700e-003	5.9000e-004	4.1600e-003	0.0000	46.8101	46.8101	4.7200e-003	7.5100e-003	49.1658
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6400e-003**	**0.1011**	**0.0331**	**4.5000e-004**	**0.0129**	**6.2000e-004**	**0.0135**	**3.5700e-003**	**5.9000e-004**	**4.1600e-003**	**0.0000**	**46.8101**	**46.8101**	**4.7200e-003**	**7.5100e-003**	**49.1658**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Retail and Residential Building A 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	0.0853	0.7938	0.7150	1.5100e-003		0.0332	0.0332		0.0310	0.0310	0.0000	128.9587	128.9587	0.0378	0.0000	129.9033
Total	**0.0853**	**0.7938**	**0.7150**	**1.5100e-003**		**0.0332**	**0.0332**		**0.0310**	**0.0310**	**0.0000**	**128.9587**	**128.9587**	**0.0378**	**0.0000**	**129.9033**

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	0.0132	0.4893	0.1965	2.4000e-003	0.0840	2.4000e-003	0.0864	0.0242	2.3000e-003	0.0265	0.0000	238.8832	238.8832	0.0142	0.0343	249.4601
Worker	0.0964	0.0689	0.9936	3.1100e-003	0.3749	1.9500e-003	0.3769	0.0996	1.7900e-003	0.1014	0.0000	285.0693	285.0693	6.6400e-003	6.8900e-003	287.2871
Total	**0.1097**	**0.5582**	**1.1901**	**5.5100e-003**	**0.4589**	**4.3500e-003**	**0.4633**	**0.1238**	**4.0900e-003**	**0.1279**	**0.0000**	**523.9524**	**523.9524**	**0.0208**	**0.0412**	**536.7471**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0853	0.7938	0.7150	1.5100e-003		0.0332	0.0332		0.0310	0.0310	0.0000	128.9586	128.9586	0.0378	0.0000	129.9031
Total	**0.0853**	**0.7938**	**0.7150**	**1.5100e-003**		**0.0332**	**0.0332**		**0.0310**	**0.0310**	**0.0000**	**128.9586**	**128.9586**	**0.0378**	**0.0000**	**129.9031**

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	0.0132	0.4893	0.1965	2.4000e-003	0.0786	2.4000e-003	0.0810	0.0229	2.3000e-003	0.0252	0.0000	238.8832	238.8832	0.0142	0.0343	249.4601
Worker	0.0964	0.0689	0.9936	3.1100e-003	0.3457	1.9500e-003	0.3476	0.0924	1.7900e-003	0.0942	0.0000	285.0693	285.0693	6.6400e-003	6.8900e-003	287.2871
Total	**0.1097**	**0.5582**	**1.1901**	**5.5100e-003**	**0.4243**	**4.3500e-003**	**0.4286**	**0.1153**	**4.0900e-003**	**0.1194**	**0.0000**	**523.9524**	**523.9524**	**0.0208**	**0.0412**	**536.7471**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Retail and Residential Building A Building Construction - 2024

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	0.0918	0.8368	0.7721	1.6600e-003		0.0343	0.0343		0.0321	0.0321	0.0000	141.9441	141.9441	0.0416	0.0000	142.9837
Total	**0.0918**	**0.8368**	**0.7721**	**1.6600e-003**		**0.0343**	**0.0343**		**0.0321**	**0.0321**	**0.0000**	**141.9441**	**141.9441**	**0.0416**	**0.0000**	**142.9837**

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	0.0143	0.5370	0.2147	2.5900e-003	0.0924	2.7700e-003	0.0952	0.0267	2.6500e-003	0.0293	0.0000	258.8967	258.8967	0.0158	0.0373	270.4161
Worker	0.0999	0.0681	1.0187	3.3100e-003	0.4127	2.0300e-003	0.4148	0.1096	1.8700e-003	0.1115	0.0000	303.8673	303.8673	6.6300e-003	7.0900e-003	306.1447
Total	**0.1142**	**0.6051**	**1.2334**	**5.9000e-003**	**0.5052**	**4.8000e-003**	**0.5100**	**0.1363**	**4.5200e-003**	**0.1408**	**0.0000**	**562.7640**	**562.7640**	**0.0224**	**0.0444**	**576.5608**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0918	0.8368	0.7721	1.6600e-003		0.0343	0.0343		0.0321	0.0321	0.0000	141.9439	141.9439	0.0416	0.0000	142.9835
Total	**0.0918**	**0.8368**	**0.7721**	**1.6600e-003**		**0.0343**	**0.0343**		**0.0321**	**0.0321**	**0.0000**	**141.9439**	**141.9439**	**0.0416**	**0.0000**	**142.9835**

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	0.0143	0.5370	0.2147	2.5900e-003	0.0865	2.7700e-003	0.0893	0.0252	2.6500e-003	0.0279	0.0000	258.8967	258.8967	0.0158	0.0373	270.4161
Worker	0.0999	0.0681	1.0187	3.3100e-003	0.3805	2.0300e-003	0.3826	0.1017	1.8700e-003	0.1036	0.0000	303.8673	303.8673	6.6300e-003	7.0900e-003	306.1447
Total	**0.1142**	**0.6051**	**1.2334**	**5.9000e-003**	**0.4671**	**4.8000e-003**	**0.4719**	**0.1269**	**4.5200e-003**	**0.1314**	**0.0000**	**562.7640**	**562.7640**	**0.0224**	**0.0444**	**576.5608**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Retail and Residential Building A Building Construction - 2025

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	0.0653	0.5775	0.5593	1.2400e-003		0.0231	0.0231		0.0216	0.0216	0.0000	105.6575	105.6575	0.0310	0.0000	106.4314
Total	**0.0653**	**0.5775**	**0.5593**	**1.2400e-003**		**0.0231**	**0.0231**		**0.0216**	**0.0216**	**0.0000**	**105.6575**	**105.6575**	**0.0310**	**0.0000**	**106.4314**

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	0.0105	0.3977	0.1591	1.8900e-003	0.0688	2.0700e-003	0.0709	0.0198	1.9800e-003	0.0218	0.0000	189.0855	189.0855	0.0119	0.0274	197.5420
Worker	0.0702	0.0459	0.7121	2.3800e-003	0.3072	1.4500e-003	0.3086	0.0816	1.3300e-003	0.0829	0.0000	218.4767	218.4767	4.4900e-003	4.9600e-003	220.0669
Total	**0.0808**	**0.4436**	**0.8712**	**4.2700e-003**	**0.3760**	**3.5200e-003**	**0.3795**	**0.1014**	**3.3100e-003**	**0.1047**	**0.0000**	**407.5622**	**407.5622**	**0.0164**	**0.0323**	**417.6089**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0653	0.5775	0.5593	1.2400e-003		0.0231	0.0231		0.0216	0.0216	0.0000	105.6574	105.6574	0.0310	0.0000	106.4312
Total	**0.0653**	**0.5775**	**0.5593**	**1.2400e-003**		**0.0231**	**0.0231**		**0.0216**	**0.0216**	**0.0000**	**105.6574**	**105.6574**	**0.0310**	**0.0000**	**106.4312**

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	0.0105	0.3977	0.1591	1.8900e-003	0.0644	2.0700e-003	0.0665	0.0188	1.9800e-003	0.0208	0.0000	189.0855	189.0855	0.0119	0.0274	197.5420
Worker	0.0702	0.0459	0.7121	2.3800e-003	0.2832	1.4500e-003	0.2847	0.0757	1.3300e-003	0.0770	0.0000	218.4767	218.4767	4.4900e-003	4.9600e-003	220.0669
Total	**0.0808**	**0.4436**	**0.8712**	**4.2700e-003**	**0.3476**	**3.5200e-003**	**0.3512**	**0.0945**	**3.3100e-003**	**0.0978**	**0.0000**	**407.5622**	**407.5622**	**0.0164**	**0.0323**	**417.6089**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Retail 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	1.2578					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5800e-003	0.0652	0.0906	1.5000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003	0.0000	12.7663	12.7663	7.6000e-004	0.0000	12.7854
Total	**1.2674**	**0.0652**	**0.0906**	**1.5000e-004**		**3.5400e-003**	**3.5400e-003**		**3.5400e-003**	**3.5400e-003**	**0.0000**	**12.7663**	**12.7663**	**7.6000e-004**	**0.0000**	**12.7854**

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	1.4800e-003	1.0600e-003	0.0153	5.0000e-005	5.7600e-003	3.0000e-005	5.7900e-003	1.5300e-003	3.0000e-005	1.5600e-003	0.0000	4.3821	4.3821	1.0000e-004	1.1000e-004	4.4162
Total	**1.4800e-003**	**1.0600e-003**	**0.0153**	**5.0000e-005**	**5.7600e-003**	**3.0000e-005**	**5.7900e-003**	**1.5300e-003**	**3.0000e-005**	**1.5600e-003**	**0.0000**	**4.3821**	**4.3821**	**1.0000e-004**	**1.1000e-004**	**4.4162**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.2578					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5800e-003	0.0652	0.0906	1.5000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003	0.0000	12.7663	12.7663	7.6000e-004	0.0000	12.7854
Total	**1.2674**	**0.0652**	**0.0906**	**1.5000e-004**		**3.5400e-003**	**3.5400e-003**		**3.5400e-003**	**3.5400e-003**	**0.0000**	**12.7663**	**12.7663**	**7.6000e-004**	**0.0000**	**12.7854**

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	1.4800e-003	1.0600e-003	0.0153	5.0000e-005	5.3100e-003	3.0000e-005	5.3400e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.3821	4.3821	1.0000e-004	1.1000e-004	4.4162
Total	**1.4800e-003**	**1.0600e-003**	**0.0153**	**5.0000e-005**	**5.3100e-003**	**3.0000e-005**	**5.3400e-003**	**1.4200e-003**	**3.0000e-005**	**1.4500e-003**	**0.0000**	**4.3821**	**4.3821**	**1.0000e-004**	**1.1000e-004**	**4.4162**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Finishing and Landscaping - 2024

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	4.9600e-003	0.0582	0.0232	9.0000e-005		1.8900e-003	1.8900e-003		1.7400e-003	1.7400e-003	0.0000	8.1348	8.1348	2.6300e-003	0.0000	8.2006
Total	**4.9600e-003**	**0.0582**	**0.0232**	**9.0000e-005**		**1.8900e-003**	**1.8900e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**8.1348**	**8.1348**	**2.6300e-003**	**0.0000**	**8.2006**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	8.9000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2667	0.2667	1.0000e-005	1.0000e-005	0.2687
Total	**9.0000e-005**	**6.0000e-005**	**8.9000e-004**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2667**	**0.2667**	**1.0000e-005**	**1.0000e-005**	**0.2687**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	4.9600e-003	0.0582	0.0232	9.0000e-005		1.8900e-003	1.8900e-003		1.7400e-003	1.7400e-003	0.0000	8.1348	8.1348	2.6300e-003	0.0000	8.2006
Total	**4.9600e-003**	**0.0582**	**0.0232**	**9.0000e-005**		**1.8900e-003**	**1.8900e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**8.1348**	**8.1348**	**2.6300e-003**	**0.0000**	**8.2006**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	8.9000e-004	0.0000	3.3000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2667	0.2667	1.0000e-005	1.0000e-005	0.2687
Total	**9.0000e-005**	**6.0000e-005**	**8.9000e-004**	**0.0000**	**3.3000e-004**	**0.0000**	**3.4000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.2667**	**0.2667**	**1.0000e-005**	**1.0000e-005**	**0.2687**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Paving - 2024

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	1.1700e-003	0.0124	0.0141	3.0000e-005		5.3000e-004	5.3000e-004		4.8000e-004	4.8000e-004	0.0000	2.7987	2.7987	9.1000e-004	0.0000	2.8213
Paving	9.6800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.0124**	**0.0141**	**3.0000e-005**		**5.3000e-004**	**5.3000e-004**		**4.8000e-004**	**4.8000e-004**	**0.0000**	**2.7987**	**2.7987**	**9.1000e-004**	**0.0000**	**2.8213**

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	5.0000e-005	4.0000e-005	5.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1616	0.1616	0.0000	0.0000	0.1629
Total	**5.0000e-005**	**4.0000e-005**	**5.4000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1616**	**0.1616**	**0.0000**	**0.0000**	**0.1629**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.1700e-003	0.0124	0.0141	3.0000e-005		5.3000e-004	5.3000e-004		4.8000e-004	4.8000e-004	0.0000	2.7987	2.7987	9.1000e-004	0.0000	2.8213
Paving	9.6800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.0124**	**0.0141**	**3.0000e-005**		**5.3000e-004**	**5.3000e-004**		**4.8000e-004**	**4.8000e-004**	**0.0000**	**2.7987**	**2.7987**	**9.1000e-004**	**0.0000**	**2.8213**

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	5.0000e-005	4.0000e-005	5.4000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.1616	0.1616	0.0000	0.0000	0.1629
Total	**5.0000e-005**	**4.0000e-005**	**5.4000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1616**	**0.1616**	**0.0000**	**0.0000**	**0.1629**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Residential Architectural Coating - 2025

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	1.3657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.0756	0.1194	2.0000e-004		3.4000e-003	3.4000e-003		3.4000e-003	3.4000e-003	0.0000	16.8515	16.8515	9.2000e-004	0.0000	16.8745
Total	**1.3769**	**0.0756**	**0.1194**	**2.0000e-004**		**3.4000e-003**	**3.4000e-003**		**3.4000e-003**	**3.4000e-003**	**0.0000**	**16.8515**	**16.8515**	**9.2000e-004**	**0.0000**	**16.8745**

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	1.7400e-003	1.1400e-003	0.0176	6.0000e-005	7.6100e-003	4.0000e-005	7.6400e-003	2.0200e-003	3.0000e-005	2.0500e-003	0.0000	5.4107	5.4107	1.1000e-004	1.2000e-004	5.4501
Total	**1.7400e-003**	**1.1400e-003**	**0.0176**	**6.0000e-005**	**7.6100e-003**	**4.0000e-005**	**7.6400e-003**	**2.0200e-003**	**3.0000e-005**	**2.0500e-003**	**0.0000**	**5.4107**	**5.4107**	**1.1000e-004**	**1.2000e-004**	**5.4501**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.3657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.0756	0.1194	2.0000e-004		3.4000e-003	3.4000e-003		3.4000e-003	3.4000e-003	0.0000	16.8515	16.8515	9.2000e-004	0.0000	16.8744
Total	**1.3769**	**0.0756**	**0.1194**	**2.0000e-004**		**3.4000e-003**	**3.4000e-003**		**3.4000e-003**	**3.4000e-003**	**0.0000**	**16.8515**	**16.8515**	**9.2000e-004**	**0.0000**	**16.8744**

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	1.7400e-003	1.1400e-003	0.0176	6.0000e-005	7.0100e-003	4.0000e-005	7.0500e-003	1.8700e-003	3.0000e-005	1.9100e-003	0.0000	5.4107	5.4107	1.1000e-004	1.2000e-004	5.4501
Total	**1.7400e-003**	**1.1400e-003**	**0.0176**	**6.0000e-005**	**7.0100e-003**	**4.0000e-005**	**7.0500e-003**	**1.8700e-003**	**3.0000e-005**	**1.9100e-003**	**0.0000**	**5.4107**	**5.4107**	**1.1000e-004**	**1.2000e-004**	**5.4501**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Brea Mall Mixed-Use Project (Option 1) Construction Run

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	476.80	1000sqft	5.47	476,800.00	0
Other Asphalt Surfaces	192.00	1000sqft	4.41	192,000.00	0
Other Non-Asphalt Surfaces	124.72	1000sqft	2.86	124,717.00	0
Parking Lot	129.81	1000sqft	2.98	129,809.00	0
Health Club	128.00	1000sqft	0.98	128,000.00	0
Apartments Mid Rise	390.00	Dwelling Unit	0.00	436,500.00	1115
Regional Shopping Center	119.42	1000sqft	0.80	119,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - structures are comprised of multiple stories

Construction Phase - based on information provided by applicant. see project description for construction durations

Off-road Equipment - based on information provided by the applicant

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - no additional equipment required for asphalt demolition debris haul

Off-road Equipment - based on information provided by applicant

Off-road Equipment - no additional equipment required for building demolition haul

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - no additional equipment required for site preparation soil haul

Off-road Equipment - no additional equipment required for site preparation soil haul

Trips and VMT - assumes 4 vt/water truck/day. Assumes that 2 dump trucks will be used for asphalt demo haul. Building Construction and Arch Coat are calculated based on CalEEMod Appendix A rates

Demolition -

Grading -

Architectural Coating - see assumptions file for calculations. Parking only accounts for parking area and driveways

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and SCAQMD Rule 1186

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	123,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	371,123.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,400.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,400.00	47,917.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	294,638.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	883,913.00	0.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	66.00

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	300.00	695.00
tblConstructionPhase	NumDays	20.00	88.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	98.00
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	NumDays	10.00	33.00
tblGrading	MaterialExported	0.00	25,416.00
tblGrading	MaterialExported	0.00	12,904.00
tblLandUse	LandUseSquareFeet	124,720.00	124,717.00
tblLandUse	LandUseSquareFeet	129,810.00	129,809.00
tblLandUse	LandUseSquareFeet	390,000.00	436,500.00
tblLandUse	LandUseSquareFeet	119,420.00	119,415.00
tblLandUse	LotAcreage	10.95	5.47
tblLandUse	LotAcreage	2.94	0.98
tblLandUse	LotAcreage	10.26	0.00
tblLandUse	LotAcreage	2.74	0.80
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	158.00	131.00
tblOffRoadEquipment	HorsePower	130.00	188.00
tblOffRoadEquipment	HorsePower	80.00	86.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	85.00	350.00
tblOffRoadEquipment	HorsePower	158.00	101.00

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	367.00	365.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	HaulingTripNumber	158.00	160.00
tblTripsAndVMT	HaulingTripNumber	112.00	163.00
tblTripsAndVMT	HaulingTripNumber	3,177.00	3,178.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	234.00	112.00
tblTripsAndVMT	WorkerTripNumber	152.00	21.00
tblTripsAndVMT	WorkerTripNumber	761.00	287.00
tblTripsAndVMT	WorkerTripNumber	152.00	21.00

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

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	9.2759	109.2263	67.4349	0.1943	11.9187	3.8737	15.7924	1.7867	3.5659	5.0624	0.0000	19,313.9056	19,313.9056	5.3671	0.6096	19,611.7042
2023	52.3932	109.8825	81.5387	0.2522	15.8426	3.8621	19.7047	2.5532	3.5591	6.1123	0.0000	25,258.1148	25,258.1148	5.9071	0.8964	25,672.9244
2024	6.3907	21.0297	23.7143	0.0808	4.0471	0.6813	4.7283	1.0895	0.6313	1.7208	0.0000	8,171.5224	8,171.5224	1.2022	0.3711	8,312.1686
2025	43.2741	12.5601	19.1786	0.0652	4.1588	0.3768	4.5356	1.1191	0.3595	1.4786	0.0000	6,640.0993	6,640.0993	0.5684	0.3650	6,763.0658
Maximum	**52.3932**	**109.8825**	**81.5387**	**0.2522**	**15.8426**	**3.8737**	**19.7047**	**2.5532**	**3.5659**	**6.1123**	**0.0000**	**25,258.1148**	**25,258.1148**	**5.9071**	**0.8964**	**25,672.9244**

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	9.2759	109.2263	67.4349	0.1943	5.7316	3.8737	9.6053	0.9222	3.5659	4.3808	0.0000	19,313.9056	19,313.9056	5.3671	0.6096	19,611.7042
2023	52.3932	109.8825	81.5387	0.2522	9.3585	3.8621	13.2206	1.7987	3.5591	5.3579	0.0000	25,258.1148	25,258.1148	5.9071	0.8964	25,672.9244
2024	6.3907	21.0297	23.7143	0.0808	3.7405	0.6813	4.4217	1.0142	0.6313	1.6456	0.0000	8,171.5224	8,171.5224	1.2022	0.3711	8,312.1686
2025	43.2741	12.5601	19.1786	0.0652	3.8435	0.3768	4.2203	1.0417	0.3595	1.4012	0.0000	6,640.0993	6,640.0993	0.5684	0.3650	6,763.0658
Maximum	**52.3932**	**109.8825**	**81.5387**	**0.2522**	**9.3585**	**3.8737**	**13.2206**	**1.7987**	**3.5659**	**5.3579**	**0.0000**	**25,258.1148**	**25,258.1148**	**5.9071**	**0.8964**	**25,672.9244**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	36.96	0.00	29.70	27.05	0.00	11.05	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	Building Demolition	Demolition	6/1/2022	9/30/2022	5	88	
2	Building Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	
3	Asphalt Demolition	Demolition	7/1/2022	8/15/2022	5	32	
4	Asphalt Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	
5	Site Preparation	Site Preparation	10/1/2022	2/15/2023	5	98	
6	Site Preparation Soil Haul 2022	Site Preparation	10/1/2022	12/31/2022	5	65	
7	Site Preparation Soil Haul 2023	Site Preparation	1/1/2023	2/15/2023	5	33	
8	Retail and Residential Building A Building Construction	Building Construction	2/1/2023	9/30/2025	5	695	
9	Retail Architectural Coating	Architectural Coating	10/15/2023	12/23/2023	5	50	
10	Finishing and Landscaping	Trenching	4/1/2024	4/30/2024	5	22	
11	Paving	Paving	4/1/2024	4/7/2024	5	5	
12	Residential Architectural Coating	Architectural Coating	7/1/2025	9/30/2025	5	66	

Acres of Grading (Site Preparation Phase): 980

Acres of Grading (Grading Phase): 0

Acres of Paving: 15.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 371,123; Non-Residential Outdoor: 123,708; Striped Parking Area: 47,917

OffRoad Equipment

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition	Crushing/Proc. Equipment	1	8.00	350	0.78
Building Demolition	Excavators	2	8.00	131	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	0	8.00	158	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Excavators	1	8.00	101	0.38
Site Preparation	Graders	4	8.00	238	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Scrapers	8	8.00	365	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation Soil Haul 2022	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2022	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation Soil Haul 2023	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2023	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Retail and Residential Building A Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73
Retail and Residential Building A Building Construction	Cranes	1	8.00	300	0.29

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Retail and Residential Building A Building Construction	Forklifts	0	8.00	89	0.20
Retail and Residential Building A Building Construction	Generator Sets	0	8.00	84	0.74
Retail and Residential Building A Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Retail and Residential Building A Building Construction	Welders	0	8.00	46	0.45
Retail Architectural Coating	Air Compressors	2	6.00	78	0.48
Residential Architectural Coating	Air Compressors	2	6.00	78	0.48
Paving	Pavers	1	8.00	188	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	86	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Finishing and Landscaping	Graders	1	8.00	238	0.41

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
Building Demolition	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	0	0.00	0.00	160.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	0	0.00	0.00	163.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	14	35.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2022	0	0.00	0.00	3,178.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2023	0	0.00	0.00	1,613.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail and Residential Building A Building	3	287.00	112.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail Architectural Coating	2	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Architectural Coating	2	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing and Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building 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					
Off-Road	1.7282	11.3102	12.7732	0.0358		0.4637	0.4637		0.4451	0.4451		3,866.6787	3,866.6787	0.4763		3,878.5869
Total	**1.7282**	**11.3102**	**12.7732**	**0.0358**		**0.4637**	**0.4637**		**0.4451**	**0.4451**		**3,866.6787**	**3,866.6787**	**0.4763**		**3,878.5869**

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6700e-003	9.0300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	0.0301	0.0202	0.3286	9.7000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		98.4712	98.4712	2.3200e-003	2.2100e-003	99.1885
Total	**0.0367**	**0.1997**	**0.3924**	**1.7300e-003**	**0.1374**	**2.3500e-003**	**0.1397**	**0.0370**	**2.2200e-003**	**0.0392**		**181.4142**	**181.4142**	**7.0700e-003**	**0.0141**	**185.7925**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.7282	11.3102	12.7732	0.0358		0.4637	0.4637		0.4451	0.4451	0.0000	3,866.6787	3,866.6787	0.4763		3,878.5869
Total	**1.7282**	**11.3102**	**12.7732**	**0.0358**		**0.4637**	**0.4637**		**0.4451**	**0.4451**	**0.0000**	**3,866.6787**	**3,866.6787**	**0.4763**		**3,878.5869**

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6700e-003	8.6300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	0.0301	0.0202	0.3286	9.7000e-004	0.1030	6.0000e-004	0.1036	0.0275	5.5000e-004	0.0281		98.4712	98.4712	2.3200e-003	2.2100e-003	99.1885
Total	**0.0367**	**0.1997**	**0.3924**	**1.7300e-003**	**0.1270**	**2.3500e-003**	**0.1293**	**0.0345**	**2.2200e-003**	**0.0367**		**181.4142**	**181.4142**	**7.0700e-003**	**0.0141**	**185.7925**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Building Demolition Debris Haul - 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					5.7064	0.0000	5.7064	0.8640	0.0000	0.8640			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.7064**	**0.0000**	**5.7064**	**0.8640**	**0.0000**	**0.8640**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1080	4.1518	1.1662	0.0159	0.4651	0.0314	0.4965	0.1274	0.0301	0.1574		1,802.9238	1,802.9238	0.1719	0.2888	1,893.2714
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	0.0000	0.0000	0.0000	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	**0.1080**	**4.1518**	**1.1662**	**0.0159**	**0.4651**	**0.0314**	**0.4965**	**0.1274**	**0.0301**	**0.1574**		**1,802.9238**	**1,802.9238**	**0.1719**	**0.2888**	**1,893.2714**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4395	0.0000	2.4395	0.3694	0.0000	0.3694			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.4395**	**0.0000**	**2.4395**	**0.3694**	**0.0000**	**0.3694**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1080	4.1518	1.1662	0.0159	0.4334	0.0314	0.4648	0.1196	0.0301	0.1496		1,802.9238	1,802.9238	0.1719	0.2888	1,893.2714
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	0.0000	0.0000	0.0000	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	**0.1080**	**4.1518**	**1.1662**	**0.0159**	**0.4334**	**0.0314**	**0.4648**	**0.1196**	**0.0301**	**0.1496**		**1,802.9238**	**1,802.9238**	**0.1719**	**0.2888**	**1,893.2714**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Asphalt 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					
Off-Road	0.1647	1.6756	2.2379	3.1100e-003		0.0901	0.0901		0.0829	0.0829		301.2390	301.2390	0.0974		303.6746
Total	**0.1647**	**1.6756**	**2.2379**	**3.1100e-003**		**0.0901**	**0.0901**		**0.0829**	**0.0829**		**301.2390**	**301.2390**	**0.0974**		**303.6746**

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6700e-003	9.0300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	9.0200e-003	6.0600e-003	0.0986	2.9000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		29.5414	29.5414	6.9000e-004	6.6000e-004	29.7566
Total	**0.0157**	**0.1855**	**0.1623**	**1.0500e-003**	**0.0591**	**1.9300e-003**	**0.0610**	**0.0163**	**1.8400e-003**	**0.0181**		**112.4844**	**112.4844**	**5.4400e-003**	**0.0126**	**116.3606**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1647	1.6756	2.2379	3.1100e-003		0.0901	0.0901		0.0829	0.0829	0.0000	301.2390	301.2390	0.0974		303.6746
Total	**0.1647**	**1.6756**	**2.2379**	**3.1100e-003**		**0.0901**	**0.0901**		**0.0829**	**0.0829**	**0.0000**	**301.2390**	**301.2390**	**0.0974**		**303.6746**

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6700e-003	8.6300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	9.0200e-003	6.0600e-003	0.0986	2.9000e-004	0.0309	1.8000e-004	0.0311	8.2500e-003	1.7000e-004	8.4200e-003		29.5414	29.5414	6.9000e-004	6.6000e-004	29.7566
Total	**0.0157**	**0.1855**	**0.1623**	**1.0500e-003**	**0.0549**	**1.9300e-003**	**0.0568**	**0.0152**	**1.8400e-003**	**0.0171**		**112.4844**	**112.4844**	**5.4400e-003**	**0.0126**	**116.3606**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Asphalt Demolition Debris Haul - 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					4.0444	0.0000	4.0444	0.6124	0.0000	0.6124			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**4.0444**	**0.0000**	**4.0444**	**0.6124**	**0.0000**	**0.6124**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1100	4.2296	1.1881	0.0162	0.4738	0.0320	0.5058	0.1298	0.0306	0.1604		1,836.7286	1,836.7286	0.1751	0.2942	1,928.7702
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	0.0000	0.0000	0.0000	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	**0.1100**	**4.2296**	**1.1881**	**0.0162**	**0.4738**	**0.0320**	**0.5058**	**0.1298**	**0.0306**	**0.1604**		**1,836.7286**	**1,836.7286**	**0.1751**	**0.2942**	**1,928.7702**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7290	0.0000	1.7290	0.2618	0.0000	0.2618			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.7290**	**0.0000**	**1.7290**	**0.2618**	**0.0000**	**0.2618**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1100	4.2296	1.1881	0.0162	0.4415	0.0320	0.4735	0.1218	0.0306	0.1524		1,836.7286	1,836.7286	0.1751	0.2942	1,928.7702
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	0.0000	0.0000	0.0000	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	**0.1100**	**4.2296**	**1.1881**	**0.0162**	**0.4415**	**0.0320**	**0.4735**	**0.1218**	**0.0306**	**0.1524**		**1,836.7286**	**1,836.7286**	**0.1751**	**0.2942**	**1,928.7702**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 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					10.6050	0.0000	10.6050	1.1451	0.0000	1.1451			0.0000			0.0000
Off-Road	8.9659	101.3640	64.0828	0.1609		3.8122	3.8122		3.5072	3.5072		15,580.7221	15,580.7221	5.0391		15,706.7002
Total	**8.9659**	**101.3640**	**64.0828**	**0.1609**	**10.6050**	**3.8122**	**14.4172**	**1.1451**	**3.5072**	**4.6523**		**15,580.7221**	**15,580.7221**	**5.0391**		**15,706.7002**

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6700e-003	9.0300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	0.1053	0.0707	1.1502	3.4100e-003	0.3912	2.1100e-003	0.3933	0.1038	1.9400e-003	0.1057		344.6490	344.6490	8.1100e-003	7.7500e-003	347.1598
Total	**0.1119**	**0.2502**	**1.2140**	**4.1700e-003**	**0.4168**	**3.8600e-003**	**0.4207**	**0.1111**	**3.6100e-003**	**0.1147**		**427.5921**	**427.5921**	**0.0129**	**0.0196**	**433.7638**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					4.5336	0.0000	4.5336	0.4895	0.0000	0.4895			0.0000			0.0000
Off-Road	8.9659	101.3640	64.0828	0.1609		3.8122	3.8122		3.5072	3.5072	0.0000	15,580.7221	15,580.7221	5.0391		15,706.7002
Total	**8.9659**	**101.3640**	**64.0828**	**0.1609**	**4.5336**	**3.8122**	**8.3459**	**0.4895**	**3.5072**	**3.9968**	**0.0000**	**15,580.7221**	**15,580.7221**	**5.0391**		**15,706.7002**

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6700e-003	8.6300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	0.1053	0.0707	1.1502	3.4100e-003	0.3606	2.1100e-003	0.3627	0.0962	1.9400e-003	0.0982		344.6490	344.6490	8.1100e-003	7.7500e-003	347.1598
Total	**0.1119**	**0.2502**	**1.2140**	**4.1700e-003**	**0.3846**	**3.8600e-003**	**0.3884**	**0.1032**	**3.6100e-003**	**0.1068**		**427.5921**	**427.5921**	**0.0129**	**0.0196**	**433.7638**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Site Preparation - 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					
Fugitive Dust					10.6050	0.0000	10.6050	1.1451	0.0000	1.1451			0.0000			0.0000
Off-Road	8.5191	92.7414	62.0147	0.1609		3.5061	3.5061		3.2256	3.2256		15,577.2716	15,577.2716	5.0380		15,703.2217
Total	**8.5191**	**92.7414**	**62.0147**	**0.1609**	**10.6050**	**3.5061**	**14.1111**	**1.1451**	**3.2256**	**4.3707**		**15,577.2716**	**15,577.2716**	**5.0380**		**15,703.2217**

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	4.0400e-003	0.1402	0.0581	7.2000e-004	0.0256	7.2000e-004	0.0263	7.3600e-003	6.9000e-004	8.0500e-003		78.9798	78.9798	4.7000e-003	0.0113	82.4743
Worker	0.0986	0.0631	1.0688	3.3000e-003	0.3912	1.9900e-003	0.3932	0.1038	1.8400e-003	0.1056		333.6766	333.6766	7.3300e-003	7.2100e-003	336.0081
Total	**0.1026**	**0.2032**	**1.1270**	**4.0200e-003**	**0.4168**	**2.7100e-003**	**0.4195**	**0.1111**	**2.5300e-003**	**0.1136**		**412.6563**	**412.6563**	**0.0120**	**0.0185**	**418.4823**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					4.5336	0.0000	4.5336	0.4895	0.0000	0.4895			0.0000			0.0000
Off-Road	8.5191	92.7414	62.0147	0.1609		3.5061	3.5061		3.2256	3.2256	0.0000	15,577.2716	15,577.2716	5.0380		15,703.2217
Total	**8.5191**	**92.7414**	**62.0147**	**0.1609**	**4.5336**	**3.5061**	**8.0398**	**0.4895**	**3.2256**	**3.7152**	**0.0000**	**15,577.2716**	**15,577.2716**	**5.0380**		**15,703.2217**

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	4.0400e-003	0.1402	0.0581	7.2000e-004	0.0239	7.2000e-004	0.0247	6.9600e-003	6.9000e-004	7.6500e-003		78.9798	78.9798	4.7000e-003	0.0113	82.4743
Worker	0.0986	0.0631	1.0688	3.3000e-003	0.3606	1.9900e-003	0.3626	0.0962	1.8400e-003	0.0981		333.6766	333.6766	7.3300e-003	7.2100e-003	336.0081
Total	**0.1026**	**0.2032**	**1.1270**	**4.0200e-003**	**0.3845**	**2.7100e-003**	**0.3873**	**0.1032**	**2.5300e-003**	**0.1057**		**412.6563**	**412.6563**	**0.0120**	**0.0185**	**418.4823**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Site Preparation Soil Haul 2022 - 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					0.0442	0.0000	0.0442	6.7000e-003	0.0000	6.7000e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0442**	**0.0000**	**0.0442**	**6.7000e-003**	**0.0000**	**6.7000e-003**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1981	7.6121	2.1382	0.0292	0.8527	0.0576	0.9103	0.2335	0.0551	0.2886		3,305.5914	3,305.5914	0.3151	0.5294	3,471.2402
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	0.0000	0.0000	0.0000	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	**0.1981**	**7.6121**	**2.1382**	**0.0292**	**0.8527**	**0.0576**	**0.9103**	**0.2335**	**0.0551**	**0.2886**		**3,305.5914**	**3,305.5914**	**0.3151**	**0.5294**	**3,471.2402**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					0.0189	0.0000	0.0189	2.8600e-003	0.0000	2.8600e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0189**	**0.0000**	**0.0189**	**2.8600e-003**	**0.0000**	**2.8600e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1981	7.6121	2.1382	0.0292	0.7945	0.0576	0.8521	0.2192	0.0551	0.2743		3,305.5914	3,305.5914	0.3151	0.5294	3,471.2402
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	0.0000	0.0000	0.0000	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	**0.1981**	**7.6121**	**2.1382**	**0.0292**	**0.7945**	**0.0576**	**0.8521**	**0.2192**	**0.0551**	**0.2743**		**3,305.5914**	**3,305.5914**	**0.3151**	**0.5294**	**3,471.2402**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Site Preparation Soil Haul 2023 - 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					
Fugitive Dust					0.0442	0.0000	0.0442	6.7000e-003	0.0000	6.7000e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0442**	**0.0000**	**0.0442**	**6.7000e-003**	**0.0000**	**6.7000e-003**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1019	5.8250	1.9968	0.0274	0.8524	0.0375	0.8899	0.2334	0.0359	0.2693		3,126.0457	3,126.0457	0.3154	0.5015	3,283.3653
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	0.0000	0.0000	0.0000	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	**0.1019**	**5.8250**	**1.9968**	**0.0274**	**0.8524**	**0.0375**	**0.8899**	**0.2334**	**0.0359**	**0.2693**		**3,126.0457**	**3,126.0457**	**0.3154**	**0.5015**	**3,283.3653**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					0.0189	0.0000	0.0189	2.8600e-003	0.0000	2.8600e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0189**	**0.0000**	**0.0189**	**2.8600e-003**	**0.0000**	**2.8600e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1019	5.8250	1.9968	0.0274	0.7943	0.0375	0.8318	0.2192	0.0359	0.2550		3,126.0457	3,126.0457	0.3154	0.5015	3,283.3653
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	0.0000	0.0000	0.0000	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	**0.1019**	**5.8250**	**1.9968**	**0.0274**	**0.7943**	**0.0375**	**0.8318**	**0.2192**	**0.0359**	**0.2550**		**3,126.0457**	**3,126.0457**	**0.3154**	**0.5015**	**3,283.3653**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Retail and Residential Building A 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	0.7168	6.6706	6.0084	0.0127		0.2793	0.2793		0.2608	0.2608		1,194.5600	1,194.5600	0.3500		1,203.3096
Total	**0.7168**	**6.6706**	**6.0084**	**0.0127**		**0.2793**	**0.2793**		**0.2608**	**0.2608**		**1,194.5600**	**1,194.5600**	**0.3500**		**1,203.3096**

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	0.1131	3.9252	1.6274	0.0201	0.7162	0.0201	0.7363	0.2061	0.0193	0.2254		2,211.4331	2,211.4331	0.1315	0.3173	2,309.2793
Worker	0.8082	0.5170	8.7644	0.0271	3.2080	0.0164	3.2243	0.8508	0.0151	0.8658		2,736.1480	2,736.1480	0.0601	0.0591	2,755.2662
Total	**0.9213**	**4.4422**	**10.3918**	**0.0472**	**3.9241**	**0.0365**	**3.9606**	**1.0569**	**0.0343**	**1.0912**		**4,947.5811**	**4,947.5811**	**0.1916**	**0.3764**	**5,064.5455**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7168	6.6706	6.0084	0.0127		0.2793	0.2793		0.2608	0.2608	0.0000	1,194.5600	1,194.5600	0.3500		1,203.3096
Total	**0.7168**	**6.6706**	**6.0084**	**0.0127**		**0.2793**	**0.2793**		**0.2608**	**0.2608**	**0.0000**	**1,194.5600**	**1,194.5600**	**0.3500**		**1,203.3096**

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	0.1131	3.9252	1.6274	0.0201	0.6702	0.0201	0.6903	0.1948	0.0193	0.2141		2,211.4331	2,211.4331	0.1315	0.3173	2,309.2793
Worker	0.8082	0.5170	8.7644	0.0271	2.9570	0.0164	2.9733	0.7892	0.0151	0.8042		2,736.1480	2,736.1480	0.0601	0.0591	2,755.2662
Total	**0.9213**	**4.4422**	**10.3918**	**0.0472**	**3.6272**	**0.0365**	**3.6636**	**0.9840**	**0.0343**	**1.0183**		**4,947.5811**	**4,947.5811**	**0.1916**	**0.3764**	**5,064.5455**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Retail and Residential Building A Building Construction - 2024

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	0.7005	6.3874	5.8937	0.0127		0.2619	0.2619		0.2448	0.2448		1,194.4011	1,194.4011	0.3499		1,203.1493
Total	**0.7005**	**6.3874**	**5.8937**	**0.0127**		**0.2619**	**0.2619**		**0.2448**	**0.2448**		**1,194.4011**	**1,194.4011**	**0.3499**		**1,203.1493**

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	0.1114	3.9136	1.6153	0.0198	0.7161	0.0211	0.7372	0.2061	0.0202	0.2263		2,177.1273	2,177.1273	0.1329	0.3137	2,273.9358
Worker	0.7595	0.4643	8.1554	0.0262	3.2080	0.0155	3.2235	0.8508	0.0143	0.8651		2,649.2537	2,649.2537	0.0545	0.0553	2,667.0907
Total	**0.8709**	**4.3779**	**9.7707**	**0.0460**	**3.9241**	**0.0366**	**3.9607**	**1.0569**	**0.0345**	**1.0913**		**4,826.3810**	**4,826.3810**	**0.1874**	**0.3690**	**4,941.0265**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7005	6.3874	5.8937	0.0127		0.2619	0.2619		0.2448	0.2448	0.0000	1,194.4011	1,194.4011	0.3499		1,203.1493
Total	**0.7005**	**6.3874**	**5.8937**	**0.0127**		**0.2619**	**0.2619**		**0.2448**	**0.2448**	**0.0000**	**1,194.4011**	**1,194.4011**	**0.3499**		**1,203.1493**

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	0.1114	3.9136	1.6153	0.0198	0.6702	0.0211	0.6912	0.1948	0.0202	0.2150		2,177.1273	2,177.1273	0.1329	0.3137	2,273.9358
Worker	0.7595	0.4643	8.1554	0.0262	2.9570	0.0155	2.9725	0.7892	0.0143	0.8035		2,649.2537	2,649.2537	0.0545	0.0553	2,667.0907
Total	**0.8709**	**4.3779**	**9.7707**	**0.0460**	**3.6271**	**0.0366**	**3.6637**	**0.9840**	**0.0345**	**1.0184**		**4,826.3810**	**4,826.3810**	**0.1874**	**0.3690**	**4,941.0265**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Retail and Residential Building A Building Construction - 2025

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.1098	3.8943	1.6088	0.0194	0.7161	0.0212	0.7373	0.2061	0.0203	0.2264		2,136.3693	2,136.3693	0.1346	0.3091	2,231.8581
Worker	0.7168	0.4205	7.6555	0.0253	3.2080	0.0148	3.2228	0.8508	0.0137	0.8644		2,559.0487	2,559.0487	0.0495	0.0520	2,575.7847
Total	**0.8266**	**4.3149**	**9.2643**	**0.0447**	**3.9241**	**0.0360**	**3.9601**	**1.0569**	**0.0339**	**1.0908**		**4,695.4179**	**4,695.4179**	**0.1841**	**0.3612**	**4,807.6429**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.1098	3.8943	1.6088	0.0194	0.6701	0.0212	0.6913	0.1948	0.0203	0.2151		2,136.3693	2,136.3693	0.1346	0.3091	2,231.8581
Worker	0.7168	0.4205	7.6555	0.0253	2.9570	0.0148	2.9718	0.7892	0.0137	0.8028		2,559.0487	2,559.0487	0.0495	0.0520	2,575.7847
Total	**0.8266**	**4.3149**	**9.2643**	**0.0447**	**3.6271**	**0.0360**	**3.6632**	**0.9840**	**0.0339**	**1.0179**		**4,695.4179**	**4,695.4179**	**0.1841**	**0.3612**	**4,807.6429**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Retail 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	50.3127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3833	2.6060	3.6222	5.9400e-003		0.1416	0.1416		0.1416	0.1416		562.8961	562.8961	0.0337		563.7380
Total	**50.6961**	**2.6060**	**3.6222**	**5.9400e-003**		**0.1416**	**0.1416**		**0.1416**	**0.1416**		**562.8961**	**562.8961**	**0.0337**		**563.7380**

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	0.0591	0.0378	0.6413	1.9800e-003	0.2347	1.2000e-003	0.2359	0.0623	1.1000e-003	0.0634		200.2060	200.2060	4.4000e-003	4.3300e-003	201.6048
Total	**0.0591**	**0.0378**	**0.6413**	**1.9800e-003**	**0.2347**	**1.2000e-003**	**0.2359**	**0.0623**	**1.1000e-003**	**0.0634**		**200.2060**	**200.2060**	**4.4000e-003**	**4.3300e-003**	**201.6048**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	50.3127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3833	2.6060	3.6222	5.9400e-003		0.1416	0.1416		0.1416	0.1416	0.0000	562.8961	562.8961	0.0337		563.7380
Total	**50.6961**	**2.6060**	**3.6222**	**5.9400e-003**		**0.1416**	**0.1416**		**0.1416**	**0.1416**	**0.0000**	**562.8961**	**562.8961**	**0.0337**		**563.7380**

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	0.0591	0.0378	0.6413	1.9800e-003	0.2164	1.2000e-003	0.2176	0.0577	1.1000e-003	0.0588		200.2060	200.2060	4.4000e-003	4.3300e-003	201.6048
Total	**0.0591**	**0.0378**	**0.6413**	**1.9800e-003**	**0.2164**	**1.2000e-003**	**0.2176**	**0.0577**	**1.1000e-003**	**0.0588**		**200.2060**	**200.2060**	**4.4000e-003**	**4.3300e-003**	**201.6048**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Finishing and Landscaping - 2024

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	0.4513	5.2891	2.1082	8.4200e-003		0.1715	0.1715		0.1578	0.1578		815.1913	815.1913	0.2637		821.7826
Total	**0.4513**	**5.2891**	**2.1082**	**8.4200e-003**		**0.1715**	**0.1715**		**0.1578**	**0.1578**		**815.1913**	**815.1913**	**0.2637**		**821.7826**

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	7.9400e-003	4.8500e-003	0.0853	2.7000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		27.6926	27.6926	5.7000e-004	5.8000e-004	27.8790
Total	**7.9400e-003**	**4.8500e-003**	**0.0853**	**2.7000e-004**	**0.0335**	**1.6000e-004**	**0.0337**	**8.8900e-003**	**1.5000e-004**	**9.0400e-003**		**27.6926**	**27.6926**	**5.7000e-004**	**5.8000e-004**	**27.8790**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4513	5.2891	2.1082	8.4200e-003		0.1715	0.1715		0.1578	0.1578	0.0000	815.1913	815.1913	0.2637		821.7826
Total	**0.4513**	**5.2891**	**2.1082**	**8.4200e-003**		**0.1715**	**0.1715**		**0.1578**	**0.1578**	**0.0000**	**815.1913**	**815.1913**	**0.2637**		**821.7826**

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	7.9400e-003	4.8500e-003	0.0853	2.7000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		27.6926	27.6926	5.7000e-004	5.8000e-004	27.8790
Total	**7.9400e-003**	**4.8500e-003**	**0.0853**	**2.7000e-004**	**0.0309**	**1.6000e-004**	**0.0311**	**8.2500e-003**	**1.5000e-004**	**8.4000e-003**		**27.6926**	**27.6926**	**5.7000e-004**	**5.8000e-004**	**27.8790**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Paving - 2024

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	0.4666	4.9575	5.6292	0.0128		0.2106	0.2106		0.1938	0.1938		1,234.0097	1,234.0097	0.3991		1,243.9873
Paving	3.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3390**	**4.9575**	**5.6292**	**0.0128**		**0.2106**	**0.2106**		**0.1938**	**0.1938**		**1,234.0097**	**1,234.0097**	**0.3991**		**1,243.9873**

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	0.0212	0.0129	0.2273	7.3000e-004	0.0894	4.3000e-004	0.0899	0.0237	4.0000e-004	0.0241		73.8468	73.8468	1.5200e-003	1.5400e-003	74.3440
Total	**0.0212**	**0.0129**	**0.2273**	**7.3000e-004**	**0.0894**	**4.3000e-004**	**0.0899**	**0.0237**	**4.0000e-004**	**0.0241**		**73.8468**	**73.8468**	**1.5200e-003**	**1.5400e-003**	**74.3440**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4666	4.9575	5.6292	0.0128		0.2106	0.2106		0.1938	0.1938	0.0000	1,234.0097	1,234.0097	0.3991		1,243.9873
Paving	3.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3390**	**4.9575**	**5.6292**	**0.0128**		**0.2106**	**0.2106**		**0.1938**	**0.1938**	**0.0000**	**1,234.0097**	**1,234.0097**	**0.3991**		**1,243.9873**

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	0.0212	0.0129	0.2273	7.3000e-004	0.0824	4.3000e-004	0.0829	0.0220	4.0000e-004	0.0224		73.8468	73.8468	1.5200e-003	1.5400e-003	74.3440
Total	**0.0212**	**0.0129**	**0.2273**	**7.3000e-004**	**0.0824**	**4.3000e-004**	**0.0829**	**0.0220**	**4.0000e-004**	**0.0224**		**73.8468**	**73.8468**	**1.5200e-003**	**1.5400e-003**	**74.3440**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Residential Architectural Coating - 2025

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	41.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**41.7249**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.0525	0.0308	0.5602	1.8500e-003	0.2347	1.0900e-003	0.2358	0.0623	1.0000e-003	0.0633		187.2475	187.2475	3.6200e-003	3.8100e-003	188.4721
Total	**0.0525**	**0.0308**	**0.5602**	**1.8500e-003**	**0.2347**	**1.0900e-003**	**0.2358**	**0.0623**	**1.0000e-003**	**0.0633**		**187.2475**	**187.2475**	**3.6200e-003**	**3.8100e-003**	**188.4721**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	41.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**41.7249**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.0525	0.0308	0.5602	1.8500e-003	0.2164	1.0900e-003	0.2175	0.0577	1.0000e-003	0.0587		187.2475	187.2475	3.6200e-003	3.8100e-003	188.4721
Total	**0.0525**	**0.0308**	**0.5602**	**1.8500e-003**	**0.2164**	**1.0900e-003**	**0.2175**	**0.0577**	**1.0000e-003**	**0.0587**		**187.2475**	**187.2475**	**3.6200e-003**	**3.8100e-003**	**188.4721**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Brea Mall Mixed-Use Project (Option 1) Construction Run

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	476.80	1000sqft	5.47	476,800.00	0
Other Asphalt Surfaces	192.00	1000sqft	4.41	192,000.00	0
Other Non-Asphalt Surfaces	124.72	1000sqft	2.86	124,717.00	0
Parking Lot	129.81	1000sqft	2.98	129,809.00	0
Health Club	128.00	1000sqft	0.98	128,000.00	0
Apartments Mid Rise	390.00	Dwelling Unit	0.00	436,500.00	1115
Regional Shopping Center	119.42	1000sqft	0.80	119,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - structures are comprised of multiple stories

Construction Phase - based on information provided by applicant. see project description for construction durations

Off-road Equipment - based on information provided by the applicant

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Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - no additional equipment required for asphalt demolition debris haul

Off-road Equipment - based on information provided by applicant

Off-road Equipment - no additional equipment required for building demolition haul

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - no additional equipment required for site preparation soil haul

Off-road Equipment - no additional equipment required for site preparation soil haul

Trips and VMT - assumes 4 vt/water truck/day. Assumes that 2 dump trucks will be used for asphalt demo haul. Building Construction and Arch Coat are calculated based on CalEEMod Appendix A rates

Demolition -

Grading -

Architectural Coating - see assumptions file for calculations. Parking only accounts for parking area and driveways

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and SCAQMD Rule 1186

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	123,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	371,123.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,400.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,400.00	47,917.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	294,638.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	883,913.00	0.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	50.00

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	300.00	695.00
tblConstructionPhase	NumDays	20.00	88.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	98.00
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	NumDays	10.00	33.00
tblGrading	MaterialExported	0.00	25,416.00
tblGrading	MaterialExported	0.00	12,904.00
tblLandUse	LandUseSquareFeet	124,720.00	124,717.00
tblLandUse	LandUseSquareFeet	129,810.00	129,809.00
tblLandUse	LandUseSquareFeet	390,000.00	436,500.00
tblLandUse	LandUseSquareFeet	119,420.00	119,415.00
tblLandUse	LotAcreage	10.95	5.47
tblLandUse	LotAcreage	2.94	0.98
tblLandUse	LotAcreage	10.26	0.00
tblLandUse	LotAcreage	2.74	0.80
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	158.00	131.00
tblOffRoadEquipment	HorsePower	130.00	188.00
tblOffRoadEquipment	HorsePower	80.00	86.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	85.00	350.00
tblOffRoadEquipment	HorsePower	158.00	101.00
tblOffRoadEquipment	HorsePower	187.00	238.00

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	367.00	365.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	HaulingTripNumber	158.00	160.00
tblTripsAndVMT	HaulingTripNumber	112.00	163.00
tblTripsAndVMT	HaulingTripNumber	3,177.00	3,178.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	234.00	112.00
tblTripsAndVMT	WorkerTripNumber	152.00	21.00
tblTripsAndVMT	WorkerTripNumber	761.00	287.00
tblTripsAndVMT	WorkerTripNumber	152.00	21.00

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

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	9.2804	109.5393	67.3886	0.1941	11.9187	3.8738	15.7925	1.7867	3.5661	5.0625	0.0000	19,298.1933	19,298.1933	5.3669	0.6100	19,596.1826
2023	52.4699	110.3684	80.9415	0.2508	15.8426	3.8624	19.7050	2.5532	3.5593	6.1126	0.0000	25,117.5422	25,117.5422	5.9080	0.9019	25,533.9978
2024	6.4629	21.2517	23.1944	0.0796	4.0471	0.6814	4.7285	1.0895	0.6315	1.7209	0.0000	8,043.5030	8,043.5030	1.2033	0.3755	8,185.4755
2025	43.3469	12.7786	18.6797	0.0639	4.1588	0.3769	4.5358	1.1191	0.3596	1.4787	0.0000	6,512.5780	6,512.5780	0.5695	0.3692	6,636.8319
Maximum	**52.4699**	**110.3684**	**80.9415**	**0.2508**	**15.8426**	**3.8738**	**19.7050**	**2.5532**	**3.5661**	**6.1126**	**0.0000**	**25,117.5422**	**25,117.5422**	**5.9080**	**0.9019**	**25,533.9978**

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	9.2804	109.5393	67.3886	0.1941	5.7316	3.8738	9.6054	0.9222	3.5661	4.3809	0.0000	19,298.1933	19,298.1933	5.3669	0.6100	19,596.1826
2023	52.4699	110.3684	80.9415	0.2508	9.3585	3.8624	13.2209	1.7987	3.5593	5.3581	0.0000	25,117.5422	25,117.5422	5.9080	0.9019	25,533.9978
2024	6.4629	21.2517	23.1944	0.0796	3.7405	0.6814	4.4218	1.0142	0.6315	1.6457	0.0000	8,043.5030	8,043.5030	1.2033	0.3755	8,185.4755
2025	43.3469	12.7786	18.6797	0.0639	3.8435	0.3769	4.2204	1.0417	0.3596	1.4013	0.0000	6,512.5780	6,512.5780	0.5695	0.3692	6,636.8319
Maximum	**52.4699**	**110.3684**	**80.9415**	**0.2508**	**9.3585**	**3.8738**	**13.2209**	**1.7987**	**3.5661**	**5.3581**	**0.0000**	**25,117.5422**	**25,117.5422**	**5.9080**	**0.9019**	**25,533.9978**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	36.96	0.00	29.70	27.05	0.00	11.05	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	Building Demolition	Demolition	6/1/2022	9/30/2022	5	88	
2	Building Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	
3	Asphalt Demolition	Demolition	7/1/2022	8/15/2022	5	32	
4	Asphalt Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	
5	Site Preparation	Site Preparation	10/1/2022	2/15/2023	5	98	
6	Site Preparation Soil Haul 2022	Site Preparation	10/1/2022	12/31/2022	5	65	
7	Site Preparation Soil Haul 2023	Site Preparation	1/1/2023	2/15/2023	5	33	
8	Retail and Residential Building A Building Construction	Building Construction	2/1/2023	9/30/2025	5	695	
9	Retail Architectural Coating	Architectural Coating	10/15/2023	12/23/2023	5	50	
10	Finishing and Landscaping	Trenching	4/1/2024	4/30/2024	5	22	
11	Paving	Paving	4/1/2024	4/7/2024	5	5	
12	Residential Architectural Coating	Architectural Coating	7/1/2025	9/30/2025	5	66	

Acres of Grading (Site Preparation Phase): 980

Acres of Grading (Grading Phase): 0

Acres of Paving: 15.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 371,123; Non-Residential Outdoor: 123,708; Striped Parking Area: 47,917

OffRoad Equipment

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition	Crushing/Proc. Equipment	1	8.00	350	0.78
Building Demolition	Excavators	2	8.00	131	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	0	8.00	158	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Excavators	1	8.00	101	0.38
Site Preparation	Graders	4	8.00	238	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Scrapers	8	8.00	365	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation Soil Haul 2022	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2022	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation Soil Haul 2023	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2023	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Retail and Residential Building A Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73
Retail and Residential Building A Building Construction	Cranes	1	8.00	300	0.29

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Retail and Residential Building A Building Construction	Forklifts	0	8.00	89	0.20
Retail and Residential Building A Building Construction	Generator Sets	0	8.00	84	0.74
Retail and Residential Building A Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Retail and Residential Building A Building Construction	Welders	0	8.00	46	0.45
Retail Architectural Coating	Air Compressors	2	6.00	78	0.48
Residential Architectural Coating	Air Compressors	2	6.00	78	0.48
Paving	Pavers	1	8.00	188	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	86	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Finishing and Landscaping	Graders	1	8.00	238	0.41

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
Building Demolition	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	0	0.00	0.00	160.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	0	0.00	0.00	163.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	14	35.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2022	0	0.00	0.00	3,178.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2023	0	0.00	0.00	1,613.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail and Residential Building A Building	3	287.00	112.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail Architectural Coating	2	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Architectural Coating	2	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing and Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building 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					
Off-Road	1.7282	11.3102	12.7732	0.0358		0.4637	0.4637		0.4451	0.4451		3,866.6787	3,866.6787	0.4763		3,878.5869
Total	**1.7282**	**11.3102**	**12.7732**	**0.0358**		**0.4637**	**0.4637**		**0.4451**	**0.4451**		**3,866.6787**	**3,866.6787**	**0.4763**		**3,878.5869**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6800e-003	9.0400e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	0.0328	0.0222	0.3058	9.3000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		93.7501	93.7501	2.3700e-003	2.3600e-003	94.5111
Total	**0.0393**	**0.2087**	**0.3718**	**1.6900e-003**	**0.1374**	**2.3500e-003**	**0.1397**	**0.0370**	**2.2300e-003**	**0.0392**		**176.7192**	**176.7192**	**7.1100e-003**	**0.0143**	**181.1446**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.7282	11.3102	12.7732	0.0358		0.4637	0.4637		0.4451	0.4451	0.0000	3,866.6787	3,866.6787	0.4763		3,878.5869
Total	**1.7282**	**11.3102**	**12.7732**	**0.0358**		**0.4637**	**0.4637**		**0.4451**	**0.4451**	**0.0000**	**3,866.6787**	**3,866.6787**	**0.4763**		**3,878.5869**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6800e-003	8.6300e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	0.0328	0.0222	0.3058	9.3000e-004	0.1030	6.0000e-004	0.1036	0.0275	5.5000e-004	0.0281		93.7501	93.7501	2.3700e-003	2.3600e-003	94.5111
Total	**0.0393**	**0.2087**	**0.3718**	**1.6900e-003**	**0.1270**	**2.3500e-003**	**0.1293**	**0.0345**	**2.2300e-003**	**0.0367**		**176.7192**	**176.7192**	**7.1100e-003**	**0.0143**	**181.1446**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Building Demolition Debris Haul - 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					5.7064	0.0000	5.7064	0.8640	0.0000	0.8640			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.7064**	**0.0000**	**5.7064**	**0.8640**	**0.0000**	**0.8640**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1054	4.3149	1.1833	0.0159	0.4651	0.0315	0.4966	0.1274	0.0301	0.1575		1,803.3521	1,803.3521	0.1717	0.2888	1,893.7185
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	0.0000	0.0000	0.0000	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	**0.1054**	**4.3149**	**1.1833**	**0.0159**	**0.4651**	**0.0315**	**0.4966**	**0.1274**	**0.0301**	**0.1575**		**1,803.3521**	**1,803.3521**	**0.1717**	**0.2888**	**1,893.7185**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4395	0.0000	2.4395	0.3694	0.0000	0.3694			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.4395**	**0.0000**	**2.4395**	**0.3694**	**0.0000**	**0.3694**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1054	4.3149	1.1833	0.0159	0.4334	0.0315	0.4648	0.1196	0.0301	0.1497		1,803.3521	1,803.3521	0.1717	0.2888	1,893.7185
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	0.0000	0.0000	0.0000	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	**0.1054**	**4.3149**	**1.1833**	**0.0159**	**0.4334**	**0.0315**	**0.4648**	**0.1196**	**0.0301**	**0.1497**		**1,803.3521**	**1,803.3521**	**0.1717**	**0.2888**	**1,893.7185**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Asphalt 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					
Off-Road	0.1647	1.6756	2.2379	3.1100e-003		0.0901	0.0901		0.0829	0.0829		301.2390	301.2390	0.0974		303.6746
Total	**0.1647**	**1.6756**	**2.2379**	**3.1100e-003**		**0.0901**	**0.0901**		**0.0829**	**0.0829**		**301.2390**	**301.2390**	**0.0974**		**303.6746**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6800e-003	9.0400e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	9.8300e-003	6.6600e-003	0.0917	2.8000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		28.1250	28.1250	7.1000e-004	7.1000e-004	28.3533
Total	**0.0164**	**0.1932**	**0.1578**	**1.0400e-003**	**0.0591**	**1.9300e-003**	**0.0610**	**0.0163**	**1.8500e-003**	**0.0181**		**111.0941**	**111.0941**	**5.4500e-003**	**0.0126**	**114.9868**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1647	1.6756	2.2379	3.1100e-003		0.0901	0.0901		0.0829	0.0829	0.0000	301.2390	301.2390	0.0974		303.6746
Total	**0.1647**	**1.6756**	**2.2379**	**3.1100e-003**		**0.0901**	**0.0901**		**0.0829**	**0.0829**	**0.0000**	**301.2390**	**301.2390**	**0.0974**		**303.6746**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6800e-003	8.6300e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	9.8300e-003	6.6600e-003	0.0917	2.8000e-004	0.0309	1.8000e-004	0.0311	8.2500e-003	1.7000e-004	8.4200e-003		28.1250	28.1250	7.1000e-004	7.1000e-004	28.3533
Total	**0.0164**	**0.1932**	**0.1578**	**1.0400e-003**	**0.0549**	**1.9300e-003**	**0.0568**	**0.0152**	**1.8500e-003**	**0.0171**		**111.0941**	**111.0941**	**5.4500e-003**	**0.0126**	**114.9868**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Asphalt Demolition Debris Haul - 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					4.0444	0.0000	4.0444	0.6124	0.0000	0.6124			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**4.0444**	**0.0000**	**4.0444**	**0.6124**	**0.0000**	**0.6124**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1074	4.3958	1.2055	0.0162	0.4738	0.0321	0.5059	0.1298	0.0307	0.1604		1,837.1650	1,837.1650	0.1749	0.2943	1,929.2257
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	0.0000	0.0000	0.0000	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	**0.1074**	**4.3958**	**1.2055**	**0.0162**	**0.4738**	**0.0321**	**0.5059**	**0.1298**	**0.0307**	**0.1604**		**1,837.1650**	**1,837.1650**	**0.1749**	**0.2943**	**1,929.2257**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7290	0.0000	1.7290	0.2618	0.0000	0.2618			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.7290**	**0.0000**	**1.7290**	**0.2618**	**0.0000**	**0.2618**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1074	4.3958	1.2055	0.0162	0.4415	0.0321	0.4736	0.1218	0.0307	0.1525		1,837.1650	1,837.1650	0.1749	0.2943	1,929.2257
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	0.0000	0.0000	0.0000	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	**0.1074**	**4.3958**	**1.2055**	**0.0162**	**0.4415**	**0.0321**	**0.4736**	**0.1218**	**0.0307**	**0.1525**		**1,837.1650**	**1,837.1650**	**0.1749**	**0.2943**	**1,929.2257**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 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					10.6050	0.0000	10.6050	1.1451	0.0000	1.1451			0.0000			0.0000
Off-Road	8.9659	101.3640	64.0828	0.1609		3.8122	3.8122		3.5072	3.5072		15,580.7221	15,580.7221	5.0391		15,706.7002
Total	**8.9659**	**101.3640**	**64.0828**	**0.1609**	**10.6050**	**3.8122**	**14.4172**	**1.1451**	**3.5072**	**4.6523**		**15,580.7221**	**15,580.7221**	**5.0391**		**15,706.7002**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6800e-003	9.0400e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	0.1147	0.0777	1.0704	3.2500e-003	0.3912	2.1100e-003	0.3933	0.1038	1.9400e-003	0.1057		328.1253	328.1253	8.2900e-003	8.2400e-003	330.7889
Total	**0.1212**	**0.2642**	**1.1364**	**4.0100e-003**	**0.4168**	**3.8600e-003**	**0.4207**	**0.1111**	**3.6200e-003**	**0.1147**		**411.0944**	**411.0944**	**0.0130**	**0.0201**	**417.4223**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					4.5336	0.0000	4.5336	0.4895	0.0000	0.4895			0.0000			0.0000
Off-Road	8.9659	101.3640	64.0828	0.1609		3.8122	3.8122		3.5072	3.5072	0.0000	15,580.7221	15,580.7221	5.0391		15,706.7002
Total	**8.9659**	**101.3640**	**64.0828**	**0.1609**	**4.5336**	**3.8122**	**8.3459**	**0.4895**	**3.5072**	**3.9968**	**0.0000**	**15,580.7221**	**15,580.7221**	**5.0391**		**15,706.7002**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6800e-003	8.6300e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	0.1147	0.0777	1.0704	3.2500e-003	0.3606	2.1100e-003	0.3627	0.0962	1.9400e-003	0.0982		328.1253	328.1253	8.2900e-003	8.2400e-003	330.7889
Total	**0.1212**	**0.2642**	**1.1364**	**4.0100e-003**	**0.3846**	**3.8600e-003**	**0.3884**	**0.1032**	**3.6200e-003**	**0.1068**		**411.0944**	**411.0944**	**0.0130**	**0.0201**	**417.4223**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Site Preparation - 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					
Fugitive Dust					10.6050	0.0000	10.6050	1.1451	0.0000	1.1451			0.0000			0.0000
Off-Road	8.5191	92.7414	62.0147	0.1609		3.5061	3.5061		3.2256	3.2256		15,577.2716	15,577.2716	5.0380		15,703.2217
Total	**8.5191**	**92.7414**	**62.0147**	**0.1609**	**10.6050**	**3.5061**	**14.1111**	**1.1451**	**3.2256**	**4.3707**		**15,577.2716**	**15,577.2716**	**5.0380**		**15,703.2217**

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	3.9000e-003	0.1464	0.0600	7.2000e-004	0.0256	7.2000e-004	0.0263	7.3600e-003	6.9000e-004	8.0500e-003		79.0959	79.0959	4.6800e-003	0.0114	82.5978
Worker	0.1077	0.0692	0.9957	3.1400e-003	0.3912	1.9900e-003	0.3932	0.1038	1.8400e-003	0.1056		317.7237	317.7237	7.5100e-003	7.6700e-003	320.1969
Total	**0.1116**	**0.2157**	**1.0557**	**3.8600e-003**	**0.4168**	**2.7100e-003**	**0.4195**	**0.1111**	**2.5300e-003**	**0.1136**		**396.8196**	**396.8196**	**0.0122**	**0.0190**	**402.7947**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					4.5336	0.0000	4.5336	0.4895	0.0000	0.4895			0.0000			0.0000
Off-Road	8.5191	92.7414	62.0147	0.1609		3.5061	3.5061		3.2256	3.2256	0.0000	15,577.2716	15,577.2716	5.0380		15,703.2217
Total	**8.5191**	**92.7414**	**62.0147**	**0.1609**	**4.5336**	**3.5061**	**8.0398**	**0.4895**	**3.2256**	**3.7152**	**0.0000**	**15,577.2716**	**15,577.2716**	**5.0380**		**15,703.2217**

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	3.9000e-003	0.1464	0.0600	7.2000e-004	0.0239	7.2000e-004	0.0247	6.9600e-003	6.9000e-004	7.6500e-003		79.0959	79.0959	4.6800e-003	0.0114	82.5978
Worker	0.1077	0.0692	0.9957	3.1400e-003	0.3606	1.9900e-003	0.3626	0.0962	1.8400e-003	0.0981		317.7237	317.7237	7.5100e-003	7.6700e-003	320.1969
Total	**0.1116**	**0.2157**	**1.0557**	**3.8600e-003**	**0.3845**	**2.7100e-003**	**0.3873**	**0.1032**	**2.5300e-003**	**0.1057**		**396.8196**	**396.8196**	**0.0122**	**0.0190**	**402.7947**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Site Preparation Soil Haul 2022 - 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					0.0442	0.0000	0.0442	6.7000e-003	0.0000	6.7000e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0442**	**0.0000**	**0.0442**	**6.7000e-003**	**0.0000**	**6.7000e-003**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1932	7.9111	2.1695	0.0292	0.8527	0.0577	0.9104	0.2335	0.0552	0.2887		3,306.3768	3,306.3768	0.3148	0.5296	3,472.0601
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	0.0000	0.0000	0.0000	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	**0.1932**	**7.9111**	**2.1695**	**0.0292**	**0.8527**	**0.0577**	**0.9104**	**0.2335**	**0.0552**	**0.2887**		**3,306.3768**	**3,306.3768**	**0.3148**	**0.5296**	**3,472.0601**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					0.0189	0.0000	0.0189	2.8600e-003	0.0000	2.8600e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0189**	**0.0000**	**0.0189**	**2.8600e-003**	**0.0000**	**2.8600e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1932	7.9111	2.1695	0.0292	0.7945	0.0577	0.8523	0.2192	0.0552	0.2745		3,306.3768	3,306.3768	0.3148	0.5296	3,472.0601
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	0.0000	0.0000	0.0000	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	**0.1932**	**7.9111**	**2.1695**	**0.0292**	**0.7945**	**0.0577**	**0.8523**	**0.2192**	**0.0552**	**0.2745**		**3,306.3768**	**3,306.3768**	**0.3148**	**0.5296**	**3,472.0601**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Site Preparation Soil Haul 2023 - 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					
Fugitive Dust					0.0442	0.0000	0.0442	6.7000e-003	0.0000	6.7000e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0442**	**0.0000**	**0.0442**	**6.7000e-003**	**0.0000**	**6.7000e-003**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.0959	6.0728	2.0187	0.0275	0.8524	0.0376	0.8900	0.2334	0.0360	0.2694		3,128.8713	3,128.8713	0.3150	0.5019	3,286.3195
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	0.0000	0.0000	0.0000	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	**0.0959**	**6.0728**	**2.0187**	**0.0275**	**0.8524**	**0.0376**	**0.8900**	**0.2334**	**0.0360**	**0.2694**		**3,128.8713**	**3,128.8713**	**0.3150**	**0.5019**	**3,286.3195**

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Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					0.0189	0.0000	0.0189	2.8600e-003	0.0000	2.8600e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0189**	**0.0000**	**0.0189**	**2.8600e-003**	**0.0000**	**2.8600e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0959	6.0728	2.0187	0.0275	0.7943	0.0376	0.8319	0.2192	0.0360	0.2551		3,128.8713	3,128.8713	0.3150	0.5019	3,286.3195
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	0.0000	0.0000	0.0000	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	**0.0959**	**6.0728**	**2.0187**	**0.0275**	**0.7943**	**0.0376**	**0.8319**	**0.2192**	**0.0360**	**0.2551**		**3,128.8713**	**3,128.8713**	**0.3150**	**0.5019**	**3,286.3195**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Retail and Residential Building A 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	0.7168	6.6706	6.0084	0.0127		0.2793	0.2793		0.2608	0.2608		1,194.5600	1,194.5600	0.3500		1,203.3096
Total	**0.7168**	**6.6706**	**6.0084**	**0.0127**		**0.2793**	**0.2793**		**0.2608**	**0.2608**		**1,194.5600**	**1,194.5600**	**0.3500**		**1,203.3096**

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	0.1092	4.1002	1.6794	0.0202	0.7162	0.0203	0.7364	0.2061	0.0194	0.2255		2,214.6856	2,214.6856	0.1312	0.3180	2,312.7380
Worker	0.8832	0.5677	8.1646	0.0258	3.2080	0.0164	3.2243	0.8508	0.0151	0.8658		2,605.3341	2,605.3341	0.0616	0.0629	2,625.6145
Total	**0.9924**	**4.6679**	**9.8440**	**0.0459**	**3.9241**	**0.0366**	**3.9608**	**1.0569**	**0.0344**	**1.0913**		**4,820.0197**	**4,820.0197**	**0.1928**	**0.3809**	**4,938.3524**

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Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7168	6.6706	6.0084	0.0127		0.2793	0.2793		0.2608	0.2608	0.0000	1,194.5600	1,194.5600	0.3500		1,203.3096
Total	**0.7168**	**6.6706**	**6.0084**	**0.0127**		**0.2793**	**0.2793**		**0.2608**	**0.2608**	**0.0000**	**1,194.5600**	**1,194.5600**	**0.3500**		**1,203.3096**

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	0.1092	4.1002	1.6794	0.0202	0.6702	0.0203	0.6904	0.1948	0.0194	0.2142		2,214.6856	2,214.6856	0.1312	0.3180	2,312.7380
Worker	0.8832	0.5677	8.1646	0.0258	2.9570	0.0164	2.9733	0.7892	0.0151	0.8042		2,605.3341	2,605.3341	0.0616	0.0629	2,625.6145
Total	**0.9924**	**4.6679**	**9.8440**	**0.0459**	**3.6272**	**0.0366**	**3.6638**	**0.9840**	**0.0344**	**1.0184**		**4,820.0197**	**4,820.0197**	**0.1928**	**0.3809**	**4,938.3524**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Retail and Residential Building A Building Construction - 2024

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	0.7005	6.3874	5.8937	0.0127		0.2619	0.2619		0.2448	0.2448		1,194.4011	1,194.4011	0.3499		1,203.1493
Total	**0.7005**	**6.3874**	**5.8937**	**0.0127**		**0.2619**	**0.2619**		**0.2448**	**0.2448**		**1,194.4011**	**1,194.4011**	**0.3499**		**1,203.1493**

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	0.1075	4.0885	1.6662	0.0198	0.7161	0.0212	0.7373	0.2061	0.0203	0.2264		2,180.4084	2,180.4084	0.1325	0.3144	2,277.4187
Worker	0.8328	0.5097	7.6057	0.0250	3.2080	0.0155	3.2235	0.8508	0.0143	0.8651		2,522.7998	2,522.7998	0.0559	0.0588	2,541.7199
Total	**0.9402**	**4.5982**	**9.2718**	**0.0448**	**3.9241**	**0.0367**	**3.9609**	**1.0569**	**0.0346**	**1.0915**		**4,703.2082**	**4,703.2082**	**0.1884**	**0.3732**	**4,819.1386**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7005	6.3874	5.8937	0.0127		0.2619	0.2619		0.2448	0.2448	0.0000	1,194.4011	1,194.4011	0.3499		1,203.1493
Total	**0.7005**	**6.3874**	**5.8937**	**0.0127**		**0.2619**	**0.2619**		**0.2448**	**0.2448**	**0.0000**	**1,194.4011**	**1,194.4011**	**0.3499**		**1,203.1493**

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	0.1075	4.0885	1.6662	0.0198	0.6702	0.0212	0.6914	0.1948	0.0203	0.2151		2,180.4084	2,180.4084	0.1325	0.3144	2,277.4187
Worker	0.8328	0.5097	7.6057	0.0250	2.9570	0.0155	2.9725	0.7892	0.0143	0.8035		2,522.7998	2,522.7998	0.0559	0.0588	2,541.7199
Total	**0.9402**	**4.5982**	**9.2718**	**0.0448**	**3.6271**	**0.0367**	**3.6639**	**0.9840**	**0.0346**	**1.0186**		**4,703.2082**	**4,703.2082**	**0.1884**	**0.3732**	**4,819.1386**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Retail and Residential Building A Building Construction - 2025

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.1058	4.0688	1.6586	0.0194	0.7161	0.0213	0.7374	0.2061	0.0204	0.2265		2,139.6584	2,139.6584	0.1342	0.3098	2,235.3448
Worker	0.7884	0.4616	7.1442	0.0241	3.2080	0.0148	3.2228	0.8508	0.0137	0.8644		2,437.1572	2,437.1572	0.0509	0.0553	2,454.9088
Total	**0.8942**	**4.5304**	**8.8028**	**0.0435**	**3.9241**	**0.0362**	**3.9603**	**1.0569**	**0.0340**	**1.0909**		**4,576.8156**	**4,576.8156**	**0.1851**	**0.3651**	**4,690.2535**

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Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.1058	4.0688	1.6586	0.0194	0.6701	0.0213	0.6915	0.1948	0.0204	0.2152		2,139.6584	2,139.6584	0.1342	0.3098	2,235.3448
Worker	0.7884	0.4616	7.1442	0.0241	2.9570	0.0148	2.9718	0.7892	0.0137	0.8028		2,437.1572	2,437.1572	0.0509	0.0553	2,454.9088
Total	**0.8942**	**4.5304**	**8.8028**	**0.0435**	**3.6271**	**0.0362**	**3.6633**	**0.9840**	**0.0340**	**1.0180**		**4,576.8156**	**4,576.8156**	**0.1851**	**0.3651**	**4,690.2535**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Retail 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	50.3127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3833	2.6060	3.6222	5.9400e-003		0.1416	0.1416		0.1416	0.1416		562.8961	562.8961	0.0337		563.7380
Total	**50.6961**	**2.6060**	**3.6222**	**5.9400e-003**		**0.1416**	**0.1416**		**0.1416**	**0.1416**		**562.8961**	**562.8961**	**0.0337**		**563.7380**

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	0.0646	0.0415	0.5974	1.8900e-003	0.2347	1.2000e-003	0.2359	0.0623	1.1000e-003	0.0634		190.6342	190.6342	4.5100e-003	4.6000e-003	192.1181
Total	**0.0646**	**0.0415**	**0.5974**	**1.8900e-003**	**0.2347**	**1.2000e-003**	**0.2359**	**0.0623**	**1.1000e-003**	**0.0634**		**190.6342**	**190.6342**	**4.5100e-003**	**4.6000e-003**	**192.1181**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	50.3127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3833	2.6060	3.6222	5.9400e-003		0.1416	0.1416		0.1416	0.1416	0.0000	562.8961	562.8961	0.0337		563.7380
Total	**50.6961**	**2.6060**	**3.6222**	**5.9400e-003**		**0.1416**	**0.1416**		**0.1416**	**0.1416**	**0.0000**	**562.8961**	**562.8961**	**0.0337**		**563.7380**

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	0.0646	0.0415	0.5974	1.8900e-003	0.2164	1.2000e-003	0.2176	0.0577	1.1000e-003	0.0588		190.6342	190.6342	4.5100e-003	4.6000e-003	192.1181
Total	**0.0646**	**0.0415**	**0.5974**	**1.8900e-003**	**0.2164**	**1.2000e-003**	**0.2176**	**0.0577**	**1.1000e-003**	**0.0588**		**190.6342**	**190.6342**	**4.5100e-003**	**4.6000e-003**	**192.1181**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Finishing and Landscaping - 2024

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	0.4513	5.2891	2.1082	8.4200e-003		0.1715	0.1715		0.1578	0.1578		815.1913	815.1913	0.2637		821.7826
Total	**0.4513**	**5.2891**	**2.1082**	**8.4200e-003**		**0.1715**	**0.1715**		**0.1578**	**0.1578**		**815.1913**	**815.1913**	**0.2637**		**821.7826**

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	8.7000e-003	5.3300e-003	0.0795	2.6000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		26.3707	26.3707	5.8000e-004	6.1000e-004	26.5685
Total	**8.7000e-003**	**5.3300e-003**	**0.0795**	**2.6000e-004**	**0.0335**	**1.6000e-004**	**0.0337**	**8.8900e-003**	**1.5000e-004**	**9.0400e-003**		**26.3707**	**26.3707**	**5.8000e-004**	**6.1000e-004**	**26.5685**

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Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4513	5.2891	2.1082	8.4200e-003		0.1715	0.1715		0.1578	0.1578	0.0000	815.1913	815.1913	0.2637		821.7826
Total	**0.4513**	**5.2891**	**2.1082**	**8.4200e-003**		**0.1715**	**0.1715**		**0.1578**	**0.1578**	**0.0000**	**815.1913**	**815.1913**	**0.2637**		**821.7826**

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	8.7000e-003	5.3300e-003	0.0795	2.6000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		26.3707	26.3707	5.8000e-004	6.1000e-004	26.5685
Total	**8.7000e-003**	**5.3300e-003**	**0.0795**	**2.6000e-004**	**0.0309**	**1.6000e-004**	**0.0311**	**8.2500e-003**	**1.5000e-004**	**8.4000e-003**		**26.3707**	**26.3707**	**5.8000e-004**	**6.1000e-004**	**26.5685**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Paving - 2024

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	0.4666	4.9575	5.6292	0.0128		0.2106	0.2106		0.1938	0.1938		1,234.0097	1,234.0097	0.3991		1,243.9873
Paving	3.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3390**	**4.9575**	**5.6292**	**0.0128**		**0.2106**	**0.2106**		**0.1938**	**0.1938**		**1,234.0097**	**1,234.0097**	**0.3991**		**1,243.9873**

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	0.0232	0.0142	0.2120	7.0000e-004	0.0894	4.3000e-004	0.0899	0.0237	4.0000e-004	0.0241		70.3220	70.3220	1.5600e-003	1.6400e-003	70.8493
Total	**0.0232**	**0.0142**	**0.2120**	**7.0000e-004**	**0.0894**	**4.3000e-004**	**0.0899**	**0.0237**	**4.0000e-004**	**0.0241**		**70.3220**	**70.3220**	**1.5600e-003**	**1.6400e-003**	**70.8493**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4666	4.9575	5.6292	0.0128		0.2106	0.2106		0.1938	0.1938	0.0000	1,234.0097	1,234.0097	0.3991		1,243.9873
Paving	3.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3390**	**4.9575**	**5.6292**	**0.0128**		**0.2106**	**0.2106**		**0.1938**	**0.1938**	**0.0000**	**1,234.0097**	**1,234.0097**	**0.3991**		**1,243.9873**

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	0.0232	0.0142	0.2120	7.0000e-004	0.0824	4.3000e-004	0.0829	0.0220	4.0000e-004	0.0224		70.3220	70.3220	1.5600e-003	1.6400e-003	70.8493
Total	**0.0232**	**0.0142**	**0.2120**	**7.0000e-004**	**0.0824**	**4.3000e-004**	**0.0829**	**0.0220**	**4.0000e-004**	**0.0224**		**70.3220**	**70.3220**	**1.5600e-003**	**1.6400e-003**	**70.8493**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Residential Architectural Coating - 2025

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	41.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**41.7249**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.0577	0.0338	0.5228	1.7600e-003	0.2347	1.0900e-003	0.2358	0.0623	1.0000e-003	0.0633		178.3286	178.3286	3.7200e-003	4.0500e-003	179.6275
Total	**0.0577**	**0.0338**	**0.5228**	**1.7600e-003**	**0.2347**	**1.0900e-003**	**0.2358**	**0.0623**	**1.0000e-003**	**0.0633**		**178.3286**	**178.3286**	**3.7200e-003**	**4.0500e-003**	**179.6275**

Brea Mall Mixed-Use Project (Option 1) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	41.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**41.7249**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.0577	0.0338	0.5228	1.7600e-003	0.2164	1.0900e-003	0.2175	0.0577	1.0000e-003	0.0587		178.3286	178.3286	3.7200e-003	4.0500e-003	179.6275
Total	**0.0577**	**0.0338**	**0.5228**	**1.7600e-003**	**0.2164**	**1.0900e-003**	**0.2175**	**0.0577**	**1.0000e-003**	**0.0587**		**178.3286**	**178.3286**	**3.7200e-003**	**4.0500e-003**	**179.6275**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Brea Mall Mixed-Use Project (Option 2) Construction Run

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	398.50	1000sqft	5.47	398,500.00	0
Other Asphalt Surfaces	192.00	1000sqft	4.41	192,000.00	0
Other Non-Asphalt Surfaces	206.53	1000sqft	2.86	206,533.70	0
Parking Lot	129.81	1000sqft	2.98	129,809.00	0
Apartments Mid Rise	670.00	Dwelling Unit	0.00	750,300.00	1115
Regional Shopping Center	119.42	1000sqft	0.80	119,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - structures are comprised of multiple stories

Construction Phase - based on information provided by applicant. see project description for construction durations

Off-road Equipment - based on information provided by the applicant

Off-road Equipment - no additional equipment required for asphalt demolition debris haul

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - based on information provided by applicant

Off-road Equipment - no additional equipment required for building demolition haul

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - no additional equipment required for site preparation soil haul

Off-road Equipment - no additional equipment required for site preparation soil haul

Trips and VMT - assumes 4 vt/water truck/day. Assumes that 2 dump trucks will be used for asphalt demo haul. Building Construction and Arch Coat are calculated based on CalEEMod Appendix A rates

Demolition -

Grading -

Architectural Coating - see assumptions file for calculations. Parking only accounts for parking area and driveways

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and SCAQMD Rule 1186

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	59,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	59,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	179,123.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	179,123.00	0.00

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblArchitecturalCoating	ConstArea_Parking	55,611.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,611.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,611.00	43,219.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	211,815.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	294,638.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	635,445.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	883,913.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	59708	123708
tblAreaCoating	Area_Nonresidential_Interior	179123	371123
tblAreaCoating	Area_Parking	55611	55400
tblAreaCoating	Area_Residential_Exterior	506453	294638
tblAreaCoating	Area_Residential_Interior	1519358	883913
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	300.00	565.00
tblConstructionPhase	NumDays	300.00	695.00
tblConstructionPhase	NumDays	20.00	88.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	98.00

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	NumDays	10.00	33.00
tblFireplaces	NumberGas	569.50	331.50
tblFireplaces	NumberNoFireplace	67.00	39.00
tblFireplaces	NumberWood	33.50	19.50
tblGrading	MaterialExported	0.00	25,416.00
tblGrading	MaterialExported	0.00	12,904.00
tblLandUse	LandUseSquareFeet	206,530.00	206,533.70
tblLandUse	LandUseSquareFeet	129,810.00	129,809.00
tblLandUse	LandUseSquareFeet	670,000.00	750,300.00
tblLandUse	LandUseSquareFeet	119,420.00	119,415.00
tblLandUse	LotAcreage	9.15	5.47
tblLandUse	LotAcreage	4.74	2.86
tblLandUse	LotAcreage	17.63	0.00
tblLandUse	LotAcreage	2.74	0.80
tblLandUse	Population	1,916.00	1,115.00
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	158.00	131.00
tblOffRoadEquipment	HorsePower	130.00	188.00
tblOffRoadEquipment	HorsePower	80.00	86.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	85.00	350.00
tblOffRoadEquipment	HorsePower	158.00	101.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	HorsePower	367.00	365.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	308.20	179.40
tblTripsAndVMT	HaulingTripNumber	158.00	160.00
tblTripsAndVMT	HaulingTripNumber	112.00	163.00
tblTripsAndVMT	HaulingTripNumber	3,177.00	3,178.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	243.00	51.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	243.00	91.00
tblWater	IndoorWaterUseRate	43,653,197.17	25,410,069.99
tblWater	OutdoorWaterUseRate	27,520,493.87	16,019,391.95
tblWoodstoves	NumberCatalytic	33.50	19.50
tblWoodstoves	NumberNoncatalytic	33.50	19.50

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

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	0.3826	4.1265	2.8144	8.1200e-003	0.6006	0.1481	0.7486	0.0744	0.1371	0.2115	0.0000	746.4398	746.4398	0.1800	0.0186	756.4668
2023	1.2218	3.1192	5.3222	0.0171	1.8480	0.1037	1.9516	0.4105	0.0962	0.5067	0.0000	1,563.6562	1,563.6562	0.1523	0.0584	1,584.8721
2024	0.4361	1.5597	4.2151	0.0144	1.3844	0.0454	1.4298	0.3694	0.0424	0.4117	0.0000	1,327.1412	1,327.1412	0.0790	0.0528	1,344.8530
2025	1.6886	1.1316	3.2185	0.0110	1.0959	0.0331	1.1289	0.2923	0.0311	0.3234	0.0000	1,015.7646	1,015.7646	0.0567	0.0390	1,028.8156
2026	0.3449	1.0913	3.3908	0.0115	1.2322	0.0348	1.2670	0.3281	0.0325	0.3606	0.0000	1,055.9214	1,055.9214	0.0606	0.0333	1,067.3657
2027	0.3625	1.1760	3.5631	0.0123	1.3456	0.0376	1.3833	0.3583	0.0352	0.3935	0.0000	1,125.3972	1,125.3972	0.0648	0.0352	1,137.5082
2028	1.0889	0.3590	1.0673	3.5500e-003	0.3901	0.0123	0.4024	0.1038	0.0117	0.1155	0.0000	324.0225	324.0225	0.0173	9.2800e-003	327.2199
Maximum	**1.6886**	**4.1265**	**5.3222**	**0.0171**	**1.8480**	**0.1481**	**1.9516**	**0.4105**	**0.1371**	**0.5067**	**0.0000**	**1,563.6562**	**1,563.6562**	**0.1800**	**0.0584**	**1,584.8721**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.3826	4.1265	2.8144	8.1200e-003	0.2819	0.1481	0.4300	0.0388	0.1371	0.1759	0.0000	746.4391	746.4391	0.1800	0.0186	756.4661
2023	1.2218	3.1192	5.3221	0.0171	1.4476	0.1037	1.5512	0.3531	0.0962	0.4494	0.0000	1,563.6558	1,563.6558	0.1523	0.0584	1,584.8716
2024	0.4361	1.5597	4.2151	0.0144	1.2774	0.0454	1.3229	0.3431	0.0424	0.3855	0.0000	1,327.1411	1,327.1411	0.0790	0.0528	1,344.8528
2025	1.6886	1.1316	3.2185	0.0110	1.0111	0.0331	1.0442	0.2715	0.0311	0.3026	0.0000	1,015.7644	1,015.7644	0.0567	0.0390	1,028.8155
2026	0.3449	1.0913	3.3908	0.0115	1.1366	0.0348	1.1714	0.3046	0.0325	0.3371	0.0000	1,055.9213	1,055.9213	0.0606	0.0333	1,067.3655
2027	0.3625	1.1760	3.5631	0.0123	1.2412	0.0376	1.2789	0.3327	0.0352	0.3679	0.0000	1,125.3970	1,125.3970	0.0648	0.0352	1,137.5080
2028	1.0889	0.3590	1.0673	3.5500e-003	0.3598	0.0123	0.3721	0.0964	0.0117	0.1081	0.0000	324.0225	324.0225	0.0173	9.2800e-003	327.2198
Maximum	**1.6886**	**4.1265**	**5.3221**	**0.0171**	**1.4476**	**0.1481**	**1.5512**	**0.3531**	**0.1371**	**0.4494**	**0.0000**	**1,563.6558**	**1,563.6558**	**0.1800**	**0.0584**	**1,584.8716**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**14.45**	**0.00**	**13.73**	**10.15**	**0.00**	**8.46**	**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	6-1-2022	8-31-2022	0.7055	0.7055
2	9-1-2022	11-30-2022	2.9530	2.9530
3	12-1-2022	2-28-2023	3.4309	3.4309
4	3-1-2023	5-31-2023	0.4945	0.4945

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5	**6-1-2023**	**8-31-2023**	0.4886	0.4886
6	**9-1-2023**	**11-30-2023**	0.9995	0.9995
7	**12-1-2023**	**2-29-2024**	0.7336	0.7336
8	**3-1-2024**	**5-31-2024**	0.5585	0.5585
9	**6-1-2024**	**8-31-2024**	0.4678	0.4678
10	**9-1-2024**	**11-30-2024**	0.4740	0.4740
11	**12-1-2024**	**2-28-2025**	0.4573	0.4573
12	**3-1-2025**	**5-31-2025**	0.4475	0.4475
13	**6-1-2025**	**8-31-2025**	1.4326	1.4326
14	**9-1-2025**	**11-30-2025**	0.6235	0.6235
15	**12-1-2025**	**2-28-2026**	0.1220	0.1220
16	**3-1-2026**	**5-31-2026**	0.3916	0.3916
17	**6-1-2026**	**8-31-2026**	0.3870	0.3870
18	**9-1-2026**	**11-30-2026**	0.3919	0.3919
19	**12-1-2026**	**2-28-2027**	0.3871	0.3871
20	**3-1-2027**	**5-31-2027**	0.3843	0.3843
21	**6-1-2027**	**8-31-2027**	0.3798	0.3798
22	**9-1-2027**	**11-30-2027**	0.3845	0.3845
23	**12-1-2027**	**2-29-2028**	1.0250	1.0250
24	**3-1-2028**	**5-31-2028**	0.5619	0.5619
		Highest	3.4309	3.4309

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	6/1/2022	9/30/2022	5	88	a
2	Asphalt Demolition	Demolition	7/1/2022	8/15/2022	5	32	c
3	Building Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	b
4	Asphalt Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	d
5	Site Preparation	Site Preparation	10/1/2022	2/15/2023	5	98	e
6	Site Preparation Soil Haul 2022	Site Preparation	10/1/2022	12/31/2022	5	65	f
7	Site Preparation Soil Haul 2023	Site Preparation	1/1/2023	2/15/2023	5	33	g
8	Retail and Residential Building A Building Construction	Building Construction	2/1/2023	9/30/2025	5	695	h
9	Retail Architectural Coating	Architectural Coating	10/15/2023	12/23/2023	5	50	i
10	Finishing and Landscaping	Trenching	4/1/2024	4/30/2024	5	22	l
11	Paving	Paving	4/1/2024	4/7/2024	5	5	k
12	Residential Building A Architectural Coating	Architectural Coating	7/1/2025	9/30/2025	5	66	j
13	Residential Building B Building Construction	Building Construction	2/1/2026	3/31/2028	5	565	m
14	Residential Building B Architectural Coating	Architectural Coating	1/15/2028	3/31/2028	5	55	n

Acres of Grading (Site Preparation Phase): 980

Acres of Grading (Grading Phase): 0

Acres of Paving: 15.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 179,123; Non-Residential Outdoor: 59,708; Striped Parking Area: 43,219

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Building Demolition	Crushing/Proc. Equipment	1	8.00	350	0.78
Building Demolition	Excavators	2	8.00	131	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	0	8.00	158	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Excavators	1	8.00	101	0.38
Site Preparation	Graders	4	8.00	238	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Scrapers	8	8.00	365	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation Soil Haul 2022	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2022	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation Soil Haul 2023	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2023	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Retail and Residential Building A Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73
Retail and Residential Building A Building Construction	Cranes	1	8.00	300	0.29
Retail and Residential Building A Building Construction	Forklifts	0	8.00	89	0.20
Retail and Residential Building A Building Construction	Generator Sets	0	8.00	84	0.74

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Retail and Residential Building A Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Retail and Residential Building A Building Construction	Welders	0	8.00	46	0.45
Retail Architectural Coating	Air Compressors	2	6.00	78	0.48
Residential Building A Architectural Coating	Air Compressors	2	6.00	78	0.48
Paving	Pavers	1	8.00	188	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	86	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Finishing and Landscaping	Graders	1	8.00	238	0.41
Residential Building B Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73
Residential Building B Building Construction	Cranes	1	8.00	300	0.29
Residential Building B Building Construction	Forklifts	0	8.00	89	0.20
Residential Building B Building Construction	Generator Sets	0	8.00	84	0.74
Residential Building B Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Residential Building B Building Construction	Welders	0	8.00	46	0.45
Residential Building B Architectural Coating	Air Compressors	2	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Demolition	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	0	0.00	0.00	160.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	0	0.00	0.00	163.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	14	35.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2022	0	0.00	0.00	3,178.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2023	0	0.00	0.00	1,613.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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Retail and Residential Building A Building	3	910.00	91.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building A Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing and Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building B Building Construction	3	910.00	51.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building B Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building 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					
Off-Road	0.0760	0.4977	0.5620	1.5700e-003		0.0204	0.0204		0.0196	0.0196	0.0000	154.3428	154.3428	0.0190	0.0000	154.8182
Total	**0.0760**	**0.4977**	**0.5620**	**1.5700e-003**		**0.0204**	**0.0204**		**0.0196**	**0.0196**	**0.0000**	**154.3428**	**154.3428**	**0.0190**	**0.0000**	**154.8182**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.9000e-004	8.2700e-003	2.8500e-003	3.0000e-005	1.1100e-003	8.0000e-005	1.1900e-003	3.2000e-004	7.0000e-005	3.9000e-004	0.0000	3.3112	3.3112	1.9000e-004	4.7000e-004	3.4575
Worker	1.3300e-003	1.0000e-003	0.0138	4.0000e-005	4.8300e-003	3.0000e-005	4.8600e-003	1.2800e-003	2.0000e-005	1.3100e-003	0.0000	3.7930	3.7930	9.0000e-005	1.0000e-004	3.8238
Total	**1.6200e-003**	**9.2700e-003**	**0.0166**	**7.0000e-005**	**5.9400e-003**	**1.1000e-004**	**6.0500e-003**	**1.6000e-003**	**9.0000e-005**	**1.7000e-003**	**0.0000**	**7.1042**	**7.1042**	**2.8000e-004**	**5.7000e-004**	**7.2812**

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	0.0760	0.4977	0.5620	1.5700e-003		0.0204	0.0204		0.0196	0.0196	0.0000	154.3427	154.3427	0.0190	0.0000	154.8180
Total	**0.0760**	**0.4977**	**0.5620**	**1.5700e-003**		**0.0204**	**0.0204**		**0.0196**	**0.0196**	**0.0000**	**154.3427**	**154.3427**	**0.0190**	**0.0000**	**154.8180**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.9000e-004	8.2700e-003	2.8500e-003	3.0000e-005	1.0400e-003	8.0000e-005	1.1200e-003	3.0000e-004	7.0000e-005	3.8000e-004	0.0000	3.3112	3.3112	1.9000e-004	4.7000e-004	3.4575
Worker	1.3300e-003	1.0000e-003	0.0138	4.0000e-005	4.4500e-003	3.0000e-005	4.4800e-003	1.1900e-003	2.0000e-005	1.2100e-003	0.0000	3.7930	3.7930	9.0000e-005	1.0000e-004	3.8238
Total	**1.6200e-003**	**9.2700e-003**	**0.0166**	**7.0000e-005**	**5.4900e-003**	**1.1000e-004**	**5.6000e-003**	**1.4900e-003**	**9.0000e-005**	**1.5900e-003**	**0.0000**	**7.1042**	**7.1042**	**2.8000e-004**	**5.7000e-004**	**7.2812**

3.3 Asphalt 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					
Off-Road	2.6400e-003	0.0268	0.0358	5.0000e-005		1.4400e-003	1.4400e-003		1.3300e-003	1.3300e-003	0.0000	4.3725	4.3725	1.4100e-003	0.0000	4.4078
Total	**2.6400e-003**	**0.0268**	**0.0358**	**5.0000e-005**		**1.4400e-003**	**1.4400e-003**		**1.3300e-003**	**1.3300e-003**	**0.0000**	**4.3725**	**4.3725**	**1.4100e-003**	**0.0000**	**4.4078**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.1000e-004	3.0100e-003	1.0400e-003	1.0000e-005	4.0000e-004	3.0000e-005	4.3000e-004	1.2000e-004	3.0000e-005	1.4000e-004	0.0000	1.2041	1.2041	7.0000e-005	1.7000e-004	1.2573
Worker	1.4000e-004	1.1000e-004	1.5000e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4138	0.4138	1.0000e-005	1.0000e-005	0.4171
Total	**2.5000e-004**	**3.1200e-003**	**2.5400e-003**	**1.0000e-005**	**9.3000e-004**	**3.0000e-005**	**9.6000e-004**	**2.6000e-004**	**3.0000e-005**	**2.8000e-004**	**0.0000**	**1.6179**	**1.6179**	**8.0000e-005**	**1.8000e-004**	**1.6744**

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	2.6400e-003	0.0268	0.0358	5.0000e-005		1.4400e-003	1.4400e-003		1.3300e-003	1.3300e-003	0.0000	4.3725	4.3725	1.4100e-003	0.0000	4.4078
Total	**2.6400e-003**	**0.0268**	**0.0358**	**5.0000e-005**		**1.4400e-003**	**1.4400e-003**		**1.3300e-003**	**1.3300e-003**	**0.0000**	**4.3725**	**4.3725**	**1.4100e-003**	**0.0000**	**4.4078**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.1000e-004	3.0100e-003	1.0400e-003	1.0000e-005	3.8000e-004	3.0000e-005	4.1000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.2041	1.2041	7.0000e-005	1.7000e-004	1.2573
Worker	1.4000e-004	1.1000e-004	1.5000e-003	0.0000	4.9000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4138	0.4138	1.0000e-005	1.0000e-005	0.4171
Total	**2.5000e-004**	**3.1200e-003**	**2.5400e-003**	**1.0000e-005**	**8.7000e-004**	**3.0000e-005**	**9.0000e-004**	**2.4000e-004**	**3.0000e-005**	**2.7000e-004**	**0.0000**	**1.6179**	**1.6179**	**8.0000e-005**	**1.8000e-004**	**1.6744**

3.4 Building Demolition Debris Haul - 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					0.0171	0.0000	0.0171	2.5900e-003	0.0000	2.5900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0171**	**0.0000**	**0.0171**	**2.5900e-003**	**0.0000**	**2.5900e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2000e-004	0.0131	3.5200e-003	5.0000e-005	1.3700e-003	9.0000e-005	1.4700e-003	3.8000e-004	9.0000e-005	4.7000e-004	0.0000	4.9072	4.9072	4.7000e-004	7.9000e-004	5.1532
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.2000e-004**	**0.0131**	**3.5200e-003**	**5.0000e-005**	**1.3700e-003**	**9.0000e-005**	**1.4700e-003**	**3.8000e-004**	**9.0000e-005**	**4.7000e-004**	**0.0000**	**4.9072**	**4.9072**	**4.7000e-004**	**7.9000e-004**	**5.1532**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.3200e-003	0.0000	7.3200e-003	1.1100e-003	0.0000	1.1100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**7.3200e-003**	**0.0000**	**7.3200e-003**	**1.1100e-003**	**0.0000**	**1.1100e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2000e-004	0.0131	3.5200e-003	5.0000e-005	1.2800e-003	9.0000e-005	1.3700e-003	3.5000e-004	9.0000e-005	4.4000e-004	0.0000	4.9072	4.9072	4.7000e-004	7.9000e-004	5.1532
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.2000e-004**	**0.0131**	**3.5200e-003**	**5.0000e-005**	**1.2800e-003**	**9.0000e-005**	**1.3700e-003**	**3.5000e-004**	**9.0000e-005**	**4.4000e-004**	**0.0000**	**4.9072**	**4.9072**	**4.7000e-004**	**7.9000e-004**	**5.1532**

3.5 Asphalt Demolition Debris Haul - 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					0.0121	0.0000	0.0121	1.8400e-003	0.0000	1.8400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0121**	**0.0000**	**0.0121**	**1.8400e-003**	**0.0000**	**1.8400e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-004	0.0134	3.5900e-003	5.0000e-005	1.4000e-003	1.0000e-004	1.5000e-003	3.8000e-004	9.0000e-005	4.8000e-004	0.0000	4.9993	4.9993	4.8000e-004	8.0000e-004	5.2498
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.3000e-004**	**0.0134**	**3.5900e-003**	**5.0000e-005**	**1.4000e-003**	**1.0000e-004**	**1.5000e-003**	**3.8000e-004**	**9.0000e-005**	**4.8000e-004**	**0.0000**	**4.9993**	**4.9993**	**4.8000e-004**	**8.0000e-004**	**5.2498**

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					5.1900e-003	0.0000	5.1900e-003	7.9000e-004	0.0000	7.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.1900e-003**	**0.0000**	**5.1900e-003**	**7.9000e-004**	**0.0000**	**7.9000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-004	0.0134	3.5900e-003	5.0000e-005	1.3000e-003	1.0000e-004	1.4000e-003	3.6000e-004	9.0000e-005	4.5000e-004	0.0000	4.9993	4.9993	4.8000e-004	8.0000e-004	5.2498
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.3000e-004**	**0.0134**	**3.5900e-003**	**5.0000e-005**	**1.3000e-003**	**1.0000e-004**	**1.4000e-003**	**3.6000e-004**	**9.0000e-005**	**4.5000e-004**	**0.0000**	**4.9993**	**4.9993**	**4.8000e-004**	**8.0000e-004**	**5.2498**

3.6 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					0.5197	0.0000	0.5197	0.0561	0.0000	0.0561	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2914	3.2943	2.0827	5.2300e-003		0.1239	0.1239		0.1140	0.1140	0.0000	459.3743	459.3743	0.1486	0.0000	463.0886
Total	**0.2914**	**3.2943**	**2.0827**	**5.2300e-003**	**0.5197**	**0.1239**	**0.6436**	**0.0561**	**0.1140**	**0.1701**	**0.0000**	**459.3743**	**459.3743**	**0.1486**	**0.0000**	**463.0886**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.1000e-004	6.1100e-003	2.1000e-003	2.0000e-005	8.2000e-004	6.0000e-005	8.8000e-004	2.4000e-004	5.0000e-005	2.9000e-004	0.0000	2.4458	2.4458	1.4000e-004	3.5000e-004	2.5538
Worker	3.4300e-003	2.5800e-003	0.0356	1.1000e-004	0.0125	7.0000e-005	0.0126	3.3200e-003	6.0000e-005	3.3800e-003	0.0000	9.8057	9.8057	2.4000e-004	2.5000e-004	9.8853
Total	**3.6400e-003**	**8.6900e-003**	**0.0377**	**1.3000e-004**	**0.0133**	**1.3000e-004**	**0.0134**	**3.5600e-003**	**1.1000e-004**	**3.6700e-003**	**0.0000**	**12.2515**	**12.2515**	**3.8000e-004**	**6.0000e-004**	**12.4391**

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					0.2222	0.0000	0.2222	0.0240	0.0000	0.0240	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2914	3.2943	2.0827	5.2300e-003		0.1239	0.1239		0.1140	0.1140	0.0000	459.3737	459.3737	0.1486	0.0000	463.0880
Total	**0.2914**	**3.2943**	**2.0827**	**5.2300e-003**	**0.2222**	**0.1239**	**0.3461**	**0.0240**	**0.1140**	**0.1380**	**0.0000**	**459.3737**	**459.3737**	**0.1486**	**0.0000**	**463.0880**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.1000e-004	6.1100e-003	2.1000e-003	2.0000e-005	7.7000e-004	6.0000e-005	8.2000e-004	2.2000e-004	5.0000e-005	2.8000e-004	0.0000	2.4458	2.4458	1.4000e-004	3.5000e-004	2.5538
Worker	3.4300e-003	2.5800e-003	0.0356	1.1000e-004	0.0115	7.0000e-005	0.0116	3.0800e-003	6.0000e-005	3.1400e-003	0.0000	9.8057	9.8057	2.4000e-004	2.5000e-004	9.8853
Total	**3.6400e-003**	**8.6900e-003**	**0.0377**	**1.3000e-004**	**0.0123**	**1.3000e-004**	**0.0124**	**3.3000e-003**	**1.1000e-004**	**3.4200e-003**	**0.0000**	**12.2515**	**12.2515**	**3.8000e-004**	**6.0000e-004**	**12.4391**

3.6 Site Preparation - 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					
Fugitive Dust					0.5197	0.0000	0.5197	0.0561	0.0000	0.0561	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1406	1.5302	1.0232	2.6500e-003		0.0579	0.0579		0.0532	0.0532	0.0000	233.1691	233.1691	0.0754	0.0000	235.0544
Total	**0.1406**	**1.5302**	**1.0232**	**2.6500e-003**	**0.5197**	**0.0579**	**0.5775**	**0.0561**	**0.0532**	**0.1093**	**0.0000**	**233.1691**	**233.1691**	**0.0754**	**0.0000**	**235.0544**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	7.0000e-005	2.4200e-003	9.7000e-004	1.0000e-005	4.2000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.1829	1.1829	7.0000e-005	1.7000e-004	1.2353
Worker	1.6300e-003	1.1700e-003	0.0168	5.0000e-005	6.3400e-003	3.0000e-005	6.3700e-003	1.6800e-003	3.0000e-005	1.7100e-003	0.0000	4.8203	4.8203	1.1000e-004	1.2000e-004	4.8578
Total	**1.7000e-003**	**3.5900e-003**	**0.0178**	**6.0000e-005**	**6.7600e-003**	**4.0000e-005**	**6.8000e-003**	**1.8000e-003**	**4.0000e-005**	**1.8400e-003**	**0.0000**	**6.0032**	**6.0032**	**1.8000e-004**	**2.9000e-004**	**6.0931**

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					0.2222	0.0000	0.2222	0.0240	0.0000	0.0240	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1406	1.5302	1.0232	2.6500e-003		0.0579	0.0579		0.0532	0.0532	0.0000	233.1689	233.1689	0.0754	0.0000	235.0542
Total	**0.1406**	**1.5302**	**1.0232**	**2.6500e-003**	**0.2222**	**0.0579**	**0.2800**	**0.0240**	**0.0532**	**0.0772**	**0.0000**	**233.1689**	**233.1689**	**0.0754**	**0.0000**	**235.0542**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	7.0000e-005	2.4200e-003	9.7000e-004	1.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.1829	1.1829	7.0000e-005	1.7000e-004	1.2353
Worker	1.6300e-003	1.1700e-003	0.0168	5.0000e-005	5.8500e-003	3.0000e-005	5.8800e-003	1.5600e-003	3.0000e-005	1.5900e-003	0.0000	4.8203	4.8203	1.1000e-004	1.2000e-004	4.8578
Total	**1.7000e-003**	**3.5900e-003**	**0.0178**	**6.0000e-005**	**6.2400e-003**	**4.0000e-005**	**6.2800e-003**	**1.6700e-003**	**4.0000e-005**	**1.7100e-003**	**0.0000**	**6.0032**	**6.0032**	**1.8000e-004**	**2.9000e-004**	**6.0931**

3.7 Site Preparation Soil Haul 2022 - 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					1.4400e-003	0.0000	1.4400e-003	2.2000e-004	0.0000	2.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.4400e-003**	**0.0000**	**1.4400e-003**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	6.3700e-003	0.2602	0.0699	9.5000e-004	0.0273	1.8700e-003	0.0292	7.4800e-003	1.7900e-003	9.2800e-003	0.0000	97.4701	97.4701	9.2900e-003	0.0156	102.3546
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.3700e-003**	**0.2602**	**0.0699**	**9.5000e-004**	**0.0273**	**1.8700e-003**	**0.0292**	**7.4800e-003**	**1.7900e-003**	**9.2800e-003**	**0.0000**	**97.4701**	**97.4701**	**9.2900e-003**	**0.0156**	**102.3546**

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					6.1000e-004	0.0000	6.1000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**6.1000e-004**	**0.0000**	**6.1000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	6.3700e-003	0.2602	0.0699	9.5000e-004	0.0254	1.8700e-003	0.0273	7.0300e-003	1.7900e-003	8.8200e-003	0.0000	97.4701	97.4701	9.2900e-003	0.0156	102.3546
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.3700e-003**	**0.2602**	**0.0699**	**9.5000e-004**	**0.0254**	**1.8700e-003**	**0.0273**	**7.0300e-003**	**1.7900e-003**	**8.8200e-003**	**0.0000**	**97.4701**	**97.4701**	**9.2900e-003**	**0.0156**	**102.3546**

3.8 Site Preparation Soil Haul 2023 - 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					
Fugitive Dust					7.3000e-004	0.0000	7.3000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**7.3000e-004**	**0.0000**	**7.3000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.6400e-003	0.1011	0.0331	4.5000e-004	0.0139	6.2000e-004	0.0145	3.8000e-003	5.9000e-004	4.3900e-003	0.0000	46.8101	46.8101	4.7200e-003	7.5100e-003	49.1658
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6400e-003**	**0.1011**	**0.0331**	**4.5000e-004**	**0.0139**	**6.2000e-004**	**0.0145**	**3.8000e-003**	**5.9000e-004**	**4.3900e-003**	**0.0000**	**46.8101**	**46.8101**	**4.7200e-003**	**7.5100e-003**	**49.1658**

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					3.1000e-004	0.0000	3.1000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.1000e-004**	**0.0000**	**3.1000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.6400e-003	0.1011	0.0331	4.5000e-004	0.0129	6.2000e-004	0.0135	3.5700e-003	5.9000e-004	4.1600e-003	0.0000	46.8101	46.8101	4.7200e-003	7.5100e-003	49.1658
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6400e-003**	**0.1011**	**0.0331**	**4.5000e-004**	**0.0129**	**6.2000e-004**	**0.0135**	**3.5700e-003**	**5.9000e-004**	**4.1600e-003**	**0.0000**	**46.8101**	**46.8101**	**4.7200e-003**	**7.5100e-003**	**49.1658**

3.9 Retail and Residential Building A 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	0.0853	0.7938	0.7150	1.5100e-003		0.0332	0.0332		0.0310	0.0310	0.0000	128.9587	128.9587	0.0378	0.0000	129.9033
Total	**0.0853**	**0.7938**	**0.7150**	**1.5100e-003**		**0.0332**	**0.0332**		**0.0310**	**0.0310**	**0.0000**	**128.9587**	**128.9587**	**0.0378**	**0.0000**	**129.9033**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0107	0.3976	0.1597	1.9500e-003	0.0682	1.9500e-003	0.0702	0.0197	1.8700e-003	0.0216	0.0000	194.0926	194.0926	0.0115	0.0279	202.6863
Worker	0.3058	0.2186	3.1504	9.8600e-003	1.1888	6.1700e-003	1.1950	0.3157	5.6800e-003	0.3214	0.0000	903.8781	903.8781	0.0210	0.0218	910.9102
Total	**0.3165**	**0.6161**	**3.3101**	**0.0118**	**1.2570**	**8.1200e-003**	**1.2652**	**0.3354**	**7.5500e-003**	**0.3429**	**0.0000**	**1,097.9707**	**1,097.9707**	**0.0326**	**0.0497**	**1,113.5965**

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	0.0853	0.7938	0.7150	1.5100e-003		0.0332	0.0332		0.0310	0.0310	0.0000	128.9586	128.9586	0.0378	0.0000	129.9031
Total	**0.0853**	**0.7938**	**0.7150**	**1.5100e-003**		**0.0332**	**0.0332**		**0.0310**	**0.0310**	**0.0000**	**128.9586**	**128.9586**	**0.0378**	**0.0000**	**129.9031**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0107	0.3976	0.1597	1.9500e-003	0.0639	1.9500e-003	0.0658	0.0186	1.8700e-003	0.0205	0.0000	194.0926	194.0926	0.0115	0.0279	202.6863
Worker	0.3058	0.2186	3.1504	9.8600e-003	1.0960	6.1700e-003	1.1022	0.2929	5.6800e-003	0.2986	0.0000	903.8781	903.8781	0.0210	0.0218	910.9102
Total	**0.3165**	**0.6161**	**3.3101**	**0.0118**	**1.1599**	**8.1200e-003**	**1.1680**	**0.3115**	**7.5500e-003**	**0.3191**	**0.0000**	**1,097.9707**	**1,097.9707**	**0.0326**	**0.0497**	**1,113.5965**

3.9 Retail and Residential Building A Building Construction - 2024

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	0.0918	0.8368	0.7721	1.6600e-003		0.0343	0.0343		0.0321	0.0321	0.0000	141.9441	141.9441	0.0416	0.0000	142.9837
Total	**0.0918**	**0.8368**	**0.7721**	**1.6600e-003**		**0.0343**	**0.0343**		**0.0321**	**0.0321**	**0.0000**	**141.9441**	**141.9441**	**0.0416**	**0.0000**	**142.9837**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0117	0.4363	0.1744	2.1100e-003	0.0751	2.2500e-003	0.0774	0.0217	2.1500e-003	0.0238	0.0000	210.3536	210.3536	0.0128	0.0303	219.7131
Worker	0.3167	0.2160	3.2299	0.0105	1.3087	6.4500e-003	1.3151	0.3475	5.9400e-003	0.3535	0.0000	963.4818	963.4818	0.0210	0.0225	970.7027
Total	**0.3284**	**0.6523**	**3.4043**	**0.0126**	**1.3838**	**8.7000e-003**	**1.3925**	**0.3692**	**8.0900e-003**	**0.3773**	**0.0000**	**1,173.8353**	**1,173.8353**	**0.0338**	**0.0528**	**1,190.4158**

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	0.0918	0.8368	0.7721	1.6600e-003		0.0343	0.0343		0.0321	0.0321	0.0000	141.9439	141.9439	0.0416	0.0000	142.9835
Total	**0.0918**	**0.8368**	**0.7721**	**1.6600e-003**		**0.0343**	**0.0343**		**0.0321**	**0.0321**	**0.0000**	**141.9439**	**141.9439**	**0.0416**	**0.0000**	**142.9835**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0117	0.4363	0.1744	2.1100e-003	0.0703	2.2500e-003	0.0726	0.0205	2.1500e-003	0.0226	0.0000	210.3536	210.3536	0.0128	0.0303	219.7131
Worker	0.3167	0.2160	3.2299	0.0105	1.2066	6.4500e-003	1.2130	0.3225	5.9400e-003	0.3284	0.0000	963.4818	963.4818	0.0210	0.0225	970.7027
Total	**0.3284**	**0.6523**	**3.4043**	**0.0126**	**1.2769**	**8.7000e-003**	**1.2856**	**0.3430**	**8.0900e-003**	**0.3511**	**0.0000**	**1,173.8353**	**1,173.8353**	**0.0338**	**0.0528**	**1,190.4158**

3.9 Retail and Residential Building A Building Construction - 2025

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	0.0653	0.5775	0.5593	1.2400e-003		0.0231	0.0231		0.0216	0.0216	0.0000	105.6575	105.6575	0.0310	0.0000	106.4314
Total	**0.0653**	**0.5775**	**0.5593**	**1.2400e-003**		**0.0231**	**0.0231**		**0.0216**	**0.0216**	**0.0000**	**105.6575**	**105.6575**	**0.0310**	**0.0000**	**106.4314**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	8.5400e-003	0.3232	0.1293	1.5400e-003	0.0559	1.6800e-003	0.0576	0.0161	1.6100e-003	0.0177	0.0000	153.6320	153.6320	9.6600e-003	0.0223	160.5028
Worker	0.2227	0.1455	2.2578	7.5500e-003	0.9740	4.5900e-003	0.9786	0.2587	4.2200e-003	0.2629	0.0000	692.7311	692.7311	0.0142	0.0157	697.7731
Total	**0.2313**	**0.4687**	**2.3870**	**9.0900e-003**	**1.0299**	**6.2700e-003**	**1.0362**	**0.2748**	**5.8300e-003**	**0.2806**	**0.0000**	**846.3630**	**846.3630**	**0.0239**	**0.0380**	**858.2759**

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	0.0653	0.5775	0.5593	1.2400e-003		0.0231	0.0231		0.0216	0.0216	0.0000	105.6574	105.6574	0.0310	0.0000	106.4312
Total	**0.0653**	**0.5775**	**0.5593**	**1.2400e-003**		**0.0231**	**0.0231**		**0.0216**	**0.0216**	**0.0000**	**105.6574**	**105.6574**	**0.0310**	**0.0000**	**106.4312**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	8.5400e-003	0.3232	0.1293	1.5400e-003	0.0523	1.6800e-003	0.0540	0.0153	1.6100e-003	0.0169	0.0000	153.6320	153.6320	9.6600e-003	0.0223	160.5028
Worker	0.2227	0.1455	2.2578	7.5500e-003	0.8980	4.5900e-003	0.9026	0.2400	4.2200e-003	0.2442	0.0000	692.7311	692.7311	0.0142	0.0157	697.7731
Total	**0.2313**	**0.4687**	**2.3870**	**9.0900e-003**	**0.9504**	**6.2700e-003**	**0.9566**	**0.2553**	**5.8300e-003**	**0.2611**	**0.0000**	**846.3630**	**846.3630**	**0.0239**	**0.0380**	**858.2759**

3.10 Retail 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	0.6537					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5800e-003	0.0652	0.0906	1.5000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003	0.0000	12.7663	12.7663	7.6000e-004	0.0000	12.7854
Total	**0.6632**	**0.0652**	**0.0906**	**1.5000e-004**		**3.5400e-003**	**3.5400e-003**		**3.5400e-003**	**3.5400e-003**	**0.0000**	**12.7663**	**12.7663**	**7.6000e-004**	**0.0000**	**12.7854**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0129	9.1800e-003	0.1324	4.1000e-004	0.0500	2.6000e-004	0.0502	0.0133	2.4000e-004	0.0135	0.0000	37.9781	37.9781	8.8000e-004	9.2000e-004	38.2735
Total	**0.0129**	**9.1800e-003**	**0.1324**	**4.1000e-004**	**0.0500**	**2.6000e-004**	**0.0502**	**0.0133**	**2.4000e-004**	**0.0135**	**0.0000**	**37.9781**	**37.9781**	**8.8000e-004**	**9.2000e-004**	**38.2735**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6537					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5800e-003	0.0652	0.0906	1.5000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003	0.0000	12.7663	12.7663	7.6000e-004	0.0000	12.7854
Total	**0.6632**	**0.0652**	**0.0906**	**1.5000e-004**		**3.5400e-003**	**3.5400e-003**		**3.5400e-003**	**3.5400e-003**	**0.0000**	**12.7663**	**12.7663**	**7.6000e-004**	**0.0000**	**12.7854**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0129	9.1800e-003	0.1324	4.1000e-004	0.0461	2.6000e-004	0.0463	0.0123	2.4000e-004	0.0126	0.0000	37.9781	37.9781	8.8000e-004	9.2000e-004	38.2735
Total	**0.0129**	**9.1800e-003**	**0.1324**	**4.1000e-004**	**0.0461**	**2.6000e-004**	**0.0463**	**0.0123**	**2.4000e-004**	**0.0126**	**0.0000**	**37.9781**	**37.9781**	**8.8000e-004**	**9.2000e-004**	**38.2735**

3.11 Finishing and Landscaping - 2024

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	4.9600e-003	0.0582	0.0232	9.0000e-005		1.8900e-003	1.8900e-003		1.7400e-003	1.7400e-003	0.0000	8.1348	8.1348	2.6300e-003	0.0000	8.2006
Total	**4.9600e-003**	**0.0582**	**0.0232**	**9.0000e-005**		**1.8900e-003**	**1.8900e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**8.1348**	**8.1348**	**2.6300e-003**	**0.0000**	**8.2006**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	8.9000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2667	0.2667	1.0000e-005	1.0000e-005	0.2687
Total	**9.0000e-005**	**6.0000e-005**	**8.9000e-004**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2667**	**0.2667**	**1.0000e-005**	**1.0000e-005**	**0.2687**

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	4.9600e-003	0.0582	0.0232	9.0000e-005		1.8900e-003	1.8900e-003		1.7400e-003	1.7400e-003	0.0000	8.1348	8.1348	2.6300e-003	0.0000	8.2006
Total	**4.9600e-003**	**0.0582**	**0.0232**	**9.0000e-005**		**1.8900e-003**	**1.8900e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**8.1348**	**8.1348**	**2.6300e-003**	**0.0000**	**8.2006**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	8.9000e-004	0.0000	3.3000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2667	0.2667	1.0000e-005	1.0000e-005	0.2687
Total	**9.0000e-005**	**6.0000e-005**	**8.9000e-004**	**0.0000**	**3.3000e-004**	**0.0000**	**3.4000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.2667**	**0.2667**	**1.0000e-005**	**1.0000e-005**	**0.2687**

3.12 Paving - 2024

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	1.1700e-003	0.0124	0.0141	3.0000e-005		5.3000e-004	5.3000e-004		4.8000e-004	4.8000e-004	0.0000	2.7987	2.7987	9.1000e-004	0.0000	2.8213
Paving	9.6800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.0124**	**0.0141**	**3.0000e-005**		**5.3000e-004**	**5.3000e-004**		**4.8000e-004**	**4.8000e-004**	**0.0000**	**2.7987**	**2.7987**	**9.1000e-004**	**0.0000**	**2.8213**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	5.0000e-005	4.0000e-005	5.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1616	0.1616	0.0000	0.0000	0.1629
Total	**5.0000e-005**	**4.0000e-005**	**5.4000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1616**	**0.1616**	**0.0000**	**0.0000**	**0.1629**

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	1.1700e-003	0.0124	0.0141	3.0000e-005		5.3000e-004	5.3000e-004		4.8000e-004	4.8000e-004	0.0000	2.7987	2.7987	9.1000e-004	0.0000	2.8213
Paving	9.6800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.0124**	**0.0141**	**3.0000e-005**		**5.3000e-004**	**5.3000e-004**		**4.8000e-004**	**4.8000e-004**	**0.0000**	**2.7987**	**2.7987**	**9.1000e-004**	**0.0000**	**2.8213**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	5.0000e-005	4.0000e-005	5.4000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.1616	0.1616	0.0000	0.0000	0.1629
Total	**5.0000e-005**	**4.0000e-005**	**5.4000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1616**	**0.1616**	**0.0000**	**0.0000**	**0.1629**

3.13 Residential Building A Architectural Coating - 2025

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	1.3657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.0756	0.1194	2.0000e-004		3.4000e-003	3.4000e-003		3.4000e-003	3.4000e-003	0.0000	16.8515	16.8515	9.2000e-004	0.0000	16.8745
Total	**1.3769**	**0.0756**	**0.1194**	**2.0000e-004**		**3.4000e-003**	**3.4000e-003**		**3.4000e-003**	**3.4000e-003**	**0.0000**	**16.8515**	**16.8515**	**9.2000e-004**	**0.0000**	**16.8745**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0151	9.8500e-003	0.1528	5.1000e-004	0.0659	3.1000e-004	0.0662	0.0175	2.9000e-004	0.0178	0.0000	46.8926	46.8926	9.6000e-004	1.0600e-003	47.2339
Total	**0.0151**	**9.8500e-003**	**0.1528**	**5.1000e-004**	**0.0659**	**3.1000e-004**	**0.0662**	**0.0175**	**2.9000e-004**	**0.0178**	**0.0000**	**46.8926**	**46.8926**	**9.6000e-004**	**1.0600e-003**	**47.2339**

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	1.3657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.0756	0.1194	2.0000e-004		3.4000e-003	3.4000e-003		3.4000e-003	3.4000e-003	0.0000	16.8515	16.8515	9.2000e-004	0.0000	16.8744
Total	**1.3769**	**0.0756**	**0.1194**	**2.0000e-004**		**3.4000e-003**	**3.4000e-003**		**3.4000e-003**	**3.4000e-003**	**0.0000**	**16.8515**	**16.8515**	**9.2000e-004**	**0.0000**	**16.8744**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0151	9.8500e-003	0.1528	5.1000e-004	0.0608	3.1000e-004	0.0611	0.0163	2.9000e-004	0.0165	0.0000	46.8926	46.8926	9.6000e-004	1.0600e-003	47.2339
Total	**0.0151**	**9.8500e-003**	**0.1528**	**5.1000e-004**	**0.0608**	**3.1000e-004**	**0.0611**	**0.0163**	**2.9000e-004**	**0.0165**	**0.0000**	**46.8926**	**46.8926**	**9.6000e-004**	**1.0600e-003**	**47.2339**

3.14 Residential Building B Building Construction - 2026

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	0.0801	0.7079	0.6854	1.5100e-003		0.0283	0.0283		0.0265	0.0265	0.0000	129.4981	129.4981	0.0379	0.0000	130.4467
Total	**0.0801**	**0.7079**	**0.6854**	**1.5100e-003**		**0.0283**	**0.0283**		**0.0265**	**0.0265**	**0.0000**	**129.4981**	**129.4981**	**0.0379**	**0.0000**	**130.4467**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	5.7800e-003	0.2204	0.0885	1.0300e-003	0.0384	1.1600e-003	0.0396	0.0111	1.1000e-003	0.0122	0.0000	103.5085	103.5085	6.7100e-003	0.0151	108.1601
Worker	0.2591	0.1631	2.6169	8.9700e-003	1.1938	5.3500e-003	1.1992	0.3170	4.9200e-003	0.3220	0.0000	822.9148	822.9148	0.0160	0.0183	828.7589
Total	**0.2648**	**0.3835**	**2.7054**	**0.0100**	**1.2322**	**6.5100e-003**	**1.2387**	**0.3281**	**6.0200e-003**	**0.3341**	**0.0000**	**926.4233**	**926.4233**	**0.0227**	**0.0333**	**936.9190**

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	0.0801	0.7079	0.6854	1.5100e-003		0.0283	0.0283		0.0265	0.0265	0.0000	129.4980	129.4980	0.0379	0.0000	130.4465
Total	**0.0801**	**0.7079**	**0.6854**	**1.5100e-003**		**0.0283**	**0.0283**		**0.0265**	**0.0265**	**0.0000**	**129.4980**	**129.4980**	**0.0379**	**0.0000**	**130.4465**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	5.7800e-003	0.2204	0.0885	1.0300e-003	0.0360	1.1600e-003	0.0371	0.0105	1.1000e-003	0.0116	0.0000	103.5085	103.5085	6.7100e-003	0.0151	108.1601
Worker	0.2591	0.1631	2.6169	8.9700e-003	1.1007	5.3500e-003	1.1060	0.2942	4.9200e-003	0.2991	0.0000	822.9148	822.9148	0.0160	0.0183	828.7589
Total	**0.2648**	**0.3835**	**2.7054**	**0.0100**	**1.1366**	**6.5100e-003**	**1.1431**	**0.3046**	**6.0200e-003**	**0.3107**	**0.0000**	**926.4233**	**926.4233**	**0.0227**	**0.0333**	**936.9190**

3.14 Residential Building B Building Construction - 2027

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	0.0875	0.7730	0.7485	1.6500e-003		0.0309	0.0309		0.0289	0.0289	0.0000	141.4185	141.4185	0.0414	0.0000	142.4543
Total	**0.0875**	**0.7730**	**0.7485**	**1.6500e-003**		**0.0309**	**0.0309**		**0.0289**	**0.0289**	**0.0000**	**141.4185**	**141.4185**	**0.0414**	**0.0000**	**142.4543**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	6.2200e-003	0.2389	0.0963	1.1000e-003	0.0419	1.2600e-003	0.0432	0.0121	1.2000e-003	0.0133	0.0000	110.7247	110.7247	7.3800e-003	0.0162	115.7240
Worker	0.2688	0.1641	2.7183	9.5200e-003	1.3037	5.5000e-003	1.3092	0.3462	5.0600e-003	0.3513	0.0000	873.2541	873.2541	0.0160	0.0191	879.3298
Total	**0.2750**	**0.4030**	**2.8146**	**0.0106**	**1.3456**	**6.7600e-003**	**1.3524**	**0.3583**	**6.2600e-003**	**0.3646**	**0.0000**	**983.9787**	**983.9787**	**0.0234**	**0.0352**	**995.0539**

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	0.0875	0.7730	0.7485	1.6500e-003		0.0309	0.0309		0.0289	0.0289	0.0000	141.4183	141.4183	0.0414	0.0000	142.4541
Total	**0.0875**	**0.7730**	**0.7485**	**1.6500e-003**		**0.0309**	**0.0309**		**0.0289**	**0.0289**	**0.0000**	**141.4183**	**141.4183**	**0.0414**	**0.0000**	**142.4541**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	6.2200e-003	0.2389	0.0963	1.1000e-003	0.0393	1.2600e-003	0.0405	0.0114	1.2000e-003	0.0126	0.0000	110.7247	110.7247	7.3800e-003	0.0162	115.7240
Worker	0.2688	0.1641	2.7183	9.5200e-003	1.2020	5.5000e-003	1.2075	0.3212	5.0600e-003	0.3263	0.0000	873.2541	873.2541	0.0160	0.0191	879.3298
Total	**0.2750**	**0.4030**	**2.8146**	**0.0106**	**1.2412**	**6.7600e-003**	**1.2480**	**0.3327**	**6.2600e-003**	**0.3389**	**0.0000**	**983.9787**	**983.9787**	**0.0234**	**0.0352**	**995.0539**

3.14 Residential Building B Building Construction - 2028

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	0.0218	0.1925	0.1864	4.1000e-004		7.6900e-003	7.6900e-003		7.2000e-003	7.2000e-003	0.0000	35.2192	35.2192	0.0103	0.0000	35.4771
Total	**0.0218**	**0.1925**	**0.1864**	**4.1000e-004**		**7.6900e-003**	**7.6900e-003**		**7.2000e-003**	**7.2000e-003**	**0.0000**	**35.2192**	**35.2192**	**0.0103**	**0.0000**	**35.4771**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.5300e-003	0.0591	0.0240	2.7000e-004	0.0104	3.1000e-004	0.0108	3.0100e-003	3.0000e-004	3.3100e-003	0.0000	27.0253	27.0253	1.8600e-003	3.9600e-003	28.2510
Worker	0.0637	0.0380	0.6478	2.3100e-003	0.3247	1.2800e-003	0.3260	0.0862	1.1800e-003	0.0874	0.0000	211.8787	211.8787	3.6900e-003	4.5500e-003	213.3280
Total	**0.0652**	**0.0970**	**0.6718**	**2.5800e-003**	**0.3351**	**1.5900e-003**	**0.3367**	**0.0892**	**1.4800e-003**	**0.0907**	**0.0000**	**238.9041**	**238.9041**	**5.5500e-003**	**8.5100e-003**	**241.5790**

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	0.0218	0.1925	0.1864	4.1000e-004		7.6900e-003	7.6900e-003		7.2000e-003	7.2000e-003	0.0000	35.2191	35.2191	0.0103	0.0000	35.4771
Total	**0.0218**	**0.1925**	**0.1864**	**4.1000e-004**		**7.6900e-003**	**7.6900e-003**		**7.2000e-003**	**7.2000e-003**	**0.0000**	**35.2191**	**35.2191**	**0.0103**	**0.0000**	**35.4771**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.5300e-003	0.0591	0.0240	2.7000e-004	9.7800e-003	3.1000e-004	0.0101	2.8500e-003	3.0000e-004	3.1500e-003	0.0000	27.0253	27.0253	1.8600e-003	3.9600e-003	28.2510
Worker	0.0637	0.0380	0.6478	2.3100e-003	0.2993	1.2800e-003	0.3006	0.0800	1.1800e-003	0.0812	0.0000	211.8787	211.8787	3.6900e-003	4.5500e-003	213.3280
Total	**0.0652**	**0.0970**	**0.6718**	**2.5800e-003**	**0.3091**	**1.5900e-003**	**0.3107**	**0.0829**	**1.4800e-003**	**0.0843**	**0.0000**	**238.9041**	**238.9041**	**5.5500e-003**	**8.5100e-003**	**241.5790**

3.15 Residential Building B Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9818					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4000e-003	0.0630	0.0995	1.6000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	14.0429	14.0429	7.7000e-004	0.0000	14.0621
Total	**0.9912**	**0.0630**	**0.0995**	**1.6000e-004**		**2.8300e-003**	**2.8300e-003**		**2.8300e-003**	**2.8300e-003**	**0.0000**	**14.0429**	**14.0429**	**7.7000e-004**	**0.0000**	**14.0621**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0108	6.4200e-003	0.1096	3.9000e-004	0.0549	2.2000e-004	0.0552	0.0146	2.0000e-004	0.0148	0.0000	35.8564	35.8564	6.2000e-004	7.7000e-004	36.1017
Total	**0.0108**	**6.4200e-003**	**0.1096**	**3.9000e-004**	**0.0549**	**2.2000e-004**	**0.0552**	**0.0146**	**2.0000e-004**	**0.0148**	**0.0000**	**35.8564**	**35.8564**	**6.2000e-004**	**7.7000e-004**	**36.1017**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9818					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4000e-003	0.0630	0.0995	1.6000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	14.0429	14.0429	7.7000e-004	0.0000	14.0620
Total	**0.9912**	**0.0630**	**0.0995**	**1.6000e-004**		**2.8300e-003**	**2.8300e-003**		**2.8300e-003**	**2.8300e-003**	**0.0000**	**14.0429**	**14.0429**	**7.7000e-004**	**0.0000**	**14.0620**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0108	6.4200e-003	0.1096	3.9000e-004	0.0507	2.2000e-004	0.0509	0.0135	2.0000e-004	0.0137	0.0000	35.8564	35.8564	6.2000e-004	7.7000e-004	36.1017
Total	**0.0108**	**6.4200e-003**	**0.1096**	**3.9000e-004**	**0.0507**	**2.2000e-004**	**0.0509**	**0.0135**	**2.0000e-004**	**0.0137**	**0.0000**	**35.8564**	**35.8564**	**6.2000e-004**	**7.7000e-004**	**36.1017**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Brea Mall Mixed-Use Project (Option 2) Construction Run

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	398.50	1000sqft	5.47	398,500.00	0
Other Asphalt Surfaces	192.00	1000sqft	4.41	192,000.00	0
Other Non-Asphalt Surfaces	206.53	1000sqft	2.86	206,533.70	0
Parking Lot	129.81	1000sqft	2.98	129,809.00	0
Apartments Mid Rise	670.00	Dwelling Unit	0.00	750,300.00	1115
Regional Shopping Center	119.42	1000sqft	0.80	119,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - structures are comprised of multiple stories

Construction Phase - based on information provided by applicant. see project description for construction durations

Off-road Equipment - based on information provided by the applicant

Off-road Equipment - no additional equipment required for asphalt demolition debris haul

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - based on information provided by applicant

Off-road Equipment - no additional equipment required for building demolition haul

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - no additional equipment required for site preparation soil haul

Off-road Equipment - no additional equipment required for site preparation soil haul

Trips and VMT - assumes 4 vt/water truck/day. Assumes that 2 dump trucks will be used for asphalt demo haul. Building Construction and Arch Coat are calculated based on CalEEMod Appendix A rates

Demolition -

Grading -

Architectural Coating - see assumptions file for calculations. Parking only accounts for parking area and driveways

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and SCAQMD Rule 1186

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	59,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	59,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	179,123.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	179,123.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,611.00	0.00

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblArchitecturalCoating	ConstArea_Parking	55,611.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,611.00	43,219.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	211,815.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	294,638.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	635,445.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	883,913.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	59708	123708
tblAreaCoating	Area_Nonresidential_Interior	179123	371123
tblAreaCoating	Area_Parking	55611	55400
tblAreaCoating	Area_Residential_Exterior	506453	294638
tblAreaCoating	Area_Residential_Interior	1519358	883913
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	300.00	565.00
tblConstructionPhase	NumDays	300.00	695.00
tblConstructionPhase	NumDays	20.00	88.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	98.00
tblConstructionPhase	NumDays	10.00	65.00

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	10.00	33.00
tblFireplaces	NumberGas	569.50	331.50
tblFireplaces	NumberNoFireplace	67.00	39.00
tblFireplaces	NumberWood	33.50	19.50
tblGrading	MaterialExported	0.00	25,416.00
tblGrading	MaterialExported	0.00	12,904.00
tblLandUse	LandUseSquareFeet	206,530.00	206,533.70
tblLandUse	LandUseSquareFeet	129,810.00	129,809.00
tblLandUse	LandUseSquareFeet	670,000.00	750,300.00
tblLandUse	LandUseSquareFeet	119,420.00	119,415.00
tblLandUse	LotAcreage	9.15	5.47
tblLandUse	LotAcreage	4.74	2.86
tblLandUse	LotAcreage	17.63	0.00
tblLandUse	LotAcreage	2.74	0.80
tblLandUse	Population	1,916.00	1,115.00
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	158.00	131.00
tblOffRoadEquipment	HorsePower	130.00	188.00
tblOffRoadEquipment	HorsePower	80.00	86.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	85.00	350.00
tblOffRoadEquipment	HorsePower	158.00	101.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	367.00	365.00

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	308.20	179.40
tblTripsAndVMT	HaulingTripNumber	158.00	160.00
tblTripsAndVMT	HaulingTripNumber	112.00	163.00
tblTripsAndVMT	HaulingTripNumber	3,177.00	3,178.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	243.00	51.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	243.00	91.00
tblWater	IndoorWaterUseRate	43,653,197.17	25,410,069.99
tblWater	OutdoorWaterUseRate	27,520,493.87	16,019,391.95
tblWoodstoves	NumberCatalytic	33.50	19.50
tblWoodstoves	NumberNoncatalytic	33.50	19.50

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

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	9.2759	109.2263	67.4349	0.1943	11.9187	3.8737	15.7924	1.7867	3.5659	5.0624	0.0000	19,313.9056	19,313.9056	5.3671	0.6096	19,611.7042
2023	30.4131	110.2688	100.2587	0.3072	22.6720	3.8939	26.5658	4.3614	3.5882	7.9496	0.0000	30,782.9144	30,782.9144	6.0129	0.9652	31,220.8781
2024	8.0184	21.3038	41.1145	0.1340	10.8765	0.7110	11.5875	2.8976	0.6586	3.5562	0.0000	13,514.1301	13,514.1301	1.2956	0.4323	13,675.3441
2025	45.2117	12.9787	39.7895	0.1307	12.7878	0.4134	13.2012	3.4045	0.3930	3.7976	0.0000	13,230.1020	13,230.1020	0.6785	0.4491	13,380.8824
2026	2.8741	8.9040	29.4132	0.0991	10.4977	0.2911	10.7888	2.7914	0.2720	3.0634	0.0000	10,012.6628	10,012.6628	0.5554	0.2950	10,114.4563
2027	2.7644	8.7956	28.2848	0.0967	10.4977	0.2884	10.7862	2.7914	0.2695	3.0609	0.0000	9,770.5002	9,770.5002	0.5441	0.2856	9,869.2107
2028	39.0932	11.2038	35.1338	0.1153	12.5321	0.3964	12.9285	3.3309	0.3771	3.7081	0.0000	11,606.7789	11,606.7789	0.5898	0.3061	11,712.7408
Maximum	**45.2117**	**110.2688**	**100.2587**	**0.3072**	**22.6720**	**3.8939**	**26.5658**	**4.3614**	**3.5882**	**7.9496**	**0.0000**	**30,782.9144**	**30,782.9144**	**6.0129**	**0.9652**	**31,220.8781**

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

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Year	lb/day										lb/day					
2022	9.2759	109.2263	67.4349	0.1943	5.7316	3.8737	9.6053	0.9222	3.5659	4.3808	0.0000	19,313.9056	19,313.9056	5.3671	0.6096	19,611.7042
2023	30.4131	110.2688	100.2587	0.3072	15.6517	3.8939	19.5455	3.4753	3.5882	7.0635	0.0000	30,782.9143	30,782.9143	6.0129	0.9652	31,220.8781
2024	8.0184	21.3038	41.1145	0.1340	10.0336	0.7110	10.7447	2.6908	0.6586	3.3494	0.0000	13,514.1301	13,514.1301	1.2956	0.4323	13,675.3441
2025	45.2117	12.9787	39.7895	0.1307	11.7954	0.4134	12.2088	3.1610	0.3930	3.5540	0.0000	13,230.1020	13,230.1020	0.6785	0.4491	13,380.8824
2026	2.8741	8.9040	29.4132	0.0991	9.6809	0.2911	9.9720	2.5909	0.2720	2.8629	0.0000	10,012.6628	10,012.6628	0.5554	0.2950	10,114.4563
2027	2.7644	8.7956	28.2848	0.0967	9.6809	0.2884	9.9694	2.5909	0.2695	2.8604	0.0000	9,770.5002	9,770.5002	0.5441	0.2856	9,869.2107
2028	39.0932	11.2038	35.1338	0.1153	11.5561	0.3964	11.9525	3.0914	0.3771	3.4685	0.0000	11,606.7789	11,606.7789	0.5898	0.3061	11,712.7408
Maximum	**45.2117**	**110.2688**	**100.2587**	**0.3072**	**15.6517**	**3.8939**	**19.5455**	**3.4753**	**3.5882**	**7.0635**	**0.0000**	**30,782.9143**	**30,782.9143**	**6.0129**	**0.9652**	**31,220.8781**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**19.23**	**0.00**	**17.37**	**13.30**	**0.00**	**8.80**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	6/1/2022	9/30/2022	5	88	a
2	Asphalt Demolition	Demolition	7/1/2022	8/15/2022	5	32	c
3	Building Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	b
4	Asphalt Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	d
5	Site Preparation	Site Preparation	10/1/2022	2/15/2023	5	98	e
6	Site Preparation Soil Haul 2022	Site Preparation	10/1/2022	12/31/2022	5	65	f
7	Site Preparation Soil Haul 2023	Site Preparation	1/1/2023	2/15/2023	5	33	g
8	Retail and Residential Building A Building Construction	Building Construction	2/1/2023	9/30/2025	5	695	h
9	Retail Architectural Coating	Architectural Coating	10/15/2023	12/23/2023	5	50	i
10	Finishing and Landscaping	Trenching	4/1/2024	4/30/2024	5	22	l
11	Paving	Paving	4/1/2024	4/7/2024	5	5	k
12	Residential Building A Architectural Coating	Architectural Coating	7/1/2025	9/30/2025	5	66	j
13	Residential Building B Building Construction	Building Construction	2/1/2026	3/31/2028	5	565	m
14	Residential Building B Architectural Coating	Architectural Coating	1/15/2028	3/31/2028	5	55	n

Acres of Grading (Site Preparation Phase): 980

Acres of Grading (Grading Phase): 0

Acres of Paving: 15.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 179,123; Non-Residential Outdoor: 59,708; Striped Parking Area: 43,219

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition	Crushing/Proc. Equipment	1	8.00	350	0.78
Building Demolition	Excavators	2	8.00	131	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	0	8.00	158	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Excavators	1	8.00	101	0.38
Site Preparation	Graders	4	8.00	238	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Scrapers	8	8.00	365	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation Soil Haul 2022	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2022	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation Soil Haul 2023	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2023	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Retail and Residential Building A Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Retail and Residential Building A Building Construction	Cranes	1	8.00	300	0.29
Retail and Residential Building A Building Construction	Forklifts	0	8.00	89	0.20
Retail and Residential Building A Building Construction	Generator Sets	0	8.00	84	0.74
Retail and Residential Building A Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Retail and Residential Building A Building Construction	Welders	0	8.00	46	0.45
Retail Architectural Coating	Air Compressors	2	6.00	78	0.48
Residential Building A Architectural Coating	Air Compressors	2	6.00	78	0.48
Paving	Pavers	1	8.00	188	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	86	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Finishing and Landscaping	Graders	1	8.00	238	0.41
Residential Building B Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73
Residential Building B Building Construction	Cranes	1	8.00	300	0.29
Residential Building B Building Construction	Forklifts	0	8.00	89	0.20
Residential Building B Building Construction	Generator Sets	0	8.00	84	0.74
Residential Building B Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Residential Building B Building Construction	Welders	0	8.00	46	0.45
Residential Building B Architectural Coating	Air Compressors	2	6.00	78	0.48

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Building Demolition	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	0	0.00	0.00	160.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	0	0.00	0.00	163.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	14	35.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2022	0	0.00	0.00	3,178.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2023	0	0.00	0.00	1,613.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail and Residential Building A Building	3	910.00	91.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building A Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing and Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building B Building Construction	3	910.00	51.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building B Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Building 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					
Off-Road	1.7282	11.3102	12.7732	0.0358		0.4637	0.4637		0.4451	0.4451		3,866.6787	3,866.6787	0.4763		3,878.5869
Total	**1.7282**	**11.3102**	**12.7732**	**0.0358**		**0.4637**	**0.4637**		**0.4451**	**0.4451**		**3,866.6787**	**3,866.6787**	**0.4763**		**3,878.5869**

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6700e-003	9.0300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	0.0301	0.0202	0.3286	9.7000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		98.4712	98.4712	2.3200e-003	2.2100e-003	99.1885
Total	**0.0367**	**0.1997**	**0.3924**	**1.7300e-003**	**0.1374**	**2.3500e-003**	**0.1397**	**0.0370**	**2.2200e-003**	**0.0392**		**181.4142**	**181.4142**	**7.0700e-003**	**0.0141**	**185.7925**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.7282	11.3102	12.7732	0.0358		0.4637	0.4637		0.4451	0.4451	0.0000	3,866.6787	3,866.6787	0.4763		3,878.5869
Total	**1.7282**	**11.3102**	**12.7732**	**0.0358**		**0.4637**	**0.4637**		**0.4451**	**0.4451**	**0.0000**	**3,866.6787**	**3,866.6787**	**0.4763**		**3,878.5869**

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6700e-003	8.6300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	0.0301	0.0202	0.3286	9.7000e-004	0.1030	6.0000e-004	0.1036	0.0275	5.5000e-004	0.0281		98.4712	98.4712	2.3200e-003	2.2100e-003	99.1885
Total	**0.0367**	**0.1997**	**0.3924**	**1.7300e-003**	**0.1270**	**2.3500e-003**	**0.1293**	**0.0345**	**2.2200e-003**	**0.0367**		**181.4142**	**181.4142**	**7.0700e-003**	**0.0141**	**185.7925**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Asphalt 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					
Off-Road	0.1647	1.6756	2.2379	3.1100e-003		0.0901	0.0901		0.0829	0.0829		301.2390	301.2390	0.0974		303.6746
Total	**0.1647**	**1.6756**	**2.2379**	**3.1100e-003**		**0.0901**	**0.0901**		**0.0829**	**0.0829**		**301.2390**	**301.2390**	**0.0974**		**303.6746**

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6700e-003	9.0300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	9.0200e-003	6.0600e-003	0.0986	2.9000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		29.5414	29.5414	6.9000e-004	6.6000e-004	29.7566
Total	**0.0157**	**0.1855**	**0.1623**	**1.0500e-003**	**0.0591**	**1.9300e-003**	**0.0610**	**0.0163**	**1.8400e-003**	**0.0181**		**112.4844**	**112.4844**	**5.4400e-003**	**0.0126**	**116.3606**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1647	1.6756	2.2379	3.1100e-003		0.0901	0.0901		0.0829	0.0829	0.0000	301.2390	301.2390	0.0974		303.6746
Total	**0.1647**	**1.6756**	**2.2379**	**3.1100e-003**		**0.0901**	**0.0901**		**0.0829**	**0.0829**	**0.0000**	**301.2390**	**301.2390**	**0.0974**		**303.6746**

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6700e-003	8.6300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	9.0200e-003	6.0600e-003	0.0986	2.9000e-004	0.0309	1.8000e-004	0.0311	8.2500e-003	1.7000e-004	8.4200e-003		29.5414	29.5414	6.9000e-004	6.6000e-004	29.7566
Total	**0.0157**	**0.1855**	**0.1623**	**1.0500e-003**	**0.0549**	**1.9300e-003**	**0.0568**	**0.0152**	**1.8400e-003**	**0.0171**		**112.4844**	**112.4844**	**5.4400e-003**	**0.0126**	**116.3606**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Demolition Debris Haul - 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					5.7064	0.0000	5.7064	0.8640	0.0000	0.8640			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.7064**	**0.0000**	**5.7064**	**0.8640**	**0.0000**	**0.8640**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1080	4.1518	1.1662	0.0159	0.4651	0.0314	0.4965	0.1274	0.0301	0.1574		1,802.9238	1,802.9238	0.1719	0.2888	1,893.2714
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	0.0000	0.0000	0.0000	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	**0.1080**	**4.1518**	**1.1662**	**0.0159**	**0.4651**	**0.0314**	**0.4965**	**0.1274**	**0.0301**	**0.1574**		**1,802.9238**	**1,802.9238**	**0.1719**	**0.2888**	**1,893.2714**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4395	0.0000	2.4395	0.3694	0.0000	0.3694			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.4395**	**0.0000**	**2.4395**	**0.3694**	**0.0000**	**0.3694**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1080	4.1518	1.1662	0.0159	0.4334	0.0314	0.4648	0.1196	0.0301	0.1496		1,802.9238	1,802.9238	0.1719	0.2888	1,893.2714
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	0.0000	0.0000	0.0000	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	**0.1080**	**4.1518**	**1.1662**	**0.0159**	**0.4334**	**0.0314**	**0.4648**	**0.1196**	**0.0301**	**0.1496**		**1,802.9238**	**1,802.9238**	**0.1719**	**0.2888**	**1,893.2714**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Asphalt Demolition Debris Haul - 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					4.0444	0.0000	4.0444	0.6124	0.0000	0.6124			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**4.0444**	**0.0000**	**4.0444**	**0.6124**	**0.0000**	**0.6124**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1100	4.2296	1.1881	0.0162	0.4738	0.0320	0.5058	0.1298	0.0306	0.1604		1,836.7286	1,836.7286	0.1751	0.2942	1,928.7702
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	0.0000	0.0000	0.0000	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	**0.1100**	**4.2296**	**1.1881**	**0.0162**	**0.4738**	**0.0320**	**0.5058**	**0.1298**	**0.0306**	**0.1604**		**1,836.7286**	**1,836.7286**	**0.1751**	**0.2942**	**1,928.7702**

Mitigated Construction On-Site

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Fugitive Dust					1.7290	0.0000	1.7290	0.2618	0.0000	0.2618			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.7290**	**0.0000**	**1.7290**	**0.2618**	**0.0000**	**0.2618**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1100	4.2296	1.1881	0.0162	0.4415	0.0320	0.4735	0.1218	0.0306	0.1524		1,836.7286	1,836.7286	0.1751	0.2942	1,928.7702
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	0.0000	0.0000	0.0000	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	**0.1100**	**4.2296**	**1.1881**	**0.0162**	**0.4415**	**0.0320**	**0.4735**	**0.1218**	**0.0306**	**0.1524**		**1,836.7286**	**1,836.7286**	**0.1751**	**0.2942**	**1,928.7702**

3.6 Site Preparation - 2022

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					10.6050	0.0000	10.6050	1.1451	0.0000	1.1451			0.0000			0.0000
Off-Road	8.9659	101.3640	64.0828	0.1609		3.8122	3.8122		3.5072	3.5072		15,580.7221	15,580.7221	5.0391		15,706.7002
Total	**8.9659**	**101.3640**	**64.0828**	**0.1609**	**10.6050**	**3.8122**	**14.4172**	**1.1451**	**3.5072**	**4.6523**		**15,580.7221**	**15,580.7221**	**5.0391**		**15,706.7002**

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6700e-003	9.0300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	0.1053	0.0707	1.1502	3.4100e-003	0.3912	2.1100e-003	0.3933	0.1038	1.9400e-003	0.1057		344.6490	344.6490	8.1100e-003	7.7500e-003	347.1598
Total	**0.1119**	**0.2502**	**1.2140**	**4.1700e-003**	**0.4168**	**3.8600e-003**	**0.4207**	**0.1111**	**3.6100e-003**	**0.1147**		**427.5921**	**427.5921**	**0.0129**	**0.0196**	**433.7638**

Mitigated Construction On-Site

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Fugitive Dust					4.5336	0.0000	4.5336	0.4895	0.0000	0.4895			0.0000			0.0000
Off-Road	8.9659	101.3640	64.0828	0.1609		3.8122	3.8122		3.5072	3.5072	0.0000	15,580.7221	15,580.7221	5.0391		15,706.7002
Total	**8.9659**	**101.3640**	**64.0828**	**0.1609**	**4.5336**	**3.8122**	**8.3459**	**0.4895**	**3.5072**	**3.9968**	**0.0000**	**15,580.7221**	**15,580.7221**	**5.0391**		**15,706.7002**

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6700e-003	8.6300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	0.1053	0.0707	1.1502	3.4100e-003	0.3606	2.1100e-003	0.3627	0.0962	1.9400e-003	0.0982		344.6490	344.6490	8.1100e-003	7.7500e-003	347.1598
Total	**0.1119**	**0.2502**	**1.2140**	**4.1700e-003**	**0.3846**	**3.8600e-003**	**0.3884**	**0.1032**	**3.6100e-003**	**0.1068**		**427.5921**	**427.5921**	**0.0129**	**0.0196**	**433.7638**

3.6 Site Preparation - 2023

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					10.6050	0.0000	10.6050	1.1451	0.0000	1.1451			0.0000			0.0000
Off-Road	8.5191	92.7414	62.0147	0.1609		3.5061	3.5061		3.2256	3.2256		15,577.2716	15,577.2716	5.0380		15,703.2217
Total	**8.5191**	**92.7414**	**62.0147**	**0.1609**	**10.6050**	**3.5061**	**14.1111**	**1.1451**	**3.2256**	**4.3707**		**15,577.2716**	**15,577.2716**	**5.0380**		**15,703.2217**

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	4.0400e-003	0.1402	0.0581	7.2000e-004	0.0256	7.2000e-004	0.0263	7.3600e-003	6.9000e-004	8.0500e-003		78.9798	78.9798	4.7000e-003	0.0113	82.4743
Worker	0.0986	0.0631	1.0688	3.3000e-003	0.3912	1.9900e-003	0.3932	0.1038	1.8400e-003	0.1056		333.6766	333.6766	7.3300e-003	7.2100e-003	336.0081
Total	**0.1026**	**0.2032**	**1.1270**	**4.0200e-003**	**0.4168**	**2.7100e-003**	**0.4195**	**0.1111**	**2.5300e-003**	**0.1136**		**412.6563**	**412.6563**	**0.0120**	**0.0185**	**418.4823**

Mitigated Construction On-Site

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Fugitive Dust					4.5336	0.0000	4.5336	0.4895	0.0000	0.4895			0.0000			0.0000
Off-Road	8.5191	92.7414	62.0147	0.1609		3.5061	3.5061		3.2256	3.2256	0.0000	15,577.2716	15,577.2716	5.0380		15,703.2217
Total	**8.5191**	**92.7414**	**62.0147**	**0.1609**	**4.5336**	**3.5061**	**8.0398**	**0.4895**	**3.2256**	**3.7152**	**0.0000**	**15,577.2716**	**15,577.2716**	**5.0380**		**15,703.2217**

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	4.0400e-003	0.1402	0.0581	7.2000e-004	0.0239	7.2000e-004	0.0247	6.9600e-003	6.9000e-004	7.6500e-003		78.9798	78.9798	4.7000e-003	0.0113	82.4743
Worker	0.0986	0.0631	1.0688	3.3000e-003	0.3606	1.9900e-003	0.3626	0.0962	1.8400e-003	0.0981		333.6766	333.6766	7.3300e-003	7.2100e-003	336.0081
Total	**0.1026**	**0.2032**	**1.1270**	**4.0200e-003**	**0.3845**	**2.7100e-003**	**0.3873**	**0.1032**	**2.5300e-003**	**0.1057**		**412.6563**	**412.6563**	**0.0120**	**0.0185**	**418.4823**

3.7 Site Preparation Soil Haul 2022 - 2022

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0442	0.0000	0.0442	6.7000e-003	0.0000	6.7000e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0442**	**0.0000**	**0.0442**	**6.7000e-003**	**0.0000**	**6.7000e-003**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1981	7.6121	2.1382	0.0292	0.8527	0.0576	0.9103	0.2335	0.0551	0.2886		3,305.5914	3,305.5914	0.3151	0.5294	3,471.2402
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	0.0000	0.0000	0.0000	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	**0.1981**	**7.6121**	**2.1382**	**0.0292**	**0.8527**	**0.0576**	**0.9103**	**0.2335**	**0.0551**	**0.2886**		**3,305.5914**	**3,305.5914**	**0.3151**	**0.5294**	**3,471.2402**

Mitigated Construction On-Site

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Fugitive Dust					0.0189	0.0000	0.0189	2.8600e-003	0.0000	2.8600e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0189**	**0.0000**	**0.0189**	**2.8600e-003**	**0.0000**	**2.8600e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1981	7.6121	2.1382	0.0292	0.7945	0.0576	0.8521	0.2192	0.0551	0.2743		3,305.5914	3,305.5914	0.3151	0.5294	3,471.2402
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	0.0000	0.0000	0.0000	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	**0.1981**	**7.6121**	**2.1382**	**0.0292**	**0.7945**	**0.0576**	**0.8521**	**0.2192**	**0.0551**	**0.2743**		**3,305.5914**	**3,305.5914**	**0.3151**	**0.5294**	**3,471.2402**

3.8 Site Preparation Soil Haul 2023 - 2023

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0442	0.0000	0.0442	6.7000e-003	0.0000	6.7000e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0442**	**0.0000**	**0.0442**	**6.7000e-003**	**0.0000**	**6.7000e-003**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1019	5.8250	1.9968	0.0274	0.8524	0.0375	0.8899	0.2334	0.0359	0.2693		3,126.0457	3,126.0457	0.3154	0.5015	3,283.3653
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	0.0000	0.0000	0.0000	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	**0.1019**	**5.8250**	**1.9968**	**0.0274**	**0.8524**	**0.0375**	**0.8899**	**0.2334**	**0.0359**	**0.2693**		**3,126.0457**	**3,126.0457**	**0.3154**	**0.5015**	**3,283.3653**

Mitigated Construction On-Site

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Fugitive Dust					0.0189	0.0000	0.0189	2.8600e-003	0.0000	2.8600e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0189**	**0.0000**	**0.0189**	**2.8600e-003**	**0.0000**	**2.8600e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1019	5.8250	1.9968	0.0274	0.7943	0.0375	0.8318	0.2192	0.0359	0.2550		3,126.0457	3,126.0457	0.3154	0.5015	3,283.3653
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	0.0000	0.0000	0.0000	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	**0.1019**	**5.8250**	**1.9968**	**0.0274**	**0.7943**	**0.0375**	**0.8318**	**0.2192**	**0.0359**	**0.2550**		**3,126.0457**	**3,126.0457**	**0.3154**	**0.5015**	**3,283.3653**

3.9 Retail and Residential Building A Building Construction - 2023

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.7168	6.6706	6.0084	0.0127		0.2793	0.2793		0.2608	0.2608		1,194.5600	1,194.5600	0.3500		1,203.3096
Total	**0.7168**	**6.6706**	**6.0084**	**0.0127**		**0.2793**	**0.2793**		**0.2608**	**0.2608**		**1,194.5600**	**1,194.5600**	**0.3500**		**1,203.3096**

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	0.0919	3.1892	1.3223	0.0164	0.5819	0.0164	0.5982	0.1675	0.0157	0.1831		1,796.7894	1,796.7894	0.1068	0.2578	1,876.2894
Worker	2.5625	1.6392	27.7896	0.0858	10.1717	0.0519	10.2235	2.6976	0.0477	2.7453		8,675.5913	8,675.5913	0.1907	0.1874	8,736.2098
Total	**2.6544**	**4.8284**	**29.1118**	**0.1022**	**10.7535**	**0.0682**	**10.8217**	**2.8650**	**0.0634**	**2.9284**		**10,472.3807**	**10,472.3807**	**0.2975**	**0.4452**	**10,612.4992**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7168	6.6706	6.0084	0.0127		0.2793	0.2793		0.2608	0.2608	0.0000	1,194.5600	1,194.5600	0.3500		1,203.3096
Total	**0.7168**	**6.6706**	**6.0084**	**0.0127**		**0.2793**	**0.2793**		**0.2608**	**0.2608**	**0.0000**	**1,194.5600**	**1,194.5600**	**0.3500**		**1,203.3096**

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	0.0919	3.1892	1.3223	0.0164	0.5445	0.0164	0.5609	0.1583	0.0157	0.1740		1,796.7894	1,796.7894	0.1068	0.2578	1,876.2894
Worker	2.5625	1.6392	27.7896	0.0858	9.3758	0.0519	9.4276	2.5022	0.0477	2.5500		8,675.5913	8,675.5913	0.1907	0.1874	8,736.2098
Total	**2.6544**	**4.8284**	**29.1118**	**0.1022**	**9.9203**	**0.0682**	**9.9885**	**2.6605**	**0.0634**	**2.7239**		**10,472.3807**	**10,472.3807**	**0.2975**	**0.4452**	**10,612.4992**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Retail and Residential Building A Building Construction - 2024

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	0.7005	6.3874	5.8937	0.0127		0.2619	0.2619		0.2448	0.2448		1,194.4011	1,194.4011	0.3499		1,203.1493
Total	**0.7005**	**6.3874**	**5.8937**	**0.0127**		**0.2619**	**0.2619**		**0.2448**	**0.2448**		**1,194.4011**	**1,194.4011**	**0.3499**		**1,203.1493**

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	0.0905	3.1798	1.3124	0.0161	0.5819	0.0171	0.5990	0.1675	0.0164	0.1838		1,768.9159	1,768.9159	0.1080	0.2549	1,847.5728
Worker	2.4080	1.4722	25.8584	0.0831	10.1717	0.0493	10.2209	2.6976	0.0453	2.7429		8,400.0728	8,400.0728	0.1729	0.1753	8,456.6292
Total	**2.4985**	**4.6520**	**27.1709**	**0.0992**	**10.7535**	**0.0664**	**10.8199**	**2.8650**	**0.0617**	**2.9267**		**10,168.9887**	**10,168.9887**	**0.2808**	**0.4302**	**10,304.2020**

Mitigated Construction On-Site

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Off-Road	0.7005	6.3874	5.8937	0.0127		0.2619	0.2619		0.2448	0.2448	0.0000	1,194.4011	1,194.4011	0.3499		1,203.1493
Total	**0.7005**	**6.3874**	**5.8937**	**0.0127**		**0.2619**	**0.2619**		**0.2448**	**0.2448**	**0.0000**	**1,194.4011**	**1,194.4011**	**0.3499**		**1,203.1493**

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	0.0905	3.1798	1.3124	0.0161	0.5445	0.0171	0.5616	0.1583	0.0164	0.1747		1,768.9159	1,768.9159	0.1080	0.2549	1,847.5728
Worker	2.4080	1.4722	25.8584	0.0831	9.3758	0.0493	9.4250	2.5022	0.0453	2.5476		8,400.0728	8,400.0728	0.1729	0.1753	8,456.6292
Total	**2.4985**	**4.6520**	**27.1709**	**0.0992**	**9.9203**	**0.0664**	**9.9867**	**2.6605**	**0.0617**	**2.7222**		**10,168.9887**	**10,168.9887**	**0.2808**	**0.4302**	**10,304.2020**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Retail and Residential Building A Building Construction - 2025

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0892	3.1641	1.3072	0.0158	0.5819	0.0172	0.5991	0.1675	0.0165	0.1839		1,735.8000	1,735.8000	0.1093	0.2512	1,813.3847
Worker	2.2729	1.3334	24.2735	0.0803	10.1717	0.0471	10.2187	2.6976	0.0433	2.7409		8,114.0568	8,114.0568	0.1570	0.1649	8,167.1224
Total	**2.3621**	**4.4976**	**25.5807**	**0.0960**	**10.7535**	**0.0643**	**10.8178**	**2.8650**	**0.0598**	**2.9248**		**9,849.8568**	**9,849.8568**	**0.2664**	**0.4161**	**9,980.5071**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0892	3.1641	1.3072	0.0158	0.5445	0.0172	0.5617	0.1583	0.0165	0.1748		1,735.8000	1,735.8000	0.1093	0.2512	1,813.3847
Worker	2.2729	1.3334	24.2735	0.0803	9.3758	0.0471	9.4229	2.5022	0.0433	2.5455		8,114.0568	8,114.0568	0.1570	0.1649	8,167.1224
Total	**2.3621**	**4.4976**	**25.5807**	**0.0960**	**9.9203**	**0.0643**	**9.9846**	**2.6605**	**0.0598**	**2.7203**		**9,849.8568**	**9,849.8568**	**0.2664**	**0.4161**	**9,980.5071**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Retail 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	26.1460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3833	2.6060	3.6222	5.9400e-003		0.1416	0.1416		0.1416	0.1416		562.8961	562.8961	0.0337		563.7380
Total	**26.5294**	**2.6060**	**3.6222**	**5.9400e-003**		**0.1416**	**0.1416**		**0.1416**	**0.1416**		**562.8961**	**562.8961**	**0.0337**		**563.7380**

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	0.5125	0.3279	5.5579	0.0172	2.0343	0.0104	2.0447	0.5395	9.5500e-003	0.5491		1,735.1183	1,735.1183	0.0381	0.0375	1,747.2420
Total	**0.5125**	**0.3279**	**5.5579**	**0.0172**	**2.0343**	**0.0104**	**2.0447**	**0.5395**	**9.5500e-003**	**0.5491**		**1,735.1183**	**1,735.1183**	**0.0381**	**0.0375**	**1,747.2420**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	26.1460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3833	2.6060	3.6222	5.9400e-003		0.1416	0.1416		0.1416	0.1416	0.0000	562.8961	562.8961	0.0337		563.7380
Total	**26.5294**	**2.6060**	**3.6222**	**5.9400e-003**		**0.1416**	**0.1416**		**0.1416**	**0.1416**	**0.0000**	**562.8961**	**562.8961**	**0.0337**		**563.7380**

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	0.5125	0.3279	5.5579	0.0172	1.8752	0.0104	1.8855	0.5004	9.5500e-003	0.5100		1,735.1183	1,735.1183	0.0381	0.0375	1,747.2420
Total	**0.5125**	**0.3279**	**5.5579**	**0.0172**	**1.8752**	**0.0104**	**1.8855**	**0.5004**	**9.5500e-003**	**0.5100**		**1,735.1183**	**1,735.1183**	**0.0381**	**0.0375**	**1,747.2420**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Finishing and Landscaping - 2024

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	0.4513	5.2891	2.1082	8.4200e-003		0.1715	0.1715		0.1578	0.1578		815.1913	815.1913	0.2637		821.7826
Total	**0.4513**	**5.2891**	**2.1082**	**8.4200e-003**		**0.1715**	**0.1715**		**0.1578**	**0.1578**		**815.1913**	**815.1913**	**0.2637**		**821.7826**

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	7.9400e-003	4.8500e-003	0.0853	2.7000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		27.6926	27.6926	5.7000e-004	5.8000e-004	27.8790
Total	**7.9400e-003**	**4.8500e-003**	**0.0853**	**2.7000e-004**	**0.0335**	**1.6000e-004**	**0.0337**	**8.8900e-003**	**1.5000e-004**	**9.0400e-003**		**27.6926**	**27.6926**	**5.7000e-004**	**5.8000e-004**	**27.8790**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4513	5.2891	2.1082	8.4200e-003		0.1715	0.1715		0.1578	0.1578	0.0000	815.1913	815.1913	0.2637		821.7826
Total	**0.4513**	**5.2891**	**2.1082**	**8.4200e-003**		**0.1715**	**0.1715**		**0.1578**	**0.1578**	**0.0000**	**815.1913**	**815.1913**	**0.2637**		**821.7826**

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	7.9400e-003	4.8500e-003	0.0853	2.7000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		27.6926	27.6926	5.7000e-004	5.8000e-004	27.8790
Total	**7.9400e-003**	**4.8500e-003**	**0.0853**	**2.7000e-004**	**0.0309**	**1.6000e-004**	**0.0311**	**8.2500e-003**	**1.5000e-004**	**8.4000e-003**		**27.6926**	**27.6926**	**5.7000e-004**	**5.8000e-004**	**27.8790**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Paving - 2024

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	0.4666	4.9575	5.6292	0.0128		0.2106	0.2106		0.1938	0.1938		1,234.0097	1,234.0097	0.3991		1,243.9873
Paving	3.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3390**	**4.9575**	**5.6292**	**0.0128**		**0.2106**	**0.2106**		**0.1938**	**0.1938**		**1,234.0097**	**1,234.0097**	**0.3991**		**1,243.9873**

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	0.0212	0.0129	0.2273	7.3000e-004	0.0894	4.3000e-004	0.0899	0.0237	4.0000e-004	0.0241		73.8468	73.8468	1.5200e-003	1.5400e-003	74.3440
Total	**0.0212**	**0.0129**	**0.2273**	**7.3000e-004**	**0.0894**	**4.3000e-004**	**0.0899**	**0.0237**	**4.0000e-004**	**0.0241**		**73.8468**	**73.8468**	**1.5200e-003**	**1.5400e-003**	**74.3440**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4666	4.9575	5.6292	0.0128		0.2106	0.2106		0.1938	0.1938	0.0000	1,234.0097	1,234.0097	0.3991		1,243.9873
Paving	3.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3390**	**4.9575**	**5.6292**	**0.0128**		**0.2106**	**0.2106**		**0.1938**	**0.1938**	**0.0000**	**1,234.0097**	**1,234.0097**	**0.3991**		**1,243.9873**

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	0.0212	0.0129	0.2273	7.3000e-004	0.0824	4.3000e-004	0.0829	0.0220	4.0000e-004	0.0224		73.8468	73.8468	1.5200e-003	1.5400e-003	74.3440
Total	**0.0212**	**0.0129**	**0.2273**	**7.3000e-004**	**0.0824**	**4.3000e-004**	**0.0829**	**0.0220**	**4.0000e-004**	**0.0224**		**73.8468**	**73.8468**	**1.5200e-003**	**1.5400e-003**	**74.3440**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Residential Building A Architectural Coating - 2025

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	41.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**41.7249**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.4546	0.2667	4.8547	0.0161	2.0343	9.4100e-003	2.0437	0.5395	8.6600e-003	0.5482		1,622.8114	1,622.8114	0.0314	0.0330	1,633.4245
Total	**0.4546**	**0.2667**	**4.8547**	**0.0161**	**2.0343**	**9.4100e-003**	**2.0437**	**0.5395**	**8.6600e-003**	**0.5482**		**1,622.8114**	**1,622.8114**	**0.0314**	**0.0330**	**1,633.4245**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	41.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**41.7249**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.4546	0.2667	4.8547	0.0161	1.8752	9.4100e-003	1.8846	0.5004	8.6600e-003	0.5091		1,622.8114	1,622.8114	0.0314	0.0330	1,633.4245
Total	**0.4546**	**0.2667**	**4.8547**	**0.0161**	**1.8752**	**9.4100e-003**	**1.8846**	**0.5004**	**8.6600e-003**	**0.5091**		**1,622.8114**	**1,622.8114**	**0.0314**	**0.0330**	**1,633.4245**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.14 Residential Building B Building Construction - 2026

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0493	1.7606	0.7303	8.6400e-003	0.3261	9.6500e-003	0.3357	0.0939	9.2300e-003	0.1031		954.1695	954.1695	0.0620	0.1386	997.0258
Worker	2.1548	1.2200	22.9470	0.0778	10.1717	0.0448	10.2164	2.6976	0.0412	2.7388		7,863.9556	7,863.9556	0.1435	0.1564	7,914.1434
Total	**2.2040**	**2.9806**	**23.6773**	**0.0864**	**10.4977**	**0.0544**	**10.5522**	**2.7914**	**0.0504**	**2.8418**		**8,818.1250**	**8,818.1250**	**0.2054**	**0.2950**	**8,911.1692**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0493	1.7606	0.7303	8.6400e-003	0.3052	9.6500e-003	0.3148	0.0887	9.2300e-003	0.0979		954.1695	954.1695	0.0620	0.1386	997.0258
Worker	2.1548	1.2200	22.9470	0.0778	9.3758	0.0448	9.4206	2.5022	0.0412	2.5434		7,863.9556	7,863.9556	0.1435	0.1564	7,914.1434
Total	**2.2040**	**2.9806**	**23.6773**	**0.0864**	**9.6809**	**0.0544**	**9.7354**	**2.5909**	**0.0504**	**2.6414**		**8,818.1250**	**8,818.1250**	**0.2054**	**0.2950**	**8,911.1692**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.14 Residential Building B Building Construction - 2027

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0486	1.7474	0.7281	8.4500e-003	0.3261	9.6200e-003	0.3357	0.0939	9.2000e-003	0.1031		934.6434	934.6434	0.0624	0.1363	976.8227
Worker	2.0457	1.1248	21.8209	0.0756	10.1717	0.0421	10.2138	2.6976	0.0388	2.7363		7,641.3191	7,641.3191	0.1318	0.1493	7,689.1009
Total	**2.0943**	**2.8722**	**22.5490**	**0.0841**	**10.4977**	**0.0518**	**10.5495**	**2.7914**	**0.0480**	**2.8394**		**8,575.9625**	**8,575.9625**	**0.1942**	**0.2856**	**8,665.9236**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0486	1.7474	0.7281	8.4500e-003	0.3051	9.6200e-003	0.3148	0.0887	9.2000e-003	0.0979		934.6434	934.6434	0.0624	0.1363	976.8227
Worker	2.0457	1.1248	21.8209	0.0756	9.3758	0.0421	9.4179	2.5022	0.0388	2.5410		7,641.3191	7,641.3191	0.1318	0.1493	7,689.1009
Total	**2.0943**	**2.8722**	**22.5490**	**0.0841**	**9.6809**	**0.0518**	**9.7327**	**2.5909**	**0.0480**	**2.6389**		**8,575.9625**	**8,575.9625**	**0.1942**	**0.2856**	**8,665.9236**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.14 Residential Building B Building Construction - 2028

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0480	1.7356	0.7276	8.2700e-003	0.3261	9.5900e-003	0.3357	0.0938	9.1700e-003	0.1030		915.9989	915.9989	0.0630	0.1341	957.5225
Worker	1.9441	1.0448	20.8767	0.0737	10.1717	0.0393	10.2110	2.6976	0.0362	2.7337		7,444.4550	7,444.4550	0.1217	0.1434	7,490.2228
Total	**1.9921**	**2.7804**	**21.6043**	**0.0819**	**10.4977**	**0.0489**	**10.5466**	**2.7914**	**0.0453**	**2.8368**		**8,360.4540**	**8,360.4540**	**0.1847**	**0.2774**	**8,447.7454**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0480	1.7356	0.7276	8.2700e-003	0.3051	9.5900e-003	0.3147	0.0887	9.1700e-003	0.0979		915.9989	915.9989	0.0630	0.1341	957.5225
Worker	1.9441	1.0448	20.8767	0.0737	9.3758	0.0393	9.4151	2.5022	0.0362	2.5384		7,444.4550	7,444.4550	0.1217	0.1434	7,490.2228
Total	**1.9921**	**2.7804**	**21.6043**	**0.0819**	**9.6809**	**0.0489**	**9.7298**	**2.5909**	**0.0453**	**2.6363**		**8,360.4540**	**8,360.4540**	**0.1847**	**0.2774**	**8,447.7454**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.15 Residential Building B Architectural Coating - 2028

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	35.7005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**36.0422**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.3888	0.2090	4.1753	0.0147	2.0343	7.8600e-003	2.0422	0.5395	7.2300e-003	0.5468		1,488.8910	1,488.8910	0.0244	0.0287	1,498.0446
Total	**0.3888**	**0.2090**	**4.1753**	**0.0147**	**2.0343**	**7.8600e-003**	**2.0422**	**0.5395**	**7.2300e-003**	**0.5468**		**1,488.8910**	**1,488.8910**	**0.0244**	**0.0287**	**1,498.0446**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	35.7005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**36.0422**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.3888	0.2090	4.1753	0.0147	1.8752	7.8600e-003	1.8830	0.5004	7.2300e-003	0.5077		1,488.8910	1,488.8910	0.0244	0.0287	1,498.0446
Total	**0.3888**	**0.2090**	**4.1753**	**0.0147**	**1.8752**	**7.8600e-003**	**1.8830**	**0.5004**	**7.2300e-003**	**0.5077**		**1,488.8910**	**1,488.8910**	**0.0244**	**0.0287**	**1,498.0446**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Brea Mall Mixed-Use Project (Option 2) Construction Run

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	398.50	1000sqft	5.47	398,500.00	0
Other Asphalt Surfaces	192.00	1000sqft	4.41	192,000.00	0
Other Non-Asphalt Surfaces	206.53	1000sqft	2.86	206,533.70	0
Parking Lot	129.81	1000sqft	2.98	129,809.00	0
Apartments Mid Rise	670.00	Dwelling Unit	0.00	750,300.00	1115
Regional Shopping Center	119.42	1000sqft	0.80	119,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - structures are comprised of multiple stories

Construction Phase - based on information provided by applicant. see project description for construction durations

Off-road Equipment - based on information provided by the applicant

Off-road Equipment - no additional equipment required for asphalt demolition debris haul

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - based on information provided by applicant

Off-road Equipment - no additional equipment required for building demolition haul

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - no additional equipment required for site preparation soil haul

Off-road Equipment - no additional equipment required for site preparation soil haul

Trips and VMT - assumes 4 vt/water truck/day. Assumes that 2 dump trucks will be used for asphalt demo haul. Building Construction and Arch Coat are calculated based on CalEEMod Appendix A rates.

Demolition -

Grading -

Architectural Coating - see assumptions file for calculations. Parking only accounts for parking area and driveways

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and SCAQMD Rule 1186

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	59,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	59,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	179,123.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	179,123.00	0.00

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblArchitecturalCoating	ConstArea_Parking	55,611.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,611.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,611.00	43,219.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	211,815.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	294,638.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	635,445.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	883,913.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	59708	123708
tblAreaCoating	Area_Nonresidential_Interior	179123	371123
tblAreaCoating	Area_Parking	55611	55400
tblAreaCoating	Area_Residential_Exterior	506453	294638
tblAreaCoating	Area_Residential_Interior	1519358	883913
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	300.00	565.00
tblConstructionPhase	NumDays	300.00	695.00
tblConstructionPhase	NumDays	20.00	88.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	98.00

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	NumDays	10.00	33.00
tblFireplaces	NumberGas	569.50	331.50
tblFireplaces	NumberNoFireplace	67.00	39.00
tblFireplaces	NumberWood	33.50	19.50
tblGrading	MaterialExported	0.00	25,416.00
tblGrading	MaterialExported	0.00	12,904.00
tblLandUse	LandUseSquareFeet	206,530.00	206,533.70
tblLandUse	LandUseSquareFeet	129,810.00	129,809.00
tblLandUse	LandUseSquareFeet	670,000.00	750,300.00
tblLandUse	LandUseSquareFeet	119,420.00	119,415.00
tblLandUse	LotAcreage	9.15	5.47
tblLandUse	LotAcreage	4.74	2.86
tblLandUse	LotAcreage	17.63	0.00
tblLandUse	LotAcreage	2.74	0.80
tblLandUse	Population	1,916.00	1,115.00
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	158.00	131.00
tblOffRoadEquipment	HorsePower	130.00	188.00
tblOffRoadEquipment	HorsePower	80.00	86.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	85.00	350.00
tblOffRoadEquipment	HorsePower	158.00	101.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	HorsePower	367.00	365.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	308.20	179.40
tblTripsAndVMT	HaulingTripNumber	158.00	160.00
tblTripsAndVMT	HaulingTripNumber	112.00	163.00
tblTripsAndVMT	HaulingTripNumber	3,177.00	3,178.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	243.00	51.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	243.00	91.00
tblWater	IndoorWaterUseRate	43,653,197.17	25,410,069.99
tblWater	OutdoorWaterUseRate	27,520,493.87	16,019,391.95
tblWoodstoves	NumberCatalytic	33.50	19.50
tblWoodstoves	NumberNoncatalytic	33.50	19.50

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

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	9.2804	109.5393	67.3886	0.1941	11.9187	3.8738	15.7925	1.7867	3.5661	5.0625	0.0000	19,298.1933	19,298.1933	5.3669	0.6100	19,596.1826
2023	30.6955	110.8320	98.3497	0.3030	22.6720	3.8941	26.5661	4.3614	3.5884	7.9498	0.0000	30,357.7699	30,357.7699	6.0171	0.9788	30,799.8641
2024	8.2504	21.5916	39.3918	0.1300	10.8765	0.7111	11.5876	2.8976	0.6587	3.5563	0.0000	13,110.9979	13,110.9979	1.2998	0.4442	13,275.8515
2025	45.4806	13.2766	37.8846	0.1261	12.7878	0.4135	13.2013	3.4045	0.3931	3.7976	0.0000	12,768.9921	12,768.9921	0.6833	0.4622	12,923.7969
2026	3.0946	9.1019	27.9122	0.0954	10.4977	0.2911	10.7889	2.7914	0.2720	3.0634	0.0000	9,640.1619	9,640.1619	0.5593	0.3052	9,745.0868
2027	2.9796	8.9836	26.8651	0.0931	10.4977	0.2885	10.7862	2.7914	0.2696	3.0610	0.0000	9,408.9554	9,408.9554	0.5478	0.2953	9,510.6483
2028	39.3448	11.4037	33.5063	0.1111	12.5321	0.3965	12.9285	3.3309	0.3772	3.7081	0.0000	11,184.1002	11,184.1002	0.5940	0.3172	11,293.4739
Maximum	**45.4806**	**110.8320**	**98.3497**	**0.3030**	**22.6720**	**3.8941**	**26.5661**	**4.3614**	**3.5884**	**7.9498**	**0.0000**	**30,357.7699**	**30,357.7699**	**6.0171**	**0.9788**	**30,799.8641**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	9.2804	109.5393	67.3886	0.1941	5.7316	3.8738	9.6054	0.9222	3.5661	4.3809	0.0000	19,298.1933	19,298.1933	5.3669	0.6100	19,596.1826
2023	30.6955	110.8320	98.3497	0.3030	15.6517	3.8941	19.5457	3.4753	3.5884	7.0637	0.0000	30,357.7699	30,357.7699	6.0171	0.9788	30,799.8641
2024	8.2504	21.5916	39.3918	0.1300	10.0336	0.7111	10.7447	2.6908	0.6587	3.3495	0.0000	13,110.9979	13,110.9979	1.2998	0.4442	13,275.8515
2025	45.4806	13.2766	37.8846	0.1261	11.7954	0.4135	12.2089	3.1610	0.3931	3.5541	0.0000	12,768.9921	12,768.9921	0.6833	0.4622	12,923.7969
2026	3.0946	9.1019	27.9122	0.0954	9.6809	0.2911	9.9721	2.5909	0.2720	2.8629	0.0000	9,640.1619	9,640.1619	0.5593	0.3052	9,745.0868
2027	2.9796	8.9836	26.8651	0.0931	9.6809	0.2885	9.9694	2.5909	0.2696	2.8605	0.0000	9,408.9554	9,408.9554	0.5478	0.2953	9,510.6483
2028	39.3448	11.4037	33.5063	0.1111	11.5561	0.3965	11.9526	3.0914	0.3772	3.4685	0.0000	11,184.1002	11,184.1002	0.5940	0.3172	11,293.4739
Maximum	**45.4806**	**110.8320**	**98.3497**	**0.3030**	**15.6517**	**3.8941**	**19.5457**	**3.4753**	**3.5884**	**7.0637**	**0.0000**	**30,357.7699**	**30,357.7699**	**6.0171**	**0.9788**	**30,799.8641**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**19.23**	**0.00**	**17.37**	**13.30**	**0.00**	**8.80**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	6/1/2022	9/30/2022	5	88	a
2	Asphalt Demolition	Demolition	7/1/2022	8/15/2022	5	32	c
3	Building Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	b
4	Asphalt Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	d
5	Site Preparation	Site Preparation	10/1/2022	2/15/2023	5	98	e
6	Site Preparation Soil Haul 2022	Site Preparation	10/1/2022	12/31/2022	5	65	f
7	Site Preparation Soil Haul 2023	Site Preparation	1/1/2023	2/15/2023	5	33	g
8	Retail and Residential Building A Building Construction	Building Construction	2/1/2023	9/30/2025	5	695	h
9	Retail Architectural Coating	Architectural Coating	10/15/2023	12/23/2023	5	50	i
10	Finishing and Landscaping	Trenching	4/1/2024	4/30/2024	5	22	l
11	Paving	Paving	4/1/2024	4/7/2024	5	5	k
12	Residential Building A Architectural Coating	Architectural Coating	7/1/2025	9/30/2025	5	66	j
13	Residential Building B Building Construction	Building Construction	2/1/2026	3/31/2028	5	565	m
14	Residential Building B Architectural Coating	Architectural Coating	1/15/2028	3/31/2028	5	55	n

Acres of Grading (Site Preparation Phase): 980

Acres of Grading (Grading Phase): 0

Acres of Paving: 15.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 179,123; Non-Residential Outdoor: 59,708; Striped Parking Area: 43,219

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition	Crushing/Proc. Equipment	1	8.00	350	0.78
Building Demolition	Excavators	2	8.00	131	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	0	8.00	158	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Excavators	1	8.00	101	0.38
Site Preparation	Graders	4	8.00	238	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Scrapers	8	8.00	365	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation Soil Haul 2022	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2022	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation Soil Haul 2023	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2023	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Retail and Residential Building A Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Retail and Residential Building A Building Construction	Cranes	1	8.00	300	0.29
Retail and Residential Building A Building Construction	Forklifts	0	8.00	89	0.20
Retail and Residential Building A Building Construction	Generator Sets	0	8.00	84	0.74
Retail and Residential Building A Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Retail and Residential Building A Building Construction	Welders	0	8.00	46	0.45
Retail Architectural Coating	Air Compressors	2	6.00	78	0.48
Residential Building A Architectural Coating	Air Compressors	2	6.00	78	0.48
Paving	Pavers	1	8.00	188	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	86	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Finishing and Landscaping	Graders	1	8.00	238	0.41
Residential Building B Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73
Residential Building B Building Construction	Cranes	1	8.00	300	0.29
Residential Building B Building Construction	Forklifts	0	8.00	89	0.20
Residential Building B Building Construction	Generator Sets	0	8.00	84	0.74
Residential Building B Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Residential Building B Building Construction	Welders	0	8.00	46	0.45
Residential Building B Architectural Coating	Air Compressors	2	6.00	78	0.48

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Building Demolition	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	0	0.00	0.00	160.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	0	0.00	0.00	163.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	14	35.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2022	0	0.00	0.00	3,178.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2023	0	0.00	0.00	1,613.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail and Residential Building A Building	3	910.00	91.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building A Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing and Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building B Building Construction	3	910.00	51.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building B Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Building 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					
Off-Road	1.7282	11.3102	12.7732	0.0358		0.4637	0.4637		0.4451	0.4451		3,866.6787	3,866.6787	0.4763		3,878.5869
Total	**1.7282**	**11.3102**	**12.7732**	**0.0358**		**0.4637**	**0.4637**		**0.4451**	**0.4451**		**3,866.6787**	**3,866.6787**	**0.4763**		**3,878.5869**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6800e-003	9.0400e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	0.0328	0.0222	0.3058	9.3000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		93.7501	93.7501	2.3700e-003	2.3600e-003	94.5111
Total	**0.0393**	**0.2087**	**0.3718**	**1.6900e-003**	**0.1374**	**2.3500e-003**	**0.1397**	**0.0370**	**2.2300e-003**	**0.0392**		**176.7192**	**176.7192**	**7.1100e-003**	**0.0143**	**181.1446**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.7282	11.3102	12.7732	0.0358		0.4637	0.4637		0.4451	0.4451	0.0000	3,866.6787	3,866.6787	0.4763		3,878.5869
Total	**1.7282**	**11.3102**	**12.7732**	**0.0358**		**0.4637**	**0.4637**		**0.4451**	**0.4451**	**0.0000**	**3,866.6787**	**3,866.6787**	**0.4763**		**3,878.5869**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6800e-003	8.6300e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	0.0328	0.0222	0.3058	9.3000e-004	0.1030	6.0000e-004	0.1036	0.0275	5.5000e-004	0.0281		93.7501	93.7501	2.3700e-003	2.3600e-003	94.5111
Total	**0.0393**	**0.2087**	**0.3718**	**1.6900e-003**	**0.1270**	**2.3500e-003**	**0.1293**	**0.0345**	**2.2300e-003**	**0.0367**		**176.7192**	**176.7192**	**7.1100e-003**	**0.0143**	**181.1446**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Asphalt 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					
Off-Road	0.1647	1.6756	2.2379	3.1100e-003		0.0901	0.0901		0.0829	0.0829		301.2390	301.2390	0.0974		303.6746
Total	**0.1647**	**1.6756**	**2.2379**	**3.1100e-003**		**0.0901**	**0.0901**		**0.0829**	**0.0829**		**301.2390**	**301.2390**	**0.0974**		**303.6746**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6800e-003	9.0400e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	9.8300e-003	6.6600e-003	0.0917	2.8000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		28.1250	28.1250	7.1000e-004	7.1000e-004	28.3533
Total	**0.0164**	**0.1932**	**0.1578**	**1.0400e-003**	**0.0591**	**1.9300e-003**	**0.0610**	**0.0163**	**1.8500e-003**	**0.0181**		**111.0941**	**111.0941**	**5.4500e-003**	**0.0126**	**114.9868**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1647	1.6756	2.2379	3.1100e-003		0.0901	0.0901		0.0829	0.0829	0.0000	301.2390	301.2390	0.0974		303.6746
Total	**0.1647**	**1.6756**	**2.2379**	**3.1100e-003**		**0.0901**	**0.0901**		**0.0829**	**0.0829**	**0.0000**	**301.2390**	**301.2390**	**0.0974**		**303.6746**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6800e-003	8.6300e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	9.8300e-003	6.6600e-003	0.0917	2.8000e-004	0.0309	1.8000e-004	0.0311	8.2500e-003	1.7000e-004	8.4200e-003		28.1250	28.1250	7.1000e-004	7.1000e-004	28.3533
Total	**0.0164**	**0.1932**	**0.1578**	**1.0400e-003**	**0.0549**	**1.9300e-003**	**0.0568**	**0.0152**	**1.8500e-003**	**0.0171**		**111.0941**	**111.0941**	**5.4500e-003**	**0.0126**	**114.9868**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Demolition Debris Haul - 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					5.7064	0.0000	5.7064	0.8640	0.0000	0.8640			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.7064**	**0.0000**	**5.7064**	**0.8640**	**0.0000**	**0.8640**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1054	4.3149	1.1833	0.0159	0.4651	0.0315	0.4966	0.1274	0.0301	0.1575		1,803.3521	1,803.3521	0.1717	0.2888	1,893.7185
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	0.0000	0.0000	0.0000	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	**0.1054**	**4.3149**	**1.1833**	**0.0159**	**0.4651**	**0.0315**	**0.4966**	**0.1274**	**0.0301**	**0.1575**		**1,803.3521**	**1,803.3521**	**0.1717**	**0.2888**	**1,893.7185**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4395	0.0000	2.4395	0.3694	0.0000	0.3694			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.4395**	**0.0000**	**2.4395**	**0.3694**	**0.0000**	**0.3694**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1054	4.3149	1.1833	0.0159	0.4334	0.0315	0.4648	0.1196	0.0301	0.1497		1,803.3521	1,803.3521	0.1717	0.2888	1,893.7185
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	0.0000	0.0000	0.0000	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	**0.1054**	**4.3149**	**1.1833**	**0.0159**	**0.4334**	**0.0315**	**0.4648**	**0.1196**	**0.0301**	**0.1497**		**1,803.3521**	**1,803.3521**	**0.1717**	**0.2888**	**1,893.7185**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Asphalt Demolition Debris Haul - 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					4.0444	0.0000	4.0444	0.6124	0.0000	0.6124			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**4.0444**	**0.0000**	**4.0444**	**0.6124**	**0.0000**	**0.6124**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1074	4.3958	1.2055	0.0162	0.4738	0.0321	0.5059	0.1298	0.0307	0.1604		1,837.1650	1,837.1650	0.1749	0.2943	1,929.2257
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	0.0000	0.0000	0.0000	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	**0.1074**	**4.3958**	**1.2055**	**0.0162**	**0.4738**	**0.0321**	**0.5059**	**0.1298**	**0.0307**	**0.1604**		**1,837.1650**	**1,837.1650**	**0.1749**	**0.2943**	**1,929.2257**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7290	0.0000	1.7290	0.2618	0.0000	0.2618			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.7290**	**0.0000**	**1.7290**	**0.2618**	**0.0000**	**0.2618**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1074	4.3958	1.2055	0.0162	0.4415	0.0321	0.4736	0.1218	0.0307	0.1525		1,837.1650	1,837.1650	0.1749	0.2943	1,929.2257
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	0.0000	0.0000	0.0000	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	**0.1074**	**4.3958**	**1.2055**	**0.0162**	**0.4415**	**0.0321**	**0.4736**	**0.1218**	**0.0307**	**0.1525**		**1,837.1650**	**1,837.1650**	**0.1749**	**0.2943**	**1,929.2257**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 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					10.6050	0.0000	10.6050	1.1451	0.0000	1.1451			0.0000			0.0000
Off-Road	8.9659	101.3640	64.0828	0.1609		3.8122	3.8122		3.5072	3.5072		15,580.7221	15,580.7221	5.0391		15,706.7002
Total	**8.9659**	**101.3640**	**64.0828**	**0.1609**	**10.6050**	**3.8122**	**14.4172**	**1.1451**	**3.5072**	**4.6523**		**15,580.7221**	**15,580.7221**	**5.0391**		**15,706.7002**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6800e-003	9.0400e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	0.1147	0.0777	1.0704	3.2500e-003	0.3912	2.1100e-003	0.3933	0.1038	1.9400e-003	0.1057		328.1253	328.1253	8.2900e-003	8.2400e-003	330.7889
Total	**0.1212**	**0.2642**	**1.1364**	**4.0100e-003**	**0.4168**	**3.8600e-003**	**0.4207**	**0.1111**	**3.6200e-003**	**0.1147**		**411.0944**	**411.0944**	**0.0130**	**0.0201**	**417.4223**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					4.5336	0.0000	4.5336	0.4895	0.0000	0.4895			0.0000			0.0000
Off-Road	8.9659	101.3640	64.0828	0.1609		3.8122	3.8122		3.5072	3.5072	0.0000	15,580.7221	15,580.7221	5.0391		15,706.7002
Total	**8.9659**	**101.3640**	**64.0828**	**0.1609**	**4.5336**	**3.8122**	**8.3459**	**0.4895**	**3.5072**	**3.9968**	**0.0000**	**15,580.7221**	**15,580.7221**	**5.0391**		**15,706.7002**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6800e-003	8.6300e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	0.1147	0.0777	1.0704	3.2500e-003	0.3606	2.1100e-003	0.3627	0.0962	1.9400e-003	0.0982		328.1253	328.1253	8.2900e-003	8.2400e-003	330.7889
Total	**0.1212**	**0.2642**	**1.1364**	**4.0100e-003**	**0.3846**	**3.8600e-003**	**0.3884**	**0.1032**	**3.6200e-003**	**0.1068**		**411.0944**	**411.0944**	**0.0130**	**0.0201**	**417.4223**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Site Preparation - 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					
Fugitive Dust					10.6050	0.0000	10.6050	1.1451	0.0000	1.1451			0.0000			0.0000
Off-Road	8.5191	92.7414	62.0147	0.1609		3.5061	3.5061		3.2256	3.2256		15,577.2716	15,577.2716	5.0380		15,703.2217
Total	**8.5191**	**92.7414**	**62.0147**	**0.1609**	**10.6050**	**3.5061**	**14.1111**	**1.1451**	**3.2256**	**4.3707**		**15,577.2716**	**15,577.2716**	**5.0380**		**15,703.2217**

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	3.9000e-003	0.1464	0.0600	7.2000e-004	0.0256	7.2000e-004	0.0263	7.3600e-003	6.9000e-004	8.0500e-003		79.0959	79.0959	4.6800e-003	0.0114	82.5978
Worker	0.1077	0.0692	0.9957	3.1400e-003	0.3912	1.9900e-003	0.3932	0.1038	1.8400e-003	0.1056		317.7237	317.7237	7.5100e-003	7.6700e-003	320.1969
Total	**0.1116**	**0.2157**	**1.0557**	**3.8600e-003**	**0.4168**	**2.7100e-003**	**0.4195**	**0.1111**	**2.5300e-003**	**0.1136**		**396.8196**	**396.8196**	**0.0122**	**0.0190**	**402.7947**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					4.5336	0.0000	4.5336	0.4895	0.0000	0.4895			0.0000			0.0000
Off-Road	8.5191	92.7414	62.0147	0.1609		3.5061	3.5061		3.2256	3.2256	0.0000	15,577.2716	15,577.2716	5.0380		15,703.2217
Total	**8.5191**	**92.7414**	**62.0147**	**0.1609**	**4.5336**	**3.5061**	**8.0398**	**0.4895**	**3.2256**	**3.7152**	**0.0000**	**15,577.2716**	**15,577.2716**	**5.0380**		**15,703.2217**

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	3.9000e-003	0.1464	0.0600	7.2000e-004	0.0239	7.2000e-004	0.0247	6.9600e-003	6.9000e-004	7.6500e-003		79.0959	79.0959	4.6800e-003	0.0114	82.5978
Worker	0.1077	0.0692	0.9957	3.1400e-003	0.3606	1.9900e-003	0.3626	0.0962	1.8400e-003	0.0981		317.7237	317.7237	7.5100e-003	7.6700e-003	320.1969
Total	**0.1116**	**0.2157**	**1.0557**	**3.8600e-003**	**0.3845**	**2.7100e-003**	**0.3873**	**0.1032**	**2.5300e-003**	**0.1057**		**396.8196**	**396.8196**	**0.0122**	**0.0190**	**402.7947**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Site Preparation Soil Haul 2022 - 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					0.0442	0.0000	0.0442	6.7000e-003	0.0000	6.7000e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0442**	**0.0000**	**0.0442**	**6.7000e-003**	**0.0000**	**6.7000e-003**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1932	7.9111	2.1695	0.0292	0.8527	0.0577	0.9104	0.2335	0.0552	0.2887		3,306.3768	3,306.3768	0.3148	0.5296	3,472.0601
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	0.0000	0.0000	0.0000	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	**0.1932**	**7.9111**	**2.1695**	**0.0292**	**0.8527**	**0.0577**	**0.9104**	**0.2335**	**0.0552**	**0.2887**		**3,306.3768**	**3,306.3768**	**0.3148**	**0.5296**	**3,472.0601**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					0.0189	0.0000	0.0189	2.8600e-003	0.0000	2.8600e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0189**	**0.0000**	**0.0189**	**2.8600e-003**	**0.0000**	**2.8600e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1932	7.9111	2.1695	0.0292	0.7945	0.0577	0.8523	0.2192	0.0552	0.2745		3,306.3768	3,306.3768	0.3148	0.5296	3,472.0601
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	0.0000	0.0000	0.0000	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	**0.1932**	**7.9111**	**2.1695**	**0.0292**	**0.7945**	**0.0577**	**0.8523**	**0.2192**	**0.0552**	**0.2745**		**3,306.3768**	**3,306.3768**	**0.3148**	**0.5296**	**3,472.0601**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Site Preparation Soil Haul 2023 - 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					
Fugitive Dust					0.0442	0.0000	0.0442	6.7000e-003	0.0000	6.7000e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0442**	**0.0000**	**0.0442**	**6.7000e-003**	**0.0000**	**6.7000e-003**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.0959	6.0728	2.0187	0.0275	0.8524	0.0376	0.8900	0.2334	0.0360	0.2694		3,128.8713	3,128.8713	0.3150	0.5019	3,286.3195
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	0.0000	0.0000	0.0000	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	**0.0959**	**6.0728**	**2.0187**	**0.0275**	**0.8524**	**0.0376**	**0.8900**	**0.2334**	**0.0360**	**0.2694**		**3,128.8713**	**3,128.8713**	**0.3150**	**0.5019**	**3,286.3195**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					0.0189	0.0000	0.0189	2.8600e-003	0.0000	2.8600e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0189**	**0.0000**	**0.0189**	**2.8600e-003**	**0.0000**	**2.8600e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0959	6.0728	2.0187	0.0275	0.7943	0.0376	0.8319	0.2192	0.0360	0.2551		3,128.8713	3,128.8713	0.3150	0.5019	3,286.3195
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	0.0000	0.0000	0.0000	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	**0.0959**	**6.0728**	**2.0187**	**0.0275**	**0.7943**	**0.0376**	**0.8319**	**0.2192**	**0.0360**	**0.2551**		**3,128.8713**	**3,128.8713**	**0.3150**	**0.5019**	**3,286.3195**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Retail and Residential Building A 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	0.7168	6.6706	6.0084	0.0127		0.2793	0.2793		0.2608	0.2608		1,194.5600	1,194.5600	0.3500		1,203.3096
Total	**0.7168**	**6.6706**	**6.0084**	**0.0127**		**0.2793**	**0.2793**		**0.2608**	**0.2608**		**1,194.5600**	**1,194.5600**	**0.3500**		**1,203.3096**

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	0.0887	3.3314	1.3645	0.0164	0.5819	0.0165	0.5983	0.1675	0.0158	0.1832		1,799.4321	1,799.4321	0.1066	0.2584	1,879.0996
Worker	2.8005	1.8000	25.8877	0.0817	10.1717	0.0519	10.2235	2.6976	0.0477	2.7453		8,260.8153	8,260.8153	0.1953	0.1994	8,325.1191
Total	**2.8892**	**5.1314**	**27.2522**	**0.0981**	**10.7535**	**0.0683**	**10.8219**	**2.8650**	**0.0635**	**2.9285**		**10,060.2474**	**10,060.2474**	**0.3018**	**0.4578**	**10,204.2187**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7168	6.6706	6.0084	0.0127		0.2793	0.2793		0.2608	0.2608	0.0000	1,194.5600	1,194.5600	0.3500		1,203.3096
Total	**0.7168**	**6.6706**	**6.0084**	**0.0127**		**0.2793**	**0.2793**		**0.2608**	**0.2608**	**0.0000**	**1,194.5600**	**1,194.5600**	**0.3500**		**1,203.3096**

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	0.0887	3.3314	1.3645	0.0164	0.5445	0.0165	0.5610	0.1583	0.0158	0.1741		1,799.4321	1,799.4321	0.1066	0.2584	1,879.0996
Worker	2.8005	1.8000	25.8877	0.0817	9.3758	0.0519	9.4276	2.5022	0.0477	2.5500		8,260.8153	8,260.8153	0.1953	0.1994	8,325.1191
Total	**2.8892**	**5.1314**	**27.2522**	**0.0981**	**9.9203**	**0.0683**	**9.9886**	**2.6605**	**0.0635**	**2.7240**		**10,060.2474**	**10,060.2474**	**0.3018**	**0.4578**	**10,204.2187**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Retail and Residential Building A Building Construction - 2024

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	0.7005	6.3874	5.8937	0.0127		0.2619	0.2619		0.2448	0.2448		1,194.4011	1,194.4011	0.3499		1,203.1493
Total	**0.7005**	**6.3874**	**5.8937**	**0.0127**		**0.2619**	**0.2619**		**0.2448**	**0.2448**		**1,194.4011**	**1,194.4011**	**0.3499**		**1,203.1493**

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	0.0873	3.3219	1.3538	0.0161	0.5819	0.0172	0.5991	0.1675	0.0165	0.1839		1,771.5818	1,771.5818	0.1077	0.2555	1,850.4027
Worker	2.6405	1.6161	24.1155	0.0791	10.1717	0.0493	10.2209	2.6976	0.0453	2.7429		7,999.1213	7,999.1213	0.1773	0.1864	8,059.1118
Total	**2.7278**	**4.9380**	**25.4692**	**0.0952**	**10.7535**	**0.0665**	**10.8200**	**2.8650**	**0.0618**	**2.9268**		**9,770.7032**	**9,770.7032**	**0.2850**	**0.4419**	**9,909.5145**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7005	6.3874	5.8937	0.0127		0.2619	0.2619		0.2448	0.2448	0.0000	1,194.4011	1,194.4011	0.3499		1,203.1493
Total	**0.7005**	**6.3874**	**5.8937**	**0.0127**		**0.2619**	**0.2619**		**0.2448**	**0.2448**	**0.0000**	**1,194.4011**	**1,194.4011**	**0.3499**		**1,203.1493**

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	0.0873	3.3219	1.3538	0.0161	0.5445	0.0172	0.5617	0.1583	0.0165	0.1748		1,771.5818	1,771.5818	0.1077	0.2555	1,850.4027
Worker	2.6405	1.6161	24.1155	0.0791	9.3758	0.0493	9.4250	2.5022	0.0453	2.5476		7,999.1213	7,999.1213	0.1773	0.1864	8,059.1118
Total	**2.7278**	**4.9380**	**25.4692**	**0.0952**	**9.9203**	**0.0665**	**9.9868**	**2.6605**	**0.0618**	**2.7223**		**9,770.7032**	**9,770.7032**	**0.2850**	**0.4419**	**9,909.5145**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Retail and Residential Building A Building Construction - 2025

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0860	3.3059	1.3476	0.0158	0.5819	0.0173	0.5992	0.1675	0.0166	0.1840		1,738.4725	1,738.4725	0.1090	0.2517	1,816.2176
Worker	2.4997	1.4636	22.6524	0.0765	10.1717	0.0471	10.2187	2.6976	0.0433	2.7409		7,727.5715	7,727.5715	0.1613	0.1754	7,783.8570
Total	**2.5857**	**4.7694**	**24.0000**	**0.0922**	**10.7535**	**0.0644**	**10.8179**	**2.8650**	**0.0599**	**2.9249**		**9,466.0440**	**9,466.0440**	**0.2703**	**0.4271**	**9,600.0747**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0860	3.3059	1.3476	0.0158	0.5445	0.0173	0.5618	0.1583	0.0166	0.1749		1,738.4725	1,738.4725	0.1090	0.2517	1,816.2176
Worker	2.4997	1.4636	22.6524	0.0765	9.3758	0.0471	9.4229	2.5022	0.0433	2.5455		7,727.5715	7,727.5715	0.1613	0.1754	7,783.8570
Total	**2.5857**	**4.7694**	**24.0000**	**0.0922**	**9.9203**	**0.0644**	**9.9847**	**2.6605**	**0.0599**	**2.7204**		**9,466.0440**	**9,466.0440**	**0.2703**	**0.4271**	**9,600.0747**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Retail 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	26.1460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3833	2.6060	3.6222	5.9400e-003		0.1416	0.1416		0.1416	0.1416		562.8961	562.8961	0.0337		563.7380
Total	**26.5294**	**2.6060**	**3.6222**	**5.9400e-003**		**0.1416**	**0.1416**		**0.1416**	**0.1416**		**562.8961**	**562.8961**	**0.0337**		**563.7380**

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	0.5601	0.3600	5.1776	0.0164	2.0343	0.0104	2.0447	0.5395	9.5500e-003	0.5491		1,652.1631	1,652.1631	0.0391	0.0399	1,665.0238
Total	**0.5601**	**0.3600**	**5.1776**	**0.0164**	**2.0343**	**0.0104**	**2.0447**	**0.5395**	**9.5500e-003**	**0.5491**		**1,652.1631**	**1,652.1631**	**0.0391**	**0.0399**	**1,665.0238**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	26.1460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3833	2.6060	3.6222	5.9400e-003		0.1416	0.1416		0.1416	0.1416	0.0000	562.8961	562.8961	0.0337		563.7380
Total	**26.5294**	**2.6060**	**3.6222**	**5.9400e-003**		**0.1416**	**0.1416**		**0.1416**	**0.1416**	**0.0000**	**562.8961**	**562.8961**	**0.0337**		**563.7380**

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	0.5601	0.3600	5.1776	0.0164	1.8752	0.0104	1.8855	0.5004	9.5500e-003	0.5100		1,652.1631	1,652.1631	0.0391	0.0399	1,665.0238
Total	**0.5601**	**0.3600**	**5.1776**	**0.0164**	**1.8752**	**0.0104**	**1.8855**	**0.5004**	**9.5500e-003**	**0.5100**		**1,652.1631**	**1,652.1631**	**0.0391**	**0.0399**	**1,665.0238**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Finishing and Landscaping - 2024

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	0.4513	5.2891	2.1082	8.4200e-003		0.1715	0.1715		0.1578	0.1578		815.1913	815.1913	0.2637		821.7826
Total	**0.4513**	**5.2891**	**2.1082**	**8.4200e-003**		**0.1715**	**0.1715**		**0.1578**	**0.1578**		**815.1913**	**815.1913**	**0.2637**		**821.7826**

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	8.7000e-003	5.3300e-003	0.0795	2.6000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		26.3707	26.3707	5.8000e-004	6.1000e-004	26.5685
Total	**8.7000e-003**	**5.3300e-003**	**0.0795**	**2.6000e-004**	**0.0335**	**1.6000e-004**	**0.0337**	**8.8900e-003**	**1.5000e-004**	**9.0400e-003**		**26.3707**	**26.3707**	**5.8000e-004**	**6.1000e-004**	**26.5685**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4513	5.2891	2.1082	8.4200e-003		0.1715	0.1715		0.1578	0.1578	0.0000	815.1913	815.1913	0.2637		821.7826
Total	**0.4513**	**5.2891**	**2.1082**	**8.4200e-003**		**0.1715**	**0.1715**		**0.1578**	**0.1578**	**0.0000**	**815.1913**	**815.1913**	**0.2637**		**821.7826**

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	8.7000e-003	5.3300e-003	0.0795	2.6000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		26.3707	26.3707	5.8000e-004	6.1000e-004	26.5685
Total	**8.7000e-003**	**5.3300e-003**	**0.0795**	**2.6000e-004**	**0.0309**	**1.6000e-004**	**0.0311**	**8.2500e-003**	**1.5000e-004**	**8.4000e-003**		**26.3707**	**26.3707**	**5.8000e-004**	**6.1000e-004**	**26.5685**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Paving - 2024

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	0.4666	4.9575	5.6292	0.0128		0.2106	0.2106		0.1938	0.1938		1,234.0097	1,234.0097	0.3991		1,243.9873
Paving	3.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3390**	**4.9575**	**5.6292**	**0.0128**		**0.2106**	**0.2106**		**0.1938**	**0.1938**		**1,234.0097**	**1,234.0097**	**0.3991**		**1,243.9873**

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	0.0232	0.0142	0.2120	7.0000e-004	0.0894	4.3000e-004	0.0899	0.0237	4.0000e-004	0.0241		70.3220	70.3220	1.5600e-003	1.6400e-003	70.8493
Total	**0.0232**	**0.0142**	**0.2120**	**7.0000e-004**	**0.0894**	**4.3000e-004**	**0.0899**	**0.0237**	**4.0000e-004**	**0.0241**		**70.3220**	**70.3220**	**1.5600e-003**	**1.6400e-003**	**70.8493**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4666	4.9575	5.6292	0.0128		0.2106	0.2106		0.1938	0.1938	0.0000	1,234.0097	1,234.0097	0.3991		1,243.9873
Paving	3.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3390**	**4.9575**	**5.6292**	**0.0128**		**0.2106**	**0.2106**		**0.1938**	**0.1938**	**0.0000**	**1,234.0097**	**1,234.0097**	**0.3991**		**1,243.9873**

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	0.0232	0.0142	0.2120	7.0000e-004	0.0824	4.3000e-004	0.0829	0.0220	4.0000e-004	0.0224		70.3220	70.3220	1.5600e-003	1.6400e-003	70.8493
Total	**0.0232**	**0.0142**	**0.2120**	**7.0000e-004**	**0.0824**	**4.3000e-004**	**0.0829**	**0.0220**	**4.0000e-004**	**0.0224**		**70.3220**	**70.3220**	**1.5600e-003**	**1.6400e-003**	**70.8493**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Residential Building A Architectural Coating - 2025

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	41.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**41.7249**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.4999	0.2927	4.5305	0.0153	2.0343	9.4100e-003	2.0437	0.5395	8.6600e-003	0.5482		1,545.5143	1,545.5143	0.0323	0.0351	1,556.7714
Total	**0.4999**	**0.2927**	**4.5305**	**0.0153**	**2.0343**	**9.4100e-003**	**2.0437**	**0.5395**	**8.6600e-003**	**0.5482**		**1,545.5143**	**1,545.5143**	**0.0323**	**0.0351**	**1,556.7714**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	41.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**41.7249**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.4999	0.2927	4.5305	0.0153	1.8752	9.4100e-003	1.8846	0.5004	8.6600e-003	0.5091		1,545.5143	1,545.5143	0.0323	0.0351	1,556.7714
Total	**0.4999**	**0.2927**	**4.5305**	**0.0153**	**1.8752**	**9.4100e-003**	**1.8846**	**0.5004**	**8.6600e-003**	**0.5091**		**1,545.5143**	**1,545.5143**	**0.0323**	**0.0351**	**1,556.7714**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.14 Residential Building B Building Construction - 2026

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0475	1.8397	0.7524	8.6600e-003	0.3261	9.7000e-003	0.3358	0.0939	9.2700e-003	0.1031		955.6665	955.6665	0.0618	0.1389	998.6110
Worker	2.3771	1.3388	21.4239	0.0741	10.1717	0.0448	10.2164	2.6976	0.0412	2.7388		7,489.9575	7,489.9575	0.1475	0.1663	7,543.1888
Total	**2.4245**	**3.1785**	**22.1763**	**0.0828**	**10.4977**	**0.0545**	**10.5522**	**2.7914**	**0.0505**	**2.8419**		**8,445.6241**	**8,445.6241**	**0.2093**	**0.3052**	**8,541.7997**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0475	1.8397	0.7524	8.6600e-003	0.3052	9.7000e-003	0.3148	0.0887	9.2700e-003	0.0980		955.6665	955.6665	0.0618	0.1389	998.6110
Worker	2.3771	1.3388	21.4239	0.0741	9.3758	0.0448	9.4206	2.5022	0.0412	2.5434		7,489.9575	7,489.9575	0.1475	0.1663	7,543.1888
Total	**2.4245**	**3.1785**	**22.1763**	**0.0828**	**9.6809**	**0.0545**	**9.7354**	**2.5909**	**0.0505**	**2.6414**		**8,445.6241**	**8,445.6241**	**0.2093**	**0.3052**	**8,541.7997**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.14 Residential Building B Building Construction - 2027

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0468	1.8261	0.7498	8.4700e-003	0.3261	9.6700e-003	0.3358	0.0939	9.2500e-003	0.1031		936.1368	936.1368	0.0622	0.1366	978.4023
Worker	2.2628	1.2341	20.3794	0.0720	10.1717	0.0421	10.2138	2.6976	0.0388	2.7363		7,278.2809	7,278.2809	0.1357	0.1587	7,328.9588
Total	**2.3095**	**3.0602**	**21.1292**	**0.0805**	**10.4977**	**0.0518**	**10.5495**	**2.7914**	**0.0480**	**2.8394**		**8,214.4177**	**8,214.4177**	**0.1979**	**0.2953**	**8,307.3611**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0468	1.8261	0.7498	8.4700e-003	0.3051	9.6700e-003	0.3148	0.0887	9.2500e-003	0.0980		936.1368	936.1368	0.0622	0.1366	978.4023
Worker	2.2628	1.2341	20.3794	0.0720	9.3758	0.0421	9.4179	2.5022	0.0388	2.5410		7,278.2809	7,278.2809	0.1357	0.1587	7,328.9588
Total	**2.3095**	**3.0602**	**21.1292**	**0.0805**	**9.6809**	**0.0518**	**9.7327**	**2.5909**	**0.0480**	**2.6390**		**8,214.4177**	**8,214.4177**	**0.1979**	**0.2953**	**8,307.3611**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.14 Residential Building B Building Construction - 2028

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0462	1.8140	0.7489	8.2800e-003	0.3261	9.6300e-003	0.3357	0.0938	9.2100e-003	0.1031		917.4859	917.4859	0.0628	0.1344	959.0942
Worker	2.1553	1.1461	19.5027	0.0702	10.1717	0.0393	10.2110	2.6976	0.0362	2.7337		7,090.9837	7,090.9837	0.1254	0.1524	7,139.5241
Total	**2.2015**	**2.9601**	**20.2516**	**0.0784**	**10.4977**	**0.0489**	**10.5467**	**2.7914**	**0.0454**	**2.8368**		**8,008.4696**	**8,008.4696**	**0.1883**	**0.2867**	**8,098.6182**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0462	1.8140	0.7489	8.2800e-003	0.3051	9.6300e-003	0.3148	0.0887	9.2100e-003	0.0979		917.4859	917.4859	0.0628	0.1344	959.0942
Worker	2.1553	1.1461	19.5027	0.0702	9.3758	0.0393	9.4151	2.5022	0.0362	2.5384		7,090.9837	7,090.9837	0.1254	0.1524	7,139.5241
Total	**2.2015**	**2.9601**	**20.2516**	**0.0784**	**9.6809**	**0.0489**	**9.7299**	**2.5909**	**0.0454**	**2.6363**		**8,008.4696**	**8,008.4696**	**0.1883**	**0.2867**	**8,098.6182**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.15 Residential Building B Architectural Coating - 2028

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	35.7005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**36.0422**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.4311	0.2292	3.9006	0.0140	2.0343	7.8600e-003	2.0422	0.5395	7.2300e-003	0.5468		1,418.1967	1,418.1967	0.0251	0.0305	1,427.9048
Total	**0.4311**	**0.2292**	**3.9006**	**0.0140**	**2.0343**	**7.8600e-003**	**2.0422**	**0.5395**	**7.2300e-003**	**0.5468**		**1,418.1967**	**1,418.1967**	**0.0251**	**0.0305**	**1,427.9048**

Brea Mall Mixed-Use Project (Option 2) Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	35.7005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**36.0422**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.4311	0.2292	3.9006	0.0140	1.8752	7.8600e-003	1.8830	0.5004	7.2300e-003	0.5077		1,418.1967	1,418.1967	0.0251	0.0305	1,427.9048
Total	**0.4311**	**0.2292**	**3.9006**	**0.0140**	**1.8752**	**7.8600e-003**	**1.8830**	**0.5004**	**7.2300e-003**	**0.5077**		**1,418.1967**	**1,418.1967**	**0.0251**	**0.0305**	**1,427.9048**

CalEEMod Mitigated Construction Model

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	476.80	1000sqft	5.47	476,800.00	0
Other Asphalt Surfaces	192.00	1000sqft	4.41	192,000.00	0
Other Non-Asphalt Surfaces	124.72	1000sqft	2.86	124,717.00	0
Parking Lot	129.81	1000sqft	2.98	129,809.00	0
Health Club	128.00	1000sqft	0.98	128,000.00	0
Apartments Mid Rise	390.00	Dwelling Unit	0.00	436,500.00	1115
Regional Shopping Center	119.42	1000sqft	0.80	119,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - structures are comprised of multiple stories

Construction Phase - based on information provided by applicant. see project description for construction durations

Off-road Equipment - based on information provided by the applicant

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - no additional equipment required for asphalt demolition debris haul

Off-road Equipment - based on information provided by applicant

Off-road Equipment - no additional equipment required for building demolition haul

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - no additional equipment required for site preparation soil haul

Off-road Equipment - no additional equipment required for site preparation soil haul

Trips and VMT - assumes 4 vt/water truck/day. Assumes that 2 dump trucks will be used for asphalt demo haul. Building Construction and Arch Coat are calculated based on CalEEMod Appendix A rates

Demolition -

Grading -

Architectural Coating - see assumptions file for calculations. Parking only accounts for parking area and driveways

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and SCAQMD Rule 1186, MM: Tier 4 (Final) Equipment hp>50

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	123,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	371,123.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,400.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,400.00	47,917.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	294,638.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	883,913.00	0.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	300.00	695.00
tblConstructionPhase	NumDays	20.00	88.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	98.00
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	NumDays	10.00	33.00

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblGrading	MaterialExported	0.00	25,416.00
tblGrading	MaterialExported	0.00	12,904.00
tblLandUse	LandUseSquareFeet	124,720.00	124,717.00
tblLandUse	LandUseSquareFeet	129,810.00	129,809.00
tblLandUse	LandUseSquareFeet	390,000.00	436,500.00
tblLandUse	LandUseSquareFeet	119,420.00	119,415.00
tblLandUse	LotAcreage	10.95	5.47
tblLandUse	LotAcreage	2.94	0.98
tblLandUse	LotAcreage	10.26	0.00
tblLandUse	LotAcreage	2.74	0.80
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	158.00	131.00
tblOffRoadEquipment	HorsePower	130.00	188.00
tblOffRoadEquipment	HorsePower	80.00	86.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	85.00	350.00
tblOffRoadEquipment	HorsePower	158.00	101.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	367.00	365.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	HaulingTripNumber	158.00	160.00
tblTripsAndVMT	HaulingTripNumber	112.00	163.00
tblTripsAndVMT	HaulingTripNumber	3,177.00	3,178.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	234.00	112.00
tblTripsAndVMT	WorkerTripNumber	152.00	21.00
tblTripsAndVMT	WorkerTripNumber	761.00	287.00
tblTripsAndVMT	WorkerTripNumber	152.00	21.00

2.0 Emissions Summary

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	0.3826	4.1265	2.8144	8.1200e-003	0.6006	0.1481	0.7486	0.0744	0.1371	0.2115	0.0000	746.4398	746.4398	0.1800	0.0186	756.4668
2023	1.6077	3.0532	3.0851	0.0104	1.0056	0.0997	1.1053	0.1871	0.0926	0.2797	0.0000	956.0420	956.0420	0.1398	0.0491	974.1653
2024	0.2219	1.5126	2.0441	7.7000e-003	0.5058	0.0415	0.5473	0.1364	0.0388	0.1752	0.0000	716.0699	716.0699	0.0675	0.0444	730.9980
2025	1.5247	1.0979	1.5675	5.7600e-003	0.3836	0.0300	0.4136	0.1034	0.0284	0.1318	0.0000	535.4819	535.4819	0.0484	0.0325	546.3648
Maximum	**1.6077**	**4.1265**	**3.0851**	**0.0104**	**1.0056**	**0.1481**	**1.1053**	**0.1871**	**0.1371**	**0.2797**	**0.0000**	**956.0420**	**956.0420**	**0.1800**	**0.0491**	**974.1653**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0963	0.6709	3.4435	8.1200e-003	0.2819	0.0135	0.2954	0.0388	0.0134	0.0521	0.0000	746.4391	746.4391	0.1800	0.0186	756.4661
2023	1.4460	1.0313	3.3380	0.0104	0.6712	0.0173	0.6885	0.1460	0.0170	0.1630	0.0000	956.0415	956.0415	0.1398	0.0491	974.1649
2024	0.1692	0.8537	2.1351	7.7000e-003	0.4676	0.0135	0.4811	0.1271	0.0132	0.1403	0.0000	716.0698	716.0698	0.0675	0.0444	730.9978
2025	1.4826	0.6333	1.6348	5.7600e-003	0.3546	0.0102	0.3648	0.0963	9.9500e-003	0.1063	0.0000	535.4817	535.4817	0.0484	0.0325	546.3646
Maximum	**1.4826**	**1.0313**	**3.4435**	**0.0104**	**0.6712**	**0.0173**	**0.6885**	**0.1460**	**0.0170**	**0.1630**	**0.0000**	**956.0415**	**956.0415**	**0.1800**	**0.0491**	**974.1649**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**14.53**	**67.42**	**-10.94**	**0.00**	**28.86**	**82.93**	**34.99**	**18.60**	**81.94**	**42.16**	**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	6-1-2022	8-31-2022	0.7055	0.3260
2	9-1-2022	11-30-2022	2.9530	0.6638
3	12-1-2022	2-28-2023	3.4073	0.7598
4	3-1-2023	5-31-2023	0.4222	0.2511
5	6-1-2023	8-31-2023	0.4190	0.2478
6	9-1-2023	11-30-2023	1.3174	1.1032
7	12-1-2023	2-29-2024	0.8537	0.6689
8	3-1-2024	5-31-2024	0.4935	0.2652
9	6-1-2024	8-31-2024	0.4053	0.2441
10	9-1-2024	11-30-2024	0.4073	0.2477
11	12-1-2024	2-28-2025	0.3930	0.2457

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

12	**3-1-2025**	**5-31-2025**	0.3887	0.2437
13	**6-1-2025**	**8-31-2025**	1.3621	1.1657
14	**9-1-2025**	**9-30-2025**	0.5982	0.5261
		Highest	3.4073	1.1657

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	6/1/2022	9/30/2022	5	88	
2	Asphalt Demolition	Demolition	7/1/2022	8/15/2022	5	32	
3	Building Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	
4	Asphalt Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	
5	Site Preparation	Site Preparation	10/1/2022	2/15/2023	5	98	
6	Site Preparation Soil Haul 2022	Site Preparation	10/1/2022	12/31/2022	5	65	
7	Site Preparation Soil Haul 2023	Site Preparation	1/1/2023	2/15/2023	5	33	
8	Retail and Residential Building A Building Construction	Building Construction	2/1/2023	9/30/2025	5	695	
9	Retail Architectural Coating	Architectural Coating	10/15/2023	12/23/2023	5	50	
10	Finishing and Landscaping	Trenching	4/1/2024	4/30/2024	5	22	
11	Paving	Paving	4/1/2024	4/7/2024	5	5	
12	Residential Architectural Coating	Architectural Coating	7/1/2025	9/30/2025	5	66	

Acres of Grading (Site Preparation Phase): 980

Acres of Grading (Grading Phase): 0

Acres of Paving: 15.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 371,123; Non-Residential Outdoor: 123,708; Striped Parking Area: 47,917

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition	Crushing/Proc. Equipment	1	8.00	350	0.78
Building Demolition	Excavators	2	8.00	131	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	0	8.00	158	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Excavators	1	8.00	101	0.38
Site Preparation	Graders	4	8.00	238	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Scrapers	8	8.00	365	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation Soil Haul 2022	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2022	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation Soil Haul 2023	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2023	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Retail and Residential Building A Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Retail and Residential Building A Building Construction	Cranes	1	8.00	300	0.29
Retail and Residential Building A Building Construction	Forklifts	0	8.00	89	0.20
Retail and Residential Building A Building Construction	Generator Sets	0	8.00	84	0.74
Retail and Residential Building A Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Retail and Residential Building A Building Construction	Welders	0	8.00	46	0.45
Retail Architectural Coating	Air Compressors	2	6.00	78	0.48
Finishing and Landscaping	Graders	1	8.00	238	0.41
Paving	Pavers	1	8.00	188	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	86	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Residential Architectural Coating	Air Compressors	2	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Demolition	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	0	0.00	0.00	160.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	0	0.00	0.00	163.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	14	35.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2022	0	0.00	0.00	3,178.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2023	0	0.00	0.00	1,613.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail and Residential Building A Building	3	287.00	112.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail Architectural Coating	2	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing and Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Architectural Coating	2	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building 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					
Off-Road	0.0760	0.4977	0.5620	1.5700e-003		0.0204	0.0204		0.0196	0.0196	0.0000	154.3428	154.3428	0.0190	0.0000	154.8182
Total	**0.0760**	**0.4977**	**0.5620**	**1.5700e-003**		**0.0204**	**0.0204**		**0.0196**	**0.0196**	**0.0000**	**154.3428**	**154.3428**	**0.0190**	**0.0000**	**154.8182**

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	2.9000e-004	8.2700e-003	2.8500e-003	3.0000e-005	1.1100e-003	8.0000e-005	1.1900e-003	3.2000e-004	7.0000e-005	3.9000e-004	0.0000	3.3112	3.3112	1.9000e-004	4.7000e-004	3.4575
Worker	1.3300e-003	1.0000e-003	0.0138	4.0000e-005	4.8300e-003	3.0000e-005	4.8600e-003	1.2800e-003	2.0000e-005	1.3100e-003	0.0000	3.7930	3.7930	9.0000e-005	1.0000e-004	3.8238
Total	**1.6200e-003**	**9.2700e-003**	**0.0166**	**7.0000e-005**	**5.9400e-003**	**1.1000e-004**	**6.0500e-003**	**1.6000e-003**	**9.0000e-005**	**1.7000e-003**	**0.0000**	**7.1042**	**7.1042**	**2.8000e-004**	**5.7000e-004**	**7.2812**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0190	0.0824	0.8550	1.5700e-003		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003	0.0000	154.3427	154.3427	0.0190	0.0000	154.8180
Total	**0.0190**	**0.0824**	**0.8550**	**1.5700e-003**		**2.5400e-003**	**2.5400e-003**		**2.5400e-003**	**2.5400e-003**	**0.0000**	**154.3427**	**154.3427**	**0.0190**	**0.0000**	**154.8180**

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	2.9000e-004	8.2700e-003	2.8500e-003	3.0000e-005	1.0400e-003	8.0000e-005	1.1200e-003	3.0000e-004	7.0000e-005	3.8000e-004	0.0000	3.3112	3.3112	1.9000e-004	4.7000e-004	3.4575
Worker	1.3300e-003	1.0000e-003	0.0138	4.0000e-005	4.4500e-003	3.0000e-005	4.4800e-003	1.1900e-003	2.0000e-005	1.2100e-003	0.0000	3.7930	3.7930	9.0000e-005	1.0000e-004	3.8238
Total	**1.6200e-003**	**9.2700e-003**	**0.0166**	**7.0000e-005**	**5.4900e-003**	**1.1000e-004**	**5.6000e-003**	**1.4900e-003**	**9.0000e-005**	**1.5900e-003**	**0.0000**	**7.1042**	**7.1042**	**2.8000e-004**	**5.7000e-004**	**7.2812**

3.3 Asphalt 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					
Off-Road	2.6400e-003	0.0268	0.0358	5.0000e-005		1.4400e-003	1.4400e-003		1.3300e-003	1.3300e-003	0.0000	4.3725	4.3725	1.4100e-003	0.0000	4.4078
Total	**2.6400e-003**	**0.0268**	**0.0358**	**5.0000e-005**		**1.4400e-003**	**1.4400e-003**		**1.3300e-003**	**1.3300e-003**	**0.0000**	**4.3725**	**4.3725**	**1.4100e-003**	**0.0000**	**4.4078**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	1.1000e-004	3.0100e-003	1.0400e-003	1.0000e-005	4.0000e-004	3.0000e-005	4.3000e-004	1.2000e-004	3.0000e-005	1.4000e-004	0.0000	1.2041	1.2041	7.0000e-005	1.7000e-004	1.2573
Worker	1.4000e-004	1.1000e-004	1.5000e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4138	0.4138	1.0000e-005	1.0000e-005	0.4171
Total	**2.5000e-004**	**3.1200e-003**	**2.5400e-003**	**1.0000e-005**	**9.3000e-004**	**3.0000e-005**	**9.6000e-004**	**2.6000e-004**	**3.0000e-005**	**2.8000e-004**	**0.0000**	**1.6179**	**1.6179**	**8.0000e-005**	**1.8000e-004**	**1.6744**

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	6.1000e-004	2.6300e-003	0.0375	5.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	4.3725	4.3725	1.4100e-003	0.0000	4.4078
Total	**6.1000e-004**	**2.6300e-003**	**0.0375**	**5.0000e-005**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**4.3725**	**4.3725**	**1.4100e-003**	**0.0000**	**4.4078**

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	1.1000e-004	3.0100e-003	1.0400e-003	1.0000e-005	3.8000e-004	3.0000e-005	4.1000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.2041	1.2041	7.0000e-005	1.7000e-004	1.2573
Worker	1.4000e-004	1.1000e-004	1.5000e-003	0.0000	4.9000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4138	0.4138	1.0000e-005	1.0000e-005	0.4171
Total	**2.5000e-004**	**3.1200e-003**	**2.5400e-003**	**1.0000e-005**	**8.7000e-004**	**3.0000e-005**	**9.0000e-004**	**2.4000e-004**	**3.0000e-005**	**2.7000e-004**	**0.0000**	**1.6179**	**1.6179**	**8.0000e-005**	**1.8000e-004**	**1.6744**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Demolition Debris Haul - 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					0.0171	0.0000	0.0171	2.5900e-003	0.0000	2.5900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0171**	**0.0000**	**0.0171**	**2.5900e-003**	**0.0000**	**2.5900e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2000e-004	0.0131	3.5200e-003	5.0000e-005	1.3700e-003	9.0000e-005	1.4700e-003	3.8000e-004	9.0000e-005	4.7000e-004	0.0000	4.9072	4.9072	4.7000e-004	7.9000e-004	5.1532
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.2000e-004**	**0.0131**	**3.5200e-003**	**5.0000e-005**	**1.3700e-003**	**9.0000e-005**	**1.4700e-003**	**3.8000e-004**	**9.0000e-005**	**4.7000e-004**	**0.0000**	**4.9072**	**4.9072**	**4.7000e-004**	**7.9000e-004**	**5.1532**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.3200e-003	0.0000	7.3200e-003	1.1100e-003	0.0000	1.1100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**7.3200e-003**	**0.0000**	**7.3200e-003**	**1.1100e-003**	**0.0000**	**1.1100e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2000e-004	0.0131	3.5200e-003	5.0000e-005	1.2800e-003	9.0000e-005	1.3700e-003	3.5000e-004	9.0000e-005	4.4000e-004	0.0000	4.9072	4.9072	4.7000e-004	7.9000e-004	5.1532
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.2000e-004**	**0.0131**	**3.5200e-003**	**5.0000e-005**	**1.2800e-003**	**9.0000e-005**	**1.3700e-003**	**3.5000e-004**	**9.0000e-005**	**4.4000e-004**	**0.0000**	**4.9072**	**4.9072**	**4.7000e-004**	**7.9000e-004**	**5.1532**

3.5 Asphalt Demolition Debris Haul - 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					0.0121	0.0000	0.0121	1.8400e-003	0.0000	1.8400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0121**	**0.0000**	**0.0121**	**1.8400e-003**	**0.0000**	**1.8400e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-004	0.0134	3.5900e-003	5.0000e-005	1.4000e-003	1.0000e-004	1.5000e-003	3.8000e-004	9.0000e-005	4.8000e-004	0.0000	4.9993	4.9993	4.8000e-004	8.0000e-004	5.2498
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.3000e-004**	**0.0134**	**3.5900e-003**	**5.0000e-005**	**1.4000e-003**	**1.0000e-004**	**1.5000e-003**	**3.8000e-004**	**9.0000e-005**	**4.8000e-004**	**0.0000**	**4.9993**	**4.9993**	**4.8000e-004**	**8.0000e-004**	**5.2498**

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					5.1900e-003	0.0000	5.1900e-003	7.9000e-004	0.0000	7.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.1900e-003**	**0.0000**	**5.1900e-003**	**7.9000e-004**	**0.0000**	**7.9000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-004	0.0134	3.5900e-003	5.0000e-005	1.3000e-003	1.0000e-004	1.4000e-003	3.6000e-004	9.0000e-005	4.5000e-004	0.0000	4.9993	4.9993	4.8000e-004	8.0000e-004	5.2498

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.3000e-004**	**0.0134**	**3.5900e-003**	**5.0000e-005**	**1.3000e-003**	**1.0000e-004**	**1.4000e-003**	**3.6000e-004**	**9.0000e-005**	**4.5000e-004**	**0.0000**	**4.9993**	**4.9993**	**4.8000e-004**	**8.0000e-004**	**5.2498**

3.6 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					0.5197	0.0000	0.5197	0.0561	0.0000	0.0561	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2914	3.2943	2.0827	5.2300e-003		0.1239	0.1239		0.1140	0.1140	0.0000	459.3743	459.3743	0.1486	0.0000	463.0886
Total	**0.2914**	**3.2943**	**2.0827**	**5.2300e-003**	**0.5197**	**0.1239**	**0.6436**	**0.0561**	**0.1140**	**0.1701**	**0.0000**	**459.3743**	**459.3743**	**0.1486**	**0.0000**	**463.0886**

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	2.1000e-004	6.1100e-003	2.1000e-003	2.0000e-005	8.2000e-004	6.0000e-005	8.8000e-004	2.4000e-004	5.0000e-005	2.9000e-004	0.0000	2.4458	2.4458	1.4000e-004	3.5000e-004	2.5538
Worker	3.4300e-003	2.5800e-003	0.0356	1.1000e-004	0.0125	7.0000e-005	0.0126	3.3200e-003	6.0000e-005	3.3800e-003	0.0000	9.8057	9.8057	2.4000e-004	2.5000e-004	9.8853
Total	**3.6400e-003**	**8.6900e-003**	**0.0377**	**1.3000e-004**	**0.0133**	**1.3000e-004**	**0.0134**	**3.5600e-003**	**1.1000e-004**	**3.6700e-003**	**0.0000**	**12.2515**	**12.2515**	**3.8000e-004**	**6.0000e-004**	**12.4391**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					0.2222	0.0000	0.2222	0.0240	0.0000	0.0240	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0642	0.2781	2.4172	5.2300e-003		8.5600e-003	8.5600e-003		8.5600e-003	8.5600e-003	0.0000	459.3737	459.3737	0.1486	0.0000	463.0880
Total	**0.0642**	**0.2781**	**2.4172**	**5.2300e-003**	**0.2222**	**8.5600e-003**	**0.2307**	**0.0240**	**8.5600e-003**	**0.0326**	**0.0000**	**459.3737**	**459.3737**	**0.1486**	**0.0000**	**463.0880**

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	2.1000e-004	6.1100e-003	2.1000e-003	2.0000e-005	7.7000e-004	6.0000e-005	8.2000e-004	2.2000e-004	5.0000e-005	2.8000e-004	0.0000	2.4458	2.4458	1.4000e-004	3.5000e-004	2.5538
Worker	3.4300e-003	2.5800e-003	0.0356	1.1000e-004	0.0115	7.0000e-005	0.0116	3.0800e-003	6.0000e-005	3.1400e-003	0.0000	9.8057	9.8057	2.4000e-004	2.5000e-004	9.8853
Total	**3.6400e-003**	**8.6900e-003**	**0.0377**	**1.3000e-004**	**0.0123**	**1.3000e-004**	**0.0124**	**3.3000e-003**	**1.1000e-004**	**3.4200e-003**	**0.0000**	**12.2515**	**12.2515**	**3.8000e-004**	**6.0000e-004**	**12.4391**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Site Preparation - 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					
Fugitive Dust					0.5197	0.0000	0.5197	0.0561	0.0000	0.0561	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1406	1.5302	1.0232	2.6500e-003		0.0579	0.0579		0.0532	0.0532	0.0000	233.1691	233.1691	0.0754	0.0000	235.0544
Total	**0.1406**	**1.5302**	**1.0232**	**2.6500e-003**	**0.5197**	**0.0579**	**0.5775**	**0.0561**	**0.0532**	**0.1093**	**0.0000**	**233.1691**	**233.1691**	**0.0754**	**0.0000**	**235.0544**

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	7.0000e-005	2.4200e-003	9.7000e-004	1.0000e-005	4.2000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.1829	1.1829	7.0000e-005	1.7000e-004	1.2353
Worker	1.6300e-003	1.1700e-003	0.0168	5.0000e-005	6.3400e-003	3.0000e-005	6.3700e-003	1.6800e-003	3.0000e-005	1.7100e-003	0.0000	4.8203	4.8203	1.1000e-004	1.2000e-004	4.8578
Total	**1.7000e-003**	**3.5900e-003**	**0.0178**	**6.0000e-005**	**6.7600e-003**	**4.0000e-005**	**6.8000e-003**	**1.8000e-003**	**4.0000e-005**	**1.8400e-003**	**0.0000**	**6.0032**	**6.0032**	**1.8000e-004**	**2.9000e-004**	**6.0931**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					0.2222	0.0000	0.2222	0.0240	0.0000	0.0240	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0326	0.1412	1.2272	2.6500e-003		4.3400e-003	4.3400e-003		4.3400e-003	4.3400e-003	0.0000	233.1689	233.1689	0.0754	0.0000	235.0542
Total	**0.0326**	**0.1412**	**1.2272**	**2.6500e-003**	**0.2222**	**4.3400e-003**	**0.2265**	**0.0240**	**4.3400e-003**	**0.0283**	**0.0000**	**233.1689**	**233.1689**	**0.0754**	**0.0000**	**235.0542**

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	7.0000e-005	2.4200e-003	9.7000e-004	1.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.1829	1.1829	7.0000e-005	1.7000e-004	1.2353
Worker	1.6300e-003	1.1700e-003	0.0168	5.0000e-005	5.8500e-003	3.0000e-005	5.8800e-003	1.5600e-003	3.0000e-005	1.5900e-003	0.0000	4.8203	4.8203	1.1000e-004	1.2000e-004	4.8578
Total	**1.7000e-003**	**3.5900e-003**	**0.0178**	**6.0000e-005**	**6.2400e-003**	**4.0000e-005**	**6.2800e-003**	**1.6700e-003**	**4.0000e-005**	**1.7100e-003**	**0.0000**	**6.0032**	**6.0032**	**1.8000e-004**	**2.9000e-004**	**6.0931**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Site Preparation Soil Haul 2022 - 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					1.4400e-003	0.0000	1.4400e-003	2.2000e-004	0.0000	2.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.4400e-003**	**0.0000**	**1.4400e-003**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	6.3700e-003	0.2602	0.0699	9.5000e-004	0.0273	1.8700e-003	0.0292	7.4800e-003	1.7900e-003	9.2800e-003	0.0000	97.4701	97.4701	9.2900e-003	0.0156	102.3546
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.3700e-003**	**0.2602**	**0.0699**	**9.5000e-004**	**0.0273**	**1.8700e-003**	**0.0292**	**7.4800e-003**	**1.7900e-003**	**9.2800e-003**	**0.0000**	**97.4701**	**97.4701**	**9.2900e-003**	**0.0156**	**102.3546**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					6.1000e-004	0.0000	6.1000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**6.1000e-004**	**0.0000**	**6.1000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.3700e-003	0.2602	0.0699	9.5000e-004	0.0254	1.8700e-003	0.0273	7.0300e-003	1.7900e-003	8.8200e-003	0.0000	97.4701	97.4701	9.2900e-003	0.0156	102.3546
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.3700e-003**	**0.2602**	**0.0699**	**9.5000e-004**	**0.0254**	**1.8700e-003**	**0.0273**	**7.0300e-003**	**1.7900e-003**	**8.8200e-003**	**0.0000**	**97.4701**	**97.4701**	**9.2900e-003**	**0.0156**	**102.3546**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Site Preparation Soil Haul 2023 - 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					
Fugitive Dust					7.3000e-004	0.0000	7.3000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**7.3000e-004**	**0.0000**	**7.3000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	1.6400e-003	0.1011	0.0331	4.5000e-004	0.0139	6.2000e-004	0.0145	3.8000e-003	5.9000e-004	4.3900e-003	0.0000	46.8101	46.8101	4.7200e-003	7.5100e-003	49.1658
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6400e-003**	**0.1011**	**0.0331**	**4.5000e-004**	**0.0139**	**6.2000e-004**	**0.0145**	**3.8000e-003**	**5.9000e-004**	**4.3900e-003**	**0.0000**	**46.8101**	**46.8101**	**4.7200e-003**	**7.5100e-003**	**49.1658**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					3.1000e-004	0.0000	3.1000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.1000e-004**	**0.0000**	**3.1000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6400e-003	0.1011	0.0331	4.5000e-004	0.0129	6.2000e-004	0.0135	3.5700e-003	5.9000e-004	4.1600e-003	0.0000	46.8101	46.8101	4.7200e-003	7.5100e-003	49.1658
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6400e-003**	**0.1011**	**0.0331**	**4.5000e-004**	**0.0129**	**6.2000e-004**	**0.0135**	**3.5700e-003**	**5.9000e-004**	**4.1600e-003**	**0.0000**	**46.8101**	**46.8101**	**4.7200e-003**	**7.5100e-003**	**49.1658**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Retail and Residential Building A 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	0.0853	0.7938	0.7150	1.5100e-003		0.0332	0.0332		0.0310	0.0310	0.0000	128.9587	128.9587	0.0378	0.0000	129.9033
Total	**0.0853**	**0.7938**	**0.7150**	**1.5100e-003**		**0.0332**	**0.0332**		**0.0310**	**0.0310**	**0.0000**	**128.9587**	**128.9587**	**0.0378**	**0.0000**	**129.9033**

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	0.0132	0.4893	0.1965	2.4000e-003	0.0840	2.4000e-003	0.0864	0.0242	2.3000e-003	0.0265	0.0000	238.8832	238.8832	0.0142	0.0343	249.4601
Worker	0.0964	0.0689	0.9936	3.1100e-003	0.3749	1.9500e-003	0.3769	0.0996	1.7900e-003	0.1014	0.0000	285.0693	285.0693	6.6400e-003	6.8900e-003	287.2871
Total	**0.1097**	**0.5582**	**1.1901**	**5.5100e-003**	**0.4589**	**4.3500e-003**	**0.4633**	**0.1238**	**4.0900e-003**	**0.1279**	**0.0000**	**523.9524**	**523.9524**	**0.0208**	**0.0412**	**536.7471**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0396	0.2197	0.7629	1.5100e-003		7.7400e-003	7.7400e-003		7.7400e-003	7.7400e-003	0.0000	128.9586	128.9586	0.0378	0.0000	129.9031
Total	**0.0396**	**0.2197**	**0.7629**	**1.5100e-003**		**7.7400e-003**	**7.7400e-003**		**7.7400e-003**	**7.7400e-003**	**0.0000**	**128.9586**	**128.9586**	**0.0378**	**0.0000**	**129.9031**

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	0.0132	0.4893	0.1965	2.4000e-003	0.0786	2.4000e-003	0.0810	0.0229	2.3000e-003	0.0252	0.0000	238.8832	238.8832	0.0142	0.0343	249.4601
Worker	0.0964	0.0689	0.9936	3.1100e-003	0.3457	1.9500e-003	0.3476	0.0924	1.7900e-003	0.0942	0.0000	285.0693	285.0693	6.6400e-003	6.8900e-003	287.2871
Total	**0.1097**	**0.5582**	**1.1901**	**5.5100e-003**	**0.4243**	**4.3500e-003**	**0.4286**	**0.1153**	**4.0900e-003**	**0.1194**	**0.0000**	**523.9524**	**523.9524**	**0.0208**	**0.0412**	**536.7471**

3.9 Retail and Residential Building A Building Construction - 2024

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	0.0918	0.8368	0.7721	1.6600e-003		0.0343	0.0343		0.0321	0.0321	0.0000	141.9441	141.9441	0.0416	0.0000	142.9837
Total	**0.0918**	**0.8368**	**0.7721**	**1.6600e-003**		**0.0343**	**0.0343**		**0.0321**	**0.0321**	**0.0000**	**141.9441**	**141.9441**	**0.0416**	**0.0000**	**142.9837**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0143	0.5370	0.2147	2.5900e-003	0.0924	2.7700e-003	0.0952	0.0267	2.6500e-003	0.0293	0.0000	258.8967	258.8967	0.0158	0.0373	270.4161
Worker	0.0999	0.0681	1.0187	3.3100e-003	0.4127	2.0300e-003	0.4148	0.1096	1.8700e-003	0.1115	0.0000	303.8673	303.8673	6.6300e-003	7.0900e-003	306.1447
Total	**0.1142**	**0.6051**	**1.2334**	**5.9000e-003**	**0.5052**	**4.8000e-003**	**0.5100**	**0.1363**	**4.5200e-003**	**0.1408**	**0.0000**	**562.7640**	**562.7640**	**0.0224**	**0.0444**	**576.5608**

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	0.0436	0.2419	0.8398	1.6600e-003		8.5200e-003	8.5200e-003		8.5200e-003	8.5200e-003	0.0000	141.9439	141.9439	0.0416	0.0000	142.9835
Total	**0.0436**	**0.2419**	**0.8398**	**1.6600e-003**		**8.5200e-003**	**8.5200e-003**		**8.5200e-003**	**8.5200e-003**	**0.0000**	**141.9439**	**141.9439**	**0.0416**	**0.0000**	**142.9835**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0143	0.5370	0.2147	2.5900e-003	0.0865	2.7700e-003	0.0893	0.0252	2.6500e-003	0.0279	0.0000	258.8967	258.8967	0.0158	0.0373	270.4161
Worker	0.0999	0.0681	1.0187	3.3100e-003	0.3805	2.0300e-003	0.3826	0.1017	1.8700e-003	0.1036	0.0000	303.8673	303.8673	6.6300e-003	7.0900e-003	306.1447
Total	**0.1142**	**0.6051**	**1.2334**	**5.9000e-003**	**0.4671**	**4.8000e-003**	**0.4719**	**0.1269**	**4.5200e-003**	**0.1314**	**0.0000**	**562.7640**	**562.7640**	**0.0224**	**0.0444**	**576.5608**

3.9 Retail and Residential Building A Building Construction - 2025

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	0.0653	0.5775	0.5593	1.2400e-003		0.0231	0.0231		0.0216	0.0216	0.0000	105.6575	105.6575	0.0310	0.0000	106.4314
Total	**0.0653**	**0.5775**	**0.5593**	**1.2400e-003**		**0.0231**	**0.0231**		**0.0216**	**0.0216**	**0.0000**	**105.6575**	**105.6575**	**0.0310**	**0.0000**	**106.4314**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0105	0.3977	0.1591	1.8900e-003	0.0688	2.0700e-003	0.0709	0.0198	1.9800e-003	0.0218	0.0000	189.0855	189.0855	0.0119	0.0274	197.5420
Worker	0.0702	0.0459	0.7121	2.3800e-003	0.3072	1.4500e-003	0.3086	0.0816	1.3300e-003	0.0829	0.0000	218.4767	218.4767	4.4900e-003	4.9600e-003	220.0669
Total	**0.0808**	**0.4436**	**0.8712**	**4.2700e-003**	**0.3760**	**3.5200e-003**	**0.3795**	**0.1014**	**3.3100e-003**	**0.1047**	**0.0000**	**407.5622**	**407.5622**	**0.0164**	**0.0323**	**417.6089**

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	0.0325	0.1800	0.6250	1.2400e-003		6.3400e-003	6.3400e-003		6.3400e-003	6.3400e-003	0.0000	105.6574	105.6574	0.0310	0.0000	106.4312
Total	**0.0325**	**0.1800**	**0.6250**	**1.2400e-003**		**6.3400e-003**	**6.3400e-003**		**6.3400e-003**	**6.3400e-003**	**0.0000**	**105.6574**	**105.6574**	**0.0310**	**0.0000**	**106.4312**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0105	0.3977	0.1591	1.8900e-003	0.0644	2.0700e-003	0.0665	0.0188	1.9800e-003	0.0208	0.0000	189.0855	189.0855	0.0119	0.0274	197.5420
Worker	0.0702	0.0459	0.7121	2.3800e-003	0.2832	1.4500e-003	0.2847	0.0757	1.3300e-003	0.0770	0.0000	218.4767	218.4767	4.4900e-003	4.9600e-003	220.0669
Total	**0.0808**	**0.4436**	**0.8712**	**4.2700e-003**	**0.3476**	**3.5200e-003**	**0.3512**	**0.0945**	**3.3100e-003**	**0.0978**	**0.0000**	**407.5622**	**407.5622**	**0.0164**	**0.0323**	**417.6089**

3.10 Retail 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	1.2578					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5800e-003	0.0652	0.0906	1.5000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003	0.0000	12.7663	12.7663	7.6000e-004	0.0000	12.7854
Total	**1.2674**	**0.0652**	**0.0906**	**1.5000e-004**		**3.5400e-003**	**3.5400e-003**		**3.5400e-003**	**3.5400e-003**	**0.0000**	**12.7663**	**12.7663**	**7.6000e-004**	**0.0000**	**12.7854**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	1.4800e-003	1.0600e-003	0.0153	5.0000e-005	5.7600e-003	3.0000e-005	5.7900e-003	1.5300e-003	3.0000e-005	1.5600e-003	0.0000	4.3821	4.3821	1.0000e-004	1.1000e-004	4.4162
Total	**1.4800e-003**	**1.0600e-003**	**0.0153**	**5.0000e-005**	**5.7600e-003**	**3.0000e-005**	**5.7900e-003**	**1.5300e-003**	**3.0000e-005**	**1.5600e-003**	**0.0000**	**4.3821**	**4.3821**	**1.0000e-004**	**1.1000e-004**	**4.4162**

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	1.2578					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4900e-003	6.4400e-003	0.0916	1.5000e-004		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	12.7663	12.7663	7.6000e-004	0.0000	12.7854
Total	**1.2593**	**6.4400e-003**	**0.0916**	**1.5000e-004**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**12.7663**	**12.7663**	**7.6000e-004**	**0.0000**	**12.7854**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.4800e-003	1.0600e-003	0.0153	5.0000e-005	5.3100e-003	3.0000e-005	5.3400e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.3821	4.3821	1.0000e-004	1.1000e-004	4.4162
Total	**1.4800e-003**	**1.0600e-003**	**0.0153**	**5.0000e-005**	**5.3100e-003**	**3.0000e-005**	**5.3400e-003**	**1.4200e-003**	**3.0000e-005**	**1.4500e-003**	**0.0000**	**4.3821**	**4.3821**	**1.0000e-004**	**1.1000e-004**	**4.4162**

3.11 Finishing and Landscaping - 2024

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	4.9600e-003	0.0582	0.0232	9.0000e-005		1.8900e-003	1.8900e-003		1.7400e-003	1.7400e-003	0.0000	8.1348	8.1348	2.6300e-003	0.0000	8.2006
Total	**4.9600e-003**	**0.0582**	**0.0232**	**9.0000e-005**		**1.8900e-003**	**1.8900e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**8.1348**	**8.1348**	**2.6300e-003**	**0.0000**	**8.2006**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	8.9000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2667	0.2667	1.0000e-005	1.0000e-005	0.2687
Total	**9.0000e-005**	**6.0000e-005**	**8.9000e-004**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2667**	**0.2667**	**1.0000e-005**	**1.0000e-005**	**0.2687**

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	1.1400e-003	4.9200e-003	0.0417	9.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	8.1348	8.1348	2.6300e-003	0.0000	8.2006
Total	**1.1400e-003**	**4.9200e-003**	**0.0417**	**9.0000e-005**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**8.1348**	**8.1348**	**2.6300e-003**	**0.0000**	**8.2006**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	8.9000e-004	0.0000	3.3000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2667	0.2667	1.0000e-005	1.0000e-005	0.2687
Total	**9.0000e-005**	**6.0000e-005**	**8.9000e-004**	**0.0000**	**3.3000e-004**	**0.0000**	**3.4000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.2667**	**0.2667**	**1.0000e-005**	**1.0000e-005**	**0.2687**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Paving - 2024

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	1.1700e-003	0.0124	0.0141	3.0000e-005		5.3000e-004	5.3000e-004		4.8000e-004	4.8000e-004	0.0000	2.7987	2.7987	9.1000e-004	0.0000	2.8213
Paving	9.6800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.0124**	**0.0141**	**3.0000e-005**		**5.3000e-004**	**5.3000e-004**		**4.8000e-004**	**4.8000e-004**	**0.0000**	**2.7987**	**2.7987**	**9.1000e-004**	**0.0000**	**2.8213**

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	5.0000e-005	4.0000e-005	5.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1616	0.1616	0.0000	0.0000	0.1629
Total	**5.0000e-005**	**4.0000e-005**	**5.4000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1616**	**0.1616**	**0.0000**	**0.0000**	**0.1629**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	3.9000e-004	1.6900e-003	0.0189	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.7987	2.7987	9.1000e-004	0.0000	2.8213
Paving	9.6800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0101**	**1.6900e-003**	**0.0189**	**3.0000e-005**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**2.7987**	**2.7987**	**9.1000e-004**	**0.0000**	**2.8213**

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	5.0000e-005	4.0000e-005	5.4000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.1616	0.1616	0.0000	0.0000	0.1629
Total	**5.0000e-005**	**4.0000e-005**	**5.4000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1616**	**0.1616**	**0.0000**	**0.0000**	**0.1629**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Residential Architectural Coating - 2025

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	1.3657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.0756	0.1194	2.0000e-004		3.4000e-003	3.4000e-003		3.4000e-003	3.4000e-003	0.0000	16.8515	16.8515	9.2000e-004	0.0000	16.8745
Total	**1.3769**	**0.0756**	**0.1194**	**2.0000e-004**		**3.4000e-003**	**3.4000e-003**		**3.4000e-003**	**3.4000e-003**	**0.0000**	**16.8515**	**16.8515**	**9.2000e-004**	**0.0000**	**16.8745**

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	1.7400e-003	1.1400e-003	0.0176	6.0000e-005	7.6100e-003	4.0000e-005	7.6400e-003	2.0200e-003	3.0000e-005	2.0500e-003	0.0000	5.4107	5.4107	1.1000e-004	1.2000e-004	5.4501
Total	**1.7400e-003**	**1.1400e-003**	**0.0176**	**6.0000e-005**	**7.6100e-003**	**4.0000e-005**	**7.6400e-003**	**2.0200e-003**	**3.0000e-005**	**2.0500e-003**	**0.0000**	**5.4107**	**5.4107**	**1.1000e-004**	**1.2000e-004**	**5.4501**

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					

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Archit. Coating	1.3657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9600e-003	8.5000e-003	0.1209	2.0000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	16.8515	16.8515	9.2000e-004	0.0000	16.8744
Total	**1.3676**	**8.5000e-003**	**0.1209**	**2.0000e-004**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**	**0.0000**	**16.8515**	**16.8515**	**9.2000e-004**	**0.0000**	**16.8744**

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	1.7400e-003	1.1400e-003	0.0176	6.0000e-005	7.0100e-003	4.0000e-005	7.0500e-003	1.8700e-003	3.0000e-005	1.9100e-003	0.0000	5.4107	5.4107	1.1000e-004	1.2000e-004	5.4501
Total	**1.7400e-003**	**1.1400e-003**	**0.0176**	**6.0000e-005**	**7.0100e-003**	**4.0000e-005**	**7.0500e-003**	**1.8700e-003**	**3.0000e-005**	**1.9100e-003**	**0.0000**	**5.4107**	**5.4107**	**1.1000e-004**	**1.2000e-004**	**5.4501**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	476.80	1000sqft	5.47	476,800.00	0
Other Asphalt Surfaces	192.00	1000sqft	4.41	192,000.00	0
Other Non-Asphalt Surfaces	124.72	1000sqft	2.86	124,717.00	0
Parking Lot	129.81	1000sqft	2.98	129,809.00	0
Health Club	128.00	1000sqft	0.98	128,000.00	0
Apartments Mid Rise	390.00	Dwelling Unit	0.00	436,500.00	1115
Regional Shopping Center	119.42	1000sqft	0.80	119,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - structures are comprised of multiple stories

Construction Phase - based on information provided by applicant. see project description for construction durations

Off-road Equipment - based on information provided by the applicant

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - no additional equipment required for asphalt demolition debris haul

Off-road Equipment - based on information provided by applicant

Off-road Equipment - no additional equipment required for building demolition haul

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - no additional equipment required for site preparation soil haul

Off-road Equipment - no additional equipment required for site preparation soil haul

Trips and VMT - assumes 4 vt/water truck/day. Assumes that 2 dump trucks will be used for asphalt demo haul. Building Construction and Arch Coat are calculated based on CalEEMod Appendix A rates

Demolition -

Grading -

Architectural Coating - see assumptions file for calculations. Parking only accounts for parking area and driveways

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and SCAQMD Rule 1186, MM: Tier 4 (Final) Equipment hp>50

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	123,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	371,123.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,400.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,400.00	47,917.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	294,638.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	883,913.00	0.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	300.00	695.00
tblConstructionPhase	NumDays	20.00	88.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	98.00
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	NumDays	10.00	33.00

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblGrading	MaterialExported	0.00	25,416.00
tblGrading	MaterialExported	0.00	12,904.00
tblLandUse	LandUseSquareFeet	124,720.00	124,717.00
tblLandUse	LandUseSquareFeet	129,810.00	129,809.00
tblLandUse	LandUseSquareFeet	390,000.00	436,500.00
tblLandUse	LandUseSquareFeet	119,420.00	119,415.00
tblLandUse	LotAcreage	10.95	5.47
tblLandUse	LotAcreage	2.94	0.98
tblLandUse	LotAcreage	10.26	0.00
tblLandUse	LotAcreage	2.74	0.80
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	158.00	131.00
tblOffRoadEquipment	HorsePower	130.00	188.00
tblOffRoadEquipment	HorsePower	80.00	86.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	85.00	350.00
tblOffRoadEquipment	HorsePower	158.00	101.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	367.00	365.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	HaulingTripNumber	158.00	160.00
tblTripsAndVMT	HaulingTripNumber	112.00	163.00
tblTripsAndVMT	HaulingTripNumber	3,177.00	3,178.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	234.00	112.00
tblTripsAndVMT	WorkerTripNumber	152.00	21.00
tblTripsAndVMT	WorkerTripNumber	761.00	287.00
tblTripsAndVMT	WorkerTripNumber	152.00	21.00

2.0 Emissions Summary

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	9.2759	109.2263	67.4349	0.1943	11.9187	3.8737	15.7924	1.7867	3.5659	5.0624	0.0000	19,313.9056	19,313.9056	5.3671	0.6096	19,611.7042
2023	52.3932	109.8825	81.5387	0.2522	15.8426	3.8621	19.7047	2.5532	3.5591	6.1123	0.0000	25,258.1148	25,258.1148	5.9071	0.8964	25,672.9244
2024	6.3907	21.0297	23.7143	0.0808	4.0471	0.6813	4.7283	1.0895	0.6313	1.7208	0.0000	8,171.5224	8,171.5224	1.2022	0.3711	8,312.1686
2025	43.2741	12.5601	19.1786	0.0652	4.1588	0.3768	4.5356	1.1191	0.3595	1.4786	0.0000	6,640.0993	6,640.0993	0.5684	0.3650	6,763.0658
Maximum	**52.3932**	**109.8825**	**81.5387**	**0.2522**	**15.8426**	**3.8737**	**19.7047**	**2.5532**	**3.5659**	**6.1123**	**0.0000**	**25,258.1148**	**25,258.1148**	**5.9071**	**0.8964**	**25,672.9244**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.2848	16.4199	77.7277	0.1943	5.7316	0.3248	6.0564	0.9222	0.3220	1.1369	0.0000	19,313.9056	19,313.9056	5.3671	0.6096	19,611.7042
2023	51.6855	20.8744	94.3018	0.2522	9.3585	0.4050	9.7635	1.7987	0.4010	2.1998	0.0000	25,258.1148	25,258.1148	5.9071	0.8964	25,672.9244
2024	5.3646	7.3660	27.8183	0.0808	3.7405	0.1368	3.8773	1.0142	0.1346	1.1489	0.0000	8,171.5224	8,171.5224	1.2022	0.3711	8,312.1686
2025	42.6546	6.4495	19.8997	0.0652	3.8435	0.1101	3.9536	1.0417	0.1079	1.1496	0.0000	6,640.0993	6,640.0993	0.5684	0.3650	6,763.0658
Maximum	**51.6855**	**20.8744**	**94.3018**	**0.2522**	**9.3585**	**0.4050**	**9.7635**	**1.7987**	**0.4010**	**2.1998**	**0.0000**	**25,258.1148**	**25,258.1148**	**5.9071**	**0.8964**	**25,672.9244**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**8.39**	**79.77**	**-14.53**	**0.00**	**36.96**	**88.89**	**47.16**	**27.05**	**88.10**	**60.80**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	6/1/2022	9/30/2022	5	88	
2	Asphalt Demolition	Demolition	7/1/2022	8/15/2022	5	32	
3	Building Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	
4	Asphalt Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	
5	Site Preparation	Site Preparation	10/1/2022	2/15/2023	5	98	
6	Site Preparation Soil Haul 2022	Site Preparation	10/1/2022	12/31/2022	5	65	
7	Site Preparation Soil Haul 2023	Site Preparation	1/1/2023	2/15/2023	5	33	
8	Retail and Residential Building A Building Construction	Building Construction	2/1/2023	9/30/2025	5	695	
9	Retail Architectural Coating	Architectural Coating	10/15/2023	12/23/2023	5	50	
10	Finishing and Landscaping	Trenching	4/1/2024	4/30/2024	5	22	
11	Paving	Paving	4/1/2024	4/7/2024	5	5	
12	Residential Architectural Coating	Architectural Coating	7/1/2025	9/30/2025	5	66	

Acres of Grading (Site Preparation Phase): 980

Acres of Grading (Grading Phase): 0

Acres of Paving: 15.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 371,123; Non-Residential Outdoor: 123,708; Striped Parking Area: 47,917

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition	Crushing/Proc. Equipment	1	8.00	350	0.78
Building Demolition	Excavators	2	8.00	131	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	0	8.00	158	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Excavators	1	8.00	101	0.38
Site Preparation	Graders	4	8.00	238	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Scrapers	8	8.00	365	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation Soil Haul 2022	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2022	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation Soil Haul 2023	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2023	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Retail and Residential Building A Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Retail and Residential Building A Building Construction	Cranes	1	8.00	300	0.29
Retail and Residential Building A Building Construction	Forklifts	0	8.00	89	0.20
Retail and Residential Building A Building Construction	Generator Sets	0	8.00	84	0.74
Retail and Residential Building A Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Retail and Residential Building A Building Construction	Welders	0	8.00	46	0.45
Retail Architectural Coating	Air Compressors	2	6.00	78	0.48
Finishing and Landscaping	Graders	1	8.00	238	0.41
Paving	Pavers	1	8.00	188	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	86	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Residential Architectural Coating	Air Compressors	2	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Demolition	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	0	0.00	0.00	160.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	0	0.00	0.00	163.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	14	35.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2022	0	0.00	0.00	3,178.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2023	0	0.00	0.00	1,613.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail and Residential Building A Building	3	287.00	112.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail Architectural Coating	2	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing and Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Architectural Coating	2	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building 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					
Off-Road	1.7282	11.3102	12.7732	0.0358		0.4637	0.4637		0.4451	0.4451		3,866.6787	3,866.6787	0.4763		3,878.5869
Total	**1.7282**	**11.3102**	**12.7732**	**0.0358**		**0.4637**	**0.4637**		**0.4451**	**0.4451**		**3,866.6787**	**3,866.6787**	**0.4763**		**3,878.5869**

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6700e-003	9.0300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	0.0301	0.0202	0.3286	9.7000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		98.4712	98.4712	2.3200e-003	2.2100e-003	99.1885
Total	**0.0367**	**0.1997**	**0.3924**	**1.7300e-003**	**0.1374**	**2.3500e-003**	**0.1397**	**0.0370**	**2.2200e-003**	**0.0392**		**181.4142**	**181.4142**	**7.0700e-003**	**0.0141**	**185.7925**

Mitigated Construction On-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Off-Road	0.4322	1.8730	19.4318	0.0358		0.0576	0.0576		0.0576	0.0576	0.0000	3,866.6787	3,866.6787	0.4763		3,878.5869
Total	**0.4322**	**1.8730**	**19.4318**	**0.0358**		**0.0576**	**0.0576**		**0.0576**	**0.0576**	**0.0000**	**3,866.6787**	**3,866.6787**	**0.4763**		**3,878.5869**

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6700e-003	8.6300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	0.0301	0.0202	0.3286	9.7000e-004	0.1030	6.0000e-004	0.1036	0.0275	5.5000e-004	0.0281		98.4712	98.4712	2.3200e-003	2.2100e-003	99.1885
Total	**0.0367**	**0.1997**	**0.3924**	**1.7300e-003**	**0.1270**	**2.3500e-003**	**0.1293**	**0.0345**	**2.2200e-003**	**0.0367**		**181.4142**	**181.4142**	**7.0700e-003**	**0.0141**	**185.7925**

3.3 Asphalt 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					
Off-Road	0.1647	1.6756	2.2379	3.1100e-003		0.0901	0.0901		0.0829	0.0829		301.2390	301.2390	0.0974		303.6746
Total	**0.1647**	**1.6756**	**2.2379**	**3.1100e-003**		**0.0901**	**0.0901**		**0.0829**	**0.0829**		**301.2390**	**301.2390**	**0.0974**		**303.6746**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6700e-003	9.0300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	9.0200e-003	6.0600e-003	0.0986	2.9000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		29.5414	29.5414	6.9000e-004	6.6000e-004	29.7566
Total	**0.0157**	**0.1855**	**0.1623**	**1.0500e-003**	**0.0591**	**1.9300e-003**	**0.0610**	**0.0163**	**1.8400e-003**	**0.0181**		**112.4844**	**112.4844**	**5.4400e-003**	**0.0126**	**116.3606**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0380	0.1646	2.3421	3.1100e-003		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	301.2390	301.2390	0.0974		303.6746
Total	**0.0380**	**0.1646**	**2.3421**	**3.1100e-003**		**5.0600e-003**	**5.0600e-003**		**5.0600e-003**	**5.0600e-003**	**0.0000**	**301.2390**	**301.2390**	**0.0974**		**303.6746**

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6700e-003	8.6300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	9.0200e-003	6.0600e-003	0.0986	2.9000e-004	0.0309	1.8000e-004	0.0311	8.2500e-003	1.7000e-004	8.4200e-003		29.5414	29.5414	6.9000e-004	6.6000e-004	29.7566
Total	**0.0157**	**0.1855**	**0.1623**	**1.0500e-003**	**0.0549**	**1.9300e-003**	**0.0568**	**0.0152**	**1.8400e-003**	**0.0171**		**112.4844**	**112.4844**	**5.4400e-003**	**0.0126**	**116.3606**

3.4 Building Demolition Debris Haul - 2022

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					5.7064	0.0000	5.7064	0.8640	0.0000	0.8640			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.7064**	**0.0000**	**5.7064**	**0.8640**	**0.0000**	**0.8640**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1080	4.1518	1.1662	0.0159	0.4651	0.0314	0.4965	0.1274	0.0301	0.1574		1,802.9238	1,802.9238	0.1719	0.2888	1,893.2714
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	0.0000	0.0000	0.0000	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	**0.1080**	**4.1518**	**1.1662**	**0.0159**	**0.4651**	**0.0314**	**0.4965**	**0.1274**	**0.0301**	**0.1574**		**1,802.9238**	**1,802.9238**	**0.1719**	**0.2888**	**1,893.2714**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4395	0.0000	2.4395	0.3694	0.0000	0.3694			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.4395**	**0.0000**	**2.4395**	**0.3694**	**0.0000**	**0.3694**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1080	4.1518	1.1662	0.0159	0.4334	0.0314	0.4648	0.1196	0.0301	0.1496		1,802.9238	1,802.9238	0.1719	0.2888	1,893.2714
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	0.0000	0.0000	0.0000	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	**0.1080**	**4.1518**	**1.1662**	**0.0159**	**0.4334**	**0.0314**	**0.4648**	**0.1196**	**0.0301**	**0.1496**		**1,802.9238**	**1,802.9238**	**0.1719**	**0.2888**	**1,893.2714**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Asphalt Demolition Debris Haul - 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					4.0444	0.0000	4.0444	0.6124	0.0000	0.6124			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**4.0444**	**0.0000**	**4.0444**	**0.6124**	**0.0000**	**0.6124**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1100	4.2296	1.1881	0.0162	0.4738	0.0320	0.5058	0.1298	0.0306	0.1604		1,836.7286	1,836.7286	0.1751	0.2942	1,928.7702
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	0.0000	0.0000	0.0000	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	**0.1100**	**4.2296**	**1.1881**	**0.0162**	**0.4738**	**0.0320**	**0.5058**	**0.1298**	**0.0306**	**0.1604**		**1,836.7286**	**1,836.7286**	**0.1751**	**0.2942**	**1,928.7702**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7290	0.0000	1.7290	0.2618	0.0000	0.2618			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.7290**	**0.0000**	**1.7290**	**0.2618**	**0.0000**	**0.2618**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1100	4.2296	1.1881	0.0162	0.4415	0.0320	0.4735	0.1218	0.0306	0.1524		1,836.7286	1,836.7286	0.1751	0.2942	1,928.7702
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	0.0000	0.0000	0.0000	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	**0.1100**	**4.2296**	**1.1881**	**0.0162**	**0.4415**	**0.0320**	**0.4735**	**0.1218**	**0.0306**	**0.1524**		**1,836.7286**	**1,836.7286**	**0.1751**	**0.2942**	**1,928.7702**

3.6 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					10.6050	0.0000	10.6050	1.1451	0.0000	1.1451			0.0000			0.0000
Off-Road	8.9659	101.3640	64.0828	0.1609		3.8122	3.8122		3.5072	3.5072		15,580.7221	15,580.7221	5.0391		15,706.7002
Total	**8.9659**	**101.3640**	**64.0828**	**0.1609**	**10.6050**	**3.8122**	**14.4172**	**1.1451**	**3.5072**	**4.6523**		**15,580.7221**	**15,580.7221**	**5.0391**		**15,706.7002**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6700e-003	9.0300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	0.1053	0.0707	1.1502	3.4100e-003	0.3912	2.1100e-003	0.3933	0.1038	1.9400e-003	0.1057		344.6490	344.6490	8.1100e-003	7.7500e-003	347.1598
Total	**0.1119**	**0.2502**	**1.2140**	**4.1700e-003**	**0.4168**	**3.8600e-003**	**0.4207**	**0.1111**	**3.6100e-003**	**0.1147**		**427.5921**	**427.5921**	**0.0129**	**0.0196**	**433.7638**

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					4.5336	0.0000	4.5336	0.4895	0.0000	0.4895			0.0000			0.0000
Off-Road	1.9748	8.5576	74.3756	0.1609		0.2633	0.2633		0.2633	0.2633	0.0000	15,580.7221	15,580.7221	5.0391		15,706.7002
Total	**1.9748**	**8.5576**	**74.3756**	**0.1609**	**4.5336**	**0.2633**	**4.7970**	**0.4895**	**0.2633**	**0.7528**	**0.0000**	**15,580.7221**	**15,580.7221**	**5.0391**		**15,706.7002**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6700e-003	8.6300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	0.1053	0.0707	1.1502	3.4100e-003	0.3606	2.1100e-003	0.3627	0.0962	1.9400e-003	0.0982		344.6490	344.6490	8.1100e-003	7.7500e-003	347.1598
Total	**0.1119**	**0.2502**	**1.2140**	**4.1700e-003**	**0.3846**	**3.8600e-003**	**0.3884**	**0.1032**	**3.6100e-003**	**0.1068**		**427.5921**	**427.5921**	**0.0129**	**0.0196**	**433.7638**

3.6 Site Preparation - 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					
Fugitive Dust					10.6050	0.0000	10.6050	1.1451	0.0000	1.1451			0.0000			0.0000
Off-Road	8.5191	92.7414	62.0147	0.1609		3.5061	3.5061		3.2256	3.2256		15,577.2716	15,577.2716	5.0380		15,703.2217
Total	**8.5191**	**92.7414**	**62.0147**	**0.1609**	**10.6050**	**3.5061**	**14.1111**	**1.1451**	**3.2256**	**4.3707**		**15,577.2716**	**15,577.2716**	**5.0380**		**15,703.2217**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	4.0400e-003	0.1402	0.0581	7.2000e-004	0.0256	7.2000e-004	0.0263	7.3600e-003	6.9000e-004	8.0500e-003		78.9798	78.9798	4.7000e-003	0.0113	82.4743
Worker	0.0986	0.0631	1.0688	3.3000e-003	0.3912	1.9900e-003	0.3932	0.1038	1.8400e-003	0.1056		333.6766	333.6766	7.3300e-003	7.2100e-003	336.0081
Total	**0.1026**	**0.2032**	**1.1270**	**4.0200e-003**	**0.4168**	**2.7100e-003**	**0.4195**	**0.1111**	**2.5300e-003**	**0.1136**		**412.6563**	**412.6563**	**0.0120**	**0.0185**	**418.4823**

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					4.5336	0.0000	4.5336	0.4895	0.0000	0.4895			0.0000			0.0000
Off-Road	1.9748	8.5576	74.3756	0.1609		0.2633	0.2633		0.2633	0.2633	0.0000	15,577.2716	15,577.2716	5.0380		15,703.2217
Total	**1.9748**	**8.5576**	**74.3756**	**0.1609**	**4.5336**	**0.2633**	**4.7970**	**0.4895**	**0.2633**	**0.7528**	**0.0000**	**15,577.2716**	**15,577.2716**	**5.0380**		**15,703.2217**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	4.0400e-003	0.1402	0.0581	7.2000e-004	0.0239	7.2000e-004	0.0247	6.9600e-003	6.9000e-004	7.6500e-003		78.9798	78.9798	4.7000e-003	0.0113	82.4743
Worker	0.0986	0.0631	1.0688	3.3000e-003	0.3606	1.9900e-003	0.3626	0.0962	1.8400e-003	0.0981		333.6766	333.6766	7.3300e-003	7.2100e-003	336.0081
Total	**0.1026**	**0.2032**	**1.1270**	**4.0200e-003**	**0.3845**	**2.7100e-003**	**0.3873**	**0.1032**	**2.5300e-003**	**0.1057**		**412.6563**	**412.6563**	**0.0120**	**0.0185**	**418.4823**

3.7 Site Preparation Soil Haul 2022 - 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					0.0442	0.0000	0.0442	6.7000e-003	0.0000	6.7000e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0442**	**0.0000**	**0.0442**	**6.7000e-003**	**0.0000**	**6.7000e-003**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1981	7.6121	2.1382	0.0292	0.8527	0.0576	0.9103	0.2335	0.0551	0.2886		3,305.5914	3,305.5914	0.3151	0.5294	3,471.2402
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	0.0000	0.0000	0.0000	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	**0.1981**	**7.6121**	**2.1382**	**0.0292**	**0.8527**	**0.0576**	**0.9103**	**0.2335**	**0.0551**	**0.2886**		**3,305.5914**	**3,305.5914**	**0.3151**	**0.5294**	**3,471.2402**

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					0.0189	0.0000	0.0189	2.8600e-003	0.0000	2.8600e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0189**	**0.0000**	**0.0189**	**2.8600e-003**	**0.0000**	**2.8600e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1981	7.6121	2.1382	0.0292	0.7945	0.0576	0.8521	0.2192	0.0551	0.2743		3,305.5914	3,305.5914	0.3151	0.5294	3,471.2402
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	0.0000	0.0000	0.0000	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	**0.1981**	**7.6121**	**2.1382**	**0.0292**	**0.7945**	**0.0576**	**0.8521**	**0.2192**	**0.0551**	**0.2743**		**3,305.5914**	**3,305.5914**	**0.3151**	**0.5294**	**3,471.2402**

3.8 Site Preparation Soil Haul 2023 - 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					
Fugitive Dust					0.0442	0.0000	0.0442	6.7000e-003	0.0000	6.7000e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0442**	**0.0000**	**0.0442**	**6.7000e-003**	**0.0000**	**6.7000e-003**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Hauling	0.1019	5.8250	1.9968	0.0274	0.8524	0.0375	0.8899	0.2334	0.0359	0.2693		3,126.0457	3,126.0457	0.3154	0.5015	3,283.3653
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	0.0000	0.0000	0.0000	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	**0.1019**	**5.8250**	**1.9968**	**0.0274**	**0.8524**	**0.0375**	**0.8899**	**0.2334**	**0.0359**	**0.2693**		**3,126.0457**	**3,126.0457**	**0.3154**	**0.5015**	**3,283.3653**

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					0.0189	0.0000	0.0189	2.8600e-003	0.0000	2.8600e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0189**	**0.0000**	**0.0189**	**2.8600e-003**	**0.0000**	**2.8600e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1019	5.8250	1.9968	0.0274	0.7943	0.0375	0.8318	0.2192	0.0359	0.2550		3,126.0457	3,126.0457	0.3154	0.5015	3,283.3653
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	0.0000	0.0000	0.0000	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	**0.1019**	**5.8250**	**1.9968**	**0.0274**	**0.7943**	**0.0375**	**0.8318**	**0.2192**	**0.0359**	**0.2550**		**3,126.0457**	**3,126.0457**	**0.3154**	**0.5015**	**3,283.3653**

3.9 Retail and Residential Building A 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	0.7168	6.6706	6.0084	0.0127		0.2793	0.2793		0.2608	0.2608		1,194.5600	1,194.5600	0.3500		1,203.3096
Total	**0.7168**	**6.6706**	**6.0084**	**0.0127**		**0.2793**	**0.2793**		**0.2608**	**0.2608**		**1,194.5600**	**1,194.5600**	**0.3500**		**1,203.3096**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.1131	3.9252	1.6274	0.0201	0.7162	0.0201	0.7363	0.2061	0.0193	0.2254		2,211.4331	2,211.4331	0.1315	0.3173	2,309.2793
Worker	0.8082	0.5170	8.7644	0.0271	3.2080	0.0164	3.2243	0.8508	0.0151	0.8658		2,736.1480	2,736.1480	0.0601	0.0591	2,755.2662
Total	**0.9213**	**4.4422**	**10.3918**	**0.0472**	**3.9241**	**0.0365**	**3.9606**	**1.0569**	**0.0343**	**1.0912**		**4,947.5811**	**4,947.5811**	**0.1916**	**0.3764**	**5,064.5455**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4107	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.5600	1,194.5600	0.3500		1,203.3096
Total	**0.3329**	**1.8463**	**6.4107**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.5600**	**1,194.5600**	**0.3500**		**1,203.3096**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.1131	3.9252	1.6274	0.0201	0.6702	0.0201	0.6903	0.1948	0.0193	0.2141		2,211.4331	2,211.4331	0.1315	0.3173	2,309.2793
Worker	0.8082	0.5170	8.7644	0.0271	2.9570	0.0164	2.9733	0.7892	0.0151	0.8042		2,736.1480	2,736.1480	0.0601	0.0591	2,755.2662
Total	**0.9213**	**4.4422**	**10.3918**	**0.0472**	**3.6272**	**0.0365**	**3.6636**	**0.9840**	**0.0343**	**1.0183**		**4,947.5811**	**4,947.5811**	**0.1916**	**0.3764**	**5,064.5455**

3.9 Retail and Residential Building A Building Construction - 2024

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	0.7005	6.3874	5.8937	0.0127		0.2619	0.2619		0.2448	0.2448		1,194.4011	1,194.4011	0.3499		1,203.1493
Total	**0.7005**	**6.3874**	**5.8937**	**0.0127**		**0.2619**	**0.2619**		**0.2448**	**0.2448**		**1,194.4011**	**1,194.4011**	**0.3499**		**1,203.1493**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.1114	3.9136	1.6153	0.0198	0.7161	0.0211	0.7372	0.2061	0.0202	0.2263		2,177.1273	2,177.1273	0.1329	0.3137	2,273.9358
Worker	0.7595	0.4643	8.1554	0.0262	3.2080	0.0155	3.2235	0.8508	0.0143	0.8651		2,649.2537	2,649.2537	0.0545	0.0553	2,667.0907
Total	**0.8709**	**4.3779**	**9.7707**	**0.0460**	**3.9241**	**0.0366**	**3.9607**	**1.0569**	**0.0345**	**1.0913**		**4,826.3810**	**4,826.3810**	**0.1874**	**0.3690**	**4,941.0265**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4104	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.4011	1,194.4011	0.3499		1,203.1493
Total	**0.3329**	**1.8463**	**6.4104**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.4011**	**1,194.4011**	**0.3499**		**1,203.1493**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.1114	3.9136	1.6153	0.0198	0.6702	0.0211	0.6912	0.1948	0.0202	0.2150		2,177.1273	2,177.1273	0.1329	0.3137	2,273.9358
Worker	0.7595	0.4643	8.1554	0.0262	2.9570	0.0155	2.9725	0.7892	0.0143	0.8035		2,649.2537	2,649.2537	0.0545	0.0553	2,667.0907
Total	**0.8709**	**4.3779**	**9.7707**	**0.0460**	**3.6271**	**0.0366**	**3.6637**	**0.9840**	**0.0345**	**1.0184**		**4,826.3810**	**4,826.3810**	**0.1874**	**0.3690**	**4,941.0265**

3.9 Retail and Residential Building A Building Construction - 2025

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.1098	3.8943	1.6088	0.0194	0.7161	0.0212	0.7373	0.2061	0.0203	0.2264		2,136.3693	2,136.3693	0.1346	0.3091	2,231.8581
Worker	0.7168	0.4205	7.6555	0.0253	3.2080	0.0148	3.2228	0.8508	0.0137	0.8644		2,559.0487	2,559.0487	0.0495	0.0520	2,575.7847
Total	**0.8266**	**4.3149**	**9.2643**	**0.0447**	**3.9241**	**0.0360**	**3.9601**	**1.0569**	**0.0339**	**1.0908**		**4,695.4179**	**4,695.4179**	**0.1841**	**0.3612**	**4,807.6429**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4104	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.3329**	**1.8463**	**6.4104**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.1098	3.8943	1.6088	0.0194	0.6701	0.0212	0.6913	0.1948	0.0203	0.2151		2,136.3693	2,136.3693	0.1346	0.3091	2,231.8581
Worker	0.7168	0.4205	7.6555	0.0253	2.9570	0.0148	2.9718	0.7892	0.0137	0.8028		2,559.0487	2,559.0487	0.0495	0.0520	2,575.7847
Total	**0.8266**	**4.3149**	**9.2643**	**0.0447**	**3.6271**	**0.0360**	**3.6632**	**0.9840**	**0.0339**	**1.0179**		**4,695.4179**	**4,695.4179**	**0.1841**	**0.3612**	**4,807.6429**

3.10 Retail 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	50.3127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3833	2.6060	3.6222	5.9400e-003		0.1416	0.1416		0.1416	0.1416		562.8961	562.8961	0.0337		563.7380
Total	**50.6961**	**2.6060**	**3.6222**	**5.9400e-003**		**0.1416**	**0.1416**		**0.1416**	**0.1416**		**562.8961**	**562.8961**	**0.0337**		**563.7380**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0591	0.0378	0.6413	1.9800e-003	0.2347	1.2000e-003	0.2359	0.0623	1.1000e-003	0.0634		200.2060	200.2060	4.4000e-003	4.3300e-003	201.6048
Total	**0.0591**	**0.0378**	**0.6413**	**1.9800e-003**	**0.2347**	**1.2000e-003**	**0.2359**	**0.0623**	**1.1000e-003**	**0.0634**		**200.2060**	**200.2060**	**4.4000e-003**	**4.3300e-003**	**201.6048**

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	50.3127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0337		563.7380
Total	**50.3722**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0337**		**563.7380**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0591	0.0378	0.6413	1.9800e-003	0.2164	1.2000e-003	0.2176	0.0577	1.1000e-003	0.0588		200.2060	200.2060	4.4000e-003	4.3300e-003	201.6048
Total	**0.0591**	**0.0378**	**0.6413**	**1.9800e-003**	**0.2164**	**1.2000e-003**	**0.2176**	**0.0577**	**1.1000e-003**	**0.0588**		**200.2060**	**200.2060**	**4.4000e-003**	**4.3300e-003**	**201.6048**

3.11 Finishing and Landscaping - 2024

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	0.4513	5.2891	2.1082	8.4200e-003		0.1715	0.1715		0.1578	0.1578		815.1913	815.1913	0.2637		821.7826
Total	**0.4513**	**5.2891**	**2.1082**	**8.4200e-003**		**0.1715**	**0.1715**		**0.1578**	**0.1578**		**815.1913**	**815.1913**	**0.2637**		**821.7826**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	7.9400e-003	4.8500e-003	0.0853	2.7000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		27.6926	27.6926	5.7000e-004	5.8000e-004	27.8790
Total	**7.9400e-003**	**4.8500e-003**	**0.0853**	**2.7000e-004**	**0.0335**	**1.6000e-004**	**0.0337**	**8.8900e-003**	**1.5000e-004**	**9.0400e-003**		**27.6926**	**27.6926**	**5.7000e-004**	**5.8000e-004**	**27.8790**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1033	0.4475	3.7862	8.4200e-003		0.0138	0.0138		0.0138	0.0138	0.0000	815.1913	815.1913	0.2637		821.7826
Total	**0.1033**	**0.4475**	**3.7862**	**8.4200e-003**		**0.0138**	**0.0138**		**0.0138**	**0.0138**	**0.0000**	**815.1913**	**815.1913**	**0.2637**		**821.7826**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	7.9400e-003	4.8500e-003	0.0853	2.7000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		27.6926	27.6926	5.7000e-004	5.8000e-004	27.8790
Total	**7.9400e-003**	**4.8500e-003**	**0.0853**	**2.7000e-004**	**0.0309**	**1.6000e-004**	**0.0311**	**8.2500e-003**	**1.5000e-004**	**8.4000e-003**		**27.6926**	**27.6926**	**5.7000e-004**	**5.8000e-004**	**27.8790**

3.12 Paving - 2024

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	0.4666	4.9575	5.6292	0.0128		0.2106	0.2106		0.1938	0.1938		1,234.0097	1,234.0097	0.3991		1,243.9873
Paving	3.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3390**	**4.9575**	**5.6292**	**0.0128**		**0.2106**	**0.2106**		**0.1938**	**0.1938**		**1,234.0097**	**1,234.0097**	**0.3991**		**1,243.9873**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0212	0.0129	0.2273	7.3000e-004	0.0894	4.3000e-004	0.0899	0.0237	4.0000e-004	0.0241		73.8468	73.8468	1.5200e-003	1.5400e-003	74.3440
Total	**0.0212**	**0.0129**	**0.2273**	**7.3000e-004**	**0.0894**	**4.3000e-004**	**0.0899**	**0.0237**	**4.0000e-004**	**0.0241**		**73.8468**	**73.8468**	**1.5200e-003**	**1.5400e-003**	**74.3440**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1561	0.6765	7.5384	0.0128		0.0208	0.0208		0.0208	0.0208	0.0000	1,234.0097	1,234.0097	0.3991		1,243.9873
Paving	3.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.0285**	**0.6765**	**7.5384**	**0.0128**		**0.0208**	**0.0208**		**0.0208**	**0.0208**	**0.0000**	**1,234.0097**	**1,234.0097**	**0.3991**		**1,243.9873**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0212	0.0129	0.2273	7.3000e-004	0.0824	4.3000e-004	0.0829	0.0220	4.0000e-004	0.0224		73.8468	73.8468	1.5200e-003	1.5400e-003	74.3440
Total	**0.0212**	**0.0129**	**0.2273**	**7.3000e-004**	**0.0824**	**4.3000e-004**	**0.0829**	**0.0220**	**4.0000e-004**	**0.0224**		**73.8468**	**73.8468**	**1.5200e-003**	**1.5400e-003**	**74.3440**

3.13 Residential Architectural Coating - 2025

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	41.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**41.7249**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0525	0.0308	0.5602	1.8500e-003	0.2347	1.0900e-003	0.2358	0.0623	1.0000e-003	0.0633		187.2475	187.2475	3.6200e-003	3.8100e-003	188.4721
Total	**0.0525**	**0.0308**	**0.5602**	**1.8500e-003**	**0.2347**	**1.0900e-003**	**0.2358**	**0.0623**	**1.0000e-003**	**0.0633**		**187.2475**	**187.2475**	**3.6200e-003**	**3.8100e-003**	**188.4721**

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	41.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**41.4426**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0525	0.0308	0.5602	1.8500e-003	0.2164	1.0900e-003	0.2175	0.0577	1.0000e-003	0.0587		187.2475	187.2475	3.6200e-003	3.8100e-003	188.4721
Total	**0.0525**	**0.0308**	**0.5602**	**1.8500e-003**	**0.2164**	**1.0900e-003**	**0.2175**	**0.0577**	**1.0000e-003**	**0.0587**		**187.2475**	**187.2475**	**3.6200e-003**	**3.8100e-003**	**188.4721**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	476.80	1000sqft	5.47	476,800.00	0
Other Asphalt Surfaces	192.00	1000sqft	4.41	192,000.00	0
Other Non-Asphalt Surfaces	124.72	1000sqft	2.86	124,717.00	0
Parking Lot	129.81	1000sqft	2.98	129,809.00	0
Health Club	128.00	1000sqft	0.98	128,000.00	0
Apartments Mid Rise	390.00	Dwelling Unit	0.00	436,500.00	1115
Regional Shopping Center	119.42	1000sqft	0.80	119,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - structures are comprised of multiple stories

Construction Phase - based on information provided by applicant. see project description for construction durations

Off-road Equipment - based on information provided by the applicant

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - no additional equipment required for asphalt demolition debris haul

Off-road Equipment - based on information provided by applicant

Off-road Equipment - no additional equipment required for building demolition haul

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - no additional equipment required for site preparation soil haul

Off-road Equipment - no additional equipment required for site preparation soil haul

Trips and VMT - assumes 4 vt/water truck/day. Assumes that 2 dump trucks will be used for asphalt demo haul. Building Construction and Arch Coat are calculated based on CalEEMod Appendix A rates

Demolition -

Grading -

Architectural Coating - see assumptions file for calculations. Parking only accounts for parking area and driveways

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and SCAQMD Rule 1186, MM: Tier 4 (Final) Equipment hp>50

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	123,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	371,123.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,400.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,400.00	47,917.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	294,638.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	883,913.00	0.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	300.00	695.00
tblConstructionPhase	NumDays	20.00	88.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	98.00
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	NumDays	10.00	33.00

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblGrading	MaterialExported	0.00	25,416.00
tblGrading	MaterialExported	0.00	12,904.00
tblLandUse	LandUseSquareFeet	124,720.00	124,717.00
tblLandUse	LandUseSquareFeet	129,810.00	129,809.00
tblLandUse	LandUseSquareFeet	390,000.00	436,500.00
tblLandUse	LandUseSquareFeet	119,420.00	119,415.00
tblLandUse	LotAcreage	10.95	5.47
tblLandUse	LotAcreage	2.94	0.98
tblLandUse	LotAcreage	10.26	0.00
tblLandUse	LotAcreage	2.74	0.80
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	158.00	131.00
tblOffRoadEquipment	HorsePower	130.00	188.00
tblOffRoadEquipment	HorsePower	80.00	86.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	85.00	350.00
tblOffRoadEquipment	HorsePower	158.00	101.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	367.00	365.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	HaulingTripNumber	158.00	160.00
tblTripsAndVMT	HaulingTripNumber	112.00	163.00
tblTripsAndVMT	HaulingTripNumber	3,177.00	3,178.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	234.00	112.00
tblTripsAndVMT	WorkerTripNumber	152.00	21.00
tblTripsAndVMT	WorkerTripNumber	761.00	287.00
tblTripsAndVMT	WorkerTripNumber	152.00	21.00

2.0 Emissions Summary

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	9.2804	109.5393	67.3886	0.1941	11.9187	3.8738	15.7925	1.7867	3.5661	5.0625	0.0000	19,298.1933	19,298.1933	5.3669	0.6100	19,596.1826
2023	52.4699	110.3684	80.9415	0.2508	15.8426	3.8624	19.7050	2.5532	3.5593	6.1126	0.0000	25,117.5422	25,117.5422	5.9080	0.9019	25,533.9978
2024	6.4629	21.2517	23.1944	0.0796	4.0471	0.6814	4.7285	1.0895	0.6315	1.7209	0.0000	8,043.5030	8,043.5030	1.2033	0.3755	8,185.4755
2025	43.3469	12.7786	18.6797	0.0639	4.1588	0.3769	4.5358	1.1191	0.3596	1.4787	0.0000	6,512.5780	6,512.5780	0.5695	0.3692	6,636.8319
Maximum	**52.4699**	**110.3684**	**80.9415**	**0.2508**	**15.8426**	**3.8738**	**19.7050**	**2.5532**	**3.5661**	**6.1126**	**0.0000**	**25,117.5422**	**25,117.5422**	**5.9080**	**0.9019**	**25,533.9978**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.2893	16.7329	77.6814	0.1941	5.7316	0.3249	6.0565	0.9222	0.3222	1.1370	0.0000	19,298.1933	19,298.1933	5.3669	0.6100	19,596.1826
2023	51.7621	21.3603	93.7046	0.2508	9.3585	0.4053	9.7638	1.7987	0.4013	2.2000	0.0000	25,117.5422	25,117.5422	5.9080	0.9019	25,533.9978
2024	5.4368	7.5881	27.2984	0.0796	3.7405	0.1369	3.8774	1.0142	0.1347	1.1490	0.0000	8,043.5030	8,043.5030	1.2033	0.3755	8,185.4755
2025	42.7274	6.6680	19.4008	0.0639	3.8435	0.1102	3.9537	1.0417	0.1080	1.1497	0.0000	6,512.5780	6,512.5780	0.5695	0.3692	6,636.8319
Maximum	**51.7621**	**21.3603**	**93.7046**	**0.2508**	**9.3585**	**0.4053**	**9.7638**	**1.7987**	**0.4013**	**2.2000**	**0.0000**	**25,117.5422**	**25,117.5422**	**5.9080**	**0.9019**	**25,533.9978**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**8.38**	**79.39**	**-14.66**	**0.00**	**36.96**	**88.89**	**47.16**	**27.05**	**88.10**	**60.79**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	6/1/2022	9/30/2022	5	88	
2	Asphalt Demolition	Demolition	7/1/2022	8/15/2022	5	32	
3	Building Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	
4	Asphalt Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	
5	Site Preparation	Site Preparation	10/1/2022	2/15/2023	5	98	
6	Site Preparation Soil Haul 2022	Site Preparation	10/1/2022	12/31/2022	5	65	
7	Site Preparation Soil Haul 2023	Site Preparation	1/1/2023	2/15/2023	5	33	
8	Retail and Residential Building A Building Construction	Building Construction	2/1/2023	9/30/2025	5	695	
9	Retail Architectural Coating	Architectural Coating	10/15/2023	12/23/2023	5	50	
10	Finishing and Landscaping	Trenching	4/1/2024	4/30/2024	5	22	
11	Paving	Paving	4/1/2024	4/7/2024	5	5	
12	Residential Architectural Coating	Architectural Coating	7/1/2025	9/30/2025	5	66	

Acres of Grading (Site Preparation Phase): 980

Acres of Grading (Grading Phase): 0

Acres of Paving: 15.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 371,123; Non-Residential Outdoor: 123,708; Striped Parking Area: 47,917

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition	Crushing/Proc. Equipment	1	8.00	350	0.78
Building Demolition	Excavators	2	8.00	131	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	0	8.00	158	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Excavators	1	8.00	101	0.38
Site Preparation	Graders	4	8.00	238	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Scrapers	8	8.00	365	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation Soil Haul 2022	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2022	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation Soil Haul 2023	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2023	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Retail and Residential Building A Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Retail and Residential Building A Building Construction	Cranes	1	8.00	300	0.29
Retail and Residential Building A Building Construction	Forklifts	0	8.00	89	0.20
Retail and Residential Building A Building Construction	Generator Sets	0	8.00	84	0.74
Retail and Residential Building A Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Retail and Residential Building A Building Construction	Welders	0	8.00	46	0.45
Retail Architectural Coating	Air Compressors	2	6.00	78	0.48
Finishing and Landscaping	Graders	1	8.00	238	0.41
Paving	Pavers	1	8.00	188	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	86	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Residential Architectural Coating	Air Compressors	2	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Demolition	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	0	0.00	0.00	160.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	0	0.00	0.00	163.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	14	35.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2022	0	0.00	0.00	3,178.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2023	0	0.00	0.00	1,613.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail and Residential Building A Building	3	287.00	112.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail Architectural Coating	2	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing and Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Architectural Coating	2	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building 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					
Off-Road	1.7282	11.3102	12.7732	0.0358		0.4637	0.4637		0.4451	0.4451		3,866.6787	3,866.6787	0.4763		3,878.5869
Total	**1.7282**	**11.3102**	**12.7732**	**0.0358**		**0.4637**	**0.4637**		**0.4451**	**0.4451**		**3,866.6787**	**3,866.6787**	**0.4763**		**3,878.5869**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6800e-003	9.0400e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	0.0328	0.0222	0.3058	9.3000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		93.7501	93.7501	2.3700e-003	2.3600e-003	94.5111
Total	**0.0393**	**0.2087**	**0.3718**	**1.6900e-003**	**0.1374**	**2.3500e-003**	**0.1397**	**0.0370**	**2.2300e-003**	**0.0392**		**176.7192**	**176.7192**	**7.1100e-003**	**0.0143**	**181.1446**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4322	1.8730	19.4318	0.0358		0.0576	0.0576		0.0576	0.0576	0.0000	3,866.6787	3,866.6787	0.4763		3,878.5869
Total	**0.4322**	**1.8730**	**19.4318**	**0.0358**		**0.0576**	**0.0576**		**0.0576**	**0.0576**	**0.0000**	**3,866.6787**	**3,866.6787**	**0.4763**		**3,878.5869**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6800e-003	8.6300e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	0.0328	0.0222	0.3058	9.3000e-004	0.1030	6.0000e-004	0.1036	0.0275	5.5000e-004	0.0281		93.7501	93.7501	2.3700e-003	2.3600e-003	94.5111
Total	**0.0393**	**0.2087**	**0.3718**	**1.6900e-003**	**0.1270**	**2.3500e-003**	**0.1293**	**0.0345**	**2.2300e-003**	**0.0367**		**176.7192**	**176.7192**	**7.1100e-003**	**0.0143**	**181.1446**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Asphalt 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					
Off-Road	0.1647	1.6756	2.2379	3.1100e-003		0.0901	0.0901		0.0829	0.0829		301.2390	301.2390	0.0974		303.6746
Total	**0.1647**	**1.6756**	**2.2379**	**3.1100e-003**		**0.0901**	**0.0901**		**0.0829**	**0.0829**		**301.2390**	**301.2390**	**0.0974**		**303.6746**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6800e-003	9.0400e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	9.8300e-003	6.6600e-003	0.0917	2.8000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		28.1250	28.1250	7.1000e-004	7.1000e-004	28.3533
Total	**0.0164**	**0.1932**	**0.1578**	**1.0400e-003**	**0.0591**	**1.9300e-003**	**0.0610**	**0.0163**	**1.8500e-003**	**0.0181**		**111.0941**	**111.0941**	**5.4500e-003**	**0.0126**	**114.9868**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0380	0.1646	2.3421	3.1100e-003		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	301.2390	301.2390	0.0974		303.6746
Total	**0.0380**	**0.1646**	**2.3421**	**3.1100e-003**		**5.0600e-003**	**5.0600e-003**		**5.0600e-003**	**5.0600e-003**	**0.0000**	**301.2390**	**301.2390**	**0.0974**		**303.6746**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6800e-003	8.6300e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	9.8300e-003	6.6600e-003	0.0917	2.8000e-004	0.0309	1.8000e-004	0.0311	8.2500e-003	1.7000e-004	8.4200e-003		28.1250	28.1250	7.1000e-004	7.1000e-004	28.3533
Total	**0.0164**	**0.1932**	**0.1578**	**1.0400e-003**	**0.0549**	**1.9300e-003**	**0.0568**	**0.0152**	**1.8500e-003**	**0.0171**		**111.0941**	**111.0941**	**5.4500e-003**	**0.0126**	**114.9868**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Demolition Debris Haul - 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					5.7064	0.0000	5.7064	0.8640	0.0000	0.8640			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.7064**	**0.0000**	**5.7064**	**0.8640**	**0.0000**	**0.8640**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1054	4.3149	1.1833	0.0159	0.4651	0.0315	0.4966	0.1274	0.0301	0.1575		1,803.3521	1,803.3521	0.1717	0.2888	1,893.7185
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	0.0000	0.0000	0.0000	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	**0.1054**	**4.3149**	**1.1833**	**0.0159**	**0.4651**	**0.0315**	**0.4966**	**0.1274**	**0.0301**	**0.1575**		**1,803.3521**	**1,803.3521**	**0.1717**	**0.2888**	**1,893.7185**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4395	0.0000	2.4395	0.3694	0.0000	0.3694			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.4395**	**0.0000**	**2.4395**	**0.3694**	**0.0000**	**0.3694**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1054	4.3149	1.1833	0.0159	0.4334	0.0315	0.4648	0.1196	0.0301	0.1497		1,803.3521	1,803.3521	0.1717	0.2888	1,893.7185
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	0.0000	0.0000	0.0000	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	**0.1054**	**4.3149**	**1.1833**	**0.0159**	**0.4334**	**0.0315**	**0.4648**	**0.1196**	**0.0301**	**0.1497**		**1,803.3521**	**1,803.3521**	**0.1717**	**0.2888**	**1,893.7185**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Asphalt Demolition Debris Haul - 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					4.0444	0.0000	4.0444	0.6124	0.0000	0.6124			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**4.0444**	**0.0000**	**4.0444**	**0.6124**	**0.0000**	**0.6124**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1074	4.3958	1.2055	0.0162	0.4738	0.0321	0.5059	0.1298	0.0307	0.1604		1,837.1650	1,837.1650	0.1749	0.2943	1,929.2257
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	0.0000	0.0000	0.0000	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	**0.1074**	**4.3958**	**1.2055**	**0.0162**	**0.4738**	**0.0321**	**0.5059**	**0.1298**	**0.0307**	**0.1604**		**1,837.1650**	**1,837.1650**	**0.1749**	**0.2943**	**1,929.2257**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7290	0.0000	1.7290	0.2618	0.0000	0.2618			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.7290**	**0.0000**	**1.7290**	**0.2618**	**0.0000**	**0.2618**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1074	4.3958	1.2055	0.0162	0.4415	0.0321	0.4736	0.1218	0.0307	0.1525		1,837.1650	1,837.1650	0.1749	0.2943	1,929.2257
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	0.0000	0.0000	0.0000	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	**0.1074**	**4.3958**	**1.2055**	**0.0162**	**0.4415**	**0.0321**	**0.4736**	**0.1218**	**0.0307**	**0.1525**		**1,837.1650**	**1,837.1650**	**0.1749**	**0.2943**	**1,929.2257**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 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					10.6050	0.0000	10.6050	1.1451	0.0000	1.1451			0.0000			0.0000
Off-Road	8.9659	101.3640	64.0828	0.1609		3.8122	3.8122		3.5072	3.5072		15,580.7221	15,580.7221	5.0391		15,706.7002
Total	**8.9659**	**101.3640**	**64.0828**	**0.1609**	**10.6050**	**3.8122**	**14.4172**	**1.1451**	**3.5072**	**4.6523**		**15,580.7221**	**15,580.7221**	**5.0391**		**15,706.7002**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6800e-003	9.0400e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	0.1147	0.0777	1.0704	3.2500e-003	0.3912	2.1100e-003	0.3933	0.1038	1.9400e-003	0.1057		328.1253	328.1253	8.2900e-003	8.2400e-003	330.7889
Total	**0.1212**	**0.2642**	**1.1364**	**4.0100e-003**	**0.4168**	**3.8600e-003**	**0.4207**	**0.1111**	**3.6200e-003**	**0.1147**		**411.0944**	**411.0944**	**0.0130**	**0.0201**	**417.4223**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					4.5336	0.0000	4.5336	0.4895	0.0000	0.4895			0.0000			0.0000
Off-Road	1.9748	8.5576	74.3756	0.1609		0.2633	0.2633		0.2633	0.2633	0.0000	15,580.7221	15,580.7221	5.0391		15,706.7002
Total	**1.9748**	**8.5576**	**74.3756**	**0.1609**	**4.5336**	**0.2633**	**4.7970**	**0.4895**	**0.2633**	**0.7528**	**0.0000**	**15,580.7221**	**15,580.7221**	**5.0391**		**15,706.7002**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6800e-003	8.6300e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	0.1147	0.0777	1.0704	3.2500e-003	0.3606	2.1100e-003	0.3627	0.0962	1.9400e-003	0.0982		328.1253	328.1253	8.2900e-003	8.2400e-003	330.7889
Total	**0.1212**	**0.2642**	**1.1364**	**4.0100e-003**	**0.3846**	**3.8600e-003**	**0.3884**	**0.1032**	**3.6200e-003**	**0.1068**		**411.0944**	**411.0944**	**0.0130**	**0.0201**	**417.4223**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Site Preparation - 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					
Fugitive Dust					10.6050	0.0000	10.6050	1.1451	0.0000	1.1451			0.0000			0.0000
Off-Road	8.5191	92.7414	62.0147	0.1609		3.5061	3.5061		3.2256	3.2256		15,577.2716	15,577.2716	5.0380		15,703.2217
Total	**8.5191**	**92.7414**	**62.0147**	**0.1609**	**10.6050**	**3.5061**	**14.1111**	**1.1451**	**3.2256**	**4.3707**		**15,577.2716**	**15,577.2716**	**5.0380**		**15,703.2217**

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	3.9000e-003	0.1464	0.0600	7.2000e-004	0.0256	7.2000e-004	0.0263	7.3600e-003	6.9000e-004	8.0500e-003		79.0959	79.0959	4.6800e-003	0.0114	82.5978
Worker	0.1077	0.0692	0.9957	3.1400e-003	0.3912	1.9900e-003	0.3932	0.1038	1.8400e-003	0.1056		317.7237	317.7237	7.5100e-003	7.6700e-003	320.1969
Total	**0.1116**	**0.2157**	**1.0557**	**3.8600e-003**	**0.4168**	**2.7100e-003**	**0.4195**	**0.1111**	**2.5300e-003**	**0.1136**		**396.8196**	**396.8196**	**0.0122**	**0.0190**	**402.7947**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					4.5336	0.0000	4.5336	0.4895	0.0000	0.4895			0.0000			0.0000
Off-Road	1.9748	8.5576	74.3756	0.1609		0.2633	0.2633		0.2633	0.2633	0.0000	15,577.2716	15,577.2716	5.0380		15,703.2217
Total	**1.9748**	**8.5576**	**74.3756**	**0.1609**	**4.5336**	**0.2633**	**4.7970**	**0.4895**	**0.2633**	**0.7528**	**0.0000**	**15,577.2716**	**15,577.2716**	**5.0380**		**15,703.2217**

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	3.9000e-003	0.1464	0.0600	7.2000e-004	0.0239	7.2000e-004	0.0247	6.9600e-003	6.9000e-004	7.6500e-003		79.0959	79.0959	4.6800e-003	0.0114	82.5978
Worker	0.1077	0.0692	0.9957	3.1400e-003	0.3606	1.9900e-003	0.3626	0.0962	1.8400e-003	0.0981		317.7237	317.7237	7.5100e-003	7.6700e-003	320.1969
Total	**0.1116**	**0.2157**	**1.0557**	**3.8600e-003**	**0.3845**	**2.7100e-003**	**0.3873**	**0.1032**	**2.5300e-003**	**0.1057**		**396.8196**	**396.8196**	**0.0122**	**0.0190**	**402.7947**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Site Preparation Soil Haul 2022 - 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					0.0442	0.0000	0.0442	6.7000e-003	0.0000	6.7000e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0442**	**0.0000**	**0.0442**	**6.7000e-003**	**0.0000**	**6.7000e-003**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.1932	7.9111	2.1695	0.0292	0.8527	0.0577	0.9104	0.2335	0.0552	0.2887		3,306.3768	3,306.3768	0.3148	0.5296	3,472.0601
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	0.0000	0.0000	0.0000	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	**0.1932**	**7.9111**	**2.1695**	**0.0292**	**0.8527**	**0.0577**	**0.9104**	**0.2335**	**0.0552**	**0.2887**		**3,306.3768**	**3,306.3768**	**0.3148**	**0.5296**	**3,472.0601**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					0.0189	0.0000	0.0189	2.8600e-003	0.0000	2.8600e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0189**	**0.0000**	**0.0189**	**2.8600e-003**	**0.0000**	**2.8600e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1932	7.9111	2.1695	0.0292	0.7945	0.0577	0.8523	0.2192	0.0552	0.2745		3,306.3768	3,306.3768	0.3148	0.5296	3,472.0601
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	0.0000	0.0000	0.0000	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	**0.1932**	**7.9111**	**2.1695**	**0.0292**	**0.7945**	**0.0577**	**0.8523**	**0.2192**	**0.0552**	**0.2745**		**3,306.3768**	**3,306.3768**	**0.3148**	**0.5296**	**3,472.0601**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Site Preparation Soil Haul 2023 - 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					

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Fugitive Dust					0.0442	0.0000	0.0442	6.7000e-003	0.0000	6.7000e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0442**	**0.0000**	**0.0442**	**6.7000e-003**	**0.0000**	**6.7000e-003**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

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	0.0959	6.0728	2.0187	0.0275	0.8524	0.0376	0.8900	0.2334	0.0360	0.2694		3,128.8713	3,128.8713	0.3150	0.5019	3,286.3195
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	0.0000	0.0000	0.0000	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	**0.0959**	**6.0728**	**2.0187**	**0.0275**	**0.8524**	**0.0376**	**0.8900**	**0.2334**	**0.0360**	**0.2694**		**3,128.8713**	**3,128.8713**	**0.3150**	**0.5019**	**3,286.3195**

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					0.0189	0.0000	0.0189	2.8600e-003	0.0000	2.8600e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0189**	**0.0000**	**0.0189**	**2.8600e-003**	**0.0000**	**2.8600e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Hauling	0.0959	6.0728	2.0187	0.0275	0.7943	0.0376	0.8319	0.2192	0.0360	0.2551		3,128.8713	3,128.8713	0.3150	0.5019	3,286.3195
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	0.0000	0.0000	0.0000	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	**0.0959**	**6.0728**	**2.0187**	**0.0275**	**0.7943**	**0.0376**	**0.8319**	**0.2192**	**0.0360**	**0.2551**		**3,128.8713**	**3,128.8713**	**0.3150**	**0.5019**	**3,286.3195**

3.9 Retail and Residential Building A 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	0.7168	6.6706	6.0084	0.0127		0.2793	0.2793		0.2608	0.2608		1,194.5600	1,194.5600	0.3500		1,203.3096
Total	**0.7168**	**6.6706**	**6.0084**	**0.0127**		**0.2793**	**0.2793**		**0.2608**	**0.2608**		**1,194.5600**	**1,194.5600**	**0.3500**		**1,203.3096**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1092	4.1002	1.6794	0.0202	0.7162	0.0203	0.7364	0.2061	0.0194	0.2255		2,214.6856	2,214.6856	0.1312	0.3180	2,312.7380
Worker	0.8832	0.5677	8.1646	0.0258	3.2080	0.0164	3.2243	0.8508	0.0151	0.8658		2,605.3341	2,605.3341	0.0616	0.0629	2,625.6145
Total	**0.9924**	**4.6679**	**9.8440**	**0.0459**	**3.9241**	**0.0366**	**3.9608**	**1.0569**	**0.0344**	**1.0913**		**4,820.0197**	**4,820.0197**	**0.1928**	**0.3809**	**4,938.3524**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4107	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.5600	1,194.5600	0.3500		1,203.3096
Total	**0.3329**	**1.8463**	**6.4107**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.5600**	**1,194.5600**	**0.3500**		**1,203.3096**

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	0.1092	4.1002	1.6794	0.0202	0.6702	0.0203	0.6904	0.1948	0.0194	0.2142		2,214.6856	2,214.6856	0.1312	0.3180	2,312.7380
Worker	0.8832	0.5677	8.1646	0.0258	2.9570	0.0164	2.9733	0.7892	0.0151	0.8042		2,605.3341	2,605.3341	0.0616	0.0629	2,625.6145
Total	**0.9924**	**4.6679**	**9.8440**	**0.0459**	**3.6272**	**0.0366**	**3.6638**	**0.9840**	**0.0344**	**1.0184**		**4,820.0197**	**4,820.0197**	**0.1928**	**0.3809**	**4,938.3524**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Retail and Residential Building A Building Construction - 2024

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	0.7005	6.3874	5.8937	0.0127		0.2619	0.2619		0.2448	0.2448		1,194.4011	1,194.4011	0.3499		1,203.1493
Total	**0.7005**	**6.3874**	**5.8937**	**0.0127**		**0.2619**	**0.2619**		**0.2448**	**0.2448**		**1,194.4011**	**1,194.4011**	**0.3499**		**1,203.1493**

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	0.1075	4.0885	1.6662	0.0198	0.7161	0.0212	0.7373	0.2061	0.0203	0.2264		2,180.4084	2,180.4084	0.1325	0.3144	2,277.4187
Worker	0.8328	0.5097	7.6057	0.0250	3.2080	0.0155	3.2235	0.8508	0.0143	0.8651		2,522.7998	2,522.7998	0.0559	0.0588	2,541.7199
Total	**0.9402**	**4.5982**	**9.2718**	**0.0448**	**3.9241**	**0.0367**	**3.9609**	**1.0569**	**0.0346**	**1.0915**		**4,703.2082**	**4,703.2082**	**0.1884**	**0.3732**	**4,819.1386**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4104	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.4011	1,194.4011	0.3499		1,203.1493
Total	**0.3329**	**1.8463**	**6.4104**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.4011**	**1,194.4011**	**0.3499**		**1,203.1493**

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	0.1075	4.0885	1.6662	0.0198	0.6702	0.0212	0.6914	0.1948	0.0203	0.2151		2,180.4084	2,180.4084	0.1325	0.3144	2,277.4187
Worker	0.8328	0.5097	7.6057	0.0250	2.9570	0.0155	2.9725	0.7892	0.0143	0.8035		2,522.7998	2,522.7998	0.0559	0.0588	2,541.7199
Total	**0.9402**	**4.5982**	**9.2718**	**0.0448**	**3.6271**	**0.0367**	**3.6639**	**0.9840**	**0.0346**	**1.0186**		**4,703.2082**	**4,703.2082**	**0.1884**	**0.3732**	**4,819.1386**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Retail and Residential Building A Building Construction - 2025

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.1058	4.0688	1.6586	0.0194	0.7161	0.0213	0.7374	0.2061	0.0204	0.2265		2,139.6584	2,139.6584	0.1342	0.3098	2,235.3448
Worker	0.7884	0.4616	7.1442	0.0241	3.2080	0.0148	3.2228	0.8508	0.0137	0.8644		2,437.1572	2,437.1572	0.0509	0.0553	2,454.9088
Total	**0.8942**	**4.5304**	**8.8028**	**0.0435**	**3.9241**	**0.0362**	**3.9603**	**1.0569**	**0.0340**	**1.0909**		**4,576.8156**	**4,576.8156**	**0.1851**	**0.3651**	**4,690.2535**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4104	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.3329**	**1.8463**	**6.4104**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1058	4.0688	1.6586	0.0194	0.6701	0.0213	0.6915	0.1948	0.0204	0.2152		2,139.6584	2,139.6584	0.1342	0.3098	2,235.3448
Worker	0.7884	0.4616	7.1442	0.0241	2.9570	0.0148	2.9718	0.7892	0.0137	0.8028		2,437.1572	2,437.1572	0.0509	0.0553	2,454.9088
Total	**0.8942**	**4.5304**	**8.8028**	**0.0435**	**3.6271**	**0.0362**	**3.6633**	**0.9840**	**0.0340**	**1.0180**		**4,576.8156**	**4,576.8156**	**0.1851**	**0.3651**	**4,690.2535**

3.10 Retail 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	50.3127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3833	2.6060	3.6222	5.9400e-003		0.1416	0.1416		0.1416	0.1416		562.8961	562.8961	0.0337		563.7380
Total	**50.6961**	**2.6060**	**3.6222**	**5.9400e-003**		**0.1416**	**0.1416**		**0.1416**	**0.1416**		**562.8961**	**562.8961**	**0.0337**		**563.7380**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0646	0.0415	0.5974	1.8900e-003	0.2347	1.2000e-003	0.2359	0.0623	1.1000e-003	0.0634		190.6342	190.6342	4.5100e-003	4.6000e-003	192.1181
Total	**0.0646**	**0.0415**	**0.5974**	**1.8900e-003**	**0.2347**	**1.2000e-003**	**0.2359**	**0.0623**	**1.1000e-003**	**0.0634**		**190.6342**	**190.6342**	**4.5100e-003**	**4.6000e-003**	**192.1181**

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	50.3127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0337		563.7380
Total	**50.3722**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0337**		**563.7380**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0646	0.0415	0.5974	1.8900e-003	0.2164	1.2000e-003	0.2176	0.0577	1.1000e-003	0.0588		190.6342	190.6342	4.5100e-003	4.6000e-003	192.1181
Total	**0.0646**	**0.0415**	**0.5974**	**1.8900e-003**	**0.2164**	**1.2000e-003**	**0.2176**	**0.0577**	**1.1000e-003**	**0.0588**		**190.6342**	**190.6342**	**4.5100e-003**	**4.6000e-003**	**192.1181**

3.11 Finishing and Landscaping - 2024

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	0.4513	5.2891	2.1082	8.4200e-003		0.1715	0.1715		0.1578	0.1578		815.1913	815.1913	0.2637		821.7826
Total	**0.4513**	**5.2891**	**2.1082**	**8.4200e-003**		**0.1715**	**0.1715**		**0.1578**	**0.1578**		**815.1913**	**815.1913**	**0.2637**		**821.7826**

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	8.7000e-003	5.3300e-003	0.0795	2.6000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		26.3707	26.3707	5.8000e-004	6.1000e-004	26.5685
Total	**8.7000e-003**	**5.3300e-003**	**0.0795**	**2.6000e-004**	**0.0335**	**1.6000e-004**	**0.0337**	**8.8900e-003**	**1.5000e-004**	**9.0400e-003**		**26.3707**	**26.3707**	**5.8000e-004**	**6.1000e-004**	**26.5685**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1033	0.4475	3.7862	8.4200e-003		0.0138	0.0138		0.0138	0.0138	0.0000	815.1913	815.1913	0.2637		821.7826
Total	**0.1033**	**0.4475**	**3.7862**	**8.4200e-003**		**0.0138**	**0.0138**		**0.0138**	**0.0138**	**0.0000**	**815.1913**	**815.1913**	**0.2637**		**821.7826**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	8.7000e-003	5.3300e-003	0.0795	2.6000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		26.3707	26.3707	5.8000e-004	6.1000e-004	26.5685
Total	**8.7000e-003**	**5.3300e-003**	**0.0795**	**2.6000e-004**	**0.0309**	**1.6000e-004**	**0.0311**	**8.2500e-003**	**1.5000e-004**	**8.4000e-003**		**26.3707**	**26.3707**	**5.8000e-004**	**6.1000e-004**	**26.5685**

3.12 Paving - 2024

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	0.4666	4.9575	5.6292	0.0128		0.2106	0.2106		0.1938	0.1938		1,234.0097	1,234.0097	0.3991		1,243.9873
Paving	3.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3390**	**4.9575**	**5.6292**	**0.0128**		**0.2106**	**0.2106**		**0.1938**	**0.1938**		**1,234.0097**	**1,234.0097**	**0.3991**		**1,243.9873**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0232	0.0142	0.2120	7.0000e-004	0.0894	4.3000e-004	0.0899	0.0237	4.0000e-004	0.0241		70.3220	70.3220	1.5600e-003	1.6400e-003	70.8493
Total	**0.0232**	**0.0142**	**0.2120**	**7.0000e-004**	**0.0894**	**4.3000e-004**	**0.0899**	**0.0237**	**4.0000e-004**	**0.0241**		**70.3220**	**70.3220**	**1.5600e-003**	**1.6400e-003**	**70.8493**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1561	0.6765	7.5384	0.0128		0.0208	0.0208		0.0208	0.0208	0.0000	1,234.0097	1,234.0097	0.3991		1,243.9873
Paving	3.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.0285**	**0.6765**	**7.5384**	**0.0128**		**0.0208**	**0.0208**		**0.0208**	**0.0208**	**0.0000**	**1,234.0097**	**1,234.0097**	**0.3991**		**1,243.9873**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0232	0.0142	0.2120	7.0000e-004	0.0824	4.3000e-004	0.0829	0.0220	4.0000e-004	0.0224		70.3220	70.3220	1.5600e-003	1.6400e-003	70.8493
Total	**0.0232**	**0.0142**	**0.2120**	**7.0000e-004**	**0.0824**	**4.3000e-004**	**0.0829**	**0.0220**	**4.0000e-004**	**0.0224**		**70.3220**	**70.3220**	**1.5600e-003**	**1.6400e-003**	**70.8493**

3.13 Residential Architectural Coating - 2025

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	41.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**41.7249**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0577	0.0338	0.5228	1.7600e-003	0.2347	1.0900e-003	0.2358	0.0623	1.0000e-003	0.0633		178.3286	178.3286	3.7200e-003	4.0500e-003	179.6275
Total	**0.0577**	**0.0338**	**0.5228**	**1.7600e-003**	**0.2347**	**1.0900e-003**	**0.2358**	**0.0623**	**1.0000e-003**	**0.0633**		**178.3286**	**178.3286**	**3.7200e-003**	**4.0500e-003**	**179.6275**

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	41.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**41.4426**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 1) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0577	0.0338	0.5228	1.7600e-003	0.2164	1.0900e-003	0.2175	0.0577	1.0000e-003	0.0587		178.3286	178.3286	3.7200e-003	4.0500e-003	179.6275
Total	**0.0577**	**0.0338**	**0.5228**	**1.7600e-003**	**0.2164**	**1.0900e-003**	**0.2175**	**0.0577**	**1.0000e-003**	**0.0587**		**178.3286**	**178.3286**	**3.7200e-003**	**4.0500e-003**	**179.6275**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	398.50	1000sqft	5.47	398,500.00	0
Other Asphalt Surfaces	192.00	1000sqft	4.41	192,000.00	0
Other Non-Asphalt Surfaces	206.53	1000sqft	2.86	206,533.70	0
Parking Lot	129.81	1000sqft	2.98	129,809.00	0
Apartments Mid Rise	670.00	Dwelling Unit	0.00	750,300.00	1115
Regional Shopping Center	119.42	1000sqft	0.80	119,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - structures are comprised of multiple stories

Construction Phase - based on information provided by applicant. see project description for construction durations

Off-road Equipment - based on information provided by the applicant

Off-road Equipment - no additional equipment required for asphalt demolition debris haul

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - based on information provided by applicant

Off-road Equipment - no additional equipment required for building demolition haul

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - no additional equipment required for site preparation soil haul

Off-road Equipment - no additional equipment required for site preparation soil haul

Trips and VMT - assumes 4 vt/water truck/day. Assumes that 2 dump trucks will be used for asphalt demo haul. Building Construction and Arch Coat are calculated based on CalEEMod Appendix A rates

Demolition -

Grading -

Architectural Coating - see assumptions file for calculations. Parking only accounts for parking area and driveways

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and SCAQMD Rule 1186, MM: Tier 4 (Final) Equipment >50hp

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	59,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	59,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	179,123.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	179,123.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,611.00	0.00

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblArchitecturalCoating	ConstArea_Parking	55,611.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,611.00	43,219.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	211,815.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	294,638.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	635,445.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	883,913.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	59708	123708
tblAreaCoating	Area_Nonresidential_Interior	179123	371123
tblAreaCoating	Area_Parking	55611	55400
tblAreaCoating	Area_Residential_Exterior	506453	294638
tblAreaCoating	Area_Residential_Interior	1519358	883913
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	300.00	565.00
tblConstructionPhase	NumDays	300.00	695.00
tblConstructionPhase	NumDays	20.00	88.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	98.00
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	NumDays	10.00	33.00
tblFireplaces	NumberGas	569.50	331.50
tblFireplaces	NumberNoFireplace	67.00	39.00
tblFireplaces	NumberWood	33.50	19.50
tblGrading	MaterialExported	0.00	25,416.00
tblGrading	MaterialExported	0.00	12,904.00
tblLandUse	LandUseSquareFeet	206,530.00	206,533.70
tblLandUse	LandUseSquareFeet	129,810.00	129,809.00
tblLandUse	LandUseSquareFeet	670,000.00	750,300.00

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	119,420.00	119,415.00
tblLandUse	LotAcreage	9.15	5.47
tblLandUse	LotAcreage	4.74	2.86
tblLandUse	LotAcreage	17.63	0.00
tblLandUse	LotAcreage	2.74	0.80
tblLandUse	Population	1,916.00	1,115.00
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	158.00	131.00
tblOffRoadEquipment	HorsePower	130.00	188.00
tblOffRoadEquipment	HorsePower	80.00	86.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	85.00	350.00
tblOffRoadEquipment	HorsePower	158.00	101.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	367.00	365.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	308.20	179.40
tblTripsAndVMT	HaulingTripNumber	158.00	160.00
tblTripsAndVMT	HaulingTripNumber	112.00	163.00
tblTripsAndVMT	HaulingTripNumber	3,177.00	3,178.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	243.00	51.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	243.00	91.00
tblWater	IndoorWaterUseRate	43,653,197.17	25,410,069.99
tblWater	OutdoorWaterUseRate	27,520,493.87	16,019,391.95
tblWoodstoves	NumberCatalytic	33.50	19.50
tblWoodstoves	NumberNoncatalytic	33.50	19.50

2.0 Emissions Summary

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.3826	4.1265	2.8144	8.1200e-003	0.6006	0.1481	0.7486	0.0744	0.1371	0.2115	0.0000	746.4398	746.4398	0.1800	0.0186	756.4668
2023	1.2218	3.1192	5.3222	0.0171	1.8480	0.1037	1.9516	0.4105	0.0962	0.5067	0.0000	1,563.6562	1,563.6562	0.1523	0.0584	1,584.8721
2024	0.4361	1.5597	4.2151	0.0144	1.3844	0.0454	1.4298	0.3694	0.0424	0.4117	0.0000	1,327.1412	1,327.1412	0.0790	0.0528	1,344.8530
2025	1.6886	1.1316	3.2185	0.0110	1.0959	0.0331	1.1289	0.2923	0.0311	0.3234	0.0000	1,015.7646	1,015.7646	0.0567	0.0390	1,028.8156
2026	0.3449	1.0913	3.3908	0.0115	1.2322	0.0348	1.2670	0.3281	0.0325	0.3606	0.0000	1,055.9214	1,055.9214	0.0606	0.0333	1,067.3657
2027	0.3625	1.1760	3.5631	0.0123	1.3456	0.0376	1.3833	0.3583	0.0352	0.3935	0.0000	1,125.3972	1,125.3972	0.0648	0.0352	1,137.5082
2028	1.0889	0.3590	1.0673	3.5500e-003	0.3901	0.0123	0.4024	0.1038	0.0117	0.1155	0.0000	324.0225	324.0225	0.0173	9.2800e-003	327.2199
Maximum	**1.6886**	**4.1265**	**5.3222**	**0.0171**	**1.8480**	**0.1481**	**1.9516**	**0.4105**	**0.1371**	**0.5067**	**0.0000**	**1,563.6562**	**1,563.6562**	**0.1800**	**0.0584**	**1,584.8721**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0963	0.6709	3.4435	8.1200e-003	0.2819	0.0135	0.2954	0.0388	0.0134	0.0521	0.0000	746.4391	746.4391	0.1800	0.0186	756.4661
2023	1.0601	1.0974	5.5750	0.0171	1.4476	0.0213	1.4689	0.3531	0.0207	0.3738	0.0000	1,563.6558	1,563.6558	0.1523	0.0584	1,584.8716
2024	0.3833	0.9009	4.3060	0.0144	1.2774	0.0174	1.2948	0.3431	0.0168	0.3599	0.0000	1,327.1411	1,327.1411	0.0790	0.0528	1,344.8528
2025	1.6464	0.6670	3.2858	0.0110	1.0111	0.0132	1.0243	0.2715	0.0127	0.2842	0.0000	1,015.7644	1,015.7644	0.0567	0.0390	1,028.8155
2026	0.3046	0.6041	3.4714	0.0115	1.1366	0.0143	1.1509	0.3046	0.0138	0.3184	0.0000	1,055.9213	1,055.9213	0.0606	0.0333	1,067.3655
2027	0.3185	0.6439	3.6511	0.0123	1.2412	0.0152	1.2565	0.3327	0.0148	0.3474	0.0000	1,125.3970	1,125.3970	0.0648	0.0352	1,137.5080
2028	1.0702	0.1705	1.0905	3.5500e-003	0.3598	4.1400e-003	0.3639	0.0964	4.0000e-003	0.1004	0.0000	324.0225	324.0225	0.0173	9.2800e-003	327.2198
Maximum	**1.6464**	**1.0974**	**5.5750**	**0.0171**	**1.4476**	**0.0213**	**1.4689**	**0.3531**	**0.0207**	**0.3738**	**0.0000**	**1,563.6558**	**1,563.6558**	**0.1800**	**0.0584**	**1,584.8716**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	11.69	62.15	-5.22	0.00	14.45	76.12	17.53	10.15	75.10	20.95	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	6-1-2022	8-31-2022	0.7055	0.3260
2	9-1-2022	11-30-2022	2.9530	0.6638
3	12-1-2022	2-28-2023	3.4309	0.7834
4	3-1-2023	5-31-2023	0.4945	0.3234
5	6-1-2023	8-31-2023	0.4886	0.3175
6	9-1-2023	11-30-2023	0.9995	0.7854
7	12-1-2023	2-29-2024	0.7336	0.5488

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8	**3-1-2024**	**5-31-2024**	0.5585	0.3301
9	**6-1-2024**	**8-31-2024**	0.4678	0.3065
10	**9-1-2024**	**11-30-2024**	0.4740	0.3144
11	**12-1-2024**	**2-28-2025**	0.4573	0.3099
12	**3-1-2025**	**5-31-2025**	0.4475	0.3025
13	**6-1-2025**	**8-31-2025**	1.4326	1.2363
14	**9-1-2025**	**11-30-2025**	0.6235	0.5514
15	**12-1-2025**	**2-28-2026**	0.1220	0.0778
16	**3-1-2026**	**5-31-2026**	0.3916	0.2466
17	**6-1-2026**	**8-31-2026**	0.3870	0.2420
18	**9-1-2026**	**11-30-2026**	0.3919	0.2484
19	**12-1-2026**	**2-28-2027**	0.3871	0.2452
20	**3-1-2027**	**5-31-2027**	0.3843	0.2393
21	**6-1-2027**	**8-31-2027**	0.3798	0.2348
22	**9-1-2027**	**11-30-2027**	0.3845	0.2410
23	**12-1-2027**	**2-29-2028**	1.0250	0.8434
24	**3-1-2028**	**5-31-2028**	0.5619	0.4873
		Highest	3.4309	1.2363

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	6/1/2022	9/30/2022	5	88	a
2	Asphalt Demolition	Demolition	7/1/2022	8/15/2022	5	32	c
3	Building Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	b
4	Asphalt Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	d
5	Site Preparation	Site Preparation	10/1/2022	2/15/2023	5	98	e
6	Site Preparation Soil Haul 2022	Site Preparation	10/1/2022	12/31/2022	5	65	f
7	Site Preparation Soil Haul 2023	Site Preparation	1/1/2023	2/15/2023	5	33	g
8	Retail and Residential Building A Building Construction	Building Construction	2/1/2023	9/30/2025	5	695	h
9	Retail Architectural Coating	Architectural Coating	10/15/2023	12/23/2023	5	50	i
10	Finishing and Landscaping	Trenching	4/1/2024	4/30/2024	5	22	l
11	Paving	Paving	4/1/2024	4/7/2024	5	5	k
12	Residential Building A Architectural Coating	Architectural Coating	7/1/2025	9/30/2025	5	66	j
13	Residential Building B Building Construction	Building Construction	2/1/2026	3/31/2028	5	565	m
14	Residential Building B Architectural Coating	Architectural Coating	1/15/2028	3/31/2028	5	55	n

Acres of Grading (Site Preparation Phase): 980

Acres of Grading (Grading Phase): 0

Acres of Paving: 15.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 179,123; Non-Residential Outdoor: 59,708; Striped Parking Area: 43,219

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition	Crushing/Proc. Equipment	1	8.00	350	0.78
Building Demolition	Excavators	2	8.00	131	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	0	8.00	158	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Excavators	1	8.00	101	0.38
Site Preparation	Graders	4	8.00	238	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Scrapers	8	8.00	365	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation Soil Haul 2022	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2022	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation Soil Haul 2023	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2023	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Retail and Residential Building A Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Retail and Residential Building A Building Construction	Cranes	1	8.00	300	0.29
Retail and Residential Building A Building Construction	Forklifts	0	8.00	89	0.20
Retail and Residential Building A Building Construction	Generator Sets	0	8.00	84	0.74
Retail and Residential Building A Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Retail and Residential Building A Building Construction	Welders	0	8.00	46	0.45
Retail Architectural Coating	Air Compressors	2	6.00	78	0.48
Residential Building A Architectural Coating	Air Compressors	2	6.00	78	0.48
Paving	Pavers	1	8.00	188	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	86	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Finishing and Landscaping	Graders	1	8.00	238	0.41
Residential Building B Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73
Residential Building B Building Construction	Cranes	1	8.00	300	0.29
Residential Building B Building Construction	Forklifts	0	8.00	89	0.20
Residential Building B Building Construction	Generator Sets	0	8.00	84	0.74
Residential Building B Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Residential Building B Building Construction	Welders	0	8.00	46	0.45
Residential Building B Architectural Coating	Air Compressors	2	6.00	78	0.48

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Building Demolition	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	0	0.00	0.00	160.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	0	0.00	0.00	163.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	14	35.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2022	0	0.00	0.00	3,178.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2023	0	0.00	0.00	1,613.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail and Residential Building A Building	3	910.00	91.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building A Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing and Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building B Building Construction	3	910.00	51.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building B Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Building 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					
Off-Road	0.0760	0.4977	0.5620	1.5700e-003		0.0204	0.0204		0.0196	0.0196	0.0000	154.3428	154.3428	0.0190	0.0000	154.8182
Total	**0.0760**	**0.4977**	**0.5620**	**1.5700e-003**		**0.0204**	**0.0204**		**0.0196**	**0.0196**	**0.0000**	**154.3428**	**154.3428**	**0.0190**	**0.0000**	**154.8182**

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	2.9000e-004	8.2700e-003	2.8500e-003	3.0000e-005	1.1100e-003	8.0000e-005	1.1900e-003	3.2000e-004	7.0000e-005	3.9000e-004	0.0000	3.3112	3.3112	1.9000e-004	4.7000e-004	3.4575
Worker	1.3300e-003	1.0000e-003	0.0138	4.0000e-005	4.8300e-003	3.0000e-005	4.8600e-003	1.2800e-003	2.0000e-005	1.3100e-003	0.0000	3.7930	3.7930	9.0000e-005	1.0000e-004	3.8238
Total	**1.6200e-003**	**9.2700e-003**	**0.0166**	**7.0000e-005**	**5.9400e-003**	**1.1000e-004**	**6.0500e-003**	**1.6000e-003**	**9.0000e-005**	**1.7000e-003**	**0.0000**	**7.1042**	**7.1042**	**2.8000e-004**	**5.7000e-004**	**7.2812**

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	0.0190	0.0824	0.8550	1.5700e-003		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003	0.0000	154.3427	154.3427	0.0190	0.0000	154.8180
Total	**0.0190**	**0.0824**	**0.8550**	**1.5700e-003**		**2.5400e-003**	**2.5400e-003**		**2.5400e-003**	**2.5400e-003**	**0.0000**	**154.3427**	**154.3427**	**0.0190**	**0.0000**	**154.8180**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.9000e-004	8.2700e-003	2.8500e-003	3.0000e-005	1.0400e-003	8.0000e-005	1.1200e-003	3.0000e-004	7.0000e-005	3.8000e-004	0.0000	3.3112	3.3112	1.9000e-004	4.7000e-004	3.4575
Worker	1.3300e-003	1.0000e-003	0.0138	4.0000e-005	4.4500e-003	3.0000e-005	4.4800e-003	1.1900e-003	2.0000e-005	1.2100e-003	0.0000	3.7930	3.7930	9.0000e-005	1.0000e-004	3.8238
Total	**1.6200e-003**	**9.2700e-003**	**0.0166**	**7.0000e-005**	**5.4900e-003**	**1.1000e-004**	**5.6000e-003**	**1.4900e-003**	**9.0000e-005**	**1.5900e-003**	**0.0000**	**7.1042**	**7.1042**	**2.8000e-004**	**5.7000e-004**	**7.2812**

3.3 Asphalt 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					
Off-Road	2.6400e-003	0.0268	0.0358	5.0000e-005		1.4400e-003	1.4400e-003		1.3300e-003	1.3300e-003	0.0000	4.3725	4.3725	1.4100e-003	0.0000	4.4078
Total	**2.6400e-003**	**0.0268**	**0.0358**	**5.0000e-005**		**1.4400e-003**	**1.4400e-003**		**1.3300e-003**	**1.3300e-003**	**0.0000**	**4.3725**	**4.3725**	**1.4100e-003**	**0.0000**	**4.4078**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.1000e-004	3.0100e-003	1.0400e-003	1.0000e-005	4.0000e-004	3.0000e-005	4.3000e-004	1.2000e-004	3.0000e-005	1.4000e-004	0.0000	1.2041	1.2041	7.0000e-005	1.7000e-004	1.2573
Worker	1.4000e-004	1.1000e-004	1.5000e-003	0.0000	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4138	0.4138	1.0000e-005	1.0000e-005	0.4171
Total	**2.5000e-004**	**3.1200e-003**	**2.5400e-003**	**1.0000e-005**	**9.3000e-004**	**3.0000e-005**	**9.6000e-004**	**2.6000e-004**	**3.0000e-005**	**2.8000e-004**	**0.0000**	**1.6179**	**1.6179**	**8.0000e-005**	**1.8000e-004**	**1.6744**

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	6.1000e-004	2.6300e-003	0.0375	5.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	4.3725	4.3725	1.4100e-003	0.0000	4.4078
Total	**6.1000e-004**	**2.6300e-003**	**0.0375**	**5.0000e-005**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**4.3725**	**4.3725**	**1.4100e-003**	**0.0000**	**4.4078**

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	1.1000e-004	3.0100e-003	1.0400e-003	1.0000e-005	3.8000e-004	3.0000e-005	4.1000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.2041	1.2041	7.0000e-005	1.7000e-004	1.2573
Worker	1.4000e-004	1.1000e-004	1.5000e-003	0.0000	4.9000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4138	0.4138	1.0000e-005	1.0000e-005	0.4171
Total	**2.5000e-004**	**3.1200e-003**	**2.5400e-003**	**1.0000e-005**	**8.7000e-004**	**3.0000e-005**	**9.0000e-004**	**2.4000e-004**	**3.0000e-005**	**2.7000e-004**	**0.0000**	**1.6179**	**1.6179**	**8.0000e-005**	**1.8000e-004**	**1.6744**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Demolition Debris Haul - 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					0.0171	0.0000	0.0171	2.5900e-003	0.0000	2.5900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0171**	**0.0000**	**0.0171**	**2.5900e-003**	**0.0000**	**2.5900e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2000e-004	0.0131	3.5200e-003	5.0000e-005	1.3700e-003	9.0000e-005	1.4700e-003	3.8000e-004	9.0000e-005	4.7000e-004	0.0000	4.9072	4.9072	4.7000e-004	7.9000e-004	5.1532
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.2000e-004**	**0.0131**	**3.5200e-003**	**5.0000e-005**	**1.3700e-003**	**9.0000e-005**	**1.4700e-003**	**3.8000e-004**	**9.0000e-005**	**4.7000e-004**	**0.0000**	**4.9072**	**4.9072**	**4.7000e-004**	**7.9000e-004**	**5.1532**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.3200e-003	0.0000	7.3200e-003	1.1100e-003	0.0000	1.1100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**7.3200e-003**	**0.0000**	**7.3200e-003**	**1.1100e-003**	**0.0000**	**1.1100e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2000e-004	0.0131	3.5200e-003	5.0000e-005	1.2800e-003	9.0000e-005	1.3700e-003	3.5000e-004	9.0000e-005	4.4000e-004	0.0000	4.9072	4.9072	4.7000e-004	7.9000e-004	5.1532
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.2000e-004**	**0.0131**	**3.5200e-003**	**5.0000e-005**	**1.2800e-003**	**9.0000e-005**	**1.3700e-003**	**3.5000e-004**	**9.0000e-005**	**4.4000e-004**	**0.0000**	**4.9072**	**4.9072**	**4.7000e-004**	**7.9000e-004**	**5.1532**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Asphalt Demolition Debris Haul - 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					0.0121	0.0000	0.0121	1.8400e-003	0.0000	1.8400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0121**	**0.0000**	**0.0121**	**1.8400e-003**	**0.0000**	**1.8400e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-004	0.0134	3.5900e-003	5.0000e-005	1.4000e-003	1.0000e-004	1.5000e-003	3.8000e-004	9.0000e-005	4.8000e-004	0.0000	4.9993	4.9993	4.8000e-004	8.0000e-004	5.2498
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.3000e-004**	**0.0134**	**3.5900e-003**	**5.0000e-005**	**1.4000e-003**	**1.0000e-004**	**1.5000e-003**	**3.8000e-004**	**9.0000e-005**	**4.8000e-004**	**0.0000**	**4.9993**	**4.9993**	**4.8000e-004**	**8.0000e-004**	**5.2498**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					5.1900e-003	0.0000	5.1900e-003	7.9000e-004	0.0000	7.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.1900e-003**	**0.0000**	**5.1900e-003**	**7.9000e-004**	**0.0000**	**7.9000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-004	0.0134	3.5900e-003	5.0000e-005	1.3000e-003	1.0000e-004	1.4000e-003	3.6000e-004	9.0000e-005	4.5000e-004	0.0000	4.9993	4.9993	4.8000e-004	8.0000e-004	5.2498
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.3000e-004**	**0.0134**	**3.5900e-003**	**5.0000e-005**	**1.3000e-003**	**1.0000e-004**	**1.4000e-003**	**3.6000e-004**	**9.0000e-005**	**4.5000e-004**	**0.0000**	**4.9993**	**4.9993**	**4.8000e-004**	**8.0000e-004**	**5.2498**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 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					0.5197	0.0000	0.5197	0.0561	0.0000	0.0561	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2914	3.2943	2.0827	5.2300e-003		0.1239	0.1239		0.1140	0.1140	0.0000	459.3743	459.3743	0.1486	0.0000	463.0886
Total	**0.2914**	**3.2943**	**2.0827**	**5.2300e-003**	**0.5197**	**0.1239**	**0.6436**	**0.0561**	**0.1140**	**0.1701**	**0.0000**	**459.3743**	**459.3743**	**0.1486**	**0.0000**	**463.0886**

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	2.1000e-004	6.1100e-003	2.1000e-003	2.0000e-005	8.2000e-004	6.0000e-005	8.8000e-004	2.4000e-004	5.0000e-005	2.9000e-004	0.0000	2.4458	2.4458	1.4000e-004	3.5000e-004	2.5538
Worker	3.4300e-003	2.5800e-003	0.0356	1.1000e-004	0.0125	7.0000e-005	0.0126	3.3200e-003	6.0000e-005	3.3800e-003	0.0000	9.8057	9.8057	2.4000e-004	2.5000e-004	9.8853
Total	**3.6400e-003**	**8.6900e-003**	**0.0377**	**1.3000e-004**	**0.0133**	**1.3000e-004**	**0.0134**	**3.5600e-003**	**1.1000e-004**	**3.6700e-003**	**0.0000**	**12.2515**	**12.2515**	**3.8000e-004**	**6.0000e-004**	**12.4391**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					0.2222	0.0000	0.2222	0.0240	0.0000	0.0240	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0642	0.2781	2.4172	5.2300e-003		8.5600e-003	8.5600e-003		8.5600e-003	8.5600e-003	0.0000	459.3737	459.3737	0.1486	0.0000	463.0880
Total	**0.0642**	**0.2781**	**2.4172**	**5.2300e-003**	**0.2222**	**8.5600e-003**	**0.2307**	**0.0240**	**8.5600e-003**	**0.0326**	**0.0000**	**459.3737**	**459.3737**	**0.1486**	**0.0000**	**463.0880**

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	2.1000e-004	6.1100e-003	2.1000e-003	2.0000e-005	7.7000e-004	6.0000e-005	8.2000e-004	2.2000e-004	5.0000e-005	2.8000e-004	0.0000	2.4458	2.4458	1.4000e-004	3.5000e-004	2.5538
Worker	3.4300e-003	2.5800e-003	0.0356	1.1000e-004	0.0115	7.0000e-005	0.0116	3.0800e-003	6.0000e-005	3.1400e-003	0.0000	9.8057	9.8057	2.4000e-004	2.5000e-004	9.8853
Total	**3.6400e-003**	**8.6900e-003**	**0.0377**	**1.3000e-004**	**0.0123**	**1.3000e-004**	**0.0124**	**3.3000e-003**	**1.1000e-004**	**3.4200e-003**	**0.0000**	**12.2515**	**12.2515**	**3.8000e-004**	**6.0000e-004**	**12.4391**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Site Preparation - 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					
Fugitive Dust					0.5197	0.0000	0.5197	0.0561	0.0000	0.0561	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1406	1.5302	1.0232	2.6500e-003		0.0579	0.0579		0.0532	0.0532	0.0000	233.1691	233.1691	0.0754	0.0000	235.0544
Total	**0.1406**	**1.5302**	**1.0232**	**2.6500e-003**	**0.5197**	**0.0579**	**0.5775**	**0.0561**	**0.0532**	**0.1093**	**0.0000**	**233.1691**	**233.1691**	**0.0754**	**0.0000**	**235.0544**

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	7.0000e-005	2.4200e-003	9.7000e-004	1.0000e-005	4.2000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.1829	1.1829	7.0000e-005	1.7000e-004	1.2353
Worker	1.6300e-003	1.1700e-003	0.0168	5.0000e-005	6.3400e-003	3.0000e-005	6.3700e-003	1.6800e-003	3.0000e-005	1.7100e-003	0.0000	4.8203	4.8203	1.1000e-004	1.2000e-004	4.8578
Total	**1.7000e-003**	**3.5900e-003**	**0.0178**	**6.0000e-005**	**6.7600e-003**	**4.0000e-005**	**6.8000e-003**	**1.8000e-003**	**4.0000e-005**	**1.8400e-003**	**0.0000**	**6.0032**	**6.0032**	**1.8000e-004**	**2.9000e-004**	**6.0931**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					0.2222	0.0000	0.2222	0.0240	0.0000	0.0240	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0326	0.1412	1.2272	2.6500e-003		4.3400e-003	4.3400e-003		4.3400e-003	4.3400e-003	0.0000	233.1689	233.1689	0.0754	0.0000	235.0542
Total	**0.0326**	**0.1412**	**1.2272**	**2.6500e-003**	**0.2222**	**4.3400e-003**	**0.2265**	**0.0240**	**4.3400e-003**	**0.0283**	**0.0000**	**233.1689**	**233.1689**	**0.0754**	**0.0000**	**235.0542**

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	7.0000e-005	2.4200e-003	9.7000e-004	1.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.1829	1.1829	7.0000e-005	1.7000e-004	1.2353
Worker	1.6300e-003	1.1700e-003	0.0168	5.0000e-005	5.8500e-003	3.0000e-005	5.8800e-003	1.5600e-003	3.0000e-005	1.5900e-003	0.0000	4.8203	4.8203	1.1000e-004	1.2000e-004	4.8578
Total	**1.7000e-003**	**3.5900e-003**	**0.0178**	**6.0000e-005**	**6.2400e-003**	**4.0000e-005**	**6.2800e-003**	**1.6700e-003**	**4.0000e-005**	**1.7100e-003**	**0.0000**	**6.0032**	**6.0032**	**1.8000e-004**	**2.9000e-004**	**6.0931**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Site Preparation Soil Haul 2022 - 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					1.4400e-003	0.0000	1.4400e-003	2.2000e-004	0.0000	2.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.4400e-003**	**0.0000**	**1.4400e-003**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	6.3700e-003	0.2602	0.0699	9.5000e-004	0.0273	1.8700e-003	0.0292	7.4800e-003	1.7900e-003	9.2800e-003	0.0000	97.4701	97.4701	9.2900e-003	0.0156	102.3546
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.3700e-003**	**0.2602**	**0.0699**	**9.5000e-004**	**0.0273**	**1.8700e-003**	**0.0292**	**7.4800e-003**	**1.7900e-003**	**9.2800e-003**	**0.0000**	**97.4701**	**97.4701**	**9.2900e-003**	**0.0156**	**102.3546**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					6.1000e-004	0.0000	6.1000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**6.1000e-004**	**0.0000**	**6.1000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.3700e-003	0.2602	0.0699	9.5000e-004	0.0254	1.8700e-003	0.0273	7.0300e-003	1.7900e-003	8.8200e-003	0.0000	97.4701	97.4701	9.2900e-003	0.0156	102.3546
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.3700e-003**	**0.2602**	**0.0699**	**9.5000e-004**	**0.0254**	**1.8700e-003**	**0.0273**	**7.0300e-003**	**1.7900e-003**	**8.8200e-003**	**0.0000**	**97.4701**	**97.4701**	**9.2900e-003**	**0.0156**	**102.3546**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Site Preparation Soil Haul 2023 - 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					
Fugitive Dust					7.3000e-004	0.0000	7.3000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**7.3000e-004**	**0.0000**	**7.3000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	1.6400e-003	0.1011	0.0331	4.5000e-004	0.0139	6.2000e-004	0.0145	3.8000e-003	5.9000e-004	4.3900e-003	0.0000	46.8101	46.8101	4.7200e-003	7.5100e-003	49.1658
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6400e-003**	**0.1011**	**0.0331**	**4.5000e-004**	**0.0139**	**6.2000e-004**	**0.0145**	**3.8000e-003**	**5.9000e-004**	**4.3900e-003**	**0.0000**	**46.8101**	**46.8101**	**4.7200e-003**	**7.5100e-003**	**49.1658**

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					

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Fugitive Dust					3.1000e-004	0.0000	3.1000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.1000e-004**	**0.0000**	**3.1000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6400e-003	0.1011	0.0331	4.5000e-004	0.0129	6.2000e-004	0.0135	3.5700e-003	5.9000e-004	4.1600e-003	0.0000	46.8101	46.8101	4.7200e-003	7.5100e-003	49.1658
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6400e-003**	**0.1011**	**0.0331**	**4.5000e-004**	**0.0129**	**6.2000e-004**	**0.0135**	**3.5700e-003**	**5.9000e-004**	**4.1600e-003**	**0.0000**	**46.8101**	**46.8101**	**4.7200e-003**	**7.5100e-003**	**49.1658**

3.9 Retail and Residential Building A 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	0.0853	0.7938	0.7150	1.5100e-003		0.0332	0.0332		0.0310	0.0310	0.0000	128.9587	128.9587	0.0378	0.0000	129.9033
Total	**0.0853**	**0.7938**	**0.7150**	**1.5100e-003**		**0.0332**	**0.0332**		**0.0310**	**0.0310**	**0.0000**	**128.9587**	**128.9587**	**0.0378**	**0.0000**	**129.9033**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0107	0.3976	0.1597	1.9500e-003	0.0682	1.9500e-003	0.0702	0.0197	1.8700e-003	0.0216	0.0000	194.0926	194.0926	0.0115	0.0279	202.6863
Worker	0.3058	0.2186	3.1504	9.8600e-003	1.1888	6.1700e-003	1.1950	0.3157	5.6800e-003	0.3214	0.0000	903.8781	903.8781	0.0210	0.0218	910.9102
Total	**0.3165**	**0.6161**	**3.3101**	**0.0118**	**1.2570**	**8.1200e-003**	**1.2652**	**0.3354**	**7.5500e-003**	**0.3429**	**0.0000**	**1,097.9707**	**1,097.9707**	**0.0326**	**0.0497**	**1,113.5965**

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	0.0396	0.2197	0.7629	1.5100e-003		7.7400e-003	7.7400e-003		7.7400e-003	7.7400e-003	0.0000	128.9586	128.9586	0.0378	0.0000	129.9031
Total	**0.0396**	**0.2197**	**0.7629**	**1.5100e-003**		**7.7400e-003**	**7.7400e-003**		**7.7400e-003**	**7.7400e-003**	**0.0000**	**128.9586**	**128.9586**	**0.0378**	**0.0000**	**129.9031**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0107	0.3976	0.1597	1.9500e-003	0.0639	1.9500e-003	0.0658	0.0186	1.8700e-003	0.0205	0.0000	194.0926	194.0926	0.0115	0.0279	202.6863
Worker	0.3058	0.2186	3.1504	9.8600e-003	1.0960	6.1700e-003	1.1022	0.2929	5.6800e-003	0.2986	0.0000	903.8781	903.8781	0.0210	0.0218	910.9102
Total	**0.3165**	**0.6161**	**3.3101**	**0.0118**	**1.1599**	**8.1200e-003**	**1.1680**	**0.3115**	**7.5500e-003**	**0.3191**	**0.0000**	**1,097.9707**	**1,097.9707**	**0.0326**	**0.0497**	**1,113.5965**

3.9 Retail and Residential Building A Building Construction - 2024

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	0.0918	0.8368	0.7721	1.6600e-003		0.0343	0.0343		0.0321	0.0321	0.0000	141.9441	141.9441	0.0416	0.0000	142.9837
Total	**0.0918**	**0.8368**	**0.7721**	**1.6600e-003**		**0.0343**	**0.0343**		**0.0321**	**0.0321**	**0.0000**	**141.9441**	**141.9441**	**0.0416**	**0.0000**	**142.9837**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0117	0.4363	0.1744	2.1100e-003	0.0751	2.2500e-003	0.0774	0.0217	2.1500e-003	0.0238	0.0000	210.3536	210.3536	0.0128	0.0303	219.7131
Worker	0.3167	0.2160	3.2299	0.0105	1.3087	6.4500e-003	1.3151	0.3475	5.9400e-003	0.3535	0.0000	963.4818	963.4818	0.0210	0.0225	970.7027
Total	**0.3284**	**0.6523**	**3.4043**	**0.0126**	**1.3838**	**8.7000e-003**	**1.3925**	**0.3692**	**8.0900e-003**	**0.3773**	**0.0000**	**1,173.8353**	**1,173.8353**	**0.0338**	**0.0528**	**1,190.4158**

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	0.0436	0.2419	0.8398	1.6600e-003		8.5200e-003	8.5200e-003		8.5200e-003	8.5200e-003	0.0000	141.9439	141.9439	0.0416	0.0000	142.9835
Total	**0.0436**	**0.2419**	**0.8398**	**1.6600e-003**		**8.5200e-003**	**8.5200e-003**		**8.5200e-003**	**8.5200e-003**	**0.0000**	**141.9439**	**141.9439**	**0.0416**	**0.0000**	**142.9835**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0117	0.4363	0.1744	2.1100e-003	0.0703	2.2500e-003	0.0726	0.0205	2.1500e-003	0.0226	0.0000	210.3536	210.3536	0.0128	0.0303	219.7131
Worker	0.3167	0.2160	3.2299	0.0105	1.2066	6.4500e-003	1.2130	0.3225	5.9400e-003	0.3284	0.0000	963.4818	963.4818	0.0210	0.0225	970.7027
Total	**0.3284**	**0.6523**	**3.4043**	**0.0126**	**1.2769**	**8.7000e-003**	**1.2856**	**0.3430**	**8.0900e-003**	**0.3511**	**0.0000**	**1,173.8353**	**1,173.8353**	**0.0338**	**0.0528**	**1,190.4158**

3.9 Retail and Residential Building A Building Construction - 2025

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	0.0653	0.5775	0.5593	1.2400e-003		0.0231	0.0231		0.0216	0.0216	0.0000	105.6575	105.6575	0.0310	0.0000	106.4314
Total	**0.0653**	**0.5775**	**0.5593**	**1.2400e-003**		**0.0231**	**0.0231**		**0.0216**	**0.0216**	**0.0000**	**105.6575**	**105.6575**	**0.0310**	**0.0000**	**106.4314**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	8.5400e-003	0.3232	0.1293	1.5400e-003	0.0559	1.6800e-003	0.0576	0.0161	1.6100e-003	0.0177	0.0000	153.6320	153.6320	9.6600e-003	0.0223	160.5028
Worker	0.2227	0.1455	2.2578	7.5500e-003	0.9740	4.5900e-003	0.9786	0.2587	4.2200e-003	0.2629	0.0000	692.7311	692.7311	0.0142	0.0157	697.7731
Total	**0.2313**	**0.4687**	**2.3870**	**9.0900e-003**	**1.0299**	**6.2700e-003**	**1.0362**	**0.2748**	**5.8300e-003**	**0.2806**	**0.0000**	**846.3630**	**846.3630**	**0.0239**	**0.0380**	**858.2759**

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	0.0325	0.1800	0.6250	1.2400e-003		6.3400e-003	6.3400e-003		6.3400e-003	6.3400e-003	0.0000	105.6574	105.6574	0.0310	0.0000	106.4312
Total	**0.0325**	**0.1800**	**0.6250**	**1.2400e-003**		**6.3400e-003**	**6.3400e-003**		**6.3400e-003**	**6.3400e-003**	**0.0000**	**105.6574**	**105.6574**	**0.0310**	**0.0000**	**106.4312**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	8.5400e-003	0.3232	0.1293	1.5400e-003	0.0523	1.6800e-003	0.0540	0.0153	1.6100e-003	0.0169	0.0000	153.6320	153.6320	9.6600e-003	0.0223	160.5028
Worker	0.2227	0.1455	2.2578	7.5500e-003	0.8980	4.5900e-003	0.9026	0.2400	4.2200e-003	0.2442	0.0000	692.7311	692.7311	0.0142	0.0157	697.7731
Total	**0.2313**	**0.4687**	**2.3870**	**9.0900e-003**	**0.9504**	**6.2700e-003**	**0.9566**	**0.2553**	**5.8300e-003**	**0.2611**	**0.0000**	**846.3630**	**846.3630**	**0.0239**	**0.0380**	**858.2759**

3.10 Retail 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	0.6537					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5800e-003	0.0652	0.0906	1.5000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003	0.0000	12.7663	12.7663	7.6000e-004	0.0000	12.7854
Total	**0.6632**	**0.0652**	**0.0906**	**1.5000e-004**		**3.5400e-003**	**3.5400e-003**		**3.5400e-003**	**3.5400e-003**	**0.0000**	**12.7663**	**12.7663**	**7.6000e-004**	**0.0000**	**12.7854**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0129	9.1800e-003	0.1324	4.1000e-004	0.0500	2.6000e-004	0.0502	0.0133	2.4000e-004	0.0135	0.0000	37.9781	37.9781	8.8000e-004	9.2000e-004	38.2735
Total	**0.0129**	**9.1800e-003**	**0.1324**	**4.1000e-004**	**0.0500**	**2.6000e-004**	**0.0502**	**0.0133**	**2.4000e-004**	**0.0135**	**0.0000**	**37.9781**	**37.9781**	**8.8000e-004**	**9.2000e-004**	**38.2735**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6537					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4900e-003	6.4400e-003	0.0916	1.5000e-004		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	12.7663	12.7663	7.6000e-004	0.0000	12.7854
Total	**0.6551**	**6.4400e-003**	**0.0916**	**1.5000e-004**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**12.7663**	**12.7663**	**7.6000e-004**	**0.0000**	**12.7854**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0129	9.1800e-003	0.1324	4.1000e-004	0.0461	2.6000e-004	0.0463	0.0123	2.4000e-004	0.0126	0.0000	37.9781	37.9781	8.8000e-004	9.2000e-004	38.2735
Total	**0.0129**	**9.1800e-003**	**0.1324**	**4.1000e-004**	**0.0461**	**2.6000e-004**	**0.0463**	**0.0123**	**2.4000e-004**	**0.0126**	**0.0000**	**37.9781**	**37.9781**	**8.8000e-004**	**9.2000e-004**	**38.2735**

3.11 Finishing and Landscaping - 2024

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	4.9600e-003	0.0582	0.0232	9.0000e-005		1.8900e-003	1.8900e-003		1.7400e-003	1.7400e-003	0.0000	8.1348	8.1348	2.6300e-003	0.0000	8.2006
Total	**4.9600e-003**	**0.0582**	**0.0232**	**9.0000e-005**		**1.8900e-003**	**1.8900e-003**		**1.7400e-003**	**1.7400e-003**	**0.0000**	**8.1348**	**8.1348**	**2.6300e-003**	**0.0000**	**8.2006**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	8.9000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2667	0.2667	1.0000e-005	1.0000e-005	0.2687
Total	**9.0000e-005**	**6.0000e-005**	**8.9000e-004**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2667**	**0.2667**	**1.0000e-005**	**1.0000e-005**	**0.2687**

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	1.1400e-003	4.9200e-003	0.0417	9.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	8.1348	8.1348	2.6300e-003	0.0000	8.2006
Total	**1.1400e-003**	**4.9200e-003**	**0.0417**	**9.0000e-005**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**8.1348**	**8.1348**	**2.6300e-003**	**0.0000**	**8.2006**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	8.9000e-004	0.0000	3.3000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2667	0.2667	1.0000e-005	1.0000e-005	0.2687
Total	**9.0000e-005**	**6.0000e-005**	**8.9000e-004**	**0.0000**	**3.3000e-004**	**0.0000**	**3.4000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.2667**	**0.2667**	**1.0000e-005**	**1.0000e-005**	**0.2687**

3.12 Paving - 2024

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	1.1700e-003	0.0124	0.0141	3.0000e-005		5.3000e-004	5.3000e-004		4.8000e-004	4.8000e-004	0.0000	2.7987	2.7987	9.1000e-004	0.0000	2.8213
Paving	9.6800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.0124**	**0.0141**	**3.0000e-005**		**5.3000e-004**	**5.3000e-004**		**4.8000e-004**	**4.8000e-004**	**0.0000**	**2.7987**	**2.7987**	**9.1000e-004**	**0.0000**	**2.8213**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	5.0000e-005	4.0000e-005	5.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1616	0.1616	0.0000	0.0000	0.1629
Total	**5.0000e-005**	**4.0000e-005**	**5.4000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1616**	**0.1616**	**0.0000**	**0.0000**	**0.1629**

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	3.9000e-004	1.6900e-003	0.0189	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.7987	2.7987	9.1000e-004	0.0000	2.8213
Paving	9.6800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0101**	**1.6900e-003**	**0.0189**	**3.0000e-005**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**2.7987**	**2.7987**	**9.1000e-004**	**0.0000**	**2.8213**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	5.0000e-005	4.0000e-005	5.4000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.1616	0.1616	0.0000	0.0000	0.1629
Total	**5.0000e-005**	**4.0000e-005**	**5.4000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1616**	**0.1616**	**0.0000**	**0.0000**	**0.1629**

3.13 Residential Building A Architectural Coating - 2025

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	1.3657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.0756	0.1194	2.0000e-004		3.4000e-003	3.4000e-003		3.4000e-003	3.4000e-003	0.0000	16.8515	16.8515	9.2000e-004	0.0000	16.8745
Total	**1.3769**	**0.0756**	**0.1194**	**2.0000e-004**		**3.4000e-003**	**3.4000e-003**		**3.4000e-003**	**3.4000e-003**	**0.0000**	**16.8515**	**16.8515**	**9.2000e-004**	**0.0000**	**16.8745**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0151	9.8500e-003	0.1528	5.1000e-004	0.0659	3.1000e-004	0.0662	0.0175	2.9000e-004	0.0178	0.0000	46.8926	46.8926	9.6000e-004	1.0600e-003	47.2339
Total	**0.0151**	**9.8500e-003**	**0.1528**	**5.1000e-004**	**0.0659**	**3.1000e-004**	**0.0662**	**0.0175**	**2.9000e-004**	**0.0178**	**0.0000**	**46.8926**	**46.8926**	**9.6000e-004**	**1.0600e-003**	**47.2339**

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	1.3657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9600e-003	8.5000e-003	0.1209	2.0000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	16.8515	16.8515	9.2000e-004	0.0000	16.8744
Total	**1.3676**	**8.5000e-003**	**0.1209**	**2.0000e-004**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**	**0.0000**	**16.8515**	**16.8515**	**9.2000e-004**	**0.0000**	**16.8744**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0151	9.8500e-003	0.1528	5.1000e-004	0.0608	3.1000e-004	0.0611	0.0163	2.9000e-004	0.0165	0.0000	46.8926	46.8926	9.6000e-004	1.0600e-003	47.2339
Total	**0.0151**	**9.8500e-003**	**0.1528**	**5.1000e-004**	**0.0608**	**3.1000e-004**	**0.0611**	**0.0163**	**2.9000e-004**	**0.0165**	**0.0000**	**46.8926**	**46.8926**	**9.6000e-004**	**1.0600e-003**	**47.2339**

3.14 Residential Building B Building Construction - 2026

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	0.0801	0.7079	0.6854	1.5100e-003		0.0283	0.0283		0.0265	0.0265	0.0000	129.4981	129.4981	0.0379	0.0000	130.4467
Total	**0.0801**	**0.7079**	**0.6854**	**1.5100e-003**		**0.0283**	**0.0283**		**0.0265**	**0.0265**	**0.0000**	**129.4981**	**129.4981**	**0.0379**	**0.0000**	**130.4467**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	5.7800e-003	0.2204	0.0885	1.0300e-003	0.0384	1.1600e-003	0.0396	0.0111	1.1000e-003	0.0122	0.0000	103.5085	103.5085	6.7100e-003	0.0151	108.1601
Worker	0.2591	0.1631	2.6169	8.9700e-003	1.1938	5.3500e-003	1.1992	0.3170	4.9200e-003	0.3220	0.0000	822.9148	822.9148	0.0160	0.0183	828.7589
Total	**0.2648**	**0.3835**	**2.7054**	**0.0100**	**1.2322**	**6.5100e-003**	**1.2387**	**0.3281**	**6.0200e-003**	**0.3341**	**0.0000**	**926.4233**	**926.4233**	**0.0227**	**0.0333**	**936.9190**

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	0.0398	0.2206	0.7660	1.5100e-003		7.7700e-003	7.7700e-003		7.7700e-003	7.7700e-003	0.0000	129.4980	129.4980	0.0379	0.0000	130.4465
Total	**0.0398**	**0.2206**	**0.7660**	**1.5100e-003**		**7.7700e-003**	**7.7700e-003**		**7.7700e-003**	**7.7700e-003**	**0.0000**	**129.4980**	**129.4980**	**0.0379**	**0.0000**	**130.4465**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	5.7800e-003	0.2204	0.0885	1.0300e-003	0.0360	1.1600e-003	0.0371	0.0105	1.1000e-003	0.0116	0.0000	103.5085	103.5085	6.7100e-003	0.0151	108.1601
Worker	0.2591	0.1631	2.6169	8.9700e-003	1.1007	5.3500e-003	1.1060	0.2942	4.9200e-003	0.2991	0.0000	822.9148	822.9148	0.0160	0.0183	828.7589
Total	**0.2648**	**0.3835**	**2.7054**	**0.0100**	**1.1366**	**6.5100e-003**	**1.1431**	**0.3046**	**6.0200e-003**	**0.3107**	**0.0000**	**926.4233**	**926.4233**	**0.0227**	**0.0333**	**936.9190**

3.14 Residential Building B Building Construction - 2027

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	0.0875	0.7730	0.7485	1.6500e-003		0.0309	0.0309		0.0289	0.0289	0.0000	141.4185	141.4185	0.0414	0.0000	142.4543
Total	**0.0875**	**0.7730**	**0.7485**	**1.6500e-003**		**0.0309**	**0.0309**		**0.0289**	**0.0289**	**0.0000**	**141.4185**	**141.4185**	**0.0414**	**0.0000**	**142.4543**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	6.2200e-003	0.2389	0.0963	1.1000e-003	0.0419	1.2600e-003	0.0432	0.0121	1.2000e-003	0.0133	0.0000	110.7247	110.7247	7.3800e-003	0.0162	115.7240
Worker	0.2688	0.1641	2.7183	9.5200e-003	1.3037	5.5000e-003	1.3092	0.3462	5.0600e-003	0.3513	0.0000	873.2541	873.2541	0.0160	0.0191	879.3298
Total	**0.2750**	**0.4030**	**2.8146**	**0.0106**	**1.3456**	**6.7600e-003**	**1.3524**	**0.3583**	**6.2600e-003**	**0.3646**	**0.0000**	**983.9787**	**983.9787**	**0.0234**	**0.0352**	**995.0539**

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	0.0434	0.2410	0.8366	1.6500e-003		8.4800e-003	8.4800e-003		8.4800e-003	8.4800e-003	0.0000	141.4183	141.4183	0.0414	0.0000	142.4541
Total	**0.0434**	**0.2410**	**0.8366**	**1.6500e-003**		**8.4800e-003**	**8.4800e-003**		**8.4800e-003**	**8.4800e-003**	**0.0000**	**141.4183**	**141.4183**	**0.0414**	**0.0000**	**142.4541**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	6.2200e-003	0.2389	0.0963	1.1000e-003	0.0393	1.2600e-003	0.0405	0.0114	1.2000e-003	0.0126	0.0000	110.7247	110.7247	7.3800e-003	0.0162	115.7240
Worker	0.2688	0.1641	2.7183	9.5200e-003	1.2020	5.5000e-003	1.2075	0.3212	5.0600e-003	0.3263	0.0000	873.2541	873.2541	0.0160	0.0191	879.3298
Total	**0.2750**	**0.4030**	**2.8146**	**0.0106**	**1.2412**	**6.7600e-003**	**1.2480**	**0.3327**	**6.2600e-003**	**0.3389**	**0.0000**	**983.9787**	**983.9787**	**0.0234**	**0.0352**	**995.0539**

3.14 Residential Building B Building Construction - 2028

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	0.0218	0.1925	0.1864	4.1000e-004		7.6900e-003	7.6900e-003		7.2000e-003	7.2000e-003	0.0000	35.2192	35.2192	0.0103	0.0000	35.4771
Total	**0.0218**	**0.1925**	**0.1864**	**4.1000e-004**		**7.6900e-003**	**7.6900e-003**		**7.2000e-003**	**7.2000e-003**	**0.0000**	**35.2192**	**35.2192**	**0.0103**	**0.0000**	**35.4771**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	1.5300e-003	0.0591	0.0240	2.7000e-004	0.0104	3.1000e-004	0.0108	3.0100e-003	3.0000e-004	3.3100e-003	0.0000	27.0253	27.0253	1.8600e-003	3.9600e-003	28.2510
Worker	0.0637	0.0380	0.6478	2.3100e-003	0.3247	1.2800e-003	0.3260	0.0862	1.1800e-003	0.0874	0.0000	211.8787	211.8787	3.6900e-003	4.5500e-003	213.3280
Total	**0.0652**	**0.0970**	**0.6718**	**2.5800e-003**	**0.3351**	**1.5900e-003**	**0.3367**	**0.0892**	**1.4800e-003**	**0.0907**	**0.0000**	**238.9041**	**238.9041**	**5.5500e-003**	**8.5100e-003**	**241.5790**

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	0.0108	0.0600	0.2083	4.1000e-004		2.1100e-003	2.1100e-003		2.1100e-003	2.1100e-003	0.0000	35.2191	35.2191	0.0103	0.0000	35.4771
Total	**0.0108**	**0.0600**	**0.2083**	**4.1000e-004**		**2.1100e-003**	**2.1100e-003**		**2.1100e-003**	**2.1100e-003**	**0.0000**	**35.2191**	**35.2191**	**0.0103**	**0.0000**	**35.4771**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	1.5300e-003	0.0591	0.0240	2.7000e-004	9.7800e-003	3.1000e-004	0.0101	2.8500e-003	3.0000e-004	3.1500e-003	0.0000	27.0253	27.0253	1.8600e-003	3.9600e-003	28.2510
Worker	0.0637	0.0380	0.6478	2.3100e-003	0.2993	1.2800e-003	0.3006	0.0800	1.1800e-003	0.0812	0.0000	211.8787	211.8787	3.6900e-003	4.5500e-003	213.3280
Total	**0.0652**	**0.0970**	**0.6718**	**2.5800e-003**	**0.3091**	**1.5900e-003**	**0.3107**	**0.0829**	**1.4800e-003**	**0.0843**	**0.0000**	**238.9041**	**238.9041**	**5.5500e-003**	**8.5100e-003**	**241.5790**

3.15 Residential Building B Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9818					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4000e-003	0.0630	0.0995	1.6000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	14.0429	14.0429	7.7000e-004	0.0000	14.0621
Total	**0.9912**	**0.0630**	**0.0995**	**1.6000e-004**		**2.8300e-003**	**2.8300e-003**		**2.8300e-003**	**2.8300e-003**	**0.0000**	**14.0429**	**14.0429**	**7.7000e-004**	**0.0000**	**14.0621**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0108	6.4200e-003	0.1096	3.9000e-004	0.0549	2.2000e-004	0.0552	0.0146	2.0000e-004	0.0148	0.0000	35.8564	35.8564	6.2000e-004	7.7000e-004	36.1017
Total	**0.0108**	**6.4200e-003**	**0.1096**	**3.9000e-004**	**0.0549**	**2.2000e-004**	**0.0552**	**0.0146**	**2.0000e-004**	**0.0148**	**0.0000**	**35.8564**	**35.8564**	**6.2000e-004**	**7.7000e-004**	**36.1017**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9818					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	7.0800e-003	0.1008	1.6000e-004		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	14.0429	14.0429	7.7000e-004	0.0000	14.0620
Total	**0.9834**	**7.0800e-003**	**0.1008**	**1.6000e-004**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**14.0429**	**14.0429**	**7.7000e-004**	**0.0000**	**14.0620**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0108	6.4200e-003	0.1096	3.9000e-004	0.0507	2.2000e-004	0.0509	0.0135	2.0000e-004	0.0137	0.0000	35.8564	35.8564	6.2000e-004	7.7000e-004	36.1017
Total	**0.0108**	**6.4200e-003**	**0.1096**	**3.9000e-004**	**0.0507**	**2.2000e-004**	**0.0509**	**0.0135**	**2.0000e-004**	**0.0137**	**0.0000**	**35.8564**	**35.8564**	**6.2000e-004**	**7.7000e-004**	**36.1017**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	398.50	1000sqft	5.47	398,500.00	0
Other Asphalt Surfaces	192.00	1000sqft	4.41	192,000.00	0
Other Non-Asphalt Surfaces	206.53	1000sqft	2.86	206,533.70	0
Parking Lot	129.81	1000sqft	2.98	129,809.00	0
Apartments Mid Rise	670.00	Dwelling Unit	0.00	750,300.00	1115
Regional Shopping Center	119.42	1000sqft	0.80	119,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - structures are comprised of multiple stories

Construction Phase - based on information provided by applicant. see project description for construction durations

Off-road Equipment - based on information provided by the applicant

Off-road Equipment - no additional equipment required for asphalt demolition debris haul

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - based on information provided by applicant

Off-road Equipment - no additional equipment required for building demolition haul

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - no additional equipment required for site preparation soil haul

Off-road Equipment - no additional equipment required for site preparation soil haul

Trips and VMT - assumes 4 vt/water truck/day. Assumes that 2 dump trucks will be used for asphalt demo haul. Building Construction and Arch Coat are calculated based on CalEEMod Appendix A rates.

Demolition -

Grading -

Architectural Coating - see assumptions file for calculations. Parking only accounts for parking area and driveways

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and SCAQMD Rule 1186, MM: Tier 4 (Final) Equipment >50hp

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	59,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	59,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	179,123.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	179,123.00	0.00

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblArchitecturalCoating	ConstArea_Parking	55,611.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,611.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,611.00	43,219.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	211,815.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	294,638.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	635,445.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	883,913.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	59708	123708
tblAreaCoating	Area_Nonresidential_Interior	179123	371123
tblAreaCoating	Area_Parking	55611	55400
tblAreaCoating	Area_Residential_Exterior	506453	294638
tblAreaCoating	Area_Residential_Interior	1519358	883913
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	300.00	565.00
tblConstructionPhase	NumDays	300.00	695.00
tblConstructionPhase	NumDays	20.00	88.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	98.00
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	NumDays	10.00	33.00
tblFireplaces	NumberGas	569.50	331.50
tblFireplaces	NumberNoFireplace	67.00	39.00
tblFireplaces	NumberWood	33.50	19.50
tblGrading	MaterialExported	0.00	25,416.00
tblGrading	MaterialExported	0.00	12,904.00
tblLandUse	LandUseSquareFeet	206,530.00	206,533.70
tblLandUse	LandUseSquareFeet	129,810.00	129,809.00

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	670,000.00	750,300.00
tblLandUse	LandUseSquareFeet	119,420.00	119,415.00
tblLandUse	LotAcreage	9.15	5.47
tblLandUse	LotAcreage	4.74	2.86
tblLandUse	LotAcreage	17.63	0.00
tblLandUse	LotAcreage	2.74	0.80
tblLandUse	Population	1,916.00	1,115.00
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	158.00	131.00
tblOffRoadEquipment	HorsePower	130.00	188.00
tblOffRoadEquipment	HorsePower	80.00	86.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	85.00	350.00
tblOffRoadEquipment	HorsePower	158.00	101.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	367.00	365.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	308.20	179.40
tblTripsAndVMT	HaulingTripNumber	158.00	160.00
tblTripsAndVMT	HaulingTripNumber	112.00	163.00
tblTripsAndVMT	HaulingTripNumber	3,177.00	3,178.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	243.00	51.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	243.00	91.00
tblWater	IndoorWaterUseRate	43,653,197.17	25,410,069.99
tblWater	OutdoorWaterUseRate	27,520,493.87	16,019,391.95
tblWoodstoves	NumberCatalytic	33.50	19.50
tblWoodstoves	NumberNoncatalytic	33.50	19.50

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

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	9.2759	109.2263	67.4349	0.1943	11.9187	3.8737	15.7924	1.7867	3.5659	5.0624	0.0000	19,313.9056	19,313.9056	5.3671	0.6096	19,611.7042
2023	30.4131	110.2688	100.2587	0.3072	22.6720	3.8939	26.5658	4.3614	3.5882	7.9496	0.0000	30,782.9144	30,782.9144	6.0129	0.9652	31,220.8781
2024	8.0184	21.3038	41.1145	0.1340	10.8765	0.7110	11.5875	2.8976	0.6586	3.5562	0.0000	13,514.1301	13,514.1301	1.2956	0.4323	13,675.3441
2025	45.2117	12.9787	39.7895	0.1307	12.7878	0.4134	13.2012	3.4045	0.3930	3.7976	0.0000	13,230.1020	13,230.1020	0.6785	0.4491	13,380.8824
2026	2.8741	8.9040	29.4132	0.0991	10.4977	0.2911	10.7888	2.7914	0.2720	3.0634	0.0000	10,012.6628	10,012.6628	0.5554	0.2950	10,114.4563
2027	2.7644	8.7956	28.2848	0.0967	10.4977	0.2884	10.7862	2.7914	0.2695	3.0609	0.0000	9,770.5002	9,770.5002	0.5441	0.2856	9,869.2107
2028	39.0932	11.2038	35.1338	0.1153	12.5321	0.3964	12.9285	3.3309	0.3771	3.7081	0.0000	11,606.7789	11,606.7789	0.5898	0.3061	11,712.7408
Maximum	**45.2117**	**110.2688**	**100.2587**	**0.3072**	**22.6720**	**3.8939**	**26.5658**	**4.3614**	**3.5882**	**7.9496**	**0.0000**	**30,782.9144**	**30,782.9144**	**6.0129**	**0.9652**	**31,220.8781**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.2848	16.4199	77.7277	0.1943	5.7316	0.3248	6.0564	0.9222	0.3220	1.1369	0.0000	19,313.9056	19,313.9056	5.3671	0.6096	19,611.7042
2023	29.7053	21.2607	113.0219	0.3072	15.6517	0.4368	16.0884	3.4753	0.4301	3.9054	0.0000	30,782.9143	30,782.9143	6.0129	0.9652	31,220.8781
2024	6.9923	7.6401	45.2185	0.1340	10.0336	0.1666	10.2002	2.6908	0.1619	2.8526	0.0000	13,514.1301	13,514.1301	1.2956	0.4323	13,675.3441
2025	44.5922	6.8681	40.5106	0.1307	11.7954	0.1466	11.9421	3.1610	0.1414	3.3024	0.0000	13,230.1020	13,230.1020	0.6785	0.4491	13,380.8824
2026	2.5369	4.8269	30.0877	0.0991	9.6809	0.1194	9.8004	2.5909	0.1154	2.7064	0.0000	10,012.6628	10,012.6628	0.5554	0.2950	10,114.4563
2027	2.4272	4.7186	28.9594	0.0967	9.6809	0.1168	9.7977	2.5909	0.1130	2.7039	0.0000	9,770.5002	9,770.5002	0.5441	0.2856	9,869.2107
2028	38.4737	5.0932	35.8549	0.1153	11.5561	0.1297	11.6858	3.0914	0.1255	3.2169	0.0000	11,606.7789	11,606.7789	0.5898	0.3061	11,712.7408
Maximum	**44.5922**	**21.2607**	**113.0219**	**0.3072**	**15.6517**	**0.4368**	**16.0884**	**3.4753**	**0.4301**	**3.9054**	**0.0000**	**30,782.9143**	**30,782.9143**	**6.0129**	**0.9652**	**31,220.8781**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.73**	**76.36**	**-8.77**	**0.00**	**19.23**	**85.40**	**25.66**	**13.30**	**84.55**	**34.35**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	6/1/2022	9/30/2022	5	88	a
2	Asphalt Demolition	Demolition	7/1/2022	8/15/2022	5	32	c
3	Building Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	b
4	Asphalt Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	d
5	Site Preparation	Site Preparation	10/1/2022	2/15/2023	5	98	e
6	Site Preparation Soil Haul 2022	Site Preparation	10/1/2022	12/31/2022	5	65	f
7	Site Preparation Soil Haul 2023	Site Preparation	1/1/2023	2/15/2023	5	33	g
8	Retail and Residential Building A Building Construction	Building Construction	2/1/2023	9/30/2025	5	695	h
9	Retail Architectural Coating	Architectural Coating	10/15/2023	12/23/2023	5	50	i
10	Finishing and Landscaping	Trenching	4/1/2024	4/30/2024	5	22	l
11	Paving	Paving	4/1/2024	4/7/2024	5	5	k
12	Residential Building A Architectural Coating	Architectural Coating	7/1/2025	9/30/2025	5	66	j
13	Residential Building B Building Construction	Building Construction	2/1/2026	3/31/2028	5	565	m
14	Residential Building B Architectural Coating	Architectural Coating	1/15/2028	3/31/2028	5	55	n

Acres of Grading (Site Preparation Phase): 980

Acres of Grading (Grading Phase): 0

Acres of Paving: 15.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 179,123; Non-Residential Outdoor: 59,708; Striped Parking Area: 43,219

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Building Demolition	Crushing/Proc. Equipment	1	8.00	350	0.78
Building Demolition	Excavators	2	8.00	131	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	0	8.00	158	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Excavators	1	8.00	101	0.38
Site Preparation	Graders	4	8.00	238	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Scrapers	8	8.00	365	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation Soil Haul 2022	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2022	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation Soil Haul 2023	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2023	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Retail and Residential Building A Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73
Retail and Residential Building A Building Construction	Cranes	1	8.00	300	0.29
Retail and Residential Building A Building Construction	Forklifts	0	8.00	89	0.20
Retail and Residential Building A Building Construction	Generator Sets	0	8.00	84	0.74

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Retail and Residential Building A Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Retail and Residential Building A Building Construction	Welders	0	8.00	46	0.45
Retail Architectural Coating	Air Compressors	2	6.00	78	0.48
Residential Building A Architectural Coating	Air Compressors	2	6.00	78	0.48
Paving	Pavers	1	8.00	188	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	86	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Finishing and Landscaping	Graders	1	8.00	238	0.41
Residential Building B Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73
Residential Building B Building Construction	Cranes	1	8.00	300	0.29
Residential Building B Building Construction	Forklifts	0	8.00	89	0.20
Residential Building B Building Construction	Generator Sets	0	8.00	84	0.74
Residential Building B Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Residential Building B Building Construction	Welders	0	8.00	46	0.45
Residential Building B Architectural Coating	Air Compressors	2	6.00	78	0.48

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Building Demolition	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	0	0.00	0.00	160.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	0	0.00	0.00	163.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	14	35.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2022	0	0.00	0.00	3,178.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2023	0	0.00	0.00	1,613.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail and Residential Building A Building	3	910.00	91.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building A Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing and Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building B Building Construction	3	910.00	51.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building B Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Building 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					
Off-Road	1.7282	11.3102	12.7732	0.0358		0.4637	0.4637		0.4451	0.4451		3,866.6787	3,866.6787	0.4763		3,878.5869
Total	**1.7282**	**11.3102**	**12.7732**	**0.0358**		**0.4637**	**0.4637**		**0.4451**	**0.4451**		**3,866.6787**	**3,866.6787**	**0.4763**		**3,878.5869**

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6700e-003	9.0300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	0.0301	0.0202	0.3286	9.7000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		98.4712	98.4712	2.3200e-003	2.2100e-003	99.1885
Total	**0.0367**	**0.1997**	**0.3924**	**1.7300e-003**	**0.1374**	**2.3500e-003**	**0.1397**	**0.0370**	**2.2200e-003**	**0.0392**		**181.4142**	**181.4142**	**7.0700e-003**	**0.0141**	**185.7925**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4322	1.8730	19.4318	0.0358		0.0576	0.0576		0.0576	0.0576	0.0000	3,866.6787	3,866.6787	0.4763		3,878.5869
Total	**0.4322**	**1.8730**	**19.4318**	**0.0358**		**0.0576**	**0.0576**		**0.0576**	**0.0576**	**0.0000**	**3,866.6787**	**3,866.6787**	**0.4763**		**3,878.5869**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6700e-003	8.6300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	0.0301	0.0202	0.3286	9.7000e-004	0.1030	6.0000e-004	0.1036	0.0275	5.5000e-004	0.0281		98.4712	98.4712	2.3200e-003	2.2100e-003	99.1885
Total	**0.0367**	**0.1997**	**0.3924**	**1.7300e-003**	**0.1270**	**2.3500e-003**	**0.1293**	**0.0345**	**2.2200e-003**	**0.0367**		**181.4142**	**181.4142**	**7.0700e-003**	**0.0141**	**185.7925**

3.3 Asphalt 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					
Off-Road	0.1647	1.6756	2.2379	3.1100e-003		0.0901	0.0901		0.0829	0.0829		301.2390	301.2390	0.0974		303.6746
Total	**0.1647**	**1.6756**	**2.2379**	**3.1100e-003**		**0.0901**	**0.0901**		**0.0829**	**0.0829**		**301.2390**	**301.2390**	**0.0974**		**303.6746**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6700e-003	9.0300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	9.0200e-003	6.0600e-003	0.0986	2.9000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		29.5414	29.5414	6.9000e-004	6.6000e-004	29.7566
Total	**0.0157**	**0.1855**	**0.1623**	**1.0500e-003**	**0.0591**	**1.9300e-003**	**0.0610**	**0.0163**	**1.8400e-003**	**0.0181**		**112.4844**	**112.4844**	**5.4400e-003**	**0.0126**	**116.3606**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0380	0.1646	2.3421	3.1100e-003		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	301.2390	301.2390	0.0974		303.6746
Total	**0.0380**	**0.1646**	**2.3421**	**3.1100e-003**		**5.0600e-003**	**5.0600e-003**		**5.0600e-003**	**5.0600e-003**	**0.0000**	**301.2390**	**301.2390**	**0.0974**		**303.6746**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6700e-003	8.6300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	9.0200e-003	6.0600e-003	0.0986	2.9000e-004	0.0309	1.8000e-004	0.0311	8.2500e-003	1.7000e-004	8.4200e-003		29.5414	29.5414	6.9000e-004	6.6000e-004	29.7566
Total	**0.0157**	**0.1855**	**0.1623**	**1.0500e-003**	**0.0549**	**1.9300e-003**	**0.0568**	**0.0152**	**1.8400e-003**	**0.0171**		**112.4844**	**112.4844**	**5.4400e-003**	**0.0126**	**116.3606**

3.4 Building Demolition Debris Haul - 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					5.7064	0.0000	5.7064	0.8640	0.0000	0.8640			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.7064**	**0.0000**	**5.7064**	**0.8640**	**0.0000**	**0.8640**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Hauling	0.1080	4.1518	1.1662	0.0159	0.4651	0.0314	0.4965	0.1274	0.0301	0.1574		1,802.9238	1,802.9238	0.1719	0.2888	1,893.2714
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	0.0000	0.0000	0.0000	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	**0.1080**	**4.1518**	**1.1662**	**0.0159**	**0.4651**	**0.0314**	**0.4965**	**0.1274**	**0.0301**	**0.1574**		**1,802.9238**	**1,802.9238**	**0.1719**	**0.2888**	**1,893.2714**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4395	0.0000	2.4395	0.3694	0.0000	0.3694			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.4395**	**0.0000**	**2.4395**	**0.3694**	**0.0000**	**0.3694**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1080	4.1518	1.1662	0.0159	0.4334	0.0314	0.4648	0.1196	0.0301	0.1496		1,802.9238	1,802.9238	0.1719	0.2888	1,893.2714
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	0.0000	0.0000	0.0000	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	**0.1080**	**4.1518**	**1.1662**	**0.0159**	**0.4334**	**0.0314**	**0.4648**	**0.1196**	**0.0301**	**0.1496**		**1,802.9238**	**1,802.9238**	**0.1719**	**0.2888**	**1,893.2714**

3.5 Asphalt Demolition Debris Haul - 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					4.0444	0.0000	4.0444	0.6124	0.0000	0.6124			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**4.0444**	**0.0000**	**4.0444**	**0.6124**	**0.0000**	**0.6124**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Hauling	0.1100	4.2296	1.1881	0.0162	0.4738	0.0320	0.5058	0.1298	0.0306	0.1604		1,836.7286	1,836.7286	0.1751	0.2942	1,928.7702
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	0.0000	0.0000	0.0000	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	**0.1100**	**4.2296**	**1.1881**	**0.0162**	**0.4738**	**0.0320**	**0.5058**	**0.1298**	**0.0306**	**0.1604**		**1,836.7286**	**1,836.7286**	**0.1751**	**0.2942**	**1,928.7702**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7290	0.0000	1.7290	0.2618	0.0000	0.2618			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.7290**	**0.0000**	**1.7290**	**0.2618**	**0.0000**	**0.2618**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1100	4.2296	1.1881	0.0162	0.4415	0.0320	0.4735	0.1218	0.0306	0.1524		1,836.7286	1,836.7286	0.1751	0.2942	1,928.7702
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	0.0000	0.0000	0.0000	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	**0.1100**	**4.2296**	**1.1881**	**0.0162**	**0.4415**	**0.0320**	**0.4735**	**0.1218**	**0.0306**	**0.1524**		**1,836.7286**	**1,836.7286**	**0.1751**	**0.2942**	**1,928.7702**

3.6 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					10.6050	0.0000	10.6050	1.1451	0.0000	1.1451			0.0000			0.0000
Off-Road	8.9659	101.3640	64.0828	0.1609		3.8122	3.8122		3.5072	3.5072		15,580.7221	15,580.7221	5.0391		15,706.7002
Total	**8.9659**	**101.3640**	**64.0828**	**0.1609**	**10.6050**	**3.8122**	**14.4172**	**1.1451**	**3.5072**	**4.6523**		**15,580.7221**	**15,580.7221**	**5.0391**		**15,706.7002**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6700e-003	9.0300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	0.1053	0.0707	1.1502	3.4100e-003	0.3912	2.1100e-003	0.3933	0.1038	1.9400e-003	0.1057		344.6490	344.6490	8.1100e-003	7.7500e-003	347.1598
Total	**0.1119**	**0.2502**	**1.2140**	**4.1700e-003**	**0.4168**	**3.8600e-003**	**0.4207**	**0.1111**	**3.6100e-003**	**0.1147**		**427.5921**	**427.5921**	**0.0129**	**0.0196**	**433.7638**

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					4.5336	0.0000	4.5336	0.4895	0.0000	0.4895			0.0000			0.0000
Off-Road	1.9748	8.5576	74.3756	0.1609		0.2633	0.2633		0.2633	0.2633	0.0000	15,580.7221	15,580.7221	5.0391		15,706.7002
Total	**1.9748**	**8.5576**	**74.3756**	**0.1609**	**4.5336**	**0.2633**	**4.7970**	**0.4895**	**0.2633**	**0.7528**	**0.0000**	**15,580.7221**	**15,580.7221**	**5.0391**		**15,706.7002**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	6.6500e-003	0.1795	0.0637	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6700e-003	8.6300e-003		82.9430	82.9430	4.7500e-003	0.0119	86.6040
Worker	0.1053	0.0707	1.1502	3.4100e-003	0.3606	2.1100e-003	0.3627	0.0962	1.9400e-003	0.0982		344.6490	344.6490	8.1100e-003	7.7500e-003	347.1598
Total	**0.1119**	**0.2502**	**1.2140**	**4.1700e-003**	**0.3846**	**3.8600e-003**	**0.3884**	**0.1032**	**3.6100e-003**	**0.1068**		**427.5921**	**427.5921**	**0.0129**	**0.0196**	**433.7638**

3.6 Site Preparation - 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					
Fugitive Dust					10.6050	0.0000	10.6050	1.1451	0.0000	1.1451			0.0000			0.0000
Off-Road	8.5191	92.7414	62.0147	0.1609		3.5061	3.5061		3.2256	3.2256		15,577.2716	15,577.2716	5.0380		15,703.2217
Total	**8.5191**	**92.7414**	**62.0147**	**0.1609**	**10.6050**	**3.5061**	**14.1111**	**1.1451**	**3.2256**	**4.3707**		**15,577.2716**	**15,577.2716**	**5.0380**		**15,703.2217**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	4.0400e-003	0.1402	0.0581	7.2000e-004	0.0256	7.2000e-004	0.0263	7.3600e-003	6.9000e-004	8.0500e-003		78.9798	78.9798	4.7000e-003	0.0113	82.4743
Worker	0.0986	0.0631	1.0688	3.3000e-003	0.3912	1.9900e-003	0.3932	0.1038	1.8400e-003	0.1056		333.6766	333.6766	7.3300e-003	7.2100e-003	336.0081
Total	**0.1026**	**0.2032**	**1.1270**	**4.0200e-003**	**0.4168**	**2.7100e-003**	**0.4195**	**0.1111**	**2.5300e-003**	**0.1136**		**412.6563**	**412.6563**	**0.0120**	**0.0185**	**418.4823**

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					4.5336	0.0000	4.5336	0.4895	0.0000	0.4895			0.0000			0.0000
Off-Road	1.9748	8.5576	74.3756	0.1609		0.2633	0.2633		0.2633	0.2633	0.0000	15,577.2716	15,577.2716	5.0380		15,703.2217
Total	**1.9748**	**8.5576**	**74.3756**	**0.1609**	**4.5336**	**0.2633**	**4.7970**	**0.4895**	**0.2633**	**0.7528**	**0.0000**	**15,577.2716**	**15,577.2716**	**5.0380**		**15,703.2217**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	4.0400e-003	0.1402	0.0581	7.2000e-004	0.0239	7.2000e-004	0.0247	6.9600e-003	6.9000e-004	7.6500e-003		78.9798	78.9798	4.7000e-003	0.0113	82.4743
Worker	0.0986	0.0631	1.0688	3.3000e-003	0.3606	1.9900e-003	0.3626	0.0962	1.8400e-003	0.0981		333.6766	333.6766	7.3300e-003	7.2100e-003	336.0081
Total	**0.1026**	**0.2032**	**1.1270**	**4.0200e-003**	**0.3845**	**2.7100e-003**	**0.3873**	**0.1032**	**2.5300e-003**	**0.1057**		**412.6563**	**412.6563**	**0.0120**	**0.0185**	**418.4823**

3.7 Site Preparation Soil Haul 2022 - 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					0.0442	0.0000	0.0442	6.7000e-003	0.0000	6.7000e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0442**	**0.0000**	**0.0442**	**6.7000e-003**	**0.0000**	**6.7000e-003**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Hauling	0.1981	7.6121	2.1382	0.0292	0.8527	0.0576	0.9103	0.2335	0.0551	0.2886		3,305.5914	3,305.5914	0.3151	0.5294	3,471.2402
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	0.0000	0.0000	0.0000	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	**0.1981**	**7.6121**	**2.1382**	**0.0292**	**0.8527**	**0.0576**	**0.9103**	**0.2335**	**0.0551**	**0.2886**		**3,305.5914**	**3,305.5914**	**0.3151**	**0.5294**	**3,471.2402**

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					0.0189	0.0000	0.0189	2.8600e-003	0.0000	2.8600e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0189**	**0.0000**	**0.0189**	**2.8600e-003**	**0.0000**	**2.8600e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1981	7.6121	2.1382	0.0292	0.7945	0.0576	0.8521	0.2192	0.0551	0.2743		3,305.5914	3,305.5914	0.3151	0.5294	3,471.2402
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	0.0000	0.0000	0.0000	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	**0.1981**	**7.6121**	**2.1382**	**0.0292**	**0.7945**	**0.0576**	**0.8521**	**0.2192**	**0.0551**	**0.2743**		**3,305.5914**	**3,305.5914**	**0.3151**	**0.5294**	**3,471.2402**

3.8 Site Preparation Soil Haul 2023 - 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					
Fugitive Dust					0.0442	0.0000	0.0442	6.7000e-003	0.0000	6.7000e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0442**	**0.0000**	**0.0442**	**6.7000e-003**	**0.0000**	**6.7000e-003**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Hauling	0.1019	5.8250	1.9968	0.0274	0.8524	0.0375	0.8899	0.2334	0.0359	0.2693		3,126.0457	3,126.0457	0.3154	0.5015	3,283.3653
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	0.0000	0.0000	0.0000	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	**0.1019**	**5.8250**	**1.9968**	**0.0274**	**0.8524**	**0.0375**	**0.8899**	**0.2334**	**0.0359**	**0.2693**		**3,126.0457**	**3,126.0457**	**0.3154**	**0.5015**	**3,283.3653**

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					0.0189	0.0000	0.0189	2.8600e-003	0.0000	2.8600e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0189**	**0.0000**	**0.0189**	**2.8600e-003**	**0.0000**	**2.8600e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1019	5.8250	1.9968	0.0274	0.7943	0.0375	0.8318	0.2192	0.0359	0.2550		3,126.0457	3,126.0457	0.3154	0.5015	3,283.3653
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	0.0000	0.0000	0.0000	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	**0.1019**	**5.8250**	**1.9968**	**0.0274**	**0.7943**	**0.0375**	**0.8318**	**0.2192**	**0.0359**	**0.2550**		**3,126.0457**	**3,126.0457**	**0.3154**	**0.5015**	**3,283.3653**

3.9 Retail and Residential Building A 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	0.7168	6.6706	6.0084	0.0127		0.2793	0.2793		0.2608	0.2608		1,194.5600	1,194.5600	0.3500		1,203.3096
Total	**0.7168**	**6.6706**	**6.0084**	**0.0127**		**0.2793**	**0.2793**		**0.2608**	**0.2608**		**1,194.5600**	**1,194.5600**	**0.3500**		**1,203.3096**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0919	3.1892	1.3223	0.0164	0.5819	0.0164	0.5982	0.1675	0.0157	0.1831		1,796.7894	1,796.7894	0.1068	0.2578	1,876.2894
Worker	2.5625	1.6392	27.7896	0.0858	10.1717	0.0519	10.2235	2.6976	0.0477	2.7453		8,675.5913	8,675.5913	0.1907	0.1874	8,736.2098
Total	**2.6544**	**4.8284**	**29.1118**	**0.1022**	**10.7535**	**0.0682**	**10.8217**	**2.8650**	**0.0634**	**2.9284**		**10,472.3807**	**10,472.3807**	**0.2975**	**0.4452**	**10,612.4992**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4107	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.5600	1,194.5600	0.3500		1,203.3096
Total	**0.3329**	**1.8463**	**6.4107**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.5600**	**1,194.5600**	**0.3500**		**1,203.3096**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0919	3.1892	1.3223	0.0164	0.5445	0.0164	0.5609	0.1583	0.0157	0.1740		1,796.7894	1,796.7894	0.1068	0.2578	1,876.2894
Worker	2.5625	1.6392	27.7896	0.0858	9.3758	0.0519	9.4276	2.5022	0.0477	2.5500		8,675.5913	8,675.5913	0.1907	0.1874	8,736.2098
Total	**2.6544**	**4.8284**	**29.1118**	**0.1022**	**9.9203**	**0.0682**	**9.9885**	**2.6605**	**0.0634**	**2.7239**		**10,472.3807**	**10,472.3807**	**0.2975**	**0.4452**	**10,612.4992**

3.9 Retail and Residential Building A Building Construction - 2024

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	0.7005	6.3874	5.8937	0.0127		0.2619	0.2619		0.2448	0.2448		1,194.4011	1,194.4011	0.3499		1,203.1493
Total	**0.7005**	**6.3874**	**5.8937**	**0.0127**		**0.2619**	**0.2619**		**0.2448**	**0.2448**		**1,194.4011**	**1,194.4011**	**0.3499**		**1,203.1493**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0905	3.1798	1.3124	0.0161	0.5819	0.0171	0.5990	0.1675	0.0164	0.1838		1,768.9159	1,768.9159	0.1080	0.2549	1,847.5728
Worker	2.4080	1.4722	25.8584	0.0831	10.1717	0.0493	10.2209	2.6976	0.0453	2.7429		8,400.0728	8,400.0728	0.1729	0.1753	8,456.6292
Total	**2.4985**	**4.6520**	**27.1709**	**0.0992**	**10.7535**	**0.0664**	**10.8199**	**2.8650**	**0.0617**	**2.9267**		**10,168.9887**	**10,168.9887**	**0.2808**	**0.4302**	**10,304.2020**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4104	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.4011	1,194.4011	0.3499		1,203.1493
Total	**0.3329**	**1.8463**	**6.4104**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.4011**	**1,194.4011**	**0.3499**		**1,203.1493**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0905	3.1798	1.3124	0.0161	0.5445	0.0171	0.5616	0.1583	0.0164	0.1747		1,768.9159	1,768.9159	0.1080	0.2549	1,847.5728
Worker	2.4080	1.4722	25.8584	0.0831	9.3758	0.0493	9.4250	2.5022	0.0453	2.5476		8,400.0728	8,400.0728	0.1729	0.1753	8,456.6292
Total	**2.4985**	**4.6520**	**27.1709**	**0.0992**	**9.9203**	**0.0664**	**9.9867**	**2.6605**	**0.0617**	**2.7222**		**10,168.9887**	**10,168.9887**	**0.2808**	**0.4302**	**10,304.2020**

3.9 Retail and Residential Building A Building Construction - 2025

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0892	3.1641	1.3072	0.0158	0.5819	0.0172	0.5991	0.1675	0.0165	0.1839		1,735.8000	1,735.8000	0.1093	0.2512	1,813.3847
Worker	2.2729	1.3334	24.2735	0.0803	10.1717	0.0471	10.2187	2.6976	0.0433	2.7409		8,114.0568	8,114.0568	0.1570	0.1649	8,167.1224
Total	**2.3621**	**4.4976**	**25.5807**	**0.0960**	**10.7535**	**0.0643**	**10.8178**	**2.8650**	**0.0598**	**2.9248**		**9,849.8568**	**9,849.8568**	**0.2664**	**0.4161**	**9,980.5071**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4104	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.3329**	**1.8463**	**6.4104**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0892	3.1641	1.3072	0.0158	0.5445	0.0172	0.5617	0.1583	0.0165	0.1748		1,735.8000	1,735.8000	0.1093	0.2512	1,813.3847
Worker	2.2729	1.3334	24.2735	0.0803	9.3758	0.0471	9.4229	2.5022	0.0433	2.5455		8,114.0568	8,114.0568	0.1570	0.1649	8,167.1224
Total	**2.3621**	**4.4976**	**25.5807**	**0.0960**	**9.9203**	**0.0643**	**9.9846**	**2.6605**	**0.0598**	**2.7203**		**9,849.8568**	**9,849.8568**	**0.2664**	**0.4161**	**9,980.5071**

3.10 Retail 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	26.1460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3833	2.6060	3.6222	5.9400e-003		0.1416	0.1416		0.1416	0.1416		562.8961	562.8961	0.0337		563.7380
Total	**26.5294**	**2.6060**	**3.6222**	**5.9400e-003**		**0.1416**	**0.1416**		**0.1416**	**0.1416**		**562.8961**	**562.8961**	**0.0337**		**563.7380**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.5125	0.3279	5.5579	0.0172	2.0343	0.0104	2.0447	0.5395	9.5500e-003	0.5491		1,735.1183	1,735.1183	0.0381	0.0375	1,747.2420
Total	**0.5125**	**0.3279**	**5.5579**	**0.0172**	**2.0343**	**0.0104**	**2.0447**	**0.5395**	**9.5500e-003**	**0.5491**		**1,735.1183**	**1,735.1183**	**0.0381**	**0.0375**	**1,747.2420**

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	26.1460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0337		563.7380
Total	**26.2055**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0337**		**563.7380**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.5125	0.3279	5.5579	0.0172	1.8752	0.0104	1.8855	0.5004	9.5500e-003	0.5100		1,735.1183	1,735.1183	0.0381	0.0375	1,747.2420
Total	**0.5125**	**0.3279**	**5.5579**	**0.0172**	**1.8752**	**0.0104**	**1.8855**	**0.5004**	**9.5500e-003**	**0.5100**		**1,735.1183**	**1,735.1183**	**0.0381**	**0.0375**	**1,747.2420**

3.11 Finishing and Landscaping - 2024

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	0.4513	5.2891	2.1082	8.4200e-003		0.1715	0.1715		0.1578	0.1578		815.1913	815.1913	0.2637		821.7826
Total	**0.4513**	**5.2891**	**2.1082**	**8.4200e-003**		**0.1715**	**0.1715**		**0.1578**	**0.1578**		**815.1913**	**815.1913**	**0.2637**		**821.7826**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	7.9400e-003	4.8500e-003	0.0853	2.7000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		27.6926	27.6926	5.7000e-004	5.8000e-004	27.8790
Total	**7.9400e-003**	**4.8500e-003**	**0.0853**	**2.7000e-004**	**0.0335**	**1.6000e-004**	**0.0337**	**8.8900e-003**	**1.5000e-004**	**9.0400e-003**		**27.6926**	**27.6926**	**5.7000e-004**	**5.8000e-004**	**27.8790**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1033	0.4475	3.7862	8.4200e-003		0.0138	0.0138		0.0138	0.0138	0.0000	815.1913	815.1913	0.2637		821.7826
Total	**0.1033**	**0.4475**	**3.7862**	**8.4200e-003**		**0.0138**	**0.0138**		**0.0138**	**0.0138**	**0.0000**	**815.1913**	**815.1913**	**0.2637**		**821.7826**

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	7.9400e-003	4.8500e-003	0.0853	2.7000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		27.6926	27.6926	5.7000e-004	5.8000e-004	27.8790
Total	**7.9400e-003**	**4.8500e-003**	**0.0853**	**2.7000e-004**	**0.0309**	**1.6000e-004**	**0.0311**	**8.2500e-003**	**1.5000e-004**	**8.4000e-003**		**27.6926**	**27.6926**	**5.7000e-004**	**5.8000e-004**	**27.8790**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Paving - 2024

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	0.4666	4.9575	5.6292	0.0128		0.2106	0.2106		0.1938	0.1938		1,234.0097	1,234.0097	0.3991		1,243.9873
Paving	3.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3390**	**4.9575**	**5.6292**	**0.0128**		**0.2106**	**0.2106**		**0.1938**	**0.1938**		**1,234.0097**	**1,234.0097**	**0.3991**		**1,243.9873**

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	0.0212	0.0129	0.2273	7.3000e-004	0.0894	4.3000e-004	0.0899	0.0237	4.0000e-004	0.0241		73.8468	73.8468	1.5200e-003	1.5400e-003	74.3440
Total	**0.0212**	**0.0129**	**0.2273**	**7.3000e-004**	**0.0894**	**4.3000e-004**	**0.0899**	**0.0237**	**4.0000e-004**	**0.0241**		**73.8468**	**73.8468**	**1.5200e-003**	**1.5400e-003**	**74.3440**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1561	0.6765	7.5384	0.0128		0.0208	0.0208		0.0208	0.0208	0.0000	1,234.0097	1,234.0097	0.3991		1,243.9873
Paving	3.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.0285**	**0.6765**	**7.5384**	**0.0128**		**0.0208**	**0.0208**		**0.0208**	**0.0208**	**0.0000**	**1,234.0097**	**1,234.0097**	**0.3991**		**1,243.9873**

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	0.0212	0.0129	0.2273	7.3000e-004	0.0824	4.3000e-004	0.0829	0.0220	4.0000e-004	0.0224		73.8468	73.8468	1.5200e-003	1.5400e-003	74.3440
Total	**0.0212**	**0.0129**	**0.2273**	**7.3000e-004**	**0.0824**	**4.3000e-004**	**0.0829**	**0.0220**	**4.0000e-004**	**0.0224**		**73.8468**	**73.8468**	**1.5200e-003**	**1.5400e-003**	**74.3440**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Residential Building A Architectural Coating - 2025

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	41.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**41.7249**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.4546	0.2667	4.8547	0.0161	2.0343	9.4100e-003	2.0437	0.5395	8.6600e-003	0.5482		1,622.8114	1,622.8114	0.0314	0.0330	1,633.4245
Total	**0.4546**	**0.2667**	**4.8547**	**0.0161**	**2.0343**	**9.4100e-003**	**2.0437**	**0.5395**	**8.6600e-003**	**0.5482**		**1,622.8114**	**1,622.8114**	**0.0314**	**0.0330**	**1,633.4245**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	41.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**41.4426**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.4546	0.2667	4.8547	0.0161	1.8752	9.4100e-003	1.8846	0.5004	8.6600e-003	0.5091		1,622.8114	1,622.8114	0.0314	0.0330	1,633.4245
Total	**0.4546**	**0.2667**	**4.8547**	**0.0161**	**1.8752**	**9.4100e-003**	**1.8846**	**0.5004**	**8.6600e-003**	**0.5091**		**1,622.8114**	**1,622.8114**	**0.0314**	**0.0330**	**1,633.4245**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.14 Residential Building B Building Construction - 2026

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0493	1.7606	0.7303	8.6400e-003	0.3261	9.6500e-003	0.3357	0.0939	9.2300e-003	0.1031		954.1695	954.1695	0.0620	0.1386	997.0258
Worker	2.1548	1.2200	22.9470	0.0778	10.1717	0.0448	10.2164	2.6976	0.0412	2.7388		7,863.9556	7,863.9556	0.1435	0.1564	7,914.1434
Total	**2.2040**	**2.9806**	**23.6773**	**0.0864**	**10.4977**	**0.0544**	**10.5522**	**2.7914**	**0.0504**	**2.8418**		**8,818.1250**	**8,818.1250**	**0.2054**	**0.2950**	**8,911.1692**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4104	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.3329**	**1.8463**	**6.4104**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0493	1.7606	0.7303	8.6400e-003	0.3052	9.6500e-003	0.3148	0.0887	9.2300e-003	0.0979		954.1695	954.1695	0.0620	0.1386	997.0258
Worker	2.1548	1.2200	22.9470	0.0778	9.3758	0.0448	9.4206	2.5022	0.0412	2.5434		7,863.9556	7,863.9556	0.1435	0.1564	7,914.1434
Total	**2.2040**	**2.9806**	**23.6773**	**0.0864**	**9.6809**	**0.0544**	**9.7354**	**2.5909**	**0.0504**	**2.6414**		**8,818.1250**	**8,818.1250**	**0.2054**	**0.2950**	**8,911.1692**

3.14 Residential Building B Building Construction - 2027

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0486	1.7474	0.7281	8.4500e-003	0.3261	9.6200e-003	0.3357	0.0939	9.2000e-003	0.1031		934.6434	934.6434	0.0624	0.1363	976.8227
Worker	2.0457	1.1248	21.8209	0.0756	10.1717	0.0421	10.2138	2.6976	0.0388	2.7363		7,641.3191	7,641.3191	0.1318	0.1493	7,689.1009
Total	**2.0943**	**2.8722**	**22.5490**	**0.0841**	**10.4977**	**0.0518**	**10.5495**	**2.7914**	**0.0480**	**2.8394**		**8,575.9625**	**8,575.9625**	**0.1942**	**0.2856**	**8,665.9236**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4104	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.3329**	**1.8463**	**6.4104**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0486	1.7474	0.7281	8.4500e-003	0.3051	9.6200e-003	0.3148	0.0887	9.2000e-003	0.0979		934.6434	934.6434	0.0624	0.1363	976.8227
Worker	2.0457	1.1248	21.8209	0.0756	9.3758	0.0421	9.4179	2.5022	0.0388	2.5410		7,641.3191	7,641.3191	0.1318	0.1493	7,689.1009
Total	**2.0943**	**2.8722**	**22.5490**	**0.0841**	**9.6809**	**0.0518**	**9.7327**	**2.5909**	**0.0480**	**2.6389**		**8,575.9625**	**8,575.9625**	**0.1942**	**0.2856**	**8,665.9236**

3.14 Residential Building B Building Construction - 2028

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0480	1.7356	0.7276	8.2700e-003	0.3261	9.5900e-003	0.3357	0.0938	9.1700e-003	0.1030		915.9989	915.9989	0.0630	0.1341	957.5225
Worker	1.9441	1.0448	20.8767	0.0737	10.1717	0.0393	10.2110	2.6976	0.0362	2.7337		7,444.4550	7,444.4550	0.1217	0.1434	7,490.2228
Total	**1.9921**	**2.7804**	**21.6043**	**0.0819**	**10.4977**	**0.0489**	**10.5466**	**2.7914**	**0.0453**	**2.8368**		**8,360.4540**	**8,360.4540**	**0.1847**	**0.2774**	**8,447.7454**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4104	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.3329**	**1.8463**	**6.4104**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0480	1.7356	0.7276	8.2700e-003	0.3051	9.5900e-003	0.3147	0.0887	9.1700e-003	0.0979		915.9989	915.9989	0.0630	0.1341	957.5225
Worker	1.9441	1.0448	20.8767	0.0737	9.3758	0.0393	9.4151	2.5022	0.0362	2.5384		7,444.4550	7,444.4550	0.1217	0.1434	7,490.2228
Total	**1.9921**	**2.7804**	**21.6043**	**0.0819**	**9.6809**	**0.0489**	**9.7298**	**2.5909**	**0.0453**	**2.6363**		**8,360.4540**	**8,360.4540**	**0.1847**	**0.2774**	**8,447.7454**

3.15 Residential Building B Architectural Coating - 2028

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	35.7005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**36.0422**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.3888	0.2090	4.1753	0.0147	2.0343	7.8600e-003	2.0422	0.5395	7.2300e-003	0.5468		1,488.8910	1,488.8910	0.0244	0.0287	1,498.0446
Total	**0.3888**	**0.2090**	**4.1753**	**0.0147**	**2.0343**	**7.8600e-003**	**2.0422**	**0.5395**	**7.2300e-003**	**0.5468**		**1,488.8910**	**1,488.8910**	**0.0244**	**0.0287**	**1,498.0446**

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	35.7005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**35.7599**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

Mitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.3888	0.2090	4.1753	0.0147	1.8752	7.8600e-003	1.8830	0.5004	7.2300e-003	0.5077		1,488.8910	1,488.8910	0.0244	0.0287	1,498.0446
Total	**0.3888**	**0.2090**	**4.1753**	**0.0147**	**1.8752**	**7.8600e-003**	**1.8830**	**0.5004**	**7.2300e-003**	**0.5077**		**1,488.8910**	**1,488.8910**	**0.0244**	**0.0287**	**1,498.0446**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	398.50	1000sqft	5.47	398,500.00	0
Other Asphalt Surfaces	192.00	1000sqft	4.41	192,000.00	0
Other Non-Asphalt Surfaces	206.53	1000sqft	2.86	206,533.70	0
Parking Lot	129.81	1000sqft	2.98	129,809.00	0
Apartments Mid Rise	670.00	Dwelling Unit	0.00	750,300.00	1115
Regional Shopping Center	119.42	1000sqft	0.80	119,415.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - structures are comprised of multiple stories

Construction Phase - based on information provided by applicant. see project description for construction durations

Off-road Equipment - based on information provided by the applicant

Off-road Equipment - no additional equipment required for asphalt demolition debris haul

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - based on information provided by applicant

Off-road Equipment - no additional equipment required for building demolition haul

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - assuming air compressor as proxy for plaster gun, based on info from applicant

Off-road Equipment - based on info from applicant

Off-road Equipment - no additional equipment required for site preparation soil haul

Off-road Equipment - no additional equipment required for site preparation soil haul

Trips and VMT - assumes 4 vt/water truck/day. Assumes that 2 dump trucks will be used for asphalt demo haul. Building Construction and Arch Coat are calculated based on CalEEMod Appendix A rates

Demolition -

Grading -

Architectural Coating - see assumptions file for calculations. Parking only accounts for parking area and driveways

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and SCAQMD Rule 1186, MM: Tier 4 (Final) Equipment >50hp

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	59,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	59,708.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	179,123.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	179,123.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,611.00	0.00

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblArchitecturalCoating	ConstArea_Parking	55,611.00	0.00
tblArchitecturalCoating	ConstArea_Parking	55,611.00	43,219.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	211,815.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	294,638.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	506,453.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	635,445.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	883,913.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,519,358.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	59708	123708
tblAreaCoating	Area_Nonresidential_Interior	179123	371123
tblAreaCoating	Area_Parking	55611	55400
tblAreaCoating	Area_Residential_Exterior	506453	294638
tblAreaCoating	Area_Residential_Interior	1519358	883913
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	300.00	565.00
tblConstructionPhase	NumDays	300.00	695.00
tblConstructionPhase	NumDays	20.00	88.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	98.00
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	NumDays	10.00	33.00
tblFireplaces	NumberGas	569.50	331.50
tblFireplaces	NumberNoFireplace	67.00	39.00
tblFireplaces	NumberWood	33.50	19.50
tblGrading	MaterialExported	0.00	25,416.00
tblGrading	MaterialExported	0.00	12,904.00
tblLandUse	LandUseSquareFeet	206,530.00	206,533.70
tblLandUse	LandUseSquareFeet	129,810.00	129,809.00
tblLandUse	LandUseSquareFeet	670,000.00	750,300.00

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	119,420.00	119,415.00
tblLandUse	LotAcreage	9.15	5.47
tblLandUse	LotAcreage	4.74	2.86
tblLandUse	LotAcreage	17.63	0.00
tblLandUse	LotAcreage	2.74	0.80
tblLandUse	Population	1,916.00	1,115.00
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	231.00	300.00
tblOffRoadEquipment	HorsePower	158.00	131.00
tblOffRoadEquipment	HorsePower	130.00	188.00
tblOffRoadEquipment	HorsePower	80.00	86.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	81.00	23.00
tblOffRoadEquipment	HorsePower	85.00	350.00
tblOffRoadEquipment	HorsePower	158.00	101.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	367.00	365.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	308.20	179.40
tblTripsAndVMT	HaulingTripNumber	158.00	160.00
tblTripsAndVMT	HaulingTripNumber	112.00	163.00
tblTripsAndVMT	HaulingTripNumber	3,177.00	3,178.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	243.00	51.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	243.00	91.00
tblWater	IndoorWaterUseRate	43,653,197.17	25,410,069.99
tblWater	OutdoorWaterUseRate	27,520,493.87	16,019,391.95
tblWoodstoves	NumberCatalytic	33.50	19.50
tblWoodstoves	NumberNoncatalytic	33.50	19.50

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

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	9.2804	109.5393	67.3886	0.1941	11.9187	3.8738	15.7925	1.7867	3.5661	5.0625	0.0000	19,298.1933	19,298.1933	5.3669	0.6100	19,596.1826
2023	30.6955	110.8320	98.3497	0.3030	22.6720	3.8941	26.5661	4.3614	3.5884	7.9498	0.0000	30,357.7699	30,357.7699	6.0171	0.9788	30,799.8641
2024	8.2504	21.5916	39.3918	0.1300	10.8765	0.7111	11.5876	2.8976	0.6587	3.5563	0.0000	13,110.9979	13,110.9979	1.2998	0.4442	13,275.8515
2025	45.4806	13.2766	37.8846	0.1261	12.7878	0.4135	13.2013	3.4045	0.3931	3.7976	0.0000	12,768.9921	12,768.9921	0.6833	0.4622	12,923.7969
2026	3.0946	9.1019	27.9122	0.0954	10.4977	0.2911	10.7889	2.7914	0.2720	3.0634	0.0000	9,640.1619	9,640.1619	0.5593	0.3052	9,745.0868
2027	2.9796	8.9836	26.8651	0.0931	10.4977	0.2885	10.7862	2.7914	0.2696	3.0610	0.0000	9,408.9554	9,408.9554	0.5478	0.2953	9,510.6483
2028	39.3448	11.4037	33.5063	0.1111	12.5321	0.3965	12.9285	3.3309	0.3772	3.7081	0.0000	11,184.1002	11,184.1002	0.5940	0.3172	11,293.4739
Maximum	**45.4806**	**110.8320**	**98.3497**	**0.3030**	**22.6720**	**3.8941**	**26.5661**	**4.3614**	**3.5884**	**7.9498**	**0.0000**	**30,357.7699**	**30,357.7699**	**6.0171**	**0.9788**	**30,799.8641**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.2893	16.7329	77.6814	0.1941	5.7316	0.3249	6.0565	0.9222	0.3222	1.1370	0.0000	19,298.1933	19,298.1933	5.3669	0.6100	19,596.1826
2023	29.9877	21.8239	111.1129	0.3030	15.6517	0.4370	16.0886	3.4753	0.4303	3.9056	0.0000	30,357.7699	30,357.7699	6.0171	0.9788	30,799.8641
2024	7.2243	7.9279	43.4958	0.1300	10.0336	0.1667	10.2003	2.6908	0.1620	2.8527	0.0000	13,110.9979	13,110.9979	1.2998	0.4442	13,275.8515
2025	44.8612	7.1660	38.6057	0.1261	11.7954	0.1467	11.9422	3.1610	0.1415	3.3024	0.0000	12,768.9921	12,768.9921	0.6833	0.4622	12,923.7969
2026	2.7574	5.0248	28.5867	0.0954	9.6809	0.1195	9.8004	2.5909	0.1155	2.7064	0.0000	9,640.1619	9,640.1619	0.5593	0.3052	9,745.0868
2027	2.6424	4.9066	27.5396	0.0931	9.6809	0.1168	9.7978	2.5909	0.1130	2.7040	0.0000	9,408.9554	9,408.9554	0.5478	0.2953	9,510.6483
2028	38.7253	5.2932	34.2274	0.1111	11.5561	0.1297	11.6858	3.0914	0.1255	3.2169	0.0000	11,184.1002	11,184.1002	0.5940	0.3172	11,293.4739
Maximum	**44.8612**	**21.8239**	**111.1129**	**0.3030**	**15.6517**	**0.4370**	**16.0886**	**3.4753**	**0.4303**	**3.9056**	**0.0000**	**30,357.7699**	**30,357.7699**	**6.0171**	**0.9788**	**30,799.8641**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.65**	**75.81**	**-9.04**	**0.00**	**19.23**	**85.40**	**25.66**	**13.30**	**84.55**	**34.35**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	6/1/2022	9/30/2022	5	88	a
2	Asphalt Demolition	Demolition	7/1/2022	8/15/2022	5	32	c
3	Building Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	b
4	Asphalt Demolition Debris Haul	Demolition	8/8/2022	8/15/2022	5	6	d
5	Site Preparation	Site Preparation	10/1/2022	2/15/2023	5	98	e
6	Site Preparation Soil Haul 2022	Site Preparation	10/1/2022	12/31/2022	5	65	f
7	Site Preparation Soil Haul 2023	Site Preparation	1/1/2023	2/15/2023	5	33	g
8	Retail and Residential Building A Building Construction	Building Construction	2/1/2023	9/30/2025	5	695	h
9	Retail Architectural Coating	Architectural Coating	10/15/2023	12/23/2023	5	50	i
10	Finishing and Landscaping	Trenching	4/1/2024	4/30/2024	5	22	l
11	Paving	Paving	4/1/2024	4/7/2024	5	5	k
12	Residential Building A Architectural Coating	Architectural Coating	7/1/2025	9/30/2025	5	66	j
13	Residential Building B Building Construction	Building Construction	2/1/2026	3/31/2028	5	565	m
14	Residential Building B Architectural Coating	Architectural Coating	1/15/2028	3/31/2028	5	55	n

Acres of Grading (Site Preparation Phase): 980

Acres of Grading (Grading Phase): 0

Acres of Paving: 15.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 179,123; Non-Residential Outdoor: 59,708; Striped Parking Area: 43,219

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition	Crushing/Proc. Equipment	1	8.00	350	0.78
Building Demolition	Excavators	2	8.00	131	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demolition Debris Haul	Excavators	0	8.00	158	0.38
Building Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	0	8.00	158	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Excavators	1	8.00	101	0.38
Site Preparation	Graders	4	8.00	238	0.41
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Scrapers	8	8.00	365	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation Soil Haul 2022	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2022	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation Soil Haul 2023	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul 2023	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Retail and Residential Building A Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Retail and Residential Building A Building Construction	Cranes	1	8.00	300	0.29
Retail and Residential Building A Building Construction	Forklifts	0	8.00	89	0.20
Retail and Residential Building A Building Construction	Generator Sets	0	8.00	84	0.74
Retail and Residential Building A Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Retail and Residential Building A Building Construction	Welders	0	8.00	46	0.45
Retail Architectural Coating	Air Compressors	2	6.00	78	0.48
Residential Building A Architectural Coating	Air Compressors	2	6.00	78	0.48
Paving	Pavers	1	8.00	188	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	86	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Finishing and Landscaping	Graders	1	8.00	238	0.41
Residential Building B Building Construction	Concrete/Industrial Saws	1	8.00	23	0.73
Residential Building B Building Construction	Cranes	1	8.00	300	0.29
Residential Building B Building Construction	Forklifts	0	8.00	89	0.20
Residential Building B Building Construction	Generator Sets	0	8.00	84	0.74
Residential Building B Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Residential Building B Building Construction	Welders	0	8.00	46	0.45
Residential Building B Architectural Coating	Air Compressors	2	6.00	78	0.48

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Building Demolition	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demolition Debris Haul	0	0.00	0.00	160.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	0	0.00	0.00	163.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	14	35.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2022	0	0.00	0.00	3,178.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul 2023	0	0.00	0.00	1,613.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail and Residential Building A Building	3	910.00	91.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building A Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing and Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building B Building Construction	3	910.00	51.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Building B Architectural Coating	2	182.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Building 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					
Off-Road	1.7282	11.3102	12.7732	0.0358		0.4637	0.4637		0.4451	0.4451		3,866.6787	3,866.6787	0.4763		3,878.5869
Total	**1.7282**	**11.3102**	**12.7732**	**0.0358**		**0.4637**	**0.4637**		**0.4451**	**0.4451**		**3,866.6787**	**3,866.6787**	**0.4763**		**3,878.5869**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6800e-003	9.0400e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	0.0328	0.0222	0.3058	9.3000e-004	0.1118	6.0000e-004	0.1124	0.0296	5.5000e-004	0.0302		93.7501	93.7501	2.3700e-003	2.3600e-003	94.5111
Total	**0.0393**	**0.2087**	**0.3718**	**1.6900e-003**	**0.1374**	**2.3500e-003**	**0.1397**	**0.0370**	**2.2300e-003**	**0.0392**		**176.7192**	**176.7192**	**7.1100e-003**	**0.0143**	**181.1446**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4322	1.8730	19.4318	0.0358		0.0576	0.0576		0.0576	0.0576	0.0000	3,866.6787	3,866.6787	0.4763		3,878.5869
Total	**0.4322**	**1.8730**	**19.4318**	**0.0358**		**0.0576**	**0.0576**		**0.0576**	**0.0576**	**0.0000**	**3,866.6787**	**3,866.6787**	**0.4763**		**3,878.5869**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6800e-003	8.6300e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	0.0328	0.0222	0.3058	9.3000e-004	0.1030	6.0000e-004	0.1036	0.0275	5.5000e-004	0.0281		93.7501	93.7501	2.3700e-003	2.3600e-003	94.5111
Total	**0.0393**	**0.2087**	**0.3718**	**1.6900e-003**	**0.1270**	**2.3500e-003**	**0.1293**	**0.0345**	**2.2300e-003**	**0.0367**		**176.7192**	**176.7192**	**7.1100e-003**	**0.0143**	**181.1446**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Asphalt 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					
Off-Road	0.1647	1.6756	2.2379	3.1100e-003		0.0901	0.0901		0.0829	0.0829		301.2390	301.2390	0.0974		303.6746
Total	**0.1647**	**1.6756**	**2.2379**	**3.1100e-003**		**0.0901**	**0.0901**		**0.0829**	**0.0829**		**301.2390**	**301.2390**	**0.0974**		**303.6746**

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6800e-003	9.0400e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	9.8300e-003	6.6600e-003	0.0917	2.8000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.7000e-004	9.0600e-003		28.1250	28.1250	7.1000e-004	7.1000e-004	28.3533
Total	**0.0164**	**0.1932**	**0.1578**	**1.0400e-003**	**0.0591**	**1.9300e-003**	**0.0610**	**0.0163**	**1.8500e-003**	**0.0181**		**111.0941**	**111.0941**	**5.4500e-003**	**0.0126**	**114.9868**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0380	0.1646	2.3421	3.1100e-003		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	301.2390	301.2390	0.0974		303.6746
Total	**0.0380**	**0.1646**	**2.3421**	**3.1100e-003**		**5.0600e-003**	**5.0600e-003**		**5.0600e-003**	**5.0600e-003**	**0.0000**	**301.2390**	**301.2390**	**0.0974**		**303.6746**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6800e-003	8.6300e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	9.8300e-003	6.6600e-003	0.0917	2.8000e-004	0.0309	1.8000e-004	0.0311	8.2500e-003	1.7000e-004	8.4200e-003		28.1250	28.1250	7.1000e-004	7.1000e-004	28.3533
Total	**0.0164**	**0.1932**	**0.1578**	**1.0400e-003**	**0.0549**	**1.9300e-003**	**0.0568**	**0.0152**	**1.8500e-003**	**0.0171**		**111.0941**	**111.0941**	**5.4500e-003**	**0.0126**	**114.9868**

3.4 Building Demolition Debris Haul - 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					5.7064	0.0000	5.7064	0.8640	0.0000	0.8640			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.7064**	**0.0000**	**5.7064**	**0.8640**	**0.0000**	**0.8640**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1054	4.3149	1.1833	0.0159	0.4651	0.0315	0.4966	0.1274	0.0301	0.1575		1,803.3521	1,803.3521	0.1717	0.2888	1,893.7185
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	0.0000	0.0000	0.0000	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	**0.1054**	**4.3149**	**1.1833**	**0.0159**	**0.4651**	**0.0315**	**0.4966**	**0.1274**	**0.0301**	**0.1575**		**1,803.3521**	**1,803.3521**	**0.1717**	**0.2888**	**1,893.7185**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4395	0.0000	2.4395	0.3694	0.0000	0.3694			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.4395**	**0.0000**	**2.4395**	**0.3694**	**0.0000**	**0.3694**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1054	4.3149	1.1833	0.0159	0.4334	0.0315	0.4648	0.1196	0.0301	0.1497		1,803.3521	1,803.3521	0.1717	0.2888	1,893.7185
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	0.0000	0.0000	0.0000	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	**0.1054**	**4.3149**	**1.1833**	**0.0159**	**0.4334**	**0.0315**	**0.4648**	**0.1196**	**0.0301**	**0.1497**		**1,803.3521**	**1,803.3521**	**0.1717**	**0.2888**	**1,893.7185**

3.5 Asphalt Demolition Debris Haul - 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					4.0444	0.0000	4.0444	0.6124	0.0000	0.6124			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**4.0444**	**0.0000**	**4.0444**	**0.6124**	**0.0000**	**0.6124**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1074	4.3958	1.2055	0.0162	0.4738	0.0321	0.5059	0.1298	0.0307	0.1604		1,837.1650	1,837.1650	0.1749	0.2943	1,929.2257
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	0.0000	0.0000	0.0000	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	**0.1074**	**4.3958**	**1.2055**	**0.0162**	**0.4738**	**0.0321**	**0.5059**	**0.1298**	**0.0307**	**0.1604**		**1,837.1650**	**1,837.1650**	**0.1749**	**0.2943**	**1,929.2257**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7290	0.0000	1.7290	0.2618	0.0000	0.2618			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.7290**	**0.0000**	**1.7290**	**0.2618**	**0.0000**	**0.2618**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1074	4.3958	1.2055	0.0162	0.4415	0.0321	0.4736	0.1218	0.0307	0.1525		1,837.1650	1,837.1650	0.1749	0.2943	1,929.2257
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	0.0000	0.0000	0.0000	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	**0.1074**	**4.3958**	**1.2055**	**0.0162**	**0.4415**	**0.0321**	**0.4736**	**0.1218**	**0.0307**	**0.1525**		**1,837.1650**	**1,837.1650**	**0.1749**	**0.2943**	**1,929.2257**

3.6 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					10.6050	0.0000	10.6050	1.1451	0.0000	1.1451			0.0000			0.0000
Off-Road	8.9659	101.3640	64.0828	0.1609		3.8122	3.8122		3.5072	3.5072		15,580.7221	15,580.7221	5.0391		15,706.7002
Total	**8.9659**	**101.3640**	**64.0828**	**0.1609**	**10.6050**	**3.8122**	**14.4172**	**1.1451**	**3.5072**	**4.6523**		**15,580.7221**	**15,580.7221**	**5.0391**		**15,706.7002**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0256	1.7500e-003	0.0273	7.3600e-003	1.6800e-003	9.0400e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	0.1147	0.0777	1.0704	3.2500e-003	0.3912	2.1100e-003	0.3933	0.1038	1.9400e-003	0.1057		328.1253	328.1253	8.2900e-003	8.2400e-003	330.7889
Total	**0.1212**	**0.2642**	**1.1364**	**4.0100e-003**	**0.4168**	**3.8600e-003**	**0.4207**	**0.1111**	**3.6200e-003**	**0.1147**		**411.0944**	**411.0944**	**0.0130**	**0.0201**	**417.4223**

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					4.5336	0.0000	4.5336	0.4895	0.0000	0.4895			0.0000			0.0000
Off-Road	1.9748	8.5576	74.3756	0.1609		0.2633	0.2633		0.2633	0.2633	0.0000	15,580.7221	15,580.7221	5.0391		15,706.7002
Total	**1.9748**	**8.5576**	**74.3756**	**0.1609**	**4.5336**	**0.2633**	**4.7970**	**0.4895**	**0.2633**	**0.7528**	**0.0000**	**15,580.7221**	**15,580.7221**	**5.0391**		**15,706.7002**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	6.5600e-003	0.1865	0.0660	7.6000e-004	0.0239	1.7500e-003	0.0257	6.9600e-003	1.6800e-003	8.6300e-003		82.9691	82.9691	4.7400e-003	0.0119	86.6334
Worker	0.1147	0.0777	1.0704	3.2500e-003	0.3606	2.1100e-003	0.3627	0.0962	1.9400e-003	0.0982		328.1253	328.1253	8.2900e-003	8.2400e-003	330.7889
Total	**0.1212**	**0.2642**	**1.1364**	**4.0100e-003**	**0.3846**	**3.8600e-003**	**0.3884**	**0.1032**	**3.6200e-003**	**0.1068**		**411.0944**	**411.0944**	**0.0130**	**0.0201**	**417.4223**

3.6 Site Preparation - 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					
Fugitive Dust					10.6050	0.0000	10.6050	1.1451	0.0000	1.1451			0.0000			0.0000
Off-Road	8.5191	92.7414	62.0147	0.1609		3.5061	3.5061		3.2256	3.2256		15,577.2716	15,577.2716	5.0380		15,703.2217
Total	**8.5191**	**92.7414**	**62.0147**	**0.1609**	**10.6050**	**3.5061**	**14.1111**	**1.1451**	**3.2256**	**4.3707**		**15,577.2716**	**15,577.2716**	**5.0380**		**15,703.2217**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	3.9000e-003	0.1464	0.0600	7.2000e-004	0.0256	7.2000e-004	0.0263	7.3600e-003	6.9000e-004	8.0500e-003		79.0959	79.0959	4.6800e-003	0.0114	82.5978
Worker	0.1077	0.0692	0.9957	3.1400e-003	0.3912	1.9900e-003	0.3932	0.1038	1.8400e-003	0.1056		317.7237	317.7237	7.5100e-003	7.6700e-003	320.1969
Total	**0.1116**	**0.2157**	**1.0557**	**3.8600e-003**	**0.4168**	**2.7100e-003**	**0.4195**	**0.1111**	**2.5300e-003**	**0.1136**		**396.8196**	**396.8196**	**0.0122**	**0.0190**	**402.7947**

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					4.5336	0.0000	4.5336	0.4895	0.0000	0.4895			0.0000			0.0000
Off-Road	1.9748	8.5576	74.3756	0.1609		0.2633	0.2633		0.2633	0.2633	0.0000	15,577.2716	15,577.2716	5.0380		15,703.2217
Total	**1.9748**	**8.5576**	**74.3756**	**0.1609**	**4.5336**	**0.2633**	**4.7970**	**0.4895**	**0.2633**	**0.7528**	**0.0000**	**15,577.2716**	**15,577.2716**	**5.0380**		**15,703.2217**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	3.9000e-003	0.1464	0.0600	7.2000e-004	0.0239	7.2000e-004	0.0247	6.9600e-003	6.9000e-004	7.6500e-003		79.0959	79.0959	4.6800e-003	0.0114	82.5978
Worker	0.1077	0.0692	0.9957	3.1400e-003	0.3606	1.9900e-003	0.3626	0.0962	1.8400e-003	0.0981		317.7237	317.7237	7.5100e-003	7.6700e-003	320.1969
Total	**0.1116**	**0.2157**	**1.0557**	**3.8600e-003**	**0.3845**	**2.7100e-003**	**0.3873**	**0.1032**	**2.5300e-003**	**0.1057**		**396.8196**	**396.8196**	**0.0122**	**0.0190**	**402.7947**

3.7 Site Preparation Soil Haul 2022 - 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					0.0442	0.0000	0.0442	6.7000e-003	0.0000	6.7000e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0442**	**0.0000**	**0.0442**	**6.7000e-003**	**0.0000**	**6.7000e-003**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1932	7.9111	2.1695	0.0292	0.8527	0.0577	0.9104	0.2335	0.0552	0.2887		3,306.3768	3,306.3768	0.3148	0.5296	3,472.0601
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	0.0000	0.0000	0.0000	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	**0.1932**	**7.9111**	**2.1695**	**0.0292**	**0.8527**	**0.0577**	**0.9104**	**0.2335**	**0.0552**	**0.2887**		**3,306.3768**	**3,306.3768**	**0.3148**	**0.5296**	**3,472.0601**

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					0.0189	0.0000	0.0189	2.8600e-003	0.0000	2.8600e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0189**	**0.0000**	**0.0189**	**2.8600e-003**	**0.0000**	**2.8600e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1932	7.9111	2.1695	0.0292	0.7945	0.0577	0.8523	0.2192	0.0552	0.2745		3,306.3768	3,306.3768	0.3148	0.5296	3,472.0601
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	0.0000	0.0000	0.0000	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	**0.1932**	**7.9111**	**2.1695**	**0.0292**	**0.7945**	**0.0577**	**0.8523**	**0.2192**	**0.0552**	**0.2745**		**3,306.3768**	**3,306.3768**	**0.3148**	**0.5296**	**3,472.0601**

3.8 Site Preparation Soil Haul 2023 - 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					
Fugitive Dust					0.0442	0.0000	0.0442	6.7000e-003	0.0000	6.7000e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0442**	**0.0000**	**0.0442**	**6.7000e-003**	**0.0000**	**6.7000e-003**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0959	6.0728	2.0187	0.0275	0.8524	0.0376	0.8900	0.2334	0.0360	0.2694		3,128.8713	3,128.8713	0.3150	0.5019	3,286.3195
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	0.0000	0.0000	0.0000	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	**0.0959**	**6.0728**	**2.0187**	**0.0275**	**0.8524**	**0.0376**	**0.8900**	**0.2334**	**0.0360**	**0.2694**		**3,128.8713**	**3,128.8713**	**0.3150**	**0.5019**	**3,286.3195**

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					0.0189	0.0000	0.0189	2.8600e-003	0.0000	2.8600e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0189**	**0.0000**	**0.0189**	**2.8600e-003**	**0.0000**	**2.8600e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0959	6.0728	2.0187	0.0275	0.7943	0.0376	0.8319	0.2192	0.0360	0.2551		3,128.8713	3,128.8713	0.3150	0.5019	3,286.3195
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	0.0000	0.0000	0.0000	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	**0.0959**	**6.0728**	**2.0187**	**0.0275**	**0.7943**	**0.0376**	**0.8319**	**0.2192**	**0.0360**	**0.2551**		**3,128.8713**	**3,128.8713**	**0.3150**	**0.5019**	**3,286.3195**

3.9 Retail and Residential Building A 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	0.7168	6.6706	6.0084	0.0127		0.2793	0.2793		0.2608	0.2608		1,194.5600	1,194.5600	0.3500		1,203.3096
Total	**0.7168**	**6.6706**	**6.0084**	**0.0127**		**0.2793**	**0.2793**		**0.2608**	**0.2608**		**1,194.5600**	**1,194.5600**	**0.3500**		**1,203.3096**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0887	3.3314	1.3645	0.0164	0.5819	0.0165	0.5983	0.1675	0.0158	0.1832		1,799.4321	1,799.4321	0.1066	0.2584	1,879.0996
Worker	2.8005	1.8000	25.8877	0.0817	10.1717	0.0519	10.2235	2.6976	0.0477	2.7453		8,260.8153	8,260.8153	0.1953	0.1994	8,325.1191
Total	**2.8892**	**5.1314**	**27.2522**	**0.0981**	**10.7535**	**0.0683**	**10.8219**	**2.8650**	**0.0635**	**2.9285**		**10,060.2474**	**10,060.2474**	**0.3018**	**0.4578**	**10,204.2187**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4107	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.5600	1,194.5600	0.3500		1,203.3096
Total	**0.3329**	**1.8463**	**6.4107**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.5600**	**1,194.5600**	**0.3500**		**1,203.3096**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0887	3.3314	1.3645	0.0164	0.5445	0.0165	0.5610	0.1583	0.0158	0.1741		1,799.4321	1,799.4321	0.1066	0.2584	1,879.0996
Worker	2.8005	1.8000	25.8877	0.0817	9.3758	0.0519	9.4276	2.5022	0.0477	2.5500		8,260.8153	8,260.8153	0.1953	0.1994	8,325.1191
Total	**2.8892**	**5.1314**	**27.2522**	**0.0981**	**9.9203**	**0.0683**	**9.9886**	**2.6605**	**0.0635**	**2.7240**		**10,060.2474**	**10,060.2474**	**0.3018**	**0.4578**	**10,204.2187**

3.9 Retail and Residential Building A Building Construction - 2024

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	0.7005	6.3874	5.8937	0.0127		0.2619	0.2619		0.2448	0.2448		1,194.4011	1,194.4011	0.3499		1,203.1493
Total	**0.7005**	**6.3874**	**5.8937**	**0.0127**		**0.2619**	**0.2619**		**0.2448**	**0.2448**		**1,194.4011**	**1,194.4011**	**0.3499**		**1,203.1493**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0873	3.3219	1.3538	0.0161	0.5819	0.0172	0.5991	0.1675	0.0165	0.1839		1,771.5818	1,771.5818	0.1077	0.2555	1,850.4027
Worker	2.6405	1.6161	24.1155	0.0791	10.1717	0.0493	10.2209	2.6976	0.0453	2.7429		7,999.1213	7,999.1213	0.1773	0.1864	8,059.1118
Total	**2.7278**	**4.9380**	**25.4692**	**0.0952**	**10.7535**	**0.0665**	**10.8200**	**2.8650**	**0.0618**	**2.9268**		**9,770.7032**	**9,770.7032**	**0.2850**	**0.4419**	**9,909.5145**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4104	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.4011	1,194.4011	0.3499		1,203.1493
Total	**0.3329**	**1.8463**	**6.4104**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.4011**	**1,194.4011**	**0.3499**		**1,203.1493**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0873	3.3219	1.3538	0.0161	0.5445	0.0172	0.5617	0.1583	0.0165	0.1748		1,771.5818	1,771.5818	0.1077	0.2555	1,850.4027
Worker	2.6405	1.6161	24.1155	0.0791	9.3758	0.0493	9.4250	2.5022	0.0453	2.5476		7,999.1213	7,999.1213	0.1773	0.1864	8,059.1118
Total	**2.7278**	**4.9380**	**25.4692**	**0.0952**	**9.9203**	**0.0665**	**9.9868**	**2.6605**	**0.0618**	**2.7223**		**9,770.7032**	**9,770.7032**	**0.2850**	**0.4419**	**9,909.5145**

3.9 Retail and Residential Building A Building Construction - 2025

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0860	3.3059	1.3476	0.0158	0.5819	0.0173	0.5992	0.1675	0.0166	0.1840		1,738.4725	1,738.4725	0.1090	0.2517	1,816.2176
Worker	2.4997	1.4636	22.6524	0.0765	10.1717	0.0471	10.2187	2.6976	0.0433	2.7409		7,727.5715	7,727.5715	0.1613	0.1754	7,783.8570
Total	**2.5857**	**4.7694**	**24.0000**	**0.0922**	**10.7535**	**0.0644**	**10.8179**	**2.8650**	**0.0599**	**2.9249**		**9,466.0440**	**9,466.0440**	**0.2703**	**0.4271**	**9,600.0747**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4104	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.3329**	**1.8463**	**6.4104**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0860	3.3059	1.3476	0.0158	0.5445	0.0173	0.5618	0.1583	0.0166	0.1749		1,738.4725	1,738.4725	0.1090	0.2517	1,816.2176
Worker	2.4997	1.4636	22.6524	0.0765	9.3758	0.0471	9.4229	2.5022	0.0433	2.5455		7,727.5715	7,727.5715	0.1613	0.1754	7,783.8570
Total	**2.5857**	**4.7694**	**24.0000**	**0.0922**	**9.9203**	**0.0644**	**9.9847**	**2.6605**	**0.0599**	**2.7204**		**9,466.0440**	**9,466.0440**	**0.2703**	**0.4271**	**9,600.0747**

3.10 Retail 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	26.1460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3833	2.6060	3.6222	5.9400e-003		0.1416	0.1416		0.1416	0.1416		562.8961	562.8961	0.0337		563.7380
Total	**26.5294**	**2.6060**	**3.6222**	**5.9400e-003**		**0.1416**	**0.1416**		**0.1416**	**0.1416**		**562.8961**	**562.8961**	**0.0337**		**563.7380**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.5601	0.3600	5.1776	0.0164	2.0343	0.0104	2.0447	0.5395	9.5500e-003	0.5491		1,652.1631	1,652.1631	0.0391	0.0399	1,665.0238
Total	**0.5601**	**0.3600**	**5.1776**	**0.0164**	**2.0343**	**0.0104**	**2.0447**	**0.5395**	**9.5500e-003**	**0.5491**		**1,652.1631**	**1,652.1631**	**0.0391**	**0.0399**	**1,665.0238**

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	26.1460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0337		563.7380
Total	**26.2055**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0337**		**563.7380**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.5601	0.3600	5.1776	0.0164	1.8752	0.0104	1.8855	0.5004	9.5500e-003	0.5100		1,652.1631	1,652.1631	0.0391	0.0399	1,665.0238
Total	**0.5601**	**0.3600**	**5.1776**	**0.0164**	**1.8752**	**0.0104**	**1.8855**	**0.5004**	**9.5500e-003**	**0.5100**		**1,652.1631**	**1,652.1631**	**0.0391**	**0.0399**	**1,665.0238**

3.11 Finishing and Landscaping - 2024

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	0.4513	5.2891	2.1082	8.4200e-003		0.1715	0.1715		0.1578	0.1578		815.1913	815.1913	0.2637		821.7826
Total	**0.4513**	**5.2891**	**2.1082**	**8.4200e-003**		**0.1715**	**0.1715**		**0.1578**	**0.1578**		**815.1913**	**815.1913**	**0.2637**		**821.7826**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	8.7000e-003	5.3300e-003	0.0795	2.6000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		26.3707	26.3707	5.8000e-004	6.1000e-004	26.5685
Total	**8.7000e-003**	**5.3300e-003**	**0.0795**	**2.6000e-004**	**0.0335**	**1.6000e-004**	**0.0337**	**8.8900e-003**	**1.5000e-004**	**9.0400e-003**		**26.3707**	**26.3707**	**5.8000e-004**	**6.1000e-004**	**26.5685**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1033	0.4475	3.7862	8.4200e-003		0.0138	0.0138		0.0138	0.0138	0.0000	815.1913	815.1913	0.2637		821.7826
Total	**0.1033**	**0.4475**	**3.7862**	**8.4200e-003**		**0.0138**	**0.0138**		**0.0138**	**0.0138**	**0.0000**	**815.1913**	**815.1913**	**0.2637**		**821.7826**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	8.7000e-003	5.3300e-003	0.0795	2.6000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		26.3707	26.3707	5.8000e-004	6.1000e-004	26.5685
Total	**8.7000e-003**	**5.3300e-003**	**0.0795**	**2.6000e-004**	**0.0309**	**1.6000e-004**	**0.0311**	**8.2500e-003**	**1.5000e-004**	**8.4000e-003**		**26.3707**	**26.3707**	**5.8000e-004**	**6.1000e-004**	**26.5685**

3.12 Paving - 2024

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	0.4666	4.9575	5.6292	0.0128		0.2106	0.2106		0.1938	0.1938		1,234.0097	1,234.0097	0.3991		1,243.9873
Paving	3.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3390**	**4.9575**	**5.6292**	**0.0128**		**0.2106**	**0.2106**		**0.1938**	**0.1938**		**1,234.0097**	**1,234.0097**	**0.3991**		**1,243.9873**

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

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0232	0.0142	0.2120	7.0000e-004	0.0894	4.3000e-004	0.0899	0.0237	4.0000e-004	0.0241		70.3220	70.3220	1.5600e-003	1.6400e-003	70.8493
Total	**0.0232**	**0.0142**	**0.2120**	**7.0000e-004**	**0.0894**	**4.3000e-004**	**0.0899**	**0.0237**	**4.0000e-004**	**0.0241**		**70.3220**	**70.3220**	**1.5600e-003**	**1.6400e-003**	**70.8493**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1561	0.6765	7.5384	0.0128		0.0208	0.0208		0.0208	0.0208	0.0000	1,234.0097	1,234.0097	0.3991		1,243.9873
Paving	3.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.0285**	**0.6765**	**7.5384**	**0.0128**		**0.0208**	**0.0208**		**0.0208**	**0.0208**	**0.0000**	**1,234.0097**	**1,234.0097**	**0.3991**		**1,243.9873**

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	0.0232	0.0142	0.2120	7.0000e-004	0.0824	4.3000e-004	0.0829	0.0220	4.0000e-004	0.0224		70.3220	70.3220	1.5600e-003	1.6400e-003	70.8493
Total	**0.0232**	**0.0142**	**0.2120**	**7.0000e-004**	**0.0824**	**4.3000e-004**	**0.0829**	**0.0220**	**4.0000e-004**	**0.0224**		**70.3220**	**70.3220**	**1.5600e-003**	**1.6400e-003**	**70.8493**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Residential Building A Architectural Coating - 2025

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	41.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**41.7249**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.4999	0.2927	4.5305	0.0153	2.0343	9.4100e-003	2.0437	0.5395	8.6600e-003	0.5482		1,545.5143	1,545.5143	0.0323	0.0351	1,556.7714
Total	**0.4999**	**0.2927**	**4.5305**	**0.0153**	**2.0343**	**9.4100e-003**	**2.0437**	**0.5395**	**8.6600e-003**	**0.5482**		**1,545.5143**	**1,545.5143**	**0.0323**	**0.0351**	**1,556.7714**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	41.3832					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**41.4426**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

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	0.4999	0.2927	4.5305	0.0153	1.8752	9.4100e-003	1.8846	0.5004	8.6600e-003	0.5091		1,545.5143	1,545.5143	0.0323	0.0351	1,556.7714
Total	**0.4999**	**0.2927**	**4.5305**	**0.0153**	**1.8752**	**9.4100e-003**	**1.8846**	**0.5004**	**8.6600e-003**	**0.5091**		**1,545.5143**	**1,545.5143**	**0.0323**	**0.0351**	**1,556.7714**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.14 Residential Building B Building Construction - 2026

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0475	1.8397	0.7524	8.6600e-003	0.3261	9.7000e-003	0.3358	0.0939	9.2700e-003	0.1031		955.6665	955.6665	0.0618	0.1389	998.6110
Worker	2.3771	1.3388	21.4239	0.0741	10.1717	0.0448	10.2164	2.6976	0.0412	2.7388		7,489.9575	7,489.9575	0.1475	0.1663	7,543.1888
Total	**2.4245**	**3.1785**	**22.1763**	**0.0828**	**10.4977**	**0.0545**	**10.5522**	**2.7914**	**0.0505**	**2.8419**		**8,445.6241**	**8,445.6241**	**0.2093**	**0.3052**	**8,541.7997**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4104	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.3329**	**1.8463**	**6.4104**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0475	1.8397	0.7524	8.6600e-003	0.3052	9.7000e-003	0.3148	0.0887	9.2700e-003	0.0980		955.6665	955.6665	0.0618	0.1389	998.6110
Worker	2.3771	1.3388	21.4239	0.0741	9.3758	0.0448	9.4206	2.5022	0.0412	2.5434		7,489.9575	7,489.9575	0.1475	0.1663	7,543.1888
Total	**2.4245**	**3.1785**	**22.1763**	**0.0828**	**9.6809**	**0.0545**	**9.7354**	**2.5909**	**0.0505**	**2.6414**		**8,445.6241**	**8,445.6241**	**0.2093**	**0.3052**	**8,541.7997**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.14 Residential Building B Building Construction - 2027

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0468	1.8261	0.7498	8.4700e-003	0.3261	9.6700e-003	0.3358	0.0939	9.2500e-003	0.1031		936.1368	936.1368	0.0622	0.1366	978.4023
Worker	2.2628	1.2341	20.3794	0.0720	10.1717	0.0421	10.2138	2.6976	0.0388	2.7363		7,278.2809	7,278.2809	0.1357	0.1587	7,328.9588
Total	**2.3095**	**3.0602**	**21.1292**	**0.0805**	**10.4977**	**0.0518**	**10.5495**	**2.7914**	**0.0480**	**2.8394**		**8,214.4177**	**8,214.4177**	**0.1979**	**0.2953**	**8,307.3611**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4104	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.3329**	**1.8463**	**6.4104**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0468	1.8261	0.7498	8.4700e-003	0.3051	9.6700e-003	0.3148	0.0887	9.2500e-003	0.0980		936.1368	936.1368	0.0622	0.1366	978.4023
Worker	2.2628	1.2341	20.3794	0.0720	9.3758	0.0421	9.4179	2.5022	0.0388	2.5410		7,278.2809	7,278.2809	0.1357	0.1587	7,328.9588
Total	**2.3095**	**3.0602**	**21.1292**	**0.0805**	**9.6809**	**0.0518**	**9.7327**	**2.5909**	**0.0480**	**2.6390**		**8,214.4177**	**8,214.4177**	**0.1979**	**0.2953**	**8,307.3611**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.14 Residential Building B Building Construction - 2028

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	0.6701	5.9234	5.7359	0.0127		0.2367	0.2367		0.2215	0.2215		1,194.5378	1,194.5378	0.3500		1,203.2871
Total	**0.6701**	**5.9234**	**5.7359**	**0.0127**		**0.2367**	**0.2367**		**0.2215**	**0.2215**		**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0462	1.8140	0.7489	8.2800e-003	0.3261	9.6300e-003	0.3357	0.0938	9.2100e-003	0.1031		917.4859	917.4859	0.0628	0.1344	959.0942
Worker	2.1553	1.1461	19.5027	0.0702	10.1717	0.0393	10.2110	2.6976	0.0362	2.7337		7,090.9837	7,090.9837	0.1254	0.1524	7,139.5241
Total	**2.2015**	**2.9601**	**20.2516**	**0.0784**	**10.4977**	**0.0489**	**10.5467**	**2.7914**	**0.0454**	**2.8368**		**8,008.4696**	**8,008.4696**	**0.1883**	**0.2867**	**8,098.6182**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3329	1.8463	6.4104	0.0127		0.0650	0.0650		0.0650	0.0650	0.0000	1,194.5378	1,194.5378	0.3500		1,203.2871

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**0.3329**	**1.8463**	**6.4104**	**0.0127**		**0.0650**	**0.0650**		**0.0650**	**0.0650**	**0.0000**	**1,194.5378**	**1,194.5378**	**0.3500**		**1,203.2871**

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	0.0462	1.8140	0.7489	8.2800e-003	0.3051	9.6300e-003	0.3148	0.0887	9.2100e-003	0.0979		917.4859	917.4859	0.0628	0.1344	959.0942
Worker	2.1553	1.1461	19.5027	0.0702	9.3758	0.0393	9.4151	2.5022	0.0362	2.5384		7,090.9837	7,090.9837	0.1254	0.1524	7,139.5241
Total	**2.2015**	**2.9601**	**20.2516**	**0.0784**	**9.6809**	**0.0489**	**9.7299**	**2.5909**	**0.0454**	**2.6363**		**8,008.4696**	**8,008.4696**	**0.1883**	**0.2867**	**8,098.6182**

3.15 Residential Building B Architectural Coating - 2028

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	35.7005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	**36.0422**	**2.2910**	**3.6183**	**5.9400e-003**		**0.1030**	**0.1030**		**0.1030**	**0.1030**		**562.8961**	**562.8961**	**0.0307**		**563.6637**

Unmitigated Construction Off-Site

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.4311	0.2292	3.9006	0.0140	2.0343	7.8600e-003	2.0422	0.5395	7.2300e-003	0.5468		1,418.1967	1,418.1967	0.0251	0.0305	1,427.9048
Total	**0.4311**	**0.2292**	**3.9006**	**0.0140**	**2.0343**	**7.8600e-003**	**2.0422**	**0.5395**	**7.2300e-003**	**0.5468**		**1,418.1967**	**1,418.1967**	**0.0251**	**0.0305**	**1,427.9048**

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	35.7005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	**35.7599**	**0.2575**	**3.6648**	**5.9400e-003**		**7.9200e-003**	**7.9200e-003**		**7.9200e-003**	**7.9200e-003**	**0.0000**	**562.8961**	**562.8961**	**0.0307**		**563.6637**

Brea Mall Mixed-Use Project (Option 2) Mitigated Construction Run - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.4311	0.2292	3.9006	0.0140	1.8752	7.8600e-003	1.8830	0.5004	7.2300e-003	0.5077		1,418.1967	1,418.1967	0.0251	0.0305	1,427.9048
Total	**0.4311**	**0.2292**	**3.9006**	**0.0140**	**1.8752**	**7.8600e-003**	**1.8830**	**0.5004**	**7.2300e-003**	**0.5077**		**1,418.1967**	**1,418.1967**	**0.0251**	**0.0305**	**1,427.9048**

CalEEMod Existing Conditions Model

Brea Mall Existing Conditions 2021 Run - Orange County, Annual

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

Brea Mall Existing Conditions 2021 Run

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	760.83	1000sqft	0.00	760,830.00	0
Other Asphalt Surfaces	1,274.57	1000sqft	29.26	1,274,566.00	0
Parking Lot	1,160.44	1000sqft	26.64	1,160,438.00	0
Regional Shopping Center	1,291.43	1000sqft	18.10	1,291,430.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.43634	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.00617

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2020 SCE Sustainability Report

Land Use - mall has multiple stories

Construction Phase -

Vehicle Trips - based on info provided by LLG see assumptions file for calculations

Area Coating - accounts only for parking area, see assumptions file for calculations

Energy Use -

Water And Wastewater - Based on the California Department of Water Resource Water Budget Workbook for New and Rehabilitated Non-Residential Landscapes. Assumes 174,265 sqft of landscaping

Brea Mall Existing Conditions 2021 Run - Orange County, Annual

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

Water Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	645715	645717
tblAreaCoating	Area_Nonresidential_Interior	1937145	1937150
tblAreaCoating	Area_Parking	191750	115276
tblLandUse	LandUseSquareFeet	1,274,570.00	1,274,566.00
tblLandUse	LandUseSquareFeet	1,160,440.00	1,160,438.00
tblLandUse	LotAcreage	17.47	0.00
tblLandUse	LotAcreage	29.65	18.10
tblProjectCharacteristics	CO2IntensityFactor	390.98	531.43634
tblProjectCharacteristics	N2OIntensityFactor	0.004	0.00617
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	46.12	30.34
tblVehicleTrips	SU_TR	21.10	18.99
tblVehicleTrips	WD_TR	37.75	23.86
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	OutdoorWaterUseRate	58,630,001.68	2,013,606.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

Brea Mall Existing Conditions 2021 Run - Orange 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	5.5039	5.4000e-004	0.0578	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.1114	0.1114	3.0000e-004	0.0000	0.1189
Energy	0.0147	0.1336	0.1122	8.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	5,811.6615	5,811.6615	0.3546	0.0685	5,840.9260
Mobile	18.7297	28.5618	201.8616	0.4249	40.3331	0.4635	40.7966	10.7682	0.4352	11.2034	0.0000	39,216.3512	39,216.3512	2.5930	1.7611	39,805.9810
Waste						0.0000	0.0000		0.0000	0.0000	275.2558	0.0000	275.2558	16.2672	0.0000	681.9345
Water						0.0000	0.0000		0.0000	0.0000	33.8445	305.6471	339.4915	0.1355	0.0772	365.8687
Total	**24.2484**	**28.6959**	**202.0317**	**0.4257**	**40.3331**	**0.4739**	**40.8069**	**10.7682**	**0.4455**	**11.2137**	**309.1002**	**45,333.7711**	**45,642.8714**	**19.3506**	**1.9067**	**46,694.8290**

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	5.5039	5.4000e-004	0.0578	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.1114	0.1114	3.0000e-004	0.0000	0.1189

Brea Mall Existing Conditions 2021 Run - Orange County, Annual

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

Energy	0.0147	0.1336	0.1122	8.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	5,811.6615	5,811.6615	0.3546	0.0685	5,840.9260
Mobile	18.7297	28.5618	201.8616	0.4249	40.3331	0.4635	40.7966	10.7682	0.4352	11.2034	0.0000	39,216.3512	39,216.3512	2.5930	1.7611	39,805.9810
Waste						0.0000	0.0000		0.0000	0.0000	275.2558	0.0000	275.2558	16.2672	0.0000	681.9345
Water						0.0000	0.0000		0.0000	0.0000	27.0756	245.5962	272.6718	0.1084	0.0617	293.7789
Total	**24.2484**	**28.6959**	**202.0317**	**0.4257**	**40.3331**	**0.4739**	**40.8069**	**10.7682**	**0.4455**	**11.2137**	**302.3313**	**45,273.7203**	**45,576.0516**	**19.3236**	**1.8913**	**46,622.7392**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.19**	**0.13**	**0.15**	**0.14**	**0.81**	**0.15**

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	18.7297	28.5618	201.8616	0.4249	40.3331	0.4635	40.7966	10.7682	0.4352	11.2034	0.0000	39,216.3512	39,216.3512	2.5930	1.7611	39,805.9810
Unmitigated	18.7297	28.5618	201.8616	0.4249	40.3331	0.4635	40.7966	10.7682	0.4352	11.2034	0.0000	39,216.3512	39,216.3512	2.5930	1.7611	39,805.9810

Brea Mall Existing Conditions 2021 Run - Orange County, Annual

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	30,813.52	39,181.99	24524.26	107,032,184	107,032,184
Total	30,813.52	39,181.99	24,524.26	107,032,184	107,032,184

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.536609	0.055845	0.191814	0.136180	0.024708	0.006101	0.014702	0.004707	0.000686	0.000404	0.023194	0.000773	0.004277
Other Asphalt Surfaces	0.536609	0.055845	0.191814	0.136180	0.024708	0.006101	0.014702	0.004707	0.000686	0.000404	0.023194	0.000773	0.004277
Parking Lot	0.536609	0.055845	0.191814	0.136180	0.024708	0.006101	0.014702	0.004707	0.000686	0.000404	0.023194	0.000773	0.004277
Regional Shopping Center	0.536609	0.055845	0.191814	0.136180	0.024708	0.006101	0.014702	0.004707	0.000686	0.000404	0.023194	0.000773	0.004277

5.0 Energy Detail

Historical Energy Use: Y

Brea Mall Existing Conditions 2021 Run - Orange County, Annual

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

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,666.2496	5,666.2496	0.3519	0.0658	5,694.6499
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,666.2496	5,666.2496	0.3519	0.0658	5,694.6499
NaturalGas Mitigated	0.0147	0.1336	0.1122	8.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	145.4120	145.4120	2.7900e-003	2.6700e-003	146.2761
NaturalGas Unmitigated	0.0147	0.1336	0.1122	8.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	145.4120	145.4120	2.7900e-003	2.6700e-003	146.2761

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.72492e+006	0.0147	0.1336	0.1122	8.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	145.4120	145.4120	2.7900e-003	2.6700e-003	146.2761
Total		**0.0147**	**0.1336**	**0.1122**	**8.0000e-004**		**0.0102**	**0.0102**		**0.0102**	**0.0102**	**0.0000**	**145.4120**	**145.4120**	**2.7900e-003**	**2.6700e-003**	**146.2761**

Brea Mall Existing Conditions 2021 Run - Orange County, Annual

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.72492e+006	0.0147	0.1336	0.1122	8.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	145.4120	145.4120	2.7900e-003	2.6700e-003	146.2761
Total		**0.0147**	**0.1336**	**0.1122**	**8.0000e-004**		**0.0102**	**0.0102**		**0.0102**	**0.0102**	**0.0000**	**145.4120**	**145.4120**	**2.7900e-003**	**2.6700e-003**	**146.2761**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	5.12799e+006	1,236.1311	0.0768	0.0144	1,242.3268
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1.02119e+006	246.1623	0.0153	2.8600e-003	247.3962
Regional Shopping Center	1.73568e+007	4,183.9562	0.2598	0.0486	4,204.9270
Total		**5,666.2496**	**0.3519**	**0.0658**	**5,694.6499**

Brea Mall Existing Conditions 2021 Run - Orange County, Annual

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

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	5.12799e+006	1,236.1311	0.0768	0.0144	1,242.3268
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1.02119e+006	246.1623	0.0153	2.8600e-003	247.3962
Regional Shopping Center	1.73568e+007	4,183.9562	0.2598	0.0486	4,204.9270
Total		**5,666.2496**	**0.3519**	**0.0658**	**5,694.6499**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive 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	5.5039	5.4000e-004	0.0578	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.1114	0.1114	3.0000e-004	0.0000	0.1189
Unmitigated	5.5039	5.4000e-004	0.0578	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.1114	0.1114	3.0000e-004	0.0000	0.1189

Brea Mall Existing Conditions 2021 Run - Orange 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

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	0.6253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.8732					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.4800e-003	5.4000e-004	0.0578	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.1114	0.1114	3.0000e-004	0.0000	0.1189
Total	**5.5039**	**5.4000e-004**	**0.0578**	**0.0000**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**	**0.0000**	**0.1114**	**0.1114**	**3.0000e-004**	**0.0000**	**0.1189**

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	0.6253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.8732					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.4800e-003	5.4000e-004	0.0578	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.1114	0.1114	3.0000e-004	0.0000	0.1189
Total	**5.5039**	**5.4000e-004**	**0.0578**	**0.0000**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**	**0.0000**	**0.1114**	**0.1114**	**3.0000e-004**	**0.0000**	**0.1189**

Brea Mall Existing Conditions 2021 Run - Orange County, Annual

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

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	272.6718	0.1084	0.0617	293.7789
Unmitigated	339.4915	0.1355	0.0772	365.8687

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	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
Regional Shopping Center	95.6595 / 2.01361	339.4915	0.1355	0.0772	365.8687
Total		**339.4915**	**0.1355**	**0.0772**	**365.8687**

Brea Mall Existing Conditions 2021 Run - Orange County, Annual

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

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	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
Regional Shopping Center	76.5276 / 2.01361	272.6718	0.1084	0.0617	293.7789
Total		**272.6718**	**0.1084**	**0.0617**	**293.7789**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	275.2558	16.2672	0.0000	681.9345
Unmitigated	275.2558	16.2672	0.0000	681.9345

Brea Mall Existing Conditions 2021 Run - Orange 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

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	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
Regional Shopping Center	1356	275.2558	16.2672	0.0000	681.9345
Total		**275.2558**	**16.2672**	**0.0000**	**681.9345**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	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
Regional Shopping Center	1356	275.2558	16.2672	0.0000	681.9345
Total		**275.2558**	**16.2672**	**0.0000**	**681.9345**

Brea Mall Existing Conditions 2021 Run - Orange County, Summer

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

Brea Mall Existing Conditions 2021 Run

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	760.83	1000sqft	0.00	760,830.00	0
Other Asphalt Surfaces	1,274.57	1000sqft	29.26	1,274,566.00	0
Parking Lot	1,160.44	1000sqft	26.64	1,160,438.00	0
Regional Shopping Center	1,291.43	1000sqft	18.10	1,291,430.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.43634	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.00617

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2020 SCE Sustainability Report

Land Use - mall has multiple stories

Construction Phase -

Vehicle Trips - based on info provided by LLG see assumptions file for calculations

Area Coating - accounts only for parking area, see assumptions file for calculations

Energy Use -

Water And Wastewater - Based on the California Department of Water Resource Water Budget Workbook for New and Rehabilitated Non-Residential Landscapes. Assumes 174,265 sqft of landscaping

Brea Mall Existing Conditions 2021 Run - Orange County, Summer

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

Water Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	645715	645717
tblAreaCoating	Area_Nonresidential_Interior	1937145	1937150
tblAreaCoating	Area_Parking	191750	115276
tblLandUse	LandUseSquareFeet	1,274,570.00	1,274,566.00
tblLandUse	LandUseSquareFeet	1,160,440.00	1,160,438.00
tblLandUse	LotAcreage	17.47	0.00
tblLandUse	LotAcreage	29.65	18.10
tblProjectCharacteristics	CO2IntensityFactor	390.98	531.43634
tblProjectCharacteristics	N2OIntensityFactor	0.004	0.00617
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	46.12	30.34
tblVehicleTrips	SU_TR	21.10	18.99
tblVehicleTrips	WD_TR	37.75	23.86
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	OutdoorWaterUseRate	58,630,001.68	2,013,606.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

Brea Mall Existing Conditions 2021 Run - Orange 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	30.1724	4.3000e-003	0.4626	3.0000e-005		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003		0.9821	0.9821	2.6600e-003		1.0486
Energy	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
Mobile	132.8810	181.8035	1,416.8424	3.0306	284.1359	3.2101	287.3460	75.7509	3.0140	78.7649		308,281.3184	308,281.3184	19.2828	12.7562	312,564.7274
Total	**163.1339**	**182.5397**	**1,417.9199**	**3.0350**	**284.1359**	**3.2674**	**287.4033**	**75.7509**	**3.0713**	**78.8221**		**309,160.5978**	**309,160.5978**	**19.3023**	**12.7723**	**313,449.2926**

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	30.1724	4.3000e-003	0.4626	3.0000e-005		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003		0.9821	0.9821	2.6600e-003		1.0486
Energy	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
Mobile	132.8810	181.8035	1,416.8424	3.0306	284.1359	3.2101	287.3460	75.7509	3.0140	78.7649		308,281.3184	308,281.3184	19.2828	12.7562	312,564.7274
Total	**163.1339**	**182.5397**	**1,417.9199**	**3.0350**	**284.1359**	**3.2674**	**287.4033**	**75.7509**	**3.0713**	**78.8221**		**309,160.5978**	**309,160.5978**	**19.3023**	**12.7723**	**313,449.2926**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

4.0 Operational Detail - Mobile

Brea Mall Existing Conditions 2021 Run - Orange County, Summer

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

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	132.8810	181.8035	1,416.8424	3.0306	284.1359	3.2101	287.3460	75.7509	3.0140	78.7649		308,281.3184	308,281.3184	19.2828	12.7562	312,564.7274
Unmitigated	132.8810	181.8035	1,416.8424	3.0306	284.1359	3.2101	287.3460	75.7509	3.0140	78.7649		308,281.3184	308,281.3184	19.2828	12.7562	312,564.7274

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	30,813.52	39,181.99	24524.26	107,032,184	107,032,184
Total	30,813.52	39,181.99	24,524.26	107,032,184	107,032,184

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.536609	0.055845	0.191814	0.136180	0.024708	0.006101	0.014702	0.004707	0.000686	0.000404	0.023194	0.000773	0.004277
Other Asphalt Surfaces	0.536609	0.055845	0.191814	0.136180	0.024708	0.006101	0.014702	0.004707	0.000686	0.000404	0.023194	0.000773	0.004277
Parking Lot	0.536609	0.055845	0.191814	0.136180	0.024708	0.006101	0.014702	0.004707	0.000686	0.000404	0.023194	0.000773	0.004277
Regional Shopping Center	0.536609	0.055845	0.191814	0.136180	0.024708	0.006101	0.014702	0.004707	0.000686	0.000404	0.023194	0.000773	0.004277

Brea Mall Existing Conditions 2021 Run - Orange County, Summer

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

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
NaturalGas Unmitigated	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Regional Shopping Center	7465.53	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
Total		**0.0805**	**0.7319**	**0.6148**	**4.3900e-003**		**0.0556**	**0.0556**		**0.0556**	**0.0556**		**878.2973**	**878.2973**	**0.0168**	**0.0161**	**883.5166**

Brea Mall Existing Conditions 2021 Run - Orange County, Summer

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

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Regional Shopping Center	7.46553	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
Total		**0.0805**	**0.7319**	**0.6148**	**4.3900e-003**		**0.0556**	**0.0556**		**0.0556**	**0.0556**		**878.2973**	**878.2973**	**0.0168**	**0.0161**	**883.5166**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	30.1724	4.3000e-003	0.4626	3.0000e-005		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003		0.9821	0.9821	2.6600e-003		1.0486
Unmitigated	30.1724	4.3000e-003	0.4626	3.0000e-005		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003		0.9821	0.9821	2.6600e-003		1.0486

Brea Mall Existing Conditions 2021 Run - Orange 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

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	3.4263					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.7023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0438	4.3000e-003	0.4626	3.0000e-005		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003		0.9821	0.9821	2.6600e-003		1.0486
Total	**30.1724**	**4.3000e-003**	**0.4626**	**3.0000e-005**		**1.6600e-003**	**1.6600e-003**		**1.6600e-003**	**1.6600e-003**		**0.9821**	**0.9821**	**2.6600e-003**		**1.0486**

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	3.4263					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.7023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0438	4.3000e-003	0.4626	3.0000e-005		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003		0.9821	0.9821	2.6600e-003		1.0486
Total	**30.1724**	**4.3000e-003**	**0.4626**	**3.0000e-005**		**1.6600e-003**	**1.6600e-003**		**1.6600e-003**	**1.6600e-003**		**0.9821**	**0.9821**	**2.6600e-003**		**1.0486**

Brea Mall Existing Conditions 2021 Run - Orange County, Summer

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

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Brea Mall Existing Conditions 2021 Run - Orange County, Winter

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

Brea Mall Existing Conditions 2021 Run

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	760.83	1000sqft	0.00	760,830.00	0
Other Asphalt Surfaces	1,274.57	1000sqft	29.26	1,274,566.00	0
Parking Lot	1,160.44	1000sqft	26.64	1,160,438.00	0
Regional Shopping Center	1,291.43	1000sqft	18.10	1,291,430.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.43634	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.00617

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2020 SCE Sustainability Report

Land Use - mall has multiple stories

Construction Phase -

Vehicle Trips - based on info provided by LLG see assumptions file for calculations

Area Coating - accounts only for parking area, see assumptions file for calculations

Energy Use -

Water And Wastewater - Based on the California Department of Water Resource Water Budget Workbook for New and Rehabilitated Non-Residential Landscapes. Assumes 174,265 sqft of landscaping

Brea Mall Existing Conditions 2021 Run - Orange County, Winter

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

Water Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	645715	645717
tblAreaCoating	Area_Nonresidential_Interior	1937145	1937150
tblAreaCoating	Area_Parking	191750	115276
tblLandUse	LandUseSquareFeet	1,274,570.00	1,274,566.00
tblLandUse	LandUseSquareFeet	1,160,440.00	1,160,438.00
tblLandUse	LotAcreage	17.47	0.00
tblLandUse	LotAcreage	29.65	18.10
tblProjectCharacteristics	CO2IntensityFactor	390.98	531.43634
tblProjectCharacteristics	N2OIntensityFactor	0.004	0.00617
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	46.12	30.34
tblVehicleTrips	SU_TR	21.10	18.99
tblVehicleTrips	WD_TR	37.75	23.86
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	OutdoorWaterUseRate	58,630,001.68	2,013,606.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

Brea Mall Existing Conditions 2021 Run - Orange 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	30.1724	4.3000e-003	0.4626	3.0000e-005		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003		0.9821	0.9821	2.6600e-003		1.0486
Energy	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
Mobile	132.6337	194.4259	1,383.5549	2.9118	284.1359	3.2127	287.3486	75.7509	3.0165	78.7673		296,238.9762	296,238.9762	19.8898	13.3377	300,710.8519
Total	**162.8866**	**195.1621**	**1,384.6323**	**2.9162**	**284.1359**	**3.2700**	**287.4059**	**75.7509**	**3.0737**	**78.8246**		**297,118.2555**	**297,118.2555**	**19.9093**	**13.3538**	**301,595.4171**

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	30.1724	4.3000e-003	0.4626	3.0000e-005		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003		0.9821	0.9821	2.6600e-003		1.0486
Energy	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
Mobile	132.6337	194.4259	1,383.5549	2.9118	284.1359	3.2127	287.3486	75.7509	3.0165	78.7673		296,238.9762	296,238.9762	19.8898	13.3377	300,710.8519
Total	**162.8866**	**195.1621**	**1,384.6323**	**2.9162**	**284.1359**	**3.2700**	**287.4059**	**75.7509**	**3.0737**	**78.8246**		**297,118.2555**	**297,118.2555**	**19.9093**	**13.3538**	**301,595.4171**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

4.0 Operational Detail - Mobile

Brea Mall Existing Conditions 2021 Run - Orange County, Winter

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

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	132.6337	194.4259	1,383.5549	2.9118	284.1359	3.2127	287.3486	75.7509	3.0165	78.7673		296,238.9762	296,238.9762	19.8898	13.3377	300,710.8510
Unmitigated	132.6337	194.4259	1,383.5549	2.9118	284.1359	3.2127	287.3486	75.7509	3.0165	78.7673		296,238.9762	296,238.9762	19.8898	13.3377	300,710.8510

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	30,813.52	39,181.99	24524.26	107,032,184	107,032,184
Total	30,813.52	39,181.99	24,524.26	107,032,184	107,032,184

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0

Brea Mall Existing Conditions 2021 Run - Orange County, Winter

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.536609	0.055845	0.191814	0.136180	0.024708	0.006101	0.014702	0.004707	0.000686	0.000404	0.023194	0.000773	0.004277
Other Asphalt Surfaces	0.536609	0.055845	0.191814	0.136180	0.024708	0.006101	0.014702	0.004707	0.000686	0.000404	0.023194	0.000773	0.004277
Parking Lot	0.536609	0.055845	0.191814	0.136180	0.024708	0.006101	0.014702	0.004707	0.000686	0.000404	0.023194	0.000773	0.004277
Regional Shopping Center	0.536609	0.055845	0.191814	0.136180	0.024708	0.006101	0.014702	0.004707	0.000686	0.000404	0.023194	0.000773	0.004277

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
NaturalGas Unmitigated	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Regional Shopping Center	7465.53	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
Total		**0.0805**	**0.7319**	**0.6148**	**4.3900e-003**		**0.0556**	**0.0556**		**0.0556**	**0.0556**		**878.2973**	**878.2973**	**0.0168**	**0.0161**	**883.5166**

Brea Mall Existing Conditions 2021 Run - Orange County, Winter

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

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Regional Shopping Center	7.46553	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
Total		**0.0805**	**0.7319**	**0.6148**	**4.3900e-003**		**0.0556**	**0.0556**		**0.0556**	**0.0556**		**878.2973**	**878.2973**	**0.0168**	**0.0161**	**883.5166**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	30.1724	4.3000e-003	0.4626	3.0000e-005		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003		0.9821	0.9821	2.6600e-003		1.0486
Unmitigated	30.1724	4.3000e-003	0.4626	3.0000e-005		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003		0.9821	0.9821	2.6600e-003		1.0486

Brea Mall Existing Conditions 2021 Run - Orange 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

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	3.4263					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.7023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0438	4.3000e-003	0.4626	3.0000e-005		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003		0.9821	0.9821	2.6600e-003		1.0486
Total	**30.1724**	**4.3000e-003**	**0.4626**	**3.0000e-005**		**1.6600e-003**	**1.6600e-003**		**1.6600e-003**	**1.6600e-003**		**0.9821**	**0.9821**	**2.6600e-003**		**1.0486**

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	3.4263					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.7023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0438	4.3000e-003	0.4626	3.0000e-005		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003		0.9821	0.9821	2.6600e-003		1.0486
Total	**30.1724**	**4.3000e-003**	**0.4626**	**3.0000e-005**		**1.6600e-003**	**1.6600e-003**		**1.6600e-003**	**1.6600e-003**		**0.9821**	**0.9821**	**2.6600e-003**		**1.0486**

7.0 Water Detail

Brea Mall Existing Conditions 2021 Run - Orange County, Winter

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

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Brea Mall Existing Conditions 2026 Run - Orange County, Annual

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

Brea Mall Existing Conditions 2026 Run

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	760.83	1000sqft	0.00	760,830.00	0
Other Asphalt Surfaces	1,274.57	1000sqft	29.26	1,274,566.00	0
Parking Lot	1,160.44	1000sqft	26.64	1,160,438.00	0
Regional Shopping Center	1,291.43	1000sqft	18.10	1,291,430.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2020 SCE Sustainability Report

Land Use - mall has multiple stories

Construction Phase -

Vehicle Trips - based on info provided by LLG see assumptions file for calculations

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Brea Mall Existing Conditions 2026 Run - Orange County, Annual

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

Area Coating - accounts only for parking area, see assumptions file for calculations

Energy Use -

Water And Wastewater - Based on the California Department of Water Resource Water Budget Workbook for New and Rehabilitated Non-Residential Landscapes. Assumes 174,365 sqft of landscaping.

Water Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	645715	645717
tblAreaCoating	Area_Nonresidential_Interior	1937145	1937150
tblAreaCoating	Area_Parking	191750	115276
tblLandUse	LandUseSquareFeet	1,274,570.00	1,274,566.00
tblLandUse	LandUseSquareFeet	1,160,440.00	1,160,438.00
tblLandUse	LotAcreage	17.47	0.00
tblLandUse	LotAcreage	29.65	18.10
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	46.12	30.34
tblVehicleTrips	SU_TR	21.10	18.99
tblVehicleTrips	WD_TR	37.75	23.86
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	OutdoorWaterUseRate	58,630,001.68	2,013,606.00
tblWater	SepticTankPercent	10.33	0.00

Brea Mall Existing Conditions 2026 Run - Orange County, Annual

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

2.0 Emissions Summary

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	5.5037	5.2000e-004	0.0571	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1114	0.1114	2.9000e-004	0.0000	0.1186
Energy	0.0147	0.1336	0.1122	8.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	5,582.8910	5,582.8910	0.3546	0.0453	5,605.2607
Mobile	14.1367	15.4845	145.6723	0.3418	40.3204	0.2332	40.5537	10.7626	0.2168	10.9795	0.0000	32,611.4721	32,611.4721	1.9247	1.3274	33,055.1504
Waste						0.0000	0.0000		0.0000	0.0000	275.2558	0.0000	275.2558	16.2672	0.0000	681.9345
Water						0.0000	0.0000		0.0000	0.0000	33.8445	293.3068	327.1513	0.1355	0.0759	353.1565
Total	**19.6551**	**15.6186**	**145.8417**	**0.3426**	**40.3204**	**0.2436**	**40.5640**	**10.7626**	**0.2272**	**10.9898**	**309.1002**	**38,487.7812**	**38,796.8815**	**18.6823**	**1.4486**	**39,695.6206**

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	5.5037	5.2000e-004	0.0571	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1114	0.1114	2.9000e-004	0.0000	0.1186
Energy	0.0147	0.1336	0.1122	8.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	5,582.8910	5,582.8910	0.3546	0.0453	5,605.2607
Mobile	14.1367	15.4845	145.6723	0.3418	40.3204	0.2332	40.5537	10.7626	0.2168	10.9795	0.0000	32,611.4721	32,611.4721	1.9247	1.3274	33,055.1504
Waste						0.0000	0.0000		0.0000	0.0000	275.2558	0.0000	275.2558	16.2672	0.0000	681.9345
Water						0.0000	0.0000		0.0000	0.0000	27.0756	235.6804	262.7560	0.1084	0.0607	283.5643
Total	**19.6551**	**15.6186**	**145.8417**	**0.3426**	**40.3204**	**0.2436**	**40.5640**	**10.7626**	**0.2272**	**10.9898**	**302.3313**	**38,430.1549**	**38,732.4862**	**18.6553**	**1.4334**	**39,626.0284**

Brea Mall Existing Conditions 2026 Run - Orange 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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.19**	**0.15**	**0.17**	**0.14**	**1.05**	**0.18**

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	14.1367	15.4845	145.6723	0.3418	40.3204	0.2332	40.5537	10.7626	0.2168	10.9795	0.0000	32,611.4721	32,611.4721	1.9247	1.3274	33,055.1504
Unmitigated	14.1367	15.4845	145.6723	0.3418	40.3204	0.2332	40.5537	10.7626	0.2168	10.9795	0.0000	32,611.4721	32,611.4721	1.9247	1.3274	33,055.1504

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	30,813.52	39,181.99	24524.26	107,032,184	107,032,184
Total	30,813.52	39,181.99	24,524.26	107,032,184	107,032,184

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0

Brea Mall Existing Conditions 2026 Run - Orange County, Annual

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732
Other Asphalt Surfaces	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732
Parking Lot	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732
Regional Shopping Center	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,437.4790	5,437.4790	0.3519	0.0427	5,458.9846
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,437.4790	5,437.4790	0.3519	0.0427	5,458.9846
NaturalGas Mitigated	0.0147	0.1336	0.1122	8.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	145.4120	145.4120	2.7900e-003	2.6700e-003	146.2761
NaturalGas Unmitigated	0.0147	0.1336	0.1122	8.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	145.4120	145.4120	2.7900e-003	2.6700e-003	146.2761

Brea Mall Existing Conditions 2026 Run - Orange County, Annual

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	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.72492e+006	0.0147	0.1336	0.1122	8.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	145.4120	145.4120	2.7900e-003	2.6700e-003	146.2761
Total		**0.0147**	**0.1336**	**0.1122**	**8.0000e-004**		**0.0102**	**0.0102**		**0.0102**	**0.0102**	**0.0000**	**145.4120**	**145.4120**	**2.7900e-003**	**2.6700e-003**	**146.2761**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.72492e+006	0.0147	0.1336	0.1122	8.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	145.4120	145.4120	2.7900e-003	2.6700e-003	146.2761
Total		**0.0147**	**0.1336**	**0.1122**	**8.0000e-004**		**0.0102**	**0.0102**		**0.0102**	**0.0102**	**0.0000**	**145.4120**	**145.4120**	**2.7900e-003**	**2.6700e-003**	**146.2761**

Brea Mall Existing Conditions 2026 Run - Orange 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			
Enclosed Parking with Elevator	5.12799e+006	1,186.2232	0.0768	9.3000e-003	1,190.9148
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1.02119e+006	236.2237	0.0153	1.8500e-003	237.1580
Regional Shopping Center	1.73568e+007	4,015.0321	0.2598	0.0315	4,030.9118
Total		**5,437.4790**	**0.3519**	**0.0426**	**5,458.9846**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	5.12799e+006	1,186.2232	0.0768	9.3000e-003	1,190.9148
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1.02119e+006	236.2237	0.0153	1.8500e-003	237.1580
Regional Shopping Center	1.73568e+007	4,015.0321	0.2598	0.0315	4,030.9118
Total		**5,437.4790**	**0.3519**	**0.0426**	**5,458.9846**

Brea Mall Existing Conditions 2026 Run - Orange County, Annual

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

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive 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	5.5037	5.2000e-004	0.0571	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1114	0.1114	2.9000e-004	0.0000	0.1186
Unmitigated	5.5037	5.2000e-004	0.0571	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1114	0.1114	2.9000e-004	0.0000	0.1186

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	0.6253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.8732					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.2600e-003	5.2000e-004	0.0571	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1114	0.1114	2.9000e-004	0.0000	0.1186
Total	**5.5037**	**5.2000e-004**	**0.0571**	**0.0000**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**0.1114**	**0.1114**	**2.9000e-004**	**0.0000**	**0.1186**

Brea Mall Existing Conditions 2026 Run - Orange County, Annual

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

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	0.6253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.8732					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.2600e-003	5.2000e-004	0.0571	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1114	0.1114	2.9000e-004	0.0000	0.1186
Total	**5.5037**	**5.2000e-004**	**0.0571**	**0.0000**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**0.1114**	**0.1114**	**2.9000e-004**	**0.0000**	**0.1186**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	262.7560	0.1084	0.0607	283.5643
Unmitigated	327.1513	0.1355	0.0759	353.1565

Brea Mall Existing Conditions 2026 Run - Orange 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

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	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
Regional Shopping Center	95.6595 / 2.01361	327.1513	0.1355	0.0759	353.1565
Total		**327.1513**	**0.1355**	**0.0759**	**353.1565**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	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
Regional Shopping Center	76.5276 / 2.01361	262.7560	0.1084	0.0607	283.5643
Total		**262.7560**	**0.1084**	**0.0607**	**283.5643**

Brea Mall Existing Conditions 2026 Run - Orange County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	275.2558	16.2672	0.0000	681.9345
Unmitigated	275.2558	16.2672	0.0000	681.9345

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	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
Regional Shopping Center	1356	275.2558	16.2672	0.0000	681.9345
Total		**275.2558**	**16.2672**	**0.0000**	**681.9345**

Brea Mall Existing Conditions 2026 Run - Orange County, Annual

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

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	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
Regional Shopping Center	1356	275.2558	16.2672	0.0000	681.9345
Total		**275.2558**	**16.2672**	**0.0000**	**681.9345**

Brea Mall Existing Conditions 2026 Run - Orange County, Summer

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

Brea Mall Existing Conditions 2026 Run

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	760.83	1000sqft	0.00	760,830.00	0
Other Asphalt Surfaces	1,274.57	1000sqft	29.26	1,274,566.00	0
Parking Lot	1,160.44	1000sqft	26.64	1,160,438.00	0
Regional Shopping Center	1,291.43	1000sqft	18.10	1,291,430.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2020 SCE Sustainability Report

Land Use - mall has multiple stories

Construction Phase -

Vehicle Trips - based on info provided by LLG see assumptions file for calculations

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Brea Mall Existing Conditions 2026 Run - Orange County, Summer

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

Area Coating - accounts only for parking area, see assumptions file for calculations

Energy Use -

Water And Wastewater - Based on the California Department of Water Resource Water Budget Workbook for New and Rehabilitated Non-Residential Landscapes. Assumes 174,365 sqft of landscaping

Water Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	645715	645717
tblAreaCoating	Area_Nonresidential_Interior	1937145	1937150
tblAreaCoating	Area_Parking	191750	115276
tblLandUse	LandUseSquareFeet	1,274,570.00	1,274,566.00
tblLandUse	LandUseSquareFeet	1,160,440.00	1,160,438.00
tblLandUse	LotAcreage	17.47	0.00
tblLandUse	LotAcreage	29.65	18.10
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	46.12	30.34
tblVehicleTrips	SU_TR	21.10	18.99
tblVehicleTrips	WD_TR	37.75	23.86
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	OutdoorWaterUseRate	58,630,001.68	2,013,606.00
tblWater	SepticTankPercent	10.33	0.00

Brea Mall Existing Conditions 2026 Run - Orange County, Summer

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

2.0 Emissions Summary

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	30.1706	4.1400e-003	0.4570	3.0000e-005		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003		0.9821	0.9821	2.5500e-003		1.0459
Energy	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
Mobile	100.6863	98.4309	1,011.7869	2.4357	284.0486	1.6156	285.6642	75.7123	1.5021	77.2144		256,152.7260	256,152.7260	14.3350	9.6819	259,396.2933
Total	**130.9374**	**99.1669**	**1,012.8587**	**2.4401**	**284.0486**	**1.6728**	**285.7214**	**75.7123**	**1.5593**	**77.2716**		**257,032.0053**	**257,032.0053**	**14.3544**	**9.6980**	**260,280.8558**

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	30.1706	4.1400e-003	0.4570	3.0000e-005		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003		0.9821	0.9821	2.5500e-003		1.0459
Energy	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
Mobile	100.6863	98.4309	1,011.7869	2.4357	284.0486	1.6156	285.6642	75.7123	1.5021	77.2144		256,152.7260	256,152.7260	14.3350	9.6819	259,396.2933
Total	**130.9374**	**99.1669**	**1,012.8587**	**2.4401**	**284.0486**	**1.6728**	**285.7214**	**75.7123**	**1.5593**	**77.2716**		**257,032.0053**	**257,032.0053**	**14.3544**	**9.6980**	**260,280.8558**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

Brea Mall Existing Conditions 2026 Run - Orange County, Summer

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	lb/day										lb/day					
Mitigated	100.6863	98.4309	1,011.7869	2.4357	284.0486	1.6156	285.6642	75.7123	1.5021	77.2144		256,152.7260	256,152.7260	14.3350	9.6819	259,396.2933
Unmitigated	100.6863	98.4309	1,011.7869	2.4357	284.0486	1.6156	285.6642	75.7123	1.5021	77.2144		256,152.7260	256,152.7260	14.3350	9.6819	259,396.2933

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	30,813.52	39,181.99	24524.26	107,032,184	107,032,184
Total	30,813.52	39,181.99	24,524.26	107,032,184	107,032,184

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732
Other Asphalt Surfaces	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732
Parking Lot	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732

Brea Mall Existing Conditions 2026 Run - Orange County, Summer

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

Regional Shopping Center	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
NaturalGas Unmitigated	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Regional Shopping Center	7465.53	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
Total		**0.0805**	**0.7319**	**0.6148**	**4.3900e-003**		**0.0556**	**0.0556**		**0.0556**	**0.0556**		**878.2973**	**878.2973**	**0.0168**	**0.0161**	**883.5166**

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

Brea Mall Existing Conditions 2026 Run - Orange County, Summer

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

Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Regional Shopping Center	7.46553	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
Total		**0.0805**	**0.7319**	**0.6148**	**4.3900e-003**		**0.0556**	**0.0556**		**0.0556**	**0.0556**		**878.2973**	**878.2973**	**0.0168**	**0.0161**	**883.5166**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	30.1706	4.1400e-003	0.4570	3.0000e-005		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003		0.9821	0.9821	2.5500e-003		1.0459
Unmitigated	30.1706	4.1400e-003	0.4570	3.0000e-005		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003		0.9821	0.9821	2.5500e-003		1.0459

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	3.4263					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.7023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Brea Mall Existing Conditions 2026 Run - Orange County, Summer

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

Landscaping	0.0421	4.1400e-003	0.4570	3.0000e-005		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003		0.9821	0.9821	2.5500e-003		1.0459
Total	**30.1706**	**4.1400e-003**	**0.4570**	**3.0000e-005**		**1.6200e-003**	**1.6200e-003**		**1.6200e-003**	**1.6200e-003**		**0.9821**	**0.9821**	**2.5500e-003**		**1.0459**

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	3.4263					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.7023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0421	4.1400e-003	0.4570	3.0000e-005		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003		0.9821	0.9821	2.5500e-003		1.0459
Total	**30.1706**	**4.1400e-003**	**0.4570**	**3.0000e-005**		**1.6200e-003**	**1.6200e-003**		**1.6200e-003**	**1.6200e-003**		**0.9821**	**0.9821**	**2.5500e-003**		**1.0459**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Brea Mall Existing Conditions 2026 Run - Orange County, Winter

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

Brea Mall Existing Conditions 2026 Run

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	760.83	1000sqft	0.00	760,830.00	0
Other Asphalt Surfaces	1,274.57	1000sqft	29.26	1,274,566.00	0
Parking Lot	1,160.44	1000sqft	26.64	1,160,438.00	0
Regional Shopping Center	1,291.43	1000sqft	18.10	1,291,430.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2020 SCE Sustainability Report

Land Use - mall has multiple stories

Construction Phase -

Vehicle Trips - based on info provided by LLG see assumptions file for calculations

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Brea Mall Existing Conditions 2026 Run - Orange County, Winter

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

Area Coating - accounts only for parking area, see assumptions file for calculations

Energy Use -

Water And Wastewater - Based on the California Department of Water Resource Water Budget Workbook for New and Rehabilitated Non-Residential Landscapes. Assumes 174,265 sqft of landscaping

Water Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	645715	645717
tblAreaCoating	Area_Nonresidential_Interior	1937145	1937150
tblAreaCoating	Area_Parking	191750	115276
tblLandUse	LandUseSquareFeet	1,274,570.00	1,274,566.00
tblLandUse	LandUseSquareFeet	1,160,440.00	1,160,438.00
tblLandUse	LotAcreage	17.47	0.00
tblLandUse	LotAcreage	29.65	18.10
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	46.12	30.34
tblVehicleTrips	SU_TR	21.10	18.99
tblVehicleTrips	WD_TR	37.75	23.86
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	OutdoorWaterUseRate	58,630,001.68	2,013,606.00
tblWater	SepticTankPercent	10.33	0.00

Brea Mall Existing Conditions 2026 Run - Orange County, Winter

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

2.0 Emissions Summary

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	30.1706	4.1400e-003	0.4570	3.0000e-005		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003		0.9821	0.9821	2.5500e-003		1.0459
Energy	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
Mobile	99.9244	105.6560	1,001.8352	2.3435	284.0486	1.6160	285.6646	75.7123	1.5025	77.2148		246,431.7106	246,431.7106	14.7647	10.0701	249,801.7013
Total	**130.1755**	**106.3920**	**1,002.9069**	**2.3479**	**284.0486**	**1.6733**	**285.7219**	**75.7123**	**1.5598**	**77.2721**		**247,310.9899**	**247,310.9899**	**14.7841**	**10.0862**	**250,686.2638**

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	30.1706	4.1400e-003	0.4570	3.0000e-005		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003		0.9821	0.9821	2.5500e-003		1.0459
Energy	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
Mobile	99.9244	105.6560	1,001.8352	2.3435	284.0486	1.6160	285.6646	75.7123	1.5025	77.2148		246,431.7106	246,431.7106	14.7647	10.0701	249,801.7013
Total	**130.1755**	**106.3920**	**1,002.9069**	**2.3479**	**284.0486**	**1.6733**	**285.7219**	**75.7123**	**1.5598**	**77.2721**		**247,310.9899**	**247,310.9899**	**14.7841**	**10.0862**	**250,686.2638**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

Brea Mall Existing Conditions 2026 Run - Orange County, Winter

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	lb/day										lb/day					
Mitigated	99.9244	105.6560	1,001.8352	2.3435	284.0486	1.6160	285.6646	75.7123	1.5025	77.2148		246,431.7106	246,431.7106	14.7647	10.0701	249,801.7012
Unmitigated	99.9244	105.6560	1,001.8352	2.3435	284.0486	1.6160	285.6646	75.7123	1.5025	77.2148		246,431.7106	246,431.7106	14.7647	10.0701	249,801.7012

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	30,813.52	39,181.99	24524.26	107,032,184	107,032,184
Total	30,813.52	39,181.99	24,524.26	107,032,184	107,032,184

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732
Other Asphalt Surfaces	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732
Parking Lot	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732
Regional Shopping Center	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732

Brea Mall Existing Conditions 2026 Run - Orange County, Winter

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

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
NaturalGas Unmitigated	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Regional Shopping Center	7465.53	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
Total		**0.0805**	**0.7319**	**0.6148**	**4.3900e-003**		**0.0556**	**0.0556**		**0.0556**	**0.0556**		**878.2973**	**878.2973**	**0.0168**	**0.0161**	**883.5166**

Brea Mall Existing Conditions 2026 Run - Orange County, Winter

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

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Regional Shopping Center	7.46553	0.0805	0.7319	0.6148	4.3900e-003		0.0556	0.0556		0.0556	0.0556		878.2973	878.2973	0.0168	0.0161	883.5166
Total		**0.0805**	**0.7319**	**0.6148**	**4.3900e-003**		**0.0556**	**0.0556**		**0.0556**	**0.0556**		**878.2973**	**878.2973**	**0.0168**	**0.0161**	**883.5166**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	30.1706	4.1400e-003	0.4570	3.0000e-005		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003		0.9821	0.9821	2.5500e-003		1.0459
Unmitigated	30.1706	4.1400e-003	0.4570	3.0000e-005		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003		0.9821	0.9821	2.5500e-003		1.0459

Brea Mall Existing Conditions 2026 Run - Orange 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

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	3.4263					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.7023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0421	4.1400e-003	0.4570	3.0000e-005		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003		0.9821	0.9821	2.5500e-003		1.0459
Total	**30.1706**	**4.1400e-003**	**0.4570**	**3.0000e-005**		**1.6200e-003**	**1.6200e-003**		**1.6200e-003**	**1.6200e-003**		**0.9821**	**0.9821**	**2.5500e-003**		**1.0459**

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	3.4263					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	26.7023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0421	4.1400e-003	0.4570	3.0000e-005		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003		0.9821	0.9821	2.5500e-003		1.0459
Total	**30.1706**	**4.1400e-003**	**0.4570**	**3.0000e-005**		**1.6200e-003**	**1.6200e-003**		**1.6200e-003**	**1.6200e-003**		**0.9821**	**0.9821**	**2.5500e-003**		**1.0459**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Brea Mall Existing Conditions 2026 Run - Orange 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

CalEEMod Operations Model

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Annual

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

Brea Mall Mixed-Use Project, Option 1 Operational Run

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,237.63	1000sqft	5.47	1,237,632.00	0
Other Asphalt Surfaces	1,432.70	1000sqft	32.89	1,432,698.00	0
Parking Lot	766.58	1000sqft	17.62	766,576.00	0
Health Club	128.00	1000sqft	0.98	128,000.00	0
Apartments Mid Rise	390.00	Dwelling Unit	0.00	436,500.00	1115
Regional Shopping Center	1,239.94	1000sqft	17.04	1,239,944.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2025
Utility Company	Statewide Average				
CO2 Intensity (lb/MWhr)	453.21	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - mall will have multiple stories

Construction Phase -

Vehicle Trips - based on trip info provided by LLG

Woodstoves - no fireplaces or barbecue grills

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Annual

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

Area Coating - see assumptions file for architectural coating assumptions. Assumes only parking area to be coated.

Energy Use - adjusted CalEEMod Energy use reflects blended CalEEMod default energy rates for historical and new uses

Water And Wastewater - uses California Department of Water Resource Water Resource Water Budget Worksheet for outdoor water use. Assumes 100% aerobic treatment

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	683970	683972
tblAreaCoating	Area_Nonresidential_Interior	2051910	2051916
tblAreaCoating	Area_Parking	206214	120252
tblEnergyUse	LightingElect	1.75	2.29
tblEnergyUse	LightingElect	0.35	0.79
tblEnergyUse	LightingElect	5.71	6.74
tblEnergyUse	T24E	3.50	3.76
tblEnergyUse	T24E	2.62	3.68
tblEnergyUse	T24NG	0.94	1.05
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	331.50	0.00
tblFireplaces	NumberNoFireplace	39.00	0.00
tblFireplaces	NumberWood	19.50	0.00
tblLandUse	LandUseSquareFeet	1,237,630.00	1,237,632.00
tblLandUse	LandUseSquareFeet	1,432,700.00	1,432,698.00
tblLandUse	LandUseSquareFeet	766,580.00	766,576.00
tblLandUse	LandUseSquareFeet	390,000.00	436,500.00
tblLandUse	LandUseSquareFeet	1,239,940.00	1,239,944.00
tblLandUse	LotAcreage	28.41	5.47
tblLandUse	LotAcreage	17.60	17.62

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Annual

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

tblLandUse	LotAcreage	2.94	0.98
tblLandUse	LotAcreage	10.26	0.00
tblLandUse	LotAcreage	28.47	17.04
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	52.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	4.91	2.75
tblVehicleTrips	ST_TR	20.87	26.35
tblVehicleTrips	ST_TR	46.12	30.20
tblVehicleTrips	SU_TR	4.09	2.29
tblVehicleTrips	SU_TR	26.73	26.35
tblVehicleTrips	SU_TR	21.10	18.48
tblVehicleTrips	WD_TR	5.44	3.05
tblVehicleTrips	WD_TR	32.93	27.44
tblVehicleTrips	WD_TR	37.75	23.50
tblWater	OutdoorWaterUseRate	16,019,391.95	2,326,926.00
tblWater	OutdoorWaterUseRate	4,639,875.04	0.00
tblWater	OutdoorWaterUseRate	56,292,392.37	0.00
tblWoodstoves	NumberCatalytic	19.50	0.00
tblWoodstoves	NumberNoncatalytic	19.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Annual

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

tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

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	7.6673	0.0468	4.0793	2.2000e-004		0.0225	0.0225		0.0225	0.0225	0.0000	6.6890	6.6890	6.6000e-003	0.0000	6.8540
Energy	0.0518	0.4583	0.3019	2.8300e-003		0.0358	0.0358		0.0358	0.0358	0.0000	6,119.6350	6,119.6350	0.4181	0.0589	6,147.6354
Mobile	15.9395	17.8180	165.0882	0.3872	44.3128	0.2660	44.5789	11.8282	0.2473	12.0756	0.0000	36,694.8508	36,694.8508	2.1726	1.4992	37,195.9385
Waste						0.0000	0.0000		0.0000	0.0000	448.8008	0.0000	448.8008	26.5234	0.0000	1,111.8851
Water						0.0000	0.0000		0.0000	0.0000	39.6015	339.4435	379.0450	4.0922	0.0990	510.8623
Total	**23.6586**	**18.3231**	**169.4694**	**0.3903**	**44.3128**	**0.3244**	**44.6372**	**11.8282**	**0.3056**	**12.1339**	**488.4023**	**43,160.6184**	**43,649.0207**	**33.2129**	**1.6572**	**44,973.1754**

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Annual

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

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	7.6673	0.0468	4.0793	2.2000e-004		0.0225	0.0225		0.0225	0.0225	0.0000	6.6890	6.6890	6.6000e-003	0.0000	6.8540
Energy	0.0518	0.4583	0.3019	2.8300e-003		0.0358	0.0358		0.0358	0.0358	0.0000	6,119.6350	6,119.6350	0.4181	0.0589	6,147.6354
Mobile	15.9395	17.8180	165.0882	0.3872	44.3128	0.2660	44.5789	11.8282	0.2473	12.0756	0.0000	36,694.8508	36,694.8508	2.1726	1.4992	37,195.9385
Waste						0.0000	0.0000		0.0000	0.0000	448.8008	0.0000	448.8008	26.5234	0.0000	1,111.8851
Water						0.0000	0.0000		0.0000	0.0000	31.6812	272.6177	304.2989	3.2738	0.0792	409.7575
Total	**23.6586**	**18.3231**	**169.4694**	**0.3903**	**44.3128**	**0.3244**	**44.6372**	**11.8282**	**0.3056**	**12.1339**	**480.4820**	**43,093.7926**	**43,574.2746**	**32.3945**	**1.6374**	**44,872.0706**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.62**	**0.15**	**0.17**	**2.46**	**1.19**	**0.22**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2023	9/6/2023	5	70	

Acres of Grading (Site Preparation Phase): 0

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

Acres of Grading (Grading Phase): 0

Acres of Paving: 55.98

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

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	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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	15.9395	17.8180	165.0882	0.3872	44.3128	0.2660	44.5789	11.8282	0.2473	12.0756	0.0000	36,694.8508	36,694.8508	2.1726	1.4992	37,195.9385
Unmitigated	15.9395	17.8180	165.0882	0.3872	44.3128	0.2660	44.5789	11.8282	0.2473	12.0756	0.0000	36,694.8508	36,694.8508	2.1726	1.4992	37,195.9385

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,189.50	1,072.50	893.10	4,351,167	4,351,167
Enclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	3,512.32	3,372.80	3372.80	12,008,768	12,008,768
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	29,138.59	37,446.19	22914.09	101,271,700	101,271,700
Total	33,840.41	41,891.49	27,179.99	117,631,635	117,631,635

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	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Enclosed Parking with Elevator	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Health Club	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Other Asphalt Surfaces	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Parking Lot	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Regional Shopping Center	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801

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

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,606.8348	5,606.8348	0.4083	0.0495	5,631.7878
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,606.8348	5,606.8348	0.4083	0.0495	5,631.7878
NaturalGas Mitigated	0.0518	0.4583	0.3019	2.8300e-003		0.0358	0.0358		0.0358	0.0358	0.0000	512.8003	512.8003	9.8300e-003	9.4000e-003	515.8476
NaturalGas Unmitigated	0.0518	0.4583	0.3019	2.8300e-003		0.0358	0.0358		0.0358	0.0358	0.0000	512.8003	512.8003	9.8300e-003	9.4000e-003	515.8476

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					

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

Apartments Mid Rise	4.34835e+006	0.0235	0.2004	0.0853	1.2800e-003		0.0162	0.0162		0.0162	0.0162	0.0000	232.0446	232.0446	4.4500e-003	4.2500e-003	233.4235
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	2.65728e+006	0.0143	0.1303	0.1094	7.8000e-004		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	141.8026	141.8026	2.7200e-003	2.6000e-003	142.6452
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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.60388e+006	0.0140	0.1276	0.1072	7.7000e-004		9.7000e-003	9.7000e-003		9.7000e-003	9.7000e-003	0.0000	138.9531	138.9531	2.6600e-003	2.5500e-003	139.7788
Total		**0.0518**	**0.4583**	**0.3019**	**2.8300e-003**		**0.0358**	**0.0358**		**0.0358**	**0.0358**	**0.0000**	**512.8003**	**512.8003**	**9.8300e-003**	**9.4000e-003**	**515.8476**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.34835e+006	0.0235	0.2004	0.0853	1.2800e-003		0.0162	0.0162		0.0162	0.0162	0.0000	232.0446	232.0446	4.4500e-003	4.2500e-003	233.4235
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	2.65728e+006	0.0143	0.1303	0.1094	7.8000e-004		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	141.8026	141.8026	2.7200e-003	2.6000e-003	142.6452
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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.60388e+006	0.0140	0.1276	0.1072	7.7000e-004		9.7000e-003	9.7000e-003		9.7000e-003	9.7000e-003	0.0000	138.9531	138.9531	2.6600e-003	2.5500e-003	139.7788
Total		**0.0518**	**0.4583**	**0.3019**	**2.8300e-003**		**0.0358**	**0.0358**		**0.0358**	**0.0358**	**0.0000**	**512.8003**	**512.8003**	**9.8300e-003**	**9.4000e-003**	**515.8476**

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange 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	1.49519e+006	307.3709	0.0224	2.7100e-003	308.7388
Enclosed Parking with Elevator	7.72282e+006	1,587.6009	0.1156	0.0140	1,594.6665
Health Club	1.05856e+006	217.6109	0.0159	1.9200e-003	218.5794
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	605595	124.4938	9.0600e-003	1.1000e-003	125.0478
Regional Shopping Center	1.63921e+007	3,369.7583	0.2454	0.0297	3,384.7553
Total		**5,606.8348**	**0.4083**	**0.0495**	**5,631.7878**

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Annual

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

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.49519e+006	307.3709	0.0224	2.7100e-003	308.7388
Enclosed Parking with Elevator	7.72282e+006	1,587.6009	0.1156	0.0140	1,594.6665
Health Club	1.05856e+006	217.6109	0.0159	1.9200e-003	218.5794
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	605595	124.4938	9.0600e-003	1.1000e-003	125.0478
Regional Shopping Center	1.63921e+007	3,369.7583	0.2454	0.0297	3,384.7553
Total		**5,606.8348**	**0.4083**	**0.0495**	**5,631.7878**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive 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	7.6673	0.0468	4.0793	2.2000e-004		0.0225	0.0225		0.0225	0.0225	0.0000	6.6890	6.6890	6.6000e-003	0.0000	6.8540
Unmitigated	7.6673	0.0468	4.0793	2.2000e-004		0.0225	0.0225		0.0225	0.0225	0.0000	6.6890	6.6890	6.6000e-003	0.0000	6.8540

6.2 Area by SubCategory

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Annual

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

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	0.7985					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.7425					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	0.1263	0.0468	4.0793	2.2000e-004		0.0225	0.0225		0.0225	0.0225	0.0000	6.6890	6.6890	6.6000e-003	0.0000	6.8540
Total	**7.6673**	**0.0468**	**4.0793**	**2.2000e-004**		**0.0225**	**0.0225**		**0.0225**	**0.0225**	**0.0000**	**6.6890**	**6.6890**	**6.6000e-003**	**0.0000**	**6.8540**

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	0.7985					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.7425					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	0.1263	0.0468	4.0793	2.2000e-004		0.0225	0.0225		0.0225	0.0225	0.0000	6.6890	6.6890	6.6000e-003	0.0000	6.8540
Total	**7.6673**	**0.0468**	**4.0793**	**2.2000e-004**		**0.0225**	**0.0225**		**0.0225**	**0.0225**	**0.0000**	**6.6890**	**6.6890**	**6.6000e-003**	**0.0000**	**6.8540**

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Annual

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

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	304.2989	3.2738	0.0792	409.7575
Unmitigated	379.0450	4.0922	0.0990	510.8623

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	25.4101 / 2.32693	81.3926	0.8333	0.0202	108.2447
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	7.57032 / 0	22.6657	0.2482	6.0000e-003	30.6586
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
Regional Shopping Center	91.8455 / 0	274.9867	3.0107	0.0728	371.9590

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Annual

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

Total	**379.0450**	**4.0922**	**0.0990**	**510.8623**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	20.3281 / 2.32693	66.1770	0.6667	0.0162	87.6634
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	6.05626 / 0	18.1325	0.1985	4.8000e-003	24.5268
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
Regional Shopping Center	73.4764 / 0	219.9894	2.4086	0.0583	297.5672
Total		**304.2989**	**3.2738**	**0.0792**	**409.7575**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	448.8008	26.5234	0.0000	1,111.8851

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

Unmitigated	448.8008	26.5234	0.0000	1,111.8851

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	179.4	36.4166	2.1522	0.0000	90.2205
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Health Club	729.6	148.1022	8.7526	0.0000	366.9170
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1301.94	264.2821	15.6186	0.0000	654.7476
Total		**448.8008**	**26.5234**	**0.0000**	**1,111.8851**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	179.4	36.4166	2.1522	0.0000	90.2205
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Health Club	729.6	148.1022	8.7526	0.0000	366.9170
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Annual

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

Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1301.94	264.2821	15.6186	0.0000	654.7476
Total		**448.8008**	**26.5234**	**0.0000**	**1,111.8851**

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Summer

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

Brea Mall Mixed-Use Project, Option 1 Operational Run

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,237.63	1000sqft	5.47	1,237,632.00	0
Other Asphalt Surfaces	1,432.70	1000sqft	32.89	1,432,698.00	0
Parking Lot	766.58	1000sqft	17.62	766,576.00	0
Health Club	128.00	1000sqft	0.98	128,000.00	0
Apartments Mid Rise	390.00	Dwelling Unit	0.00	436,500.00	1115
Regional Shopping Center	1,239.94	1000sqft	17.04	1,239,944.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2025
Utility Company	Statewide Average				
CO2 Intensity (lb/MWhr)	453.21	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - mall will have multiple stories

Construction Phase -

Vehicle Trips - based on trip info provided by LLG

Woodstoves - no fireplaces or barbecue grills

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Summer

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

Area Coating - see assumptions file for architectural coating assumptions. Assumes only parking area to be coated.

Energy Use - adjusted CalEEMod Energy use reflects blended CalEEMod default energy rates for historical and new uses

Water And Wastewater - uses California Department of Water Resource Water Resource Water Budget Worksheet for outdoor water use. Assumes 100% aerobic treatment

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	683970	683972
tblAreaCoating	Area_Nonresidential_Interior	2051910	2051916
tblAreaCoating	Area_Parking	206214	120252
tblEnergyUse	LightingElect	1.75	2.29
tblEnergyUse	LightingElect	0.35	0.79
tblEnergyUse	LightingElect	5.71	6.74
tblEnergyUse	T24E	3.50	3.76
tblEnergyUse	T24E	2.62	3.68
tblEnergyUse	T24NG	0.94	1.05
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	331.50	0.00
tblFireplaces	NumberNoFireplace	39.00	0.00
tblFireplaces	NumberWood	19.50	0.00
tblLandUse	LandUseSquareFeet	1,237,630.00	1,237,632.00
tblLandUse	LandUseSquareFeet	1,432,700.00	1,432,698.00
tblLandUse	LandUseSquareFeet	766,580.00	766,576.00
tblLandUse	LandUseSquareFeet	390,000.00	436,500.00
tblLandUse	LandUseSquareFeet	1,239,940.00	1,239,944.00
tblLandUse	LotAcreage	28.41	5.47
tblLandUse	LotAcreage	17.60	17.62

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Summer

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

tblLandUse	LotAcreage	2.94	0.98
tblLandUse	LotAcreage	10.26	0.00
tblLandUse	LotAcreage	28.47	17.04
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	52.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	4.91	2.75
tblVehicleTrips	ST_TR	20.87	26.35
tblVehicleTrips	ST_TR	46.12	30.20
tblVehicleTrips	SU_TR	4.09	2.29
tblVehicleTrips	SU_TR	26.73	26.35
tblVehicleTrips	SU_TR	21.10	18.48
tblVehicleTrips	WD_TR	5.44	3.05
tblVehicleTrips	WD_TR	32.93	27.44
tblVehicleTrips	WD_TR	37.75	23.50
tblWater	OutdoorWaterUseRate	16,019,391.95	2,326,926.00
tblWater	OutdoorWaterUseRate	4,639,875.04	0.00
tblWater	OutdoorWaterUseRate	56,292,392.37	0.00
tblWoodstoves	NumberCatalytic	19.50	0.00
tblWoodstoves	NumberNoncatalytic	19.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Summer

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

tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

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	42.3307	0.3747	32.6343	1.7400e-003		0.1801	0.1801		0.1801	0.1801	0.0000	58.9870	58.9870	0.0582	0.0000	60.4423
Energy	0.2839	2.5110	1.6542	0.0155		0.1962	0.1962		0.1962	0.1962		3,097.3454	3,097.3454	0.0594	0.0568	3,115.7514
Mobile	111.5122	111.2537	1,127.7528	2.7116	306.7038	1.8108	308.5146	81.7505	1.6834	83.4339		283,204.1949	283,204.1949	15.8936	10.7381	286,801.4748
Total	**154.1268**	**114.1394**	**1,162.0414**	**2.7288**	**306.7038**	**2.1871**	**308.8909**	**81.7505**	**2.0596**	**83.8102**	**0.0000**	**286,360.5272**	**286,360.5272**	**16.0112**	**10.7948**	**289,977.6685**

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Summer

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

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	42.3307	0.3747	32.6343	1.7400e-003		0.1801	0.1801		0.1801	0.1801	0.0000	58.9870	58.9870	0.0582	0.0000	60.4423
Energy	0.2839	2.5110	1.6542	0.0155		0.1962	0.1962		0.1962	0.1962		3,097.3454	3,097.3454	0.0594	0.0568	3,115.7514
Mobile	111.5122	111.2537	1,127.7528	2.7116	306.7038	1.8108	308.5146	81.7505	1.6834	83.4339		283,204.1949	283,204.1949	15.8936	10.7381	286,801.4748
Total	**154.1268**	**114.1394**	**1,162.0414**	**2.7288**	**306.7038**	**2.1871**	**308.8909**	**81.7505**	**2.0596**	**83.8102**	**0.0000**	**286,360.5272**	**286,360.5272**	**16.0112**	**10.7948**	**289,977.6685**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	lb/day										lb/day					
Mitigated	111.5122	111.2537	1,127.7528	2.7116	306.7038	1.8108	308.5146	81.7505	1.6834	83.4339		283,204.1949	283,204.1949	15.8936	10.7381	286,801.4748
Unmitigated	111.5122	111.2537	1,127.7528	2.7116	306.7038	1.8108	308.5146	81.7505	1.6834	83.4339		283,204.1949	283,204.1949	15.8936	10.7381	286,801.4748

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Summer

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,189.50	1,072.50	893.10	4,351,167	4,351,167
Enclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	3,512.32	3,372.80	3372.80	12,008,768	12,008,768
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	29,138.59	37,446.19	22914.09	101,271,700	101,271,700
Total	33,840.41	41,891.49	27,179.99	117,631,635	117,631,635

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	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Enclosed Parking with Elevator	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Health Club	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Other Asphalt Surfaces	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Parking Lot	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Regional Shopping Center	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Summer

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

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	0.2839	2.5110	1.6542	0.0155		0.1962	0.1962		0.1962	0.1962		3,097.3454	3,097.3454	0.0594	0.0568	3,115.7514
NaturalGas Unmitigated	0.2839	2.5110	1.6542	0.0155		0.1962	0.1962		0.1962	0.1962		3,097.3454	3,097.3454	0.0594	0.0568	3,115.7514

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	11913.3	0.1285	1.0979	0.4672	7.0100e-003		0.0888	0.0888		0.0888	0.0888		1,401.5638	1,401.5638	0.0269	0.0257	1,409.8926
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	7280.22	0.0785	0.7138	0.5996	4.2800e-003		0.0542	0.0542		0.0542	0.0542		856.4964	856.4964	0.0164	0.0157	861.5861
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
Regional Shopping Center	7133.92	0.0769	0.6994	0.5875	4.2000e-003		0.0532	0.0532		0.0532	0.0532		839.2852	839.2852	0.0161	0.0154	844.2727
Total		**0.2839**	**2.5110**	**1.6542**	**0.0155**		**0.1962**	**0.1962**		**0.1962**	**0.1962**		**3,097.3454**	**3,097.3454**	**0.0594**	**0.0568**	**3,115.7514**

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Summer

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

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	11.9133	0.1285	1.0979	0.4672	7.0100e-003		0.0888	0.0888		0.0888	0.0888		1,401.5638	1,401.5638	0.0269	0.0257	1,409.8926
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	7.28022	0.0785	0.7138	0.5996	4.2800e-003		0.0542	0.0542		0.0542	0.0542		856.4964	856.4964	0.0164	0.0157	861.5861
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
Regional Shopping Center	7.13392	0.0769	0.6994	0.5875	4.2000e-003		0.0532	0.0532		0.0532	0.0532		839.2852	839.2852	0.0161	0.0154	844.2727
Total		**0.2839**	**2.5110**	**1.6542**	**0.0155**		**0.1962**	**0.1962**		**0.1962**	**0.1962**		**3,097.3454**	**3,097.3454**	**0.0594**	**0.0568**	**3,115.7514**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	42.3307	0.3747	32.6343	1.7400e-003		0.1801	0.1801		0.1801	0.1801	0.0000	58.9870	58.9870	0.0582	0.0000	60.4423
Unmitigated	42.3307	0.3747	32.6343	1.7400e-003		0.1801	0.1801		0.1801	0.1801	0.0000	58.9870	58.9870	0.0582	0.0000	60.4423

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange 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

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	4.3752					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.9453					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	1.0102	0.3747	32.6343	1.7400e-003		0.1801	0.1801		0.1801	0.1801		58.9870	58.9870	0.0582		60.4423
Total	**42.3307**	**0.3747**	**32.6343**	**1.7400e-003**		**0.1801**	**0.1801**		**0.1801**	**0.1801**	**0.0000**	**58.9870**	**58.9870**	**0.0582**	**0.0000**	**60.4423**

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	4.3752					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.9453					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	1.0102	0.3747	32.6343	1.7400e-003		0.1801	0.1801		0.1801	0.1801		58.9870	58.9870	0.0582		60.4423
Total	**42.3307**	**0.3747**	**32.6343**	**1.7400e-003**		**0.1801**	**0.1801**		**0.1801**	**0.1801**	**0.0000**	**58.9870**	**58.9870**	**0.0582**	**0.0000**	**60.4423**

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Summer

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

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Winter

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

Brea Mall Mixed-Use Project, Option 1 Operational Run

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,237.63	1000sqft	5.47	1,237,632.00	0
Other Asphalt Surfaces	1,432.70	1000sqft	32.89	1,432,698.00	0
Parking Lot	766.58	1000sqft	17.62	766,576.00	0
Health Club	128.00	1000sqft	0.98	128,000.00	0
Apartments Mid Rise	390.00	Dwelling Unit	0.00	436,500.00	1115
Regional Shopping Center	1,239.94	1000sqft	17.04	1,239,944.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2025
Utility Company	Statewide Average				
CO2 Intensity (lb/MWhr)	453.21	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - mall will have multiple stories

Construction Phase -

Vehicle Trips - based on trip info provided by LLG

Woodstoves - no fireplaces or barbecue grills

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Winter

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

Area Coating - see assumptions file for architectural coating assumptions. Assumes only parking area to be coated.

Energy Use - adjusted CalEEMod Energy use reflects blended CalEEMod default energy rates for historical and new uses

Water And Wastewater - uses California Department of Water Resource Water Resource Water Budget Worksheet for outdoor water use. Assumes 100% aerobic treatment

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	683970	683972
tblAreaCoating	Area_Nonresidential_Interior	2051910	2051916
tblAreaCoating	Area_Parking	206214	120252
tblEnergyUse	LightingElect	1.75	2.29
tblEnergyUse	LightingElect	0.35	0.79
tblEnergyUse	LightingElect	5.71	6.74
tblEnergyUse	T24E	3.50	3.76
tblEnergyUse	T24E	2.62	3.68
tblEnergyUse	T24NG	0.94	1.05
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	331.50	0.00
tblFireplaces	NumberNoFireplace	39.00	0.00
tblFireplaces	NumberWood	19.50	0.00
tblLandUse	LandUseSquareFeet	1,237,630.00	1,237,632.00
tblLandUse	LandUseSquareFeet	1,432,700.00	1,432,698.00
tblLandUse	LandUseSquareFeet	766,580.00	766,576.00
tblLandUse	LandUseSquareFeet	390,000.00	436,500.00
tblLandUse	LandUseSquareFeet	1,239,940.00	1,239,944.00
tblLandUse	LotAcreage	28.41	5.47
tblLandUse	LotAcreage	17.60	17.62

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Winter

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

tblLandUse	LotAcreage	2.94	0.98
tblLandUse	LotAcreage	10.26	0.00
tblLandUse	LotAcreage	28.47	17.04
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	52.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	4.91	2.75
tblVehicleTrips	ST_TR	20.87	26.35
tblVehicleTrips	ST_TR	46.12	30.20
tblVehicleTrips	SU_TR	4.09	2.29
tblVehicleTrips	SU_TR	26.73	26.35
tblVehicleTrips	SU_TR	21.10	18.48
tblVehicleTrips	WD_TR	5.44	3.05
tblVehicleTrips	WD_TR	32.93	27.44
tblVehicleTrips	WD_TR	37.75	23.50
tblWater	OutdoorWaterUseRate	16,019,391.95	2,326,926.00
tblWater	OutdoorWaterUseRate	4,639,875.04	0.00
tblWater	OutdoorWaterUseRate	56,292,392.37	0.00
tblWoodstoves	NumberCatalytic	19.50	0.00
tblWoodstoves	NumberNoncatalytic	19.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Winter

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

tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

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	42.3307	0.3747	32.6343	1.7400e-003		0.1801	0.1801		0.1801	0.1801	0.0000	58.9870	58.9870	0.0582	0.0000	60.4423
Energy	0.2839	2.5110	1.6542	0.0155		0.1962	0.1962		0.1962	0.1962		3,097.3454	3,097.3454	0.0594	0.0568	3,115.7514
Mobile	110.7438	119.4438	1,115.2553	2.6085	306.7038	1.8114	308.5152	81.7505	1.6839	83.4344		272,423.5760	272,423.5760	16.3782	11.1746	276,163.0676
Total	**153.3584**	**122.3296**	**1,149.5438**	**2.6257**	**306.7038**	**2.1876**	**308.8915**	**81.7505**	**2.0602**	**83.8107**	**0.0000**	**275,579.9083**	**275,579.9083**	**16.4958**	**11.2314**	**279,339.2613**

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	42.3307	0.3747	32.6343	1.7400e-003		0.1801	0.1801		0.1801	0.1801	0.0000	58.9870	58.9870	0.0582	0.0000	60.4423

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Winter

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

Energy	0.2839	2.5110	1.6542	0.0155		0.1962	0.1962		0.1962	0.1962		3,097.3454	3,097.3454	0.0594	0.0568	3,115.7514
Mobile	110.7438	119.4438	1,115.2553	2.6085	306.7038	1.8114	308.5152	81.7505	1.6839	83.4344		272,423.5760	272,423.5760	16.3782	11.1746	276,163.0676
Total	**153.3584**	**122.3296**	**1,149.5438**	**2.6257**	**306.7038**	**2.1876**	**308.8915**	**81.7505**	**2.0602**	**83.8107**	**0.0000**	**275,579.9083**	**275,579.9083**	**16.4958**	**11.2314**	**279,339.2613**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	lb/day										lb/day					
Mitigated	110.7438	119.4438	1,115.2553	2.6085	306.7038	1.8114	308.5152	81.7505	1.6839	83.4344		272,423.5760	272,423.5760	16.3782	11.1746	276,163.0676
Unmitigated	110.7438	119.4438	1,115.2553	2.6085	306.7038	1.8114	308.5152	81.7505	1.6839	83.4344		272,423.5760	272,423.5760	16.3782	11.1746	276,163.0676

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,189.50	1,072.50	893.10	4,351,167	4,351,167
Enclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	3,512.32	3,372.80	3372.80	12,008,768	12,008,768
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	29,138.59	37,446.19	22914.09	101,271,700	101,271,700
Total	33,840.41	41,891.49	27,179.99	117,631,635	117,631,635

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Winter

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

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	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Enclosed Parking with Elevator	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Health Club	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Other Asphalt Surfaces	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Parking Lot	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Regional Shopping Center	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801

5.0 Energy Detail

Historical Energy Use: N

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Winter

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

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	0.2839	2.5110	1.6542	0.0155		0.1962	0.1962		0.1962	0.1962		3,097.3454	3,097.3454	0.0594	0.0568	3,115.7514
NaturalGas Unmitigated	0.2839	2.5110	1.6542	0.0155		0.1962	0.1962		0.1962	0.1962		3,097.3454	3,097.3454	0.0594	0.0568	3,115.7514

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	11913.3	0.1285	1.0979	0.4672	7.0100e-003		0.0888	0.0888		0.0888	0.0888		1,401.5638	1,401.5638	0.0269	0.0257	1,409.8926
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	7280.22	0.0785	0.7138	0.5996	4.2800e-003		0.0542	0.0542		0.0542	0.0542		856.4964	856.4964	0.0164	0.0157	861.5861
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
Regional Shopping Center	7133.92	0.0769	0.6994	0.5875	4.2000e-003		0.0532	0.0532		0.0532	0.0532		839.2852	839.2852	0.0161	0.0154	844.2727
Total		**0.2839**	**2.5110**	**1.6542**	**0.0155**		**0.1962**	**0.1962**		**0.1962**	**0.1962**		**3,097.3454**	**3,097.3454**	**0.0594**	**0.0568**	**3,115.7514**

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					

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Winter

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

Apartments Mid Rise	11.9133	0.1285	1.0979	0.4672	7.0100e-003		0.0888	0.0888		0.0888	0.0888		1,401.5638	1,401.5638	0.0269	0.0257	1,409.8926
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	7.28022	0.0785	0.7138	0.5996	4.2800e-003		0.0542	0.0542		0.0542	0.0542		856.4964	856.4964	0.0164	0.0157	861.5861
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
Regional Shopping Center	7.13392	0.0769	0.6994	0.5875	4.2000e-003		0.0532	0.0532		0.0532	0.0532		839.2852	839.2852	0.0161	0.0154	844.2727
Total		**0.2839**	**2.5110**	**1.6542**	**0.0155**		**0.1962**	**0.1962**		**0.1962**	**0.1962**		**3,097.3454**	**3,097.3454**	**0.0594**	**0.0568**	**3,115.7514**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	42.3307	0.3747	32.6343	1.7400e-003		0.1801	0.1801		0.1801	0.1801	0.0000	58.9870	58.9870	0.0582	0.0000	60.4423
Unmitigated	42.3307	0.3747	32.6343	1.7400e-003		0.1801	0.1801		0.1801	0.1801	0.0000	58.9870	58.9870	0.0582	0.0000	60.4423

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	lb/day										lb/day					

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Winter

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

Architectural Coating	4.3752					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.9453					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	1.0102	0.3747	32.6343	1.7400e-003		0.1801	0.1801		0.1801	0.1801		58.9870	58.9870	0.0582		60.4423
Total	**42.3307**	**0.3747**	**32.6343**	**1.7400e-003**		**0.1801**	**0.1801**		**0.1801**	**0.1801**	**0.0000**	**58.9870**	**58.9870**	**0.0582**	**0.0000**	**60.4423**

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	4.3752					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.9453					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	1.0102	0.3747	32.6343	1.7400e-003		0.1801	0.1801		0.1801	0.1801		58.9870	58.9870	0.0582		60.4423
Total	**42.3307**	**0.3747**	**32.6343**	**1.7400e-003**		**0.1801**	**0.1801**		**0.1801**	**0.1801**	**0.0000**	**58.9870**	**58.9870**	**0.0582**	**0.0000**	**60.4423**

Brea Mall Mixed-Use Project, Option 1 Operational Run - Orange County, Winter

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

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Annual

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

Brea Mall Mixed-Use Project, Option 2 Operational Run

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,159.33	1000sqft	4.57	1,159,332.00	0
Other Asphalt Surfaces	1,514.51	1000sqft	34.77	1,514,514.00	0
Parking Lot	766.58	1000sqft	17.62	766,576.00	0
Apartments Mid Rise	670.00	Dwelling Unit	0.00	750,300.00	1916
Regional Shopping Center	1,239.94	1000sqft	17.04	1,239,944.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2020 SCE Sustainability Report (see assumptions file for calcs)

Land Use - Mall structures have multiple stories, see assumptions file for calcs

Construction Phase -

Vehicle Trips - based on info provided by LLG, see assumptions file for calcs

Woodstoves - no fireplaces assumed for Option 2

Area Coating - accounts only for parking area, see assumptions file for calculations

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Annual

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

Water And Wastewater - assumes 100% aerobic treatment, outdoor water based on the California Department of Water Resource Water Budget

Fleet Mix -

Energy Use - adjusted CalEEMod Energy use reflects blended CalEEMod default energy rates for historical and new uses

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	619970	619972
tblAreaCoating	Area_Nonresidential_Interior	1859910	1859916
tblAreaCoating	Area_Parking	206425	115554
tblEnergyUse	LightingElect	1.75	2.33
tblEnergyUse	LightingElect	5.71	6.74
tblEnergyUse	T24E	3.50	3.78
tblEnergyUse	T24E	2.62	3.68
tblEnergyUse	T24NG	0.94	1.05
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	569.50	0.00
tblFireplaces	NumberNoFireplace	67.00	0.00
tblFireplaces	NumberWood	33.50	0.00
tblLandUse	LandUseSquareFeet	1,159,330.00	1,159,332.00
tblLandUse	LandUseSquareFeet	1,514,510.00	1,514,514.00
tblLandUse	LandUseSquareFeet	766,580.00	766,576.00
tblLandUse	LandUseSquareFeet	670,000.00	750,300.00
tblLandUse	LandUseSquareFeet	1,239,940.00	1,239,944.00
tblLandUse	LotAcreage	26.61	4.57
tblLandUse	LotAcreage	17.60	17.62
tblLandUse	LotAcreage	17.63	0.00

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Annual

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

tblLandUse	LotAcreage	28.47	17.04
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	4.91	2.75
tblVehicleTrips	ST_TR	46.12	29.76
tblVehicleTrips	SU_TR	4.09	2.29
tblVehicleTrips	SU_TR	21.10	18.11
tblVehicleTrips	WD_TR	5.44	3.05
tblVehicleTrips	WD_TR	37.75	23.01
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	OutdoorWaterUseRate	27,520,493.87	2,326,926.00
tblWater	OutdoorWaterUseRate	56,292,392.37	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	33.50	0.00
tblWoodstoves	NumberNoncatalytic	33.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Annual

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

2.0 Emissions Summary

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	8.4631	0.0801	6.9625	3.7000e-004		0.0385	0.0385		0.0385	0.0385	0.0000	11.4027	11.4027	0.0111	0.0000	11.6804
Energy	0.0543	0.4719	0.2537	2.9600e-003		0.0375	0.0375		0.0375	0.0375	0.0000	6,675.2461	6,675.2461	0.4075	0.0580	6,702.7155
Mobile	13.3974	14.2294	137.9018	0.3228	40.2189	0.2110	40.4299	10.7357	0.1962	10.9319	0.0000	31,190.8725	31,190.8725	1.8281	1.2604	31,612.1627
Waste						0.0000	0.0000		0.0000	0.0000	326.8439	0.0000	326.8439	19.3159	0.0000	809.7419
Water						0.0000	0.0000		0.0000	0.0000	47.9397	414.1100	462.0496	0.1918	0.1075	498.8800
Total	**21.9148**	**14.7813**	**145.1180**	**0.3262**	**40.2189**	**0.2870**	**40.5059**	**10.7357**	**0.2723**	**11.0079**	**374.7835**	**38,291.6312**	**38,666.4147**	**21.7544**	**1.4259**	**39,635.1805**

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Annual

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

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	8.4631	0.0801	6.9625	3.7000e-004		0.0385	0.0385		0.0385	0.0385	0.0000	11.4027	11.4027	0.0111	0.0000	11.6804
Energy	0.0543	0.4719	0.2537	2.9600e-003		0.0375	0.0375		0.0375	0.0375	0.0000	6,675.2461	6,675.2461	0.4075	0.0580	6,702.7155
Mobile	13.3974	14.2294	137.9018	0.3228	40.2189	0.2110	40.4299	10.7357	0.1962	10.9319	0.0000	31,190.8725	31,190.8725	1.8281	1.2604	31,612.1627
Waste						0.0000	0.0000		0.0000	0.0000	326.8439	0.0000	326.8439	19.3159	0.0000	809.7419
Water						0.0000	0.0000		0.0000	0.0000	38.3517	332.4840	370.8357	0.1535	0.0860	400.3047
Total	**21.9148**	**14.7813**	**145.1180**	**0.3262**	**40.2189**	**0.2870**	**40.5059**	**10.7357**	**0.2723**	**11.0079**	**365.1956**	**38,210.0053**	**38,575.2009**	**21.7161**	**1.4044**	**39,536.6052**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.56**	**0.21**	**0.24**	**0.18**	**1.51**	**0.25**

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	13.3974	14.2294	137.9018	0.3228	40.2189	0.2110	40.4299	10.7357	0.1962	10.9319	0.0000	31,190.8725	31,190.8725	1.8281	1.2604	31,612.1627
Unmitigated	13.3974	14.2294	137.9018	0.3228	40.2189	0.2110	40.4299	10.7357	0.1962	10.9319	0.0000	31,190.8725	31,190.8725	1.8281	1.2604	31,612.1627

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Annual

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,043.50	1,842.50	1534.30	7,475,081	7,475,081
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	28,531.02	36,900.61	22455.31	99,285,025	99,285,025
Total	30,574.52	38,743.11	23,989.61	106,760,106	106,760,106

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	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.550154	0.061804	0.183272	0.123160	0.024103	0.006872	0.015174	0.004915	0.000675	0.000367	0.025200	0.000692	0.003612
Enclosed Parking with Elevator	0.550154	0.061804	0.183272	0.123160	0.024103	0.006872	0.015174	0.004915	0.000675	0.000367	0.025200	0.000692	0.003612
Other Asphalt Surfaces	0.550154	0.061804	0.183272	0.123160	0.024103	0.006872	0.015174	0.004915	0.000675	0.000367	0.025200	0.000692	0.003612
Parking Lot	0.550154	0.061804	0.183272	0.123160	0.024103	0.006872	0.015174	0.004915	0.000675	0.000367	0.025200	0.000692	0.003612
Regional Shopping Center	0.550154	0.061804	0.183272	0.123160	0.024103	0.006872	0.015174	0.004915	0.000675	0.000367	0.025200	0.000692	0.003612

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange 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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,137.6523	6,137.6523	0.3972	0.0481	6,161.9270
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,137.6523	6,137.6523	0.3972	0.0481	6,161.9270
NaturalGas Mitigated	0.0543	0.4719	0.2537	2.9600e-003		0.0375	0.0375		0.0375	0.0375	0.0000	537.5938	537.5938	0.0103	9.8600e-003	540.7885
NaturalGas Unmitigated	0.0543	0.4719	0.2537	2.9600e-003		0.0375	0.0375		0.0375	0.0375	0.0000	537.5938	537.5938	0.0103	9.8600e-003	540.7885

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	7.47025e+006	0.0403	0.3442	0.1465	2.2000e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.6407	398.6407	7.6400e-003	7.3100e-003	401.0097
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.60388e+006	0.0140	0.1276	0.1072	7.7000e-004		9.7000e-003	9.7000e-003		9.7000e-003	9.7000e-003	0.0000	138.9531	138.9531	2.6600e-003	2.5500e-003	139.7788
Total		**0.0543**	**0.4719**	**0.2537**	**2.9700e-003**		**0.0375**	**0.0375**		**0.0375**	**0.0375**	**0.0000**	**537.5938**	**537.5938**	**0.0103**	**9.8600e-003**	**540.7885**

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Annual

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	7.47025e+006	0.0403	0.3442	0.1465	2.2000e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.6407	398.6407	7.6400e-003	7.3100e-003	401.0097
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.60388e+006	0.0140	0.1276	0.1072	7.7000e-004		9.7000e-003	9.7000e-003		9.7000e-003	9.7000e-003	0.0000	138.9531	138.9531	2.6600e-003	2.5500e-003	139.7788
Total		**0.0543**	**0.4719**	**0.2537**	**2.9700e-003**		**0.0375**	**0.0375**		**0.0375**	**0.0375**	**0.0000**	**537.5938**	**537.5938**	**0.0103**	**9.8600e-003**	**540.7885**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.56867e+006	594.1916	0.0385	4.6600e-003	596.5417
Enclosed Parking with Elevator	7.30379e+006	1,689.5353	0.1093	0.0133	1,696.2175
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	268302	62.0643	4.0200e-003	4.9000e-004	62.3098
Regional Shopping Center	1.63921e+007	3,791.8610	0.2454	0.0297	3,806.8581
Total		**6,137.6523**	**0.3972**	**0.0481**	**6,161.9270**

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Annual

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

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.56867e+006	594.1916	0.0385	4.6600e-003	596.5417
Enclosed Parking with Elevator	7.30379e+006	1,689.5353	0.1093	0.0133	1,696.2175
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	268302	62.0643	4.0200e-003	4.9000e-004	62.3098
Regional Shopping Center	1.63921e+007	3,791.8610	0.2454	0.0297	3,806.8581
Total		**6,137.6523**	**0.3972**	**0.0481**	**6,161.9270**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive 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	8.4631	0.0801	6.9625	3.7000e-004		0.0385	0.0385		0.0385	0.0385	0.0000	11.4027	11.4027	0.0111	0.0000	11.6804
Unmitigated	8.4631	0.0801	6.9625	3.7000e-004		0.0385	0.0385		0.0385	0.0385	0.0000	11.4027	11.4027	0.0111	0.0000	11.6804

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange 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

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	0.8362					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.4141					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	0.2127	0.0801	6.9625	3.7000e-004		0.0385	0.0385		0.0385	0.0385	0.0000	11.4027	11.4027	0.0111	0.0000	11.6804
Total	**8.4631**	**0.0801**	**6.9625**	**3.7000e-004**		**0.0385**	**0.0385**		**0.0385**	**0.0385**	**0.0000**	**11.4027**	**11.4027**	**0.0111**	**0.0000**	**11.6804**

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	0.8362					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.4141					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	0.2127	0.0801	6.9625	3.7000e-004		0.0385	0.0385		0.0385	0.0385	0.0000	11.4027	11.4027	0.0111	0.0000	11.6804
Total	**8.4631**	**0.0801**	**6.9625**	**3.7000e-004**		**0.0385**	**0.0385**		**0.0385**	**0.0385**	**0.0000**	**11.4027**	**11.4027**	**0.0111**	**0.0000**	**11.6804**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	370.8357	0.1535	0.0860	400.3047
Unmitigated	462.0496	0.1918	0.1075	498.8800

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	43.6532 / 2.32693	152.9107	0.0621	0.0347	164.7922
Enclosed Parking with Elevator	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
Regional Shopping Center	91.8455 / 0	309.1389	0.1298	0.0728	334.0877
Total		**462.0496**	**0.1918**	**0.1075**	**498.8800**

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Annual

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

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	34.9226 / 2.32693	123.5246	0.0497	0.0277	133.0346
Enclosed Parking with Elevator	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
Regional Shopping Center	73.4764 / 0	247.3111	0.1038	0.0583	267.2702
Total		**370.8357**	**0.1535**	**0.0860**	**400.3047**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	326.8439	19.3159	0.0000	809.7419
Unmitigated	326.8439	19.3159	0.0000	809.7419

8.2 Waste by Land Use

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Annual

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

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	308.2	62.5618	3.6973	0.0000	154.9943
Enclosed Parking with Elevator	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
Regional Shopping Center	1301.94	264.2821	15.6186	0.0000	654.7476
Total		**326.8439**	**19.3159**	**0.0000**	**809.7419**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	308.2	62.5618	3.6973	0.0000	154.9943
Enclosed Parking with Elevator	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
Regional Shopping Center	1301.94	264.2821	15.6186	0.0000	654.7476
Total		**326.8439**	**19.3159**	**0.0000**	**809.7419**

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Summer

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

Brea Mall Mixed-Use Project, Option 2 Operational Run

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,159.33	1000sqft	4.57	1,159,332.00	0
Other Asphalt Surfaces	1,514.51	1000sqft	34.77	1,514,514.00	0
Parking Lot	766.58	1000sqft	17.62	766,576.00	0
Apartments Mid Rise	670.00	Dwelling Unit	0.00	750,300.00	1916
Regional Shopping Center	1,239.94	1000sqft	17.04	1,239,944.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2020 SCE Sustainability Report (see assumptions file for calcs)

Land Use - Mall structures have multiple stories, see assumptions file for calcs

Construction Phase -

Vehicle Trips - based on info provided by LLG, see assumptions file for calcs

Woodstoves - no fireplaces assumed for Option 2

Area Coating - accounts only for parking area, see assumptions file for calculations

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Summer

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

Water And Wastewater - assumes 100% aerobic treatment, outdoor water based on the California Department of Water Resource Water Budget

Fleet Mix -

Energy Use - adjusted CalEEMod Energy use reflects blended CalEEMod default energy rates for historical and new uses

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	619970	619972
tblAreaCoating	Area_Nonresidential_Interior	1859910	1859916
tblAreaCoating	Area_Parking	206425	115554
tblEnergyUse	LightingElect	1.75	2.33
tblEnergyUse	LightingElect	5.71	6.74
tblEnergyUse	T24E	3.50	3.78
tblEnergyUse	T24E	2.62	3.68
tblEnergyUse	T24NG	0.94	1.05
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	569.50	0.00
tblFireplaces	NumberNoFireplace	67.00	0.00
tblFireplaces	NumberWood	33.50	0.00
tblLandUse	LandUseSquareFeet	1,159,330.00	1,159,332.00
tblLandUse	LandUseSquareFeet	1,514,510.00	1,514,514.00
tblLandUse	LandUseSquareFeet	766,580.00	766,576.00
tblLandUse	LandUseSquareFeet	670,000.00	750,300.00
tblLandUse	LandUseSquareFeet	1,239,940.00	1,239,944.00
tblLandUse	LotAcreage	26.61	4.57
tblLandUse	LotAcreage	17.60	17.62
tblLandUse	LotAcreage	17.63	0.00

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Summer

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

tblLandUse	LotAcreage	28.47	17.04
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	4.91	2.75
tblVehicleTrips	ST_TR	46.12	29.76
tblVehicleTrips	SU_TR	4.09	2.29
tblVehicleTrips	SU_TR	21.10	18.11
tblVehicleTrips	WD_TR	5.44	3.05
tblVehicleTrips	WD_TR	37.75	23.01
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	OutdoorWaterUseRate	27,520,493.87	2,326,926.00
tblWater	OutdoorWaterUseRate	56,292,392.37	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	33.50	0.00
tblWoodstoves	NumberNoncatalytic	33.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Summer

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

2.0 Emissions Summary

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	46.9095	0.6404	55.7001	2.9500e-003		0.3081	0.3081		0.3081	0.3081	0.0000	100.5544	100.5544	0.0980	0.0000	103.0038
Energy	0.2977	2.5855	1.3901	0.0162		0.2057	0.2057		0.2057	0.2057		3,247.1000	3,247.1000	0.0622	0.0595	3,266.3959
Mobile	95.7794	90.7473	959.5029	2.3062	284.0906	1.4655	285.5562	75.7245	1.3630	77.0875		245,637.1728	245,637.1728	13.6695	9.2285	248,728.9920
Total	**142.9865**	**93.9732**	**1,016.5931**	**2.3254**	**284.0906**	**1.9793**	**286.0699**	**75.7245**	**1.8767**	**77.6012**	**0.0000**	**248,984.8271**	**248,984.8271**	**13.8298**	**9.2880**	**252,098.3917**

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Summer

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

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	46.9095	0.6404	55.7001	2.9500e-003		0.3081	0.3081		0.3081	0.3081	0.0000	100.5544	100.5544	0.0980	0.0000	103.0038
Energy	0.2977	2.5855	1.3901	0.0162		0.2057	0.2057		0.2057	0.2057		3,247.1000	3,247.1000	0.0622	0.0595	3,266.3959
Mobile	95.7794	90.7473	959.5029	2.3062	284.0906	1.4655	285.5562	75.7245	1.3630	77.0875		245,637.1728	245,637.1728	13.6695	9.2285	248,728.9920
Total	**142.9865**	**93.9732**	**1,016.5931**	**2.3254**	**284.0906**	**1.9793**	**286.0699**	**75.7245**	**1.8767**	**77.6012**	**0.0000**	**248,984.8271**	**248,984.8271**	**13.8298**	**9.2880**	**252,098.3917**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	lb/day										lb/day					
Mitigated	95.7794	90.7473	959.5029	2.3062	284.0906	1.4655	285.5562	75.7245	1.3630	77.0875		245,637.1728	245,637.1728	13.6695	9.2285	248,728.9920
Unmitigated	95.7794	90.7473	959.5029	2.3062	284.0906	1.4655	285.5562	75.7245	1.3630	77.0875		245,637.1728	245,637.1728	13.6695	9.2285	248,728.9920

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Summer

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,043.50	1,842.50	1534.30	7,475,081	7,475,081
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	28,531.02	36,900.61	22455.31	99,285,025	99,285,025
Total	30,574.52	38,743.11	23,989.61	106,760,106	106,760,106

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	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.550154	0.061804	0.183272	0.123160	0.024103	0.006872	0.015174	0.004915	0.000675	0.000367	0.025200	0.000692	0.003612
Enclosed Parking with Elevator	0.550154	0.061804	0.183272	0.123160	0.024103	0.006872	0.015174	0.004915	0.000675	0.000367	0.025200	0.000692	0.003612
Other Asphalt Surfaces	0.550154	0.061804	0.183272	0.123160	0.024103	0.006872	0.015174	0.004915	0.000675	0.000367	0.025200	0.000692	0.003612
Parking Lot	0.550154	0.061804	0.183272	0.123160	0.024103	0.006872	0.015174	0.004915	0.000675	0.000367	0.025200	0.000692	0.003612
Regional Shopping Center	0.550154	0.061804	0.183272	0.123160	0.024103	0.006872	0.015174	0.004915	0.000675	0.000367	0.025200	0.000692	0.003612

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange 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					
NaturalGas Mitigated	0.2977	2.5855	1.3901	0.0162		0.2057	0.2057		0.2057	0.2057		3,247.1000	3,247.1000	0.0622	0.0595	3,266.3959
NaturalGas Unmitigated	0.2977	2.5855	1.3901	0.0162		0.2057	0.2057		0.2057	0.2057		3,247.1000	3,247.1000	0.0622	0.0595	3,266.3959

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	20466.4	0.2207	1.8861	0.8026	0.0120		0.1525	0.1525		0.1525	0.1525		2,407.8148	2,407.8148	0.0462	0.0441	2,422.1232
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Regional Shopping Center	7133.92	0.0769	0.6994	0.5875	4.2000e-003		0.0532	0.0532		0.0532	0.0532		839.2852	839.2852	0.0161	0.0154	844.2727
Total		**0.2977**	**2.5855**	**1.3901**	**0.0162**		**0.2056**	**0.2056**		**0.2056**	**0.2056**		**3,247.1000**	**3,247.1000**	**0.0622**	**0.0595**	**3,266.3959**

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Summer

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	20.4664	0.2207	1.8861	0.8026	0.0120		0.1525	0.1525		0.1525	0.1525		2,407.8148	2,407.8148	0.0462	0.0441	2,422.1232
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Regional Shopping Center	7.13392	0.0769	0.6994	0.5875	4.2000e-003		0.0532	0.0532		0.0532	0.0532		839.2852	839.2852	0.0161	0.0154	844.2727
Total		**0.2977**	**2.5855**	**1.3901**	**0.0162**		**0.2056**	**0.2056**		**0.2056**	**0.2056**		**3,247.1000**	**3,247.1000**	**0.0622**	**0.0595**	**3,266.3959**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	46.9095	0.6404	55.7001	2.9500e-003		0.3081	0.3081		0.3081	0.3081	0.0000	100.5544	100.5544	0.0980	0.0000	103.0038
Unmitigated	46.9095	0.6404	55.7001	2.9500e-003		0.3081	0.3081		0.3081	0.3081	0.0000	100.5544	100.5544	0.0980	0.0000	103.0038

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange 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

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	4.5821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	40.6254					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	1.7020	0.6404	55.7001	2.9500e-003		0.3081	0.3081		0.3081	0.3081		100.5544	100.5544	0.0980		103.0038
Total	**46.9095**	**0.6404**	**55.7001**	**2.9500e-003**		**0.3081**	**0.3081**		**0.3081**	**0.3081**	**0.0000**	**100.5544**	**100.5544**	**0.0980**	**0.0000**	**103.0038**

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	4.5821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	40.6254					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	1.7020	0.6404	55.7001	2.9500e-003		0.3081	0.3081		0.3081	0.3081		100.5544	100.5544	0.0980		103.0038
Total	**46.9095**	**0.6404**	**55.7001**	**2.9500e-003**		**0.3081**	**0.3081**		**0.3081**	**0.3081**	**0.0000**	**100.5544**	**100.5544**	**0.0980**	**0.0000**	**103.0038**

7.0 Water Detail

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Summer

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

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Winter

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

Brea Mall Mixed-Use Project, Option 2 Operational Run

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	1,159.33	1000sqft	4.57	1,159,332.00	0
Other Asphalt Surfaces	1,514.51	1000sqft	34.77	1,514,514.00	0
Parking Lot	766.58	1000sqft	17.62	766,576.00	0
Apartments Mid Rise	670.00	Dwelling Unit	0.00	750,300.00	1916
Regional Shopping Center	1,239.94	1000sqft	17.04	1,239,944.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2020 SCE Sustainability Report (see assumptions file for calcs)

Land Use - Mall structures have multiple stories, see assumptions file for calcs

Construction Phase -

Vehicle Trips - based on info provided by LLG, see assumptions file for calcs

Woodstoves - no fireplaces assumed for Option 2

Area Coating - accounts only for parking area, see assumptions file for calculations

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Winter

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

Water And Wastewater - assumes 100% aerobic treatment, outdoor water based on the California Department of Water Resource Water Budget

Fleet Mix -

Energy Use - adjusted CalEEMod Energy use reflects blended CalEEMod default energy rates for historical and new uses

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	619970	619972
tblAreaCoating	Area_Nonresidential_Interior	1859910	1859916
tblAreaCoating	Area_Parking	206425	115554
tblEnergyUse	LightingElect	1.75	2.33
tblEnergyUse	LightingElect	5.71	6.74
tblEnergyUse	T24E	3.50	3.78
tblEnergyUse	T24E	2.62	3.68
tblEnergyUse	T24NG	0.94	1.05
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	569.50	0.00
tblFireplaces	NumberNoFireplace	67.00	0.00
tblFireplaces	NumberWood	33.50	0.00
tblLandUse	LandUseSquareFeet	1,159,330.00	1,159,332.00
tblLandUse	LandUseSquareFeet	1,514,510.00	1,514,514.00
tblLandUse	LandUseSquareFeet	766,580.00	766,576.00
tblLandUse	LandUseSquareFeet	670,000.00	750,300.00
tblLandUse	LandUseSquareFeet	1,239,940.00	1,239,944.00
tblLandUse	LotAcreage	26.61	4.57
tblLandUse	LotAcreage	17.60	17.62
tblLandUse	LotAcreage	17.63	0.00

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Winter

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

tblLandUse	LotAcreage	28.47	17.04
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	4.91	2.75
tblVehicleTrips	ST_TR	46.12	29.76
tblVehicleTrips	SU_TR	4.09	2.29
tblVehicleTrips	SU_TR	21.10	18.11
tblVehicleTrips	WD_TR	5.44	3.05
tblVehicleTrips	WD_TR	37.75	23.01
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	OutdoorWaterUseRate	27,520,493.87	2,326,926.00
tblWater	OutdoorWaterUseRate	56,292,392.37	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	33.50	0.00
tblWoodstoves	NumberNoncatalytic	33.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Winter

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

2.0 Emissions Summary

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	46.9095	0.6404	55.7001	2.9500e-003		0.3081	0.3081		0.3081	0.3081	0.0000	100.5544	100.5544	0.0980	0.0000	103.0038
Energy	0.2977	2.5855	1.3901	0.0162		0.2057	0.2057		0.2057	0.2057		3,247.1000	3,247.1000	0.0622	0.0595	3,266.3959
Mobile	94.9536	97.3928	951.5288	2.2190	284.0906	1.4659	285.5566	75.7245	1.3634	77.0879		236,340.0739	236,340.0739	14.0623	9.5905	239,549.6014
Total	**142.1607**	**100.6187**	**1,008.6190**	**2.2382**	**284.0906**	**1.9797**	**286.0703**	**75.7245**	**1.8771**	**77.6016**	**0.0000**	**239,687.7282**	**239,687.7282**	**14.2226**	**9.6500**	**242,919.0010**

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Winter

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

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	46.9095	0.6404	55.7001	2.9500e-003		0.3081	0.3081		0.3081	0.3081	0.0000	100.5544	100.5544	0.0980	0.0000	103.0038
Energy	0.2977	2.5855	1.3901	0.0162		0.2057	0.2057		0.2057	0.2057		3,247.1000	3,247.1000	0.0622	0.0595	3,266.3959
Mobile	94.9536	97.3928	951.5288	2.2190	284.0906	1.4659	285.5566	75.7245	1.3634	77.0879		236,340.0739	236,340.0739	14.0623	9.5905	239,549.6014
Total	**142.1607**	**100.6187**	**1,008.6190**	**2.2382**	**284.0906**	**1.9797**	**286.0703**	**75.7245**	**1.8771**	**77.6016**	**0.0000**	**239,687.7282**	**239,687.7282**	**14.2226**	**9.6500**	**242,919.0010**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	lb/day										lb/day					
Mitigated	94.9536	97.3928	951.5288	2.2190	284.0906	1.4659	285.5566	75.7245	1.3634	77.0879		236,340.0739	236,340.0739	14.0623	9.5905	239,549.6014
Unmitigated	94.9536	97.3928	951.5288	2.2190	284.0906	1.4659	285.5566	75.7245	1.3634	77.0879		236,340.0739	236,340.0739	14.0623	9.5905	239,549.6014

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Winter

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,043.50	1,842.50	1534.30	7,475,081	7,475,081
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	28,531.02	36,900.61	22455.31	99,285,025	99,285,025
Total	30,574.52	38,743.11	23,989.61	106,760,106	106,760,106

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	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.550154	0.061804	0.183272	0.123160	0.024103	0.006872	0.015174	0.004915	0.000675	0.000367	0.025200	0.000692	0.003612
Enclosed Parking with Elevator	0.550154	0.061804	0.183272	0.123160	0.024103	0.006872	0.015174	0.004915	0.000675	0.000367	0.025200	0.000692	0.003612
Other Asphalt Surfaces	0.550154	0.061804	0.183272	0.123160	0.024103	0.006872	0.015174	0.004915	0.000675	0.000367	0.025200	0.000692	0.003612
Parking Lot	0.550154	0.061804	0.183272	0.123160	0.024103	0.006872	0.015174	0.004915	0.000675	0.000367	0.025200	0.000692	0.003612
Regional Shopping Center	0.550154	0.061804	0.183272	0.123160	0.024103	0.006872	0.015174	0.004915	0.000675	0.000367	0.025200	0.000692	0.003612

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange 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					
NaturalGas Mitigated	0.2977	2.5855	1.3901	0.0162		0.2057	0.2057		0.2057	0.2057		3,247.1000	3,247.1000	0.0622	0.0595	3,266.3959
NaturalGas Unmitigated	0.2977	2.5855	1.3901	0.0162		0.2057	0.2057		0.2057	0.2057		3,247.1000	3,247.1000	0.0622	0.0595	3,266.3959

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	20466.4	0.2207	1.8861	0.8026	0.0120		0.1525	0.1525		0.1525	0.1525		2,407.8148	2,407.8148	0.0462	0.0441	2,422.1232
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Regional Shopping Center	7133.92	0.0769	0.6994	0.5875	4.2000e-003		0.0532	0.0532		0.0532	0.0532		839.2852	839.2852	0.0161	0.0154	844.2727
Total		**0.2977**	**2.5855**	**1.3901**	**0.0162**		**0.2056**	**0.2056**		**0.2056**	**0.2056**		**3,247.1000**	**3,247.1000**	**0.0622**	**0.0595**	**3,266.3959**

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Winter

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	20.4664	0.2207	1.8861	0.8026	0.0120		0.1525	0.1525		0.1525	0.1525		2,407.8148	2,407.8148	0.0462	0.0441	2,422.1232
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Regional Shopping Center	7.13392	0.0769	0.6994	0.5875	4.2000e-003		0.0532	0.0532		0.0532	0.0532		839.2852	839.2852	0.0161	0.0154	844.2727
Total		**0.2977**	**2.5855**	**1.3901**	**0.0162**		**0.2056**	**0.2056**		**0.2056**	**0.2056**		**3,247.1000**	**3,247.1000**	**0.0622**	**0.0595**	**3,266.3959**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	46.9095	0.6404	55.7001	2.9500e-003		0.3081	0.3081		0.3081	0.3081	0.0000	100.5544	100.5544	0.0980	0.0000	103.0038
Unmitigated	46.9095	0.6404	55.7001	2.9500e-003		0.3081	0.3081		0.3081	0.3081	0.0000	100.5544	100.5544	0.0980	0.0000	103.0038

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange 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

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	4.5821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	40.6254					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	1.7020	0.6404	55.7001	2.9500e-003		0.3081	0.3081		0.3081	0.3081		100.5544	100.5544	0.0980		103.0038
Total	**46.9095**	**0.6404**	**55.7001**	**2.9500e-003**		**0.3081**	**0.3081**		**0.3081**	**0.3081**	**0.0000**	**100.5544**	**100.5544**	**0.0980**	**0.0000**	**103.0038**

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	4.5821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	40.6254					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	1.7020	0.6404	55.7001	2.9500e-003		0.3081	0.3081		0.3081	0.3081		100.5544	100.5544	0.0980		103.0038
Total	**46.9095**	**0.6404**	**55.7001**	**2.9500e-003**		**0.3081**	**0.3081**		**0.3081**	**0.3081**	**0.0000**	**100.5544**	**100.5544**	**0.0980**	**0.0000**	**103.0038**

Brea Mall Mixed-Use Project, Option 2 Operational Run - Orange County, Winter

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

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

LST Worksheets

Construction Localized Significance Thresholds: Building Demolition

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
16	0.50	25	82	168	550	17.50

Source Receptor	**North Orange County**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**103**	Tractors	0.5	0.0625	8	1	0.5
CO	**522**	Graders	0.5	0.0625			0
PM10	**43.62**	Dozers	0.5	0.0625			0
PM2.5	**16.44**	Scrapers	1	0.125			0
						Acres	0.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	103	104	121	159	252
	1	103	104	121	159	252
		103	104	121	159	252
CO	1	522	685	1014	1975	6531
	1	522	685	1014	1975	6531
		522	685	1014	1975	6531
PM10	1	4	10	24	53	137
	1	4	10	24	53	137
		4	10	24	53	137
PM2.5	1	3	4	9	20	74
	1	3	4	9	20	74
		3	4	9	20	74

North Orange County

0.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	103	104	121	159	252
CO	522	685	1014	1975	6531
PM10	4	10	24	53	137
PM2.5	3	4	9	20	74

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
16	1	16	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building and Asphalt Demolition

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
16	1.00	25	82	168	550	17.50

Source Receptor	**North Orange County**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**103**	Tractors	0.5	0.0625	8	2	1
CO	**522**	Graders	0.5	0.0625			0
PM10	**43.62**	Dozers	0.5	0.0625			0
PM2.5	**16.44**	Scrapers	1	0.125			0
						Acres	1.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	103	104	121	159	252
	1	103	104	121	159	252
		103	104	121	159	252
CO	1	522	685	1014	1975	6531
	1	522	685	1014	1975	6531
		522	685	1014	1975	6531
PM10	1	4	10	24	53	137
	1	4	10	24	53	137
		4	10	24	53	137
PM2.5	1	3	4	9	20	74
	1	3	4	9	20	74
		3	4	9	20	74

North Orange County

1.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	103	104	121	159	252
CO	522	685	1014	1975	6531
PM10	4	10	24	53	137
PM2.5	3	4	9	20	74

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
16	1	16	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building and Asphalt Demolition and Debris Haul

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
16	1.00	25	82	168	550	17.50

Source Receptor	**North Orange County**
Distance (meters)	25
NOx	**103**
CO	**522**
PM10	**43.62**
PM2.5	**16.44**

Equipment	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Tractors	0.5	0.0625			0
Tractors	0.5	0.0625	8	2	1
Graders	0.5	0.0625			0
Dozers	0.5	0.0625			0
Scrapers	1	0.125			0
				Acres	1.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	103	104	121	159	252
	1	103	104	121	159	252
		103	104	121	159	252
CO	1	522	685	1014	1975	6531
	1	522	685	1014	1975	6531
		522	685	1014	1975	6531
PM10	1	4	10	24	53	137
	1	4	10	24	53	137
		4	10	24	53	137
PM2.5	1	3	4	9	20	74
	1	3	4	9	20	74
		3	4	9	20	74

North Orange County

1.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	103	104	121	159	252
CO	522	685	1014	1975	6531
PM10	4	10	24	53	137
PM2.5	3	4	9	20	74

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
16	1	16	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Site Preparation and Soil Haul

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
16	5.00	25	82	168	550	17.50

Source Receptor	**North Orange County**
Distance (meters)	25
NOx	**221**
CO	**1,311**
PM10	**68.62**
PM2.5	**27.85**

Equipment	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Tractors	0.5	0.0625			0
Tractors	0.5	0.0625	8	1	0.5
Graders	0.5	0.0625	8	4	2
Dozers	0.5	0.0625			0
Scrapers	1	0.125	8	8	8
				Acres	10.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	221	212	226	249	317
	5	221	212	226	249	317
		221	212	226	249	317
CO	5	1311	1731	2274	3605	8754
	5	1311	1731	2274	3605	8754
		1311	1731	2274	3605	8754
PM10	5	11	34	49	78	165
	5	11	34	49	78	165
		11	34	49	78	165
PM2.5	5	6	9	15	34	95
	5	6	9	15	34	95
		6	9	15	34	95

North Orange County

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	221	212	226	249	317
CO	1311	1731	2274	3605	8754
PM10	11	34	49	78	165
PM2.5	6	9	15	34	95

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
16	5	16	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Site Preparation and Soil Haul and Retail and Residential Building A Building Construction

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
16	5.00	25	82	168	550	17.50

Source Receptor	**North Orange County**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**221**	Tractors	0.5	0.0625	8	2	1
CO	**1,311**	Graders	0.5	0.0625	8	4	2
PM10	**68.62**	Dozers	0.5	0.0625			0
PM2.5	**27.85**	Scrapers	1	0.125	8	8	8
						Acres	11.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	5	221	212	226	249	317
	5	221	212	226	249	317
		221	212	226	249	317
CO	5	1311	1731	2274	3605	8754
	5	1311	1731	2274	3605	8754
		1311	1731	2274	3605	8754
PM10	5	11	34	49	78	165
	5	11	34	49	78	165
		11	34	49	78	165
PM2.5	5	6	9	15	34	95
	5	6	9	15	34	95
		6	9	15	34	95

North Orange County

5.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	221	212	226	249	317
CO	1311	1731	2274	3605	8754
PM10	11	34	49	78	165
PM2.5	6	9	15	34	95

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
16	5	16	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Retail and Residential Building A Building Construction

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
16	0.50	25	82	168	550	17.50

Source Receptor	**North Orange County**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**103**	Tractors	0.5	0.0625	8	1	0.5
CO	**522**	Graders	0.5	0.0625			0
PM10	**43.62**	Dozers	0.5	0.0625			0
PM2.5	**16.44**	Scrapers	1	0.125			0
						Acres	0.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	103	104	121	159	252
	1	103	104	121	159	252
		103	104	121	159	252
CO	1	522	685	1014	1975	6531
	1	522	685	1014	1975	6531
		522	685	1014	1975	6531
PM10	1	4	10	24	53	137
	1	4	10	24	53	137
		4	10	24	53	137
PM2.5	1	3	4	9	20	74
	1	3	4	9	20	74
		3	4	9	20	74

North Orange County

0.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	103	104	121	159	252
CO	522	685	1014	1975	6531
PM10	4	10	24	53	137
PM2.5	3	4	9	20	74

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
16	1	16	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Retail and Residential Building A Building Construction and Retail Architectural Coating

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
16	0.50	25	82	168	550	17.50

Source Receptor	**North Orange County**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**103**	Tractors	0.5	0.0625	8	1	0.5
CO	**522**	Graders	0.5	0.0625			0
PM10	**43.62**	Dozers	0.5	0.0625			0
PM2.5	**16.44**	Scrapers	1	0.125			0
						Acres	0.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	103	104	121	159	252
	1	103	104	121	159	252
		103	104	121	159	252
CO	1	522	685	1014	1975	6531
	1	522	685	1014	1975	6531
		522	685	1014	1975	6531
PM10	1	4	10	24	53	137
	1	4	10	24	53	137
		4	10	24	53	137
PM2.5	1	3	4	9	20	74
	1	3	4	9	20	74
		3	4	9	20	74

North Orange County

0.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	103	104	121	159	252
CO	522	685	1014	1975	6531
PM10	4	10	24	53	137
PM2.5	3	4	9	20	74

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
16	1	16	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Retail and Residential Building A Building Construction, Paving, and Finishing/Landscaping

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
16	1.50	25	82	168	550	17.50

Source Receptor	**North Orange County**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**125**	Tractors	0.5	0.0625	8	2	1
CO	**642**	Graders	0.5	0.0625	8	1	0.5
PM10	**47.12**	Dozers	0.5	0.0625			0
PM2.5	**18.12**	Scrapers	1	0.125			0
						Acres	1.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	103	104	121	159	252
	2	147	143	156	186	269
		125	124	139	173	261
CO	1	522	685	1014	1975	6531
	2	762	1010	1395	2444	7121
		642	848	1205	2210	6826
PM10	1	4	10	24	53	137
	2	6	17	31	60	145
		5	14	28	57	141
PM2.5	1	3	4	9	20	74
	2	4	6	11	24	79
		4	5	10	22	77

North Orange County

1.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	125	124	139	173	261
CO	642	848	1205	2210	6826
PM10	5	14	28	57	141
PM2.5	4	5	10	22	77

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
16	1	16	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Retail and Residential Building A Building Construction and Finishing/Landscaping

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
16	1.00	25	82	168	550	17.50

Source Receptor	**North Orange County**
Distance (meters)	25
NOx	**103**
CO	**522**
PM10	**43.62**
PM2.5	**16.44**

Equipment	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Tractors	0.5	0.0625			0
Tractors	0.5	0.0625	8	1	0.5
Graders	0.5	0.0625	8	1	0.5
Dozers	0.5	0.0625			0
Scrapers	1	0.125			0
				Acres	1.00

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	103	104	121	159	252
	1	103	104	121	159	252
		103	104	121	159	252
CO	1	522	685	1014	1975	6531
	1	522	685	1014	1975	6531
		522	685	1014	1975	6531
PM10	1	4	10	24	53	137
	1	4	10	24	53	137
		4	10	24	53	137
PM2.5	1	3	4	9	20	74
	1	3	4	9	20	74
		3	4	9	20	74

North Orange County

1.00 Acres

	25	**50**	**100**	**200**	**500**
NOx	103	104	121	159	252
CO	522	685	1014	1975	6531
PM10	4	10	24	53	137
PM2.5	3	4	9	20	74

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
16	1	16	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Retail and Residential Building A Building Construction and Residential Building A Architectural Coating

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
16	0.50	25	82	168	550	17.50

Source Receptor	**North Orange County**
Distance (meters)	25
NOx	**103**
CO	**522**
PM10	**43.62**
PM2.5	**16.44**

Equipment	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Tractors	0.5	0.0625			0
Tractors	0.5	0.0625	8	1	0.5
Graders	0.5	0.0625			0
Dozers	0.5	0.0625			0
Scrapers	1	0.125			0
				Acres	0.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	103	104	121	159	252
	1	103	104	121	159	252
		103	104	121	159	252
CO	1	522	685	1014	1975	6531
	1	522	685	1014	1975	6531
		522	685	1014	1975	6531
PM10	1	4	10	24	53	137
	1	4	10	24	53	137
		4	10	24	53	137
PM2.5	1	3	4	9	20	74
	1	3	4	9	20	74
		3	4	9	20	74

North Orange County

0.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	103	104	121	159	252
CO	522	685	1014	1975	6531
PM10	4	10	24	53	137
PM2.5	3	4	9	20	74

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
16	1	16	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Residential Building B Building Construction

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
16	0.50	25	82	168	550	17.50

Source Receptor	**North Orange County**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**103**	Tractors	0.5	0.0625	8	1	0.5
CO	**522**	Graders	0.5	0.0625			0
PM10	**43.62**	Dozers	0.5	0.0625			0
PM2.5	**16.44**	Scrapers	1	0.125			0
						Acres	0.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	103	104	121	159	252
	1	103	104	121	159	252
		103	104	121	159	252
CO	1	522	685	1014	1975	6531
	1	522	685	1014	1975	6531
		522	685	1014	1975	6531
PM10	1	4	10	24	53	137
	1	4	10	24	53	137
		4	10	24	53	137
PM2.5	1	3	4	9	20	74
	1	3	4	9	20	74
		3	4	9	20	74

North Orange County

0.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	103	104	121	159	252
CO	522	685	1014	1975	6531
PM10	4	10	24	53	137
PM2.5	3	4	9	20	74

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
16	1	16	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Residential Building B Building Construction and Residential Building B Architectural Coating

		NOx & CO		*PM10 & PM2.5*		
SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Construction / Project Site Size (Acres)
16	0.50	25	82	168	550	17.50

Source Receptor	**North Orange County**	**Equipment**	**Acres/8-hr Day**		**Daily hours**	**Equipment Used**	**Acres**
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	**103**	Tractors	0.5	0.0625	8	1	0.5
CO	**522**	Graders	0.5	0.0625			0
PM10	**43.62**	Dozers	0.5	0.0625			0
PM2.5	**16.44**	Scrapers	1	0.125			0
						Acres	0.50

	Acres	**25**	**50**	**100**	**200**	**500**
NOx	1	103	104	121	159	252
	1	103	104	121	159	252
		103	104	121	159	252
CO	1	522	685	1014	1975	6531
	1	522	685	1014	1975	6531
		522	685	1014	1975	6531
PM10	1	4	10	24	53	137
	1	4	10	24	53	137
		4	10	24	53	137
PM2.5	1	3	4	9	20	74
	1	3	4	9	20	74
		3	4	9	20	74

North Orange County

0.50 Acres

	25	**50**	**100**	**200**	**500**
NOx	103	104	121	159	252
CO	522	685	1014	1975	6531
PM10	4	10	24	53	137
PM2.5	3	4	9	20	74

Acre Below		**Acre Above**	
SRA No.	Acres	SRA No.	Acres
16	1	16	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

SUMMARY OF MODEL CHANGES BETWEEN THE DRAFT EIR AND FINAL EIR

Air Quality

Table 5.2-5,Brea Mall Existing Criteria Air Pollutant Emissions

» Model: While the inputs into the model were the same for existing conditions between the two models, the 2021 model run used CalEEMod Version 2020.4 as compared to the 2019 model run, which used CalEEMod Version 2016.3.2. CalEEMod Version 2020.4 uses different emission and energy rates than Version 2016.3.2. CalEEMod Version 2020.4 uses mobile emission rate data from EMFAC 2017 while CalEEMod Version 2016.3.2 used data from EMFAC 2014. Within CalEEMod, EMFAC 2017 generally has lower emission rates for NOx for light duty vehicles and higher VOC emission rates for light duty vehicles, which is reflected in the 2021 model run outputs. Energy use from both models accounted for the 2019 Building Energy Efficiency Standards. While CalEEMod 2020.4 has the 2019 Title 24 standards built into the model, CalEEMod Version 2016.3.2 uses the 2016 Title 24 standards. The 2019 model run assumed a 30 percent improvement over the 2016 Title 24 Standards to account for the 2019 Title 24 standards, based on the assumptions from the CEC.[1] However, the 2019 Title 24 Standards incorporated into CalEEMod Version 2020.4 were based on a separate set of assumptions from NORESCO, which shows a comparatively lower energy savings.[2]

Table 5.2-10, Maximum Daily Regional Construction Emissions / Table 5.2-13, Localized Construction Emissions / Table 5.2-14, Construction Risk Summary

» Workdays: The 2021 model run assumed 870 workdays, as compared to 576 workdays in the 2019 model run. A higher number of workdays would result in higher annual emissions.

» Worker/Vendor Trips: The 2021 model run used default construction vendor trips and worker trips in the absence of project-specific data for the revised project. Overall, these trips were higher than those assumed for the 2019, which resulted in higher emissions during construction of the project.

» Model: The 2021 model run used CalEEMod Version 2020.4 as compared to the 2019 model run, which used CalEEMod Version 2016.3.2. CalEEMod Version 2020.4 uses different emission rates for off-road vehicles than Version 2016.3.2.

» Building Area: The 2021 model run used the building area and construction data from the revised project received in 2021. The revised project has a net reduction of mall/retail space by -64,200 square feet and a net increase in residential square feet by 55,553 (or 78 units). Overall, this would result in a net decrease in construction emissions.

[1] California Energy Commission (CEC). 2018, March. 2019 Building Energy Efficiency Standards Frequently Asked Questions. https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf

[2] NORESCO. 2018. 2019 Update to the California Energy Efficiency Standards for Residential and Non-Residential Buildings

Table 5.2-11, Brea Mall Mixed-Use Project Regional Operation Emissions

» Model: The 2021 model run used CalEEMod Version 2020.4 as compared to the 2019 model run, which used CalEEMod Version 2016.3.2. CalEEMod Version 2020.4 uses different emission rates than Version 2016.3.2. CalEEMod Version 2020.4 uses mobile emission rate data from EMFAC 2017 while CalEEMod Version 2016.3.2 used data from EMFAC 2014. Within CalEEMod, EMFAC 2017 generally has lower emission rates for NOx for light duty vehicles and higher VOC emission rates for light duty vehicles, which is reflected in the 2021 model run outputs. Energy use from both models accounted for the 2019 Building Energy Efficiency Standards. While CalEEMod 2020.4 has the 2019 Title 24 standards built into the model, CalEEMod Version 2016.3.2 uses the 2016 Title 24 standards. The 2019 model run assumed a 30 percent improvement over the 2016 Title 24 Standards to account for the 2019 Title 24 standards, based on the assumptions from the CEC.[3] However, the 2019 Title 24 Standards incorporated into CalEEMod Version 2020.4 were based on a separate set of assumptions from NORESCO, which shows a comparatively lower energy savings.[4]

» Operational Years: The 2021 model run used an operational year of 2025 as compared to the 2019 model run, which used an operational year of 2022.

» Building Area: The 2021 model run used the building area and construction data from the revised project received in 2021. The revised project has a net reduction of mall/retail space by -64,200 square feet and a net increase in residential square feet by 55,553 (or 78 units).

» Mobile Emissions: The 2021 model run used the trips generated for the revised project, which showed an overall reduction in trips compared to the 2019 model run. This resulted in a net decrease in operational mobile emissions.

» Energy emissions: Modeling uses the information from the 2020 SCE Sustainability Report for carbon intensity values in the 2021 model run (509.98 pounds per megawatt hour [lbs/MWH]) as compared to the 2019 model run, which used information from the 2018 SCE Sustainability Report (504.43 lbs/MWH). This would result in an increase in energy use in the 2021 model run.

Energy

Table 5.4-1, Electricity Consumption

» Model: While the inputs into the model were the same for existing conditions between the two models, the 2021 model run used CalEEMod Version 2020.4 as compared to the 2019 model run, which used CalEEMod Version 2016.3.2. CalEEMod Version 2020.4 uses different energy rates than Version 2016.3.2. Energy use from both models accounted for the 2019 Building Energy Efficiency Standards. While CalEEMod 2020.4 has the 2019 Title 24 standards built into the model, CalEEMod Version 2016.3.2 uses the 2016 Title 24 standards. The 2019 model run assumed a 30 percent improvement over the 2016 Title 24 Standards to account for the 2019 Title 24 standards, based on the assumptions from the CEC.[5] However, the 2019 Title 24 Standards incorporated into

[3] California Energy Commission (CEC). 2018, March. 2019 Building Energy Efficiency Standards Frequently Asked Questions. https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf

[4] NORESCO. 2018. 2019 Update to the California Energy Efficiency Standards for Residential and Non-Residential Buildings

[5] California Energy Commission (CEC). 2018, March. 2019 Building Energy Efficiency Standards Frequently Asked Questions. https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf

CalEEMod Version 2020.4 were based on a separate set of assumptions from NORESCO, which shows a comparatively lower energy savings.[6]

Table 5.4-3, Construction-Related Fuel Usage

» Workdays: The 2021 model run assumed 870 workdays, as compared to 576 workdays in the 2019 model run. A higher number of workdays would result in higher annual fuel use.

» Worker/Vendor Trips: The 2021 model run used default construction vendor trips and worker trips in the absence of project-specific data for the revised project. Overall, these trips were higher than those assumed for the 2019 run, which resulted in higher fuel use during construction of the project.

Table 5.4-4, Brea Mall Mixed Use Project Electricity Consumption

» Building Area: The 2021 model run used the building area and construction data from the revised project received in 2021. The revised project had net increase in residential square feet by 55,553 (or 78 units), which contributed to a higher energy use for the apartment uses.

» Model: The 2021 model run used CalEEMod Version 2020.4 as compared to the 2019 model run, which used CalEEMod Version 2016.3.2. CalEEMod Version 2020.4 uses different emission rates than Version 2016.3.2. For uses such as the parking structure, fitness center, and shopping center, Version 2020.4 had higher emission rates than Version 2016.3.2.

» 'Blended' Rates: Both the 2019 model run and 2021 model run used blended rates to account for existing uses to remain, but the 2019 model run also included the additional 30 percent reduction to account for the 2019 Building and Energy Efficiency Standards of Title 24 (T24). The 2021 model run also included blended energy rates for lighting, which were not done in the 2019 model run (only did T24 blended energy). The 2021 model run also incorporated the NORESCO study rates as part of the model.

Greenhouse Gas Emissions

Table 5.5-5, Existing GHG Emissions Inventory

» Model: While the inputs into the model were the same for existing conditions between the two models, the 2021 model run used CalEEMod Version 2020.4 as compared to the 2019 model run, which used CalEEMod Version 2016.3.2. CalEEMod Version 2020.4 uses different emission rates than Version 2016.3.2. CalEEMod Version 2020.4 uses mobile emission rate data from EMFAC 2017 while CalEEMod Version 2016.3.2 used data from EMFAC 2014. Within CalEEMod, EMFAC 2017 generally has lower emission rates based on the assumptions that newer vehicle models are more efficient than older models and that older vehicle models are removed from circulation over time. Energy use from both models accounted for the 2019 Building Energy Efficiency Standards. While CalEEMod 2020.4 has the 2019 Title 24 standards built into the model, CalEEMod Version 2016.3.2 uses the 2016 Title 24 standards. The 2019 model run assumed a 30 percent improvement over the 2016 Title 24 Standards, based on the assumptions from the CEC.[7] However, the 2019 Title 24 Standards

[6] NORESCO. 2018. 2019 Update to the California Energy Efficiency Standards for Residential and Non-Residential Buildings

[7] California Energy Commission (CEC). 2018, March. 2019 Building Energy Efficiency Standards Frequently Asked Questions. https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf

incorporated into CalEEMod Version 2020.4 were based on a separate set of assumptions from NORESCO, which shows a comparatively lower energy savings.[8]

» Energy emissions: Modeling uses the default carbon intensity values from CalEEMod in the 2021 existing conditions model run (531.44) as compared to the 2019 model run, which used information from the 2018 SCE Sustainability Report (504.43). This would result in an increase in energy use in the 2021 model run.

Table 5.5-6, Project-Related GHG Emissions

» Model: The 2021 model run used CalEEMod Version 2020.4 as compared to the 2019 model run, which used CalEEMod Version 2016.3.2. CalEEMod Version 2020.4 uses different emission rates than Version 2016.3.2. CalEEMod Version 2020.4 uses mobile emission rate data from EMFAC 2017 while CalEEMod Version 2016.3.2 used data from EMFAC 2014. Within CalEEMod, EMFAC 2017 generally has lower emission rates based on the assumptions that newer vehicle models are more efficient than older models and that older vehicle models are removed from circulation over time. Energy use from both models accounted for the 2019 Building Energy Efficiency Standards. While CalEEMod 2020.4 has the 2019 Title 24 standards built into the model, CalEEMod Version 2016.3.2 uses the 2016 Title 24 standards. The 2019 model run assumed a 30 percent improvement over the 2016 Title 24 Standards, based on the assumptions from the CEC.[9] However, the 2019 Title 24 Standards incorporated into CalEEMod Version 2020.4 were based on a separate set of assumptions from NORESCO, which shows a comparatively lower energy savings.[10]

» Operational Years: The 2021 model run used an operational year of 2025 as compared to the 2019 model run, which used an operational year of 2022.

» Building Area: The 2021 model run used the building area and construction data from the revised project received in 2021. The revised project has a net reduction of mall/retail space by -64,200 square feet and a net increase in residential square feet by 55,553 (or 78 units).

» Mobile Emissions: The 2021 model run used the trips generated for the revised project, which showed an overall reduction in trips compared to the 2019 model run. This resulted in a net decrease in operational mobile emissions.

[8] NORESCO. 2018. 2019 Update to the California Energy Efficiency Standards for Residential and Non-Residential Buildings

[9] California Energy Commission (CEC). 2018, March. 2019 Building Energy Efficiency Standards Frequently Asked Questions. https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf

[10] NORESCO. 2018. 2019 Update to the California Energy Efficiency Standards for Residential and Non-Residential Buildings