

Appendix B Air Quality and GHG Emissions Data

Appendices

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Air Quality and Greenhouse Gas Appendix

Emissions Worksheet

Regional Construction Emissions Worksheet (Phase 1):

Site Preparation							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2024 Winter					
	Fugitive Dust					8.40	4.32
	Off-Road	2.66	27.18	18.34	0.04	1.23	1.13
	Total	2.66	27.18	18.34	0.04	9.63	5.45
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.67	0.27	0.00	0.11	0.04
	Worker	0.06	0.04	0.52	0.00	0.19	0.05
	Total	0.08	0.71	0.79	0.00	0.30	0.09
TOTAL		2.74	27.89	19.12	0.04	9.93	5.54
Onsite		2024					
	Fugitive Dust	0.00	0.00	0.00	0.00	8.40	4.32
	Off-Road	2.66	27.18	18.34	0.04	1.23	1.13
	Total	2.66	27.18	18.34	0.04	9.63	5.45
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.67	0.27	0.00	0.11	0.04
	Worker	0.06	0.04	0.52	0.00	0.19	0.05
	Total	0.08	0.71	0.79	0.00	0.30	0.09
TOTAL		2.74	27.89	19.12	0.04	9.93	5.54

Site Preparation Soil Haul							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2024 Winter					
	Fugitive Dust					0.06	0.01
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.00	0.00	0.00	0.00	0.06	0.01
Offsite							
	Hauling	0.37	19.63	5.77	0.09	2.95	0.95
	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	0.37	19.63	5.77	0.09	2.95	0.95
TOTAL		0.37	19.63	5.77	0.09	3.01	0.96
Onsite		2024					
	Fugitive Dust	0.00	0.00	0.00	0.00	0.06	0.01
	Off-Road	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.00	0.00	0.00	0.00	0.06	0.01
Offsite							
	Hauling	0.37	19.63	5.77	0.09	2.95	0.95
	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	0.37	19.63	5.77	0.09	2.95	0.95
TOTAL		0.37	19.63	5.77	0.09	3.01	0.96

Rough Grading 2024							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2024 Winter					
	Fugitive Dust					3.93	1.56
	Off-Road	3.22	32.38	27.72	0.06	1.34	1.23
	Total	3.22	32.38	27.72	0.06	5.27	2.79
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.75	0.30	0.00	0.13	0.04
	Worker	0.07	0.04	0.58	0.00	0.21	0.06
	Total	0.09	0.79	0.87	0.01	0.33	0.10
TOTAL		3.31	33.17	28.60	0.07	5.60	2.89
Onsite		2024					
	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road	3.22	32.38	27.72	0.06	1.34	1.23
	Total	3.22	32.38	27.72	0.06	5.27	2.79
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.75	0.30	0.00	0.13	0.04
	Worker	0.07	0.04	0.58	0.00	0.21	0.06
	Total	0.09	0.79	0.87	0.01	0.33	0.10
TOTAL		3.31	33.17	28.60	0.07	5.60	2.89

Rough Grading 2025							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2025 Winter					
	Fugitive Dust					3.93	1.56
	Off-Road	2.90	27.94	26.33	0.06	1.13	1.04
	Total	2.90	27.94	26.33	0.06	5.07	2.60
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.74	0.29	0.00	0.13	0.04
	Worker	0.07	0.04	0.53	0.00	0.21	0.06
	Total	0.09	0.78	0.83	0.01	0.33	0.10
TOTAL		2.99	28.73	27.16	0.07	5.40	2.70
Onsite		2025					
	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road	2.90	27.94	26.33	0.06	1.13	1.04
	Total	2.90	27.94	26.33	0.06	5.07	2.60
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.74	0.29	0.00	0.13	0.04
	Worker	0.07	0.04	0.53	0.00	0.21	0.06
	Total	0.09	0.78	0.83	0.01	0.33	0.10
TOTAL		2.99	28.73	27.16	0.07	5.40	2.70
Utility Trenching 2024							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2024 Winter					
	Off-Road	0.18	1.40	3.27	0.01	0.07	0.06
	Total	0.18	1.40	3.27	0.01	0.07	0.06
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	0.09	0.00	0.03	0.01
	Total	0.01	0.01	0.09	0.00	0.03	0.01
TOTAL		0.19	1.41	3.35	0.01	0.10	0.07
Onsite		2024					
	Off-Road	0.18	1.40	3.27	0.01	0.07	0.06
	Total	0.18	1.40	3.27	0.01	0.07	0.06
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	0.09	0.00	0.03	0.01
	Total	0.01	0.01	0.09	0.00	0.03	0.01
TOTAL		0.19	1.41	3.35	0.01	0.10	0.07
Utility Trenching 2025							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2025 Winter					
	Off-Road	0.17	1.22	3.26	0.01	0.06	0.06
	Total	0.17	1.22	3.26	0.01	0.06	0.06
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		0.18	1.23	3.34	0.01	0.09	0.06
Onsite		2025					
	Off-Road	0.17	1.22	3.26	0.01	0.06	0.06
	Total	0.17	1.22	3.26	0.01	0.06	0.06
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		0.18	1.23	3.34	0.01	0.09	0.06

Fine Grading 2025							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2025 Winter					
	Fugitive Dust					3.96	1.57
	Off-Road	2.90	27.94	26.33	0.06	1.13	1.04
	Total	2.90	27.94	26.33	0.06	5.10	2.61
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.74	0.29	0.00	0.13	0.04
	Worker	0.07	0.04	0.53	0.00	0.21	0.06
	Total	0.09	0.78	0.83	0.01	0.33	0.10
TOTAL		2.99	28.73	27.16	0.07	5.43	2.70
Onsite		2025					
	Fugitive Dust	0.00	0.00	0.00	0.00	3.96	1.57
	Off-Road	2.90	27.94	26.33	0.06	1.13	1.04
	Total	2.90	27.94	26.33	0.06	5.10	2.61
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.74	0.29	0.00	0.13	0.04
	Worker	0.07	0.04	0.53	0.00	0.21	0.06
	Total	0.09	0.78	0.83	0.01	0.33	0.10
TOTAL		2.99	28.73	27.16	0.07	5.43	2.70

Paving 2025							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2025 Winter					
	Off-Road	0.92	8.58	14.58	0.02	0.42	0.39
	Paving	0.56				0.00	0.00
	Total	1.48	8.58	14.58	0.02	0.42	0.39
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	0.05	0.03	0.40	0.00	0.16	0.04
	Total	0.05	0.03	0.40	0.00	0.16	0.04
TOTAL		1.53	8.61	14.98	0.02	0.57	0.43
Onsite		2025					
	Off-Road	0.92	8.58	14.58	0.02	0.42	0.39
	Paving	0.56	0.00	0.00	0.00	0.00	0.00
	Total	1.48	8.58	14.58	0.02	0.42	0.39
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	0.05	0.03	0.40	0.00	0.16	0.04
	Total	0.05	0.03	0.40	0.00	0.16	0.04
TOTAL		1.53	8.61	14.98	0.02	0.57	0.43

Building Construction 2025							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2025 Winter					
	Off-Road	1.37	12.47	16.08	0.03	0.53	0.50
	Total	1.37	12.47	16.08	0.03	0.53	0.50
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.12	4.31	1.70	0.02	0.73	0.23
	Worker	0.97	0.58	7.91	0.03	3.06	0.83
	Total	1.09	4.89	9.61	0.05	3.79	1.06
TOTAL		2.46	17.36	25.70	0.07	4.32	1.56
Onsite		2025					
	Off-Road	1.37	12.47	16.08	0.03	0.53	0.50
	Total	1.37	12.47	16.08	0.03	0.53	0.50
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.12	4.31	1.70	0.02	0.73	0.23
	Worker	0.97	0.58	7.91	0.03	3.06	0.83
	Total	1.09	4.89	9.61	0.05	3.79	1.06
TOTAL		2.46	17.36	25.70	0.07	4.32	1.56

Building Construction 2026							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2026 Winter					
	Off-Road	1.37	12.47	16.08	0.03	0.53	0.50
	Total	1.37	12.47	16.08	0.03	0.53	0.50
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.12	4.28	1.68	0.02	0.73	0.23
	Worker	0.91	0.52	7.39	0.02	3.06	0.83
	Total	1.02	4.80	9.08	0.04	3.79	1.06
TOTAL		2.39	17.27	25.16	0.07	4.32	1.55
Onsite		2026					
	Off-Road	1.37	12.47	16.08	0.03	0.53	0.50
	Total	1.37	12.47	16.08	0.03	0.53	0.50
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.12	4.28	1.68	0.02	0.73	0.23
	Worker	0.91	0.52	7.39	0.02	3.06	0.83
	Total	1.02	4.80	9.08	0.04	3.79	1.06
TOTAL		2.39	17.27	25.16	0.07	4.32	1.55

Paving 2026							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2026 Winter					
	Off-Road	0.92	8.58	14.58	0.02	0.42	0.39
	Paving	0.74				0.00	0.00
	Total	1.65	8.58	14.58	0.02	0.42	0.39
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	0.05	0.03	0.37	0.00	0.16	0.04
	Total	0.05	0.03	0.37	0.00	0.16	0.04
TOTAL		1.70	8.61	14.95	0.02	0.57	0.43
Onsite		2026					
	Off-Road	0.92	8.58	14.58	0.02	0.42	0.39
	Paving	0.74	0.00	0.00	0.00	0.00	0.00
	Total	1.65	8.58	14.58	0.02	0.42	0.39
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	0.05	0.03	0.37	0.00	0.16	0.04
	Total	0.05	0.03	0.37	0.00	0.16	0.04
TOTAL		1.70	8.61	14.95	0.02	0.57	0.43

Architectural Coating							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2026 Winter					
	Archit. Coating	30.65				0.00	0.00
	Off-Road	0.17	1.15	1.81	0.00	0.05	0.05
	Total	30.82	1.15	1.81	0.00	0.05	0.05
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	0.18	0.10	1.47	0.00	0.61	0.16
	Total	0.18	0.10	1.47	0.00	0.61	0.16
TOTAL		31.00	1.25	3.28	0.01	0.66	0.22
Onsite		2026					
	Archit. Coating	30.65	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.17	1.15	1.81	0.00	0.05	0.05
	Total	30.82	1.15	1.81	0.00	0.05	0.05
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	0.18	0.10	1.47	0.00	0.61	0.16
	Total	0.18	0.10	1.47	0.00	0.61	0.16
TOTAL		31.00	1.25	3.28	0.01	0.66	0.22

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
<i>Site Preparation</i>	3	28	19	0	10	6
<i>Site Preparation and Soil Haul</i>	3	48	25	0	13	6
<i>Site Preparation and Soil Haul and Rough Grading 2024</i>	6	81	53	0	19	9
<i>Rough Grading 2024</i>	3	33	29	0	6	3
<i>Rough Grading and Utilities Trenching 2024</i>	4	35	32	0	6	3
<i>Rough Grading and Utilities Trenching 2025</i>	3	30	30	0	5	3
<i>Rough Grading, Utilities Trenching, and Fine Grading 2025</i>	6	59	58	0	11	5
<i>Fine Grading 2025</i>	3	29	27	0	5	3
<i>Fine Grading and Paving 2025</i>	5	37	42	0	6	3
<i>Paving 2025</i>	2	9	15	0	1	0
<i>Paving 2025 and Building Construction 2025</i>	4	26	41	0	5	2
<i>Building Construction 2025</i>	2	17	26	0	4	2
<i>Building Construction 2026</i>	2	17	25	0	4	2
<i>Building Construction 2026, Paving 2026, and Architectural Coating</i>	35	27	43	0	6	2
MAX DAILY	35	81	58	0	19	9
Regional Thresholds	75	100	550	150	150	55
Exceeds Thresholds?	No	No	No	No	No	No

Construction LST Worksheet (Phase 1):

**NOx and CO LSTs based on 82 ft receptor (employees), PM10 and PM2.5 LSTs based on 160 ft receptor (residences) as employees would not be on campus 24hrs/day

Site Preparation						
		2024	NOx	CO	PM10 Total	PM2.5 Total
Onsite		2024				
	Fugitive Dust				8.40	4.32
	Off-Road		27.18	18.34	1.23	1.13
	Total		27.18	18.34	9.63	5.45
TOTAL			27.18	18.34	9.63	5.45
Onsite		2024				
	Fugitive Dust		0.00	0.00	8.40	4.32
	Off-Road		27.18	18.34	1.23	1.13
	Total		27.18	18.34	9.63	5.45
TOTAL			27.18	18.34	9.63	5.45
Site Preparation and Soil Haul						
		2024	NOx	CO	PM10 Total	PM2.5 Total
Onsite		2024				
	Fugitive Dust				0.06	0.01
	Off-Road		0.00	0.00	0.00	0.00
	Total		0.00	0.00	0.06	0.01
TOTAL			0.00	0.00	0.06	0.01
Onsite		2024				
	Fugitive Dust		0.00	0.00	0.06	0.01
	Off-Road		0.00	0.00	0.00	0.00
	Total		0.00	0.00	0.06	0.01
TOTAL			0.00	0.00	0.06	0.01
Rough Grading 2024						
		2024	NOx	CO	PM10 Total	PM2.5 Total
Onsite		2024				
	Fugitive Dust				3.93	1.56
	Off-Road		32.38	27.72	1.34	1.23
	Total		32.38	27.72	5.27	2.79
TOTAL			32.38	27.72	5.27	2.79
Onsite		2024				
	Fugitive Dust		0.00	0.00	3.93	1.56
	Off-Road		32.38	27.72	1.34	1.23
	Total		32.38	27.72	5.27	2.79
TOTAL			32.38	27.72	5.27	2.79
Rough Grading 2025						
		2025	NOx	CO	PM10 Total	PM2.5 Total
Onsite		2025				
	Fugitive Dust				3.93	1.56
	Off-Road		27.94	26.33	1.13	1.04
	Total		27.94	26.33	5.07	2.60
TOTAL			27.94	26.33	5.07	2.60
Onsite		2025				
	Fugitive Dust		0.00	0.00	3.93	1.56
	Off-Road		27.94	26.33	1.13	1.04
	Total		27.94	26.33	5.07	2.60
TOTAL			27.94	26.33	5.07	2.60

Utility Trenching 2024						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2024				
	Off-Road		1.41	3.28	0.07	0.06
	Total		1.41	3.28	0.07	0.06
TOTAL			1.41	3.28	0.07	0.06
Onsite		2024				
	Off-Road		1.41	3.28	0.07	0.06
	Total		1.41	3.28	0.07	0.06
TOTAL			1.41	3.28	0.07	0.06
Utility Trenching 2025						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2025				
	Off-Road		1.22	3.26	0.06	0.06
	Total		1.22	3.26	0.06	0.06
TOTAL			1.22	3.26	0.06	0.06
Onsite		2025				
	Off-Road		1.22	3.26	0.06	0.06
	Total		1.22	3.26	0.06	0.06
TOTAL			1.22	3.26	0.06	0.06
Fine Grading 2025						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2025				
	Fugitive Dust				3.96	1.57
	Off-Road		27.94	26.33	1.13	1.04
	Total		27.94	26.33	5.10	2.61
TOTAL			27.94	26.33	5.10	2.61
Onsite		2025				
	Fugitive Dust		0.00	0.00	3.96	1.57
	Off-Road		27.94	26.33	1.13	1.04
	Total		27.94	26.33	5.10	2.61
TOTAL			27.94	26.33	5.10	2.61
Paving 2025						
			Nox	CO	PM10 Total	PM2.5 Total
Onsite		2025				
	Off-Road		8.58	14.58	0.42	0.39
	Paving				0.00	0.00
	Total		8.58	14.58	0.42	0.39
TOTAL			8.58	14.58	0.42	0.39
Onsite		2025				
	Off-Road		8.58	14.58	0.42	0.39
	Paving		0.00	0.00	0.00	0.00
	Total		8.58	14.58	0.42	0.39
TOTAL			8.58	14.58	0.42	0.39
Building Construction 2025						
			NOx	CO	PM10 Total	PM2.5 Total
TOTAL			0.00	0.00	0.00	0.00
Onsite		2025				
	Off-Road		12.47	16.08	0.53	0.50
	Total		12.47	16.08	0.53	0.50
TOTAL			12.47	16.08	0.53	0.50
Onsite		2025				
	Off-Road		12.47	16.08	0.53	0.50
	Total		12.47	16.08	0.53	0.50
TOTAL			12.47	16.08	0.53	0.50

Building Construction 2026						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2026				
	Off-Road		12.47	16.08	0.53	0.50
	Total		12.47	16.08	0.53	0.50
TOTAL			12.47	16.08	0.53	0.50
Onsite		2026				
	Off-Road		12.47	16.08	0.53	0.50
	Total		12.47	16.08	0.53	0.50
TOTAL			12.47	16.08	0.53	0.50
Paving 2026						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2026				
	Off-Road		8.58	14.58	0.42	0.39
	Paving				0.00	0.00
	Total		8.58	14.58	0.42	0.39
TOTAL			8.58	14.58	0.42	0.39
Onsite		2026				
	Off-Road		8.58	14.58	0.42	0.39
	Paving		0.00	0.00	0.00	0.00
	Total		8.58	14.58	0.42	0.39
TOTAL			8.58	14.58	0.42	0.39
Architectural Coating						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2024				
	Archit. Coating				0.00	0.00
	Off-Road		1.15	1.81	0.05	0.05
	Total		1.15	1.81	0.05	0.05
TOTAL			1.15	1.81	0.05	0.05
Onsite		2024				
	Archit. Coating		0.00	0.00	0.00	0.00
	Off-Road		1.15	1.81	0.05	0.05
	Total		1.15	1.81	0.05	0.05
TOTAL			1.15	1.81	0.05	0.05
			NOx	CO	PM10 Total	PM2.5 Total
Site Preparation			27	18	9.63	5.45
	3.50 Acre LST		220	1,359	31.89	7.90
	Exceeds LST?		no	no	no	no
Site Preparation and Soil Haul			27	18	9.70	5.46
	3.50 Acre LST		220	1,359	31.89	7.90
	Exceeds LST?		no	no	no	no
Site Preparation and Soil Haul and Rough Grading			60	46	14.97	8.25
	5.00 Acre LST		270	1,746	42.52	9.90
	Exceeds LST?		no	no	no	no
Rough Grading 2024			32	28	5.27	2.79
	4.00 Acre LST		237	1,488	35.43	8.57
	Exceeds LST?		no	no	no	no

Rough Grading and Utilities Trenching 2024	34	31	5.34	2.85
4.00 Acre LST	237	1,488	35.43	8.57
Exceeds LST?	no	no	no	no
Rough Grading and Utilities Trenching 2025	29	30	5.13	2.66
4.00 Acre LST	237	1,488	35.43	8.57
Exceeds LST?	no	no	no	no
Rough Grading, Utilities Trenching, and Fine Grading 2025	57	56	10.22	5.26
≥5.00 Acre LST	270	1,746	42.52	9.90
Exceeds LST?	no	no	no	no
Fine Grading 2025	28	26	5.10	2.61
4.00 Acre LST	237	1,488	35.43	8.57
Exceeds LST?	no	no	no	no
Fine Grading and Paving 2025	37	41	5.51	2.99
4.00 Acre LST	237	1,488	35.43	8.57
Exceeds LST?	no	no	no	no
Paving 2025	9	15	0.42	0.39
≤1.00 Acre LST	118	667	12.56	4.90
Exceeds LST?	no	no	no	no
Paving 2025 and Building Construction 2025	21	31	0.95	0.88
1.31 Acre LST	134	762	15.28	5.21
Exceeds LST?	no	no	no	no
Building Construction 2025	12	16	0.53	0.50
1.31 Acre LST	134	762	15.28	5.21
Exceeds LST?	no	no	no	no
Building Construction 2026	12	16	0.53	0.50
1.31 Acre LST	134	762	15.28	5.21
Exceeds LST?	no	no	no	no
Building Construction 2026, Paving 2026, and Architectural Coating	22	32	1.00	0.93
1.31 Acre LST	134	762	15.28	5.21
Exceeds LST?	no	no	no	no

Regional Construction Emissions Worksheet (Phase 2):

Site Preparation							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2027 Winter					
	Fugitive Dust					0.23	0.02
	Off-Road	0.44	4.79	3.82	0.01	0.17	0.15
	Total	0.44	4.79	3.82	0.01	0.39	0.18
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.22	0.09	0.00	0.04	0.01
	Worker	0.01	0.01	0.12	0.00	0.05	0.01
	Total	0.02	0.23	0.20	0.00	0.09	0.03
TOTAL		0.46	5.02	4.03	0.01	0.48	0.20
Onsite		2027					
	Fugitive Dust	0.00	0.00	0.00	0.00	0.23	0.02
	Off-Road	0.44	4.79	3.82	0.01	0.17	0.15
	Total	0.44	4.79	3.82	0.01	0.39	0.18
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.22	0.09	0.00	0.04	0.01
	Worker	0.01	0.01	0.12	0.00	0.05	0.01
	Total	0.02	0.23	0.20	0.00	0.09	0.03
TOTAL		0.46	5.02	4.03	0.01	0.48	0.20
Grading							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2027 Winter					
	Fugitive Dust					2.27	1.10
	Off-Road	0.84	8.73	5.39	0.01	0.35	0.32
	Total	0.84	8.73	5.39	0.01	2.62	1.42
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.29	0.11	0.00	0.05	0.02
	Worker	0.02	0.01	0.19	0.00	0.08	0.02
	Total	0.03	0.31	0.30	0.00	0.13	0.04
TOTAL		0.87	9.04	5.70	0.02	2.75	1.46
Onsite		2027					
	Fugitive Dust	0.00	0.00	0.00	0.00	2.27	1.10
	Off-Road	0.84	8.73	5.39	0.01	0.35	0.32
	Total	0.84	8.73	5.39	0.01	2.62	1.42
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.29	0.11	0.00	0.05	0.02
	Worker	0.02	0.01	0.19	0.00	0.08	0.02
	Total	0.03	0.31	0.30	0.00	0.13	0.04
TOTAL		0.87	9.04	5.70	0.02	2.75	1.46
Building Construction 2027							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2027 Winter					
	Off-Road	0.55	5.48	7.03	0.01	0.24	0.22
	Total	0.55	5.48	7.03	0.01	0.24	0.22
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.44	0.17	0.00	0.08	0.02
	Worker	0.09	0.05	0.70	0.00	0.31	0.08
	Total	0.10	0.49	0.88	0.00	0.39	0.11
TOTAL		0.65	5.97	7.90	0.02	0.63	0.33
Onsite		2027					
	Off-Road	0.55	5.48	7.03	0.01	0.24	0.22
	Total	0.55	5.48	7.03	0.01	0.24	0.22
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.44	0.17	0.00	0.08	0.02
	Worker	0.09	0.05	0.70	0.00	0.31	0.08
	Total	0.10	0.49	0.88	0.00	0.39	0.11
TOTAL		0.65	5.97	7.90	0.02	0.63	0.33

Building Construction 2028								
			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2028 Winter						
	Off-Road		0.55	5.48	7.03	0.01	0.24	0.22
	Total		0.55	5.48	7.03	0.01	0.24	0.22
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.44	0.17	0.00	0.08	0.02
	Worker		0.08	0.04	0.67	0.00	0.31	0.08
	Total		0.09	0.48	0.84	0.00	0.39	0.11
TOTAL			0.64	5.96	7.87	0.02	0.63	0.33
Onsite		2028						
	Off-Road		0.55	5.48	7.03	0.01	0.24	0.22
	Total		0.55	5.48	7.03	0.01	0.24	0.22
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.44	0.17	0.00	0.08	0.02
	Worker		0.08	0.04	0.67	0.00	0.31	0.08
	Total		0.09	0.48	0.84	0.00	0.39	0.11
TOTAL			0.64	5.96	7.87	0.02	0.63	0.33

Building Construction 2029								
			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2029 Winter						
	Off-Road		0.55	5.48	7.03	0.01	0.24	0.22
	Total		0.55	5.48	7.03	0.01	0.24	0.22
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.43	0.17	0.00	0.08	0.02
	Worker		0.08	0.04	0.63	0.00	0.31	0.08
	Total		0.09	0.47	0.80	0.00	0.39	0.11
TOTAL			0.64	5.96	7.83	0.02	0.63	0.33
Onsite		2029						
	Off-Road		0.55	5.48	7.03	0.01	0.24	0.22
	Total		0.55	5.48	7.03	0.01	0.24	0.22
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.43	0.17	0.00	0.08	0.02
	Worker		0.08	0.04	0.63	0.00	0.31	0.08
	Total		0.09	0.47	0.80	0.00	0.39	0.11
TOTAL			0.64	5.96	7.83	0.02	0.63	0.33

Building Construction 2030								
			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2030 Winter						
	Off-Road		0.61	3.23	7.16	0.01	0.06	0.06
	Total		0.61	3.23	7.16	0.01	0.06	0.06
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.43	0.17	0.00	0.08	0.02
	Worker		0.07	0.04	0.61	0.00	0.31	0.08
	Total		0.08	0.47	0.77	0.00	0.39	0.11
TOTAL			0.69	3.70	7.93	0.02	0.45	0.17
Onsite		2030						
	Off-Road		0.61	3.23	7.16	0.01	0.06	0.06
	Total		0.61	3.23	7.16	0.01	0.06	0.06
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.43	0.17	0.00	0.08	0.02
	Worker		0.07	0.04	0.61	0.00	0.31	0.08
	Total		0.08	0.47	0.77	0.00	0.39	0.11
TOTAL			0.69	3.70	7.93	0.02	0.45	0.17

Architectural Coating (IB II)							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2028 Winter					
	Archit. Coating	5.53				0.00	0.00
	Off-Road	0.17	1.15	1.81	0.00	0.05	0.05
	Total	5.70	1.15	1.81	0.00	0.05	0.05
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	0.13	0.00	0.06	0.02
	Total	0.02	0.01	0.13	0.00	0.06	0.02
TOTAL		5.71	1.15	1.94	0.00	0.11	0.07
Onsite		2028					
	Archit. Coating	5.53	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.17	1.15	1.81	0.00	0.05	0.05
	Total	5.70	1.15	1.81	0.00	0.05	0.05
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	0.13	0.00	0.06	0.02
	Total	0.02	0.01	0.13	0.00	0.06	0.02
TOTAL		5.71	1.15	1.94	0.00	0.11	0.07

Architectural Coating (CTE/Training)							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2029 Winter					
	Archit. Coating	11.41				0.00	0.00
	Off-Road	0.17	1.15	1.81	0.00	0.05	0.05
	Total	11.58	1.15	1.81	0.00	0.05	0.05
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	0.13	0.00	0.06	0.02
	Total	0.02	0.01	0.13	0.00	0.06	0.02
TOTAL		11.60	1.15	1.94	0.00	0.11	0.07
Onsite		2029					
	Archit. Coating	11.41	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.17	1.15	1.81	0.00	0.05	0.05
	Total	11.58	1.15	1.81	0.00	0.05	0.05
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	0.13	0.00	0.06	0.02
	Total	0.02	0.01	0.13	0.00	0.06	0.02
TOTAL		11.60	1.15	1.94	0.00	0.11	0.07

Paving							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2030 Winter					
	Off-Road	0.72	4.12	7.49	0.01	0.15	0.15
	Paving	0.00				0.00	0.00
	Total	0.72	4.12	7.49	0.01	0.15	0.15
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	0.04	0.02	0.36	0.00	0.19	0.05
	Total	0.04	0.02	0.36	0.00	0.19	0.05
TOTAL		0.76	4.14	7.85	0.01	0.34	0.20
Onsite		2030					
	Off-Road	0.72	4.12	7.49	0.01	0.15	0.15
	Paving	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.72	4.12	7.49	0.01	0.15	0.15
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	0.04	0.02	0.36	0.00	0.19	0.05
	Total	0.04	0.02	0.36	0.00	0.19	0.05
TOTAL		0.76	4.14	7.85	0.01	0.34	0.20

Architectural Coating (SCCC)			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2030 Winter						
	Archit. Coating		7.13				0.00	0.00
	Off-Road		0.13	0.86	1.80	0.00	0.02	0.02
	Total		7.26	0.86	1.80	0.00	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		0.01	0.01	0.12	0.00	0.06	0.02
	Total		0.01	0.01	0.12	0.00	0.06	0.02
TOTAL			7.28	0.86	1.92	0.00	0.08	0.04
Onsite		2030						
	Archit. Coating		7.13	0.00	0.00	0.00	0.00	0.00
	Off-Road		0.13	0.86	1.80	0.00	0.02	0.02
	Total		7.26	0.86	1.80	0.00	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		0.01	0.01	0.12	0.00	0.06	0.02
	Total		0.01	0.01	0.12	0.00	0.06	0.02
TOTAL			7.28	0.86	1.92	0.00	0.08	0.04
			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Site Preparation			0	5	4	0	0	0
Site Preparation and Grading			1	14	10	0	3	2
Grading			1	9	6	0	3	1
Grading and Building Construction			2	15	14	0	3	2
Building Construction 2027			1	6	8	0	1	0
Building Construction 2028			1	6	8	0	1	0
Building Construction 2028 and Architectural Coating (IB II)			6	7	10	0	1	0
Building Construction 2029			1	6	8	0	1	0
Building Construction 2029 and Architectural Coating (CTE/Training)			12	7	10	0	1	0
Building Construction 2030			1	4	8	0	0	0
Building Construction 2030, Paving, and Architectural Coating (SCCC)			9	9	18	0	1	0
MAX DAILY			12	15	18	0	3	2
Regional Thresholds			75	100	550	150	150	55
Exceeds Thresholds?			No	No	No	No	No	No

Construction LST Worksheet (Phase 2):

**NOx and CO LSTs based on 82 ft receptor (students), PM10 and PM2.5 LSTs based on 160 ft receptor (residences) as students would not be on campus 24hrs/day

Site Preparation						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2027				
	Fugitive Dust				0.23	0.02
	Off-Road		4.79	3.82	0.17	0.15
	Total		4.79	3.82	0.39	0.18
TOTAL			4.79	3.82	0.39	0.18
Onsite		2027				
	Fugitive Dust		0.00	0.00	0.23	0.02
	Off-Road		4.79	3.82	0.17	0.15
	Total		4.79	3.82	0.39	0.18
TOTAL			4.79	3.82	0.39	0.18
Grading						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2027				
	Fugitive Dust				2.27	1.10
	Off-Road		8.73	5.39	0.35	0.32
	Total		8.73	5.39	2.62	1.42
TOTAL			8.73	5.39	2.62	1.42
Onsite		2027				
	Fugitive Dust		0.00	0.00	2.27	1.10
	Off-Road		8.73	5.39	0.35	0.32
	Total		8.73	5.39	2.62	1.42
TOTAL			8.73	5.39	2.62	1.42
Building Construction 2027						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2027				
	Off-Road		5.48	7.03	0.24	0.22
	Total		5.48	7.03	0.24	0.22
TOTAL			5.48	7.03	0.24	0.22
Onsite		2027				
	Off-Road		5.48	7.03	0.24	0.22
	Total		5.48	7.03	0.24	0.22
TOTAL			5.48	7.03	0.24	0.22
Building Construction 2028						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2028				
	Off-Road		5.48	7.03	0.24	0.22
	Total		5.48	7.03	0.24	0.22
TOTAL			5.48	7.03	0.24	0.22
Onsite		2028				
	Off-Road		5.48	7.03	0.24	0.22
	Total		5.48	7.03	0.24	0.22
TOTAL			5.48	7.03	0.24	0.22
Building Construction 2029						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2029				
	Off-Road		5.48	7.03	0.24	0.22
	Total		5.48	7.03	0.24	0.22
TOTAL			5.48	7.03	0.24	0.22
Onsite		2029				
	Off-Road		5.48	7.03	0.24	0.22
	Total		5.48	7.03	0.24	0.22
TOTAL			5.48	7.03	0.24	0.22

Building Construction 2030						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2030				
	Off-Road		3.23	7.16	0.06	0.06
	Total		3.23	7.16	0.06	0.06
TOTAL			3.23	7.16	0.06	0.06
Onsite		2030				
	Off-Road		3.23	7.16	0.06	0.06
	Total		3.23	7.16	0.06	0.06
TOTAL			3.23	7.16	0.06	0.06
Architectural Coating (IB II)						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2028				
	Archit. Coating				0.00	0.00
	Off-Road		1.15	1.81	0.05	0.05
	Total		1.15	1.81	0.05	0.05
TOTAL			1.15	1.81	0.05	0.05
Onsite		2028				
	Archit. Coating		0.00	0.00	0.00	0.00
	Off-Road		1.15	1.81	0.05	0.05
	Total		1.15	1.81	0.05	0.05
TOTAL			1.15	1.81	0.05	0.05
Architectural Coating (CTE/Training)						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2029				
	Archit. Coating				0.00	0.00
	Off-Road		1.15	1.81	0.05	0.05
	Total		1.15	1.81	0.05	0.05
TOTAL			1.15	1.81	0.05	0.05
Onsite		2029				
	Archit. Coating		0.00	0.00	0.00	0.00
	Off-Road		1.15	1.81	0.05	0.05
	Total		1.15	1.81	0.05	0.05
TOTAL			1.15	1.81	0.05	0.05
Paving						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2030				
	Off-Road		4.12	7.49	0.15	0.15
	Paving				0.00	0.00
	Total		4.12	7.49	0.15	0.15
TOTAL			4.12	7.49	0.15	0.15
Onsite		2030				
	Off-Road		4.12	7.49	0.15	0.15
	Paving		0.00	0.00	0.00	0.00
	Total		4.12	7.49	0.15	0.15
TOTAL			4.12	7.49	0.15	0.15
Architectural Coating (SCCC)						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2030				
	Archit. Coating				0.00	0.00
	Off-Road		0.86	1.80	0.02	0.02
	Total		0.86	1.80	0.02	0.02
TOTAL			0.86	1.80	0.02	0.02
Onsite		2030				
	Archit. Coating		0.00	0.00	0.00	0.00
	Off-Road		0.86	1.80	0.02	0.02
	Total		0.86	1.80	0.02	0.02
TOTAL			0.86	1.80	0.02	0.02

	NOx	CO	PM10 Total	PM2.5 Total
Site Preparation	5	4	0.39	0.18
≤1.00 Acre LST	118	667	12.56	4.90
Exceeds LST?	no	no	no	no
Site Preparation and Rough Grading	14	9	3.01	1.60
≤1.00 Acre LST	118	667	12.56	4.90
Exceeds LST?	no	no	no	no
Grading	9	5	2.62	1.42
≤1.00 Acre LST	118	667	12.56	4.90
Exceeds LST?	no	no	no	no
Grading and Building Construction	14	12	2.86	1.64
≤1.00 Acre LST	118	667	12.56	4.90
Exceeds LST?	no	no	no	no
Building Construction 2027	5	7	0.24	0.22
≤1.00 Acre LST	118	667	12.56	4.90
Exceeds LST?	no	no	no	no
Building Construction 2028	5	7	0.24	0.22
≤1.00 Acre LST	118	667	12.56	4.90
Exceeds LST?	no	no	no	no
Building Construction 2028 and Architectural Coating (IB II)	7	9	0.29	0.27
≤1.00 Acre LST	118	667	12.56	4.90
Exceeds LST?	no	no	no	no
Building Construction 2029	5	7	0.24	0.22
≤1.00 Acre LST	118	667	12.56	4.90
Exceeds LST?	no	no	no	no
Building Construction 2029 and Architectural Coating (CTE/Training)	7	9	0.29	0.27
≤1.00 Acre LST	118	667	12.56	4.90
Exceeds LST?	no	no	no	no
Building Construction 2030	3	7	0.06	0.06
≤1.00 Acre LST	118	667	12.56	4.90
Exceeds LST?	no	no	no	no
Building Construction 2030, Paving, and Architectural Coating (SCCC)	8	16	0.24	0.24
≤1.00 Acre LST	118	667	12.56	4.90
Exceeds LST?	no	no	no	no

Regional Operation Emissions Worksheet¹

¹ CalEEMod, Version 2020.4

Existing Conditions (2021)

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.41	0.00	0.40	0.00	0.00	0.00
Energy	0.03	0.25	0.21	0.00	0.02	0.02
Mobile*	16.39	21.88	155.80	0.30	28.77	7.89
Total	17.83	22.14	156.41	0.30	28.79	7.91

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.41	0.00	0.40	0.00	0.00	0.00
Energy	0.03	0.25	0.21	0.00	0.02	0.02
Mobile*	14.34	23.18	138.73	0.27	28.77	7.89
Total	15.78	23.43	139.34	0.28	28.79	7.91

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.41	0.00	0.40	0.00	0.00	0.00
Energy	0.03	0.25	0.21	0.00	0.02	0.02
Mobile	16.39	23.18	155.80	0.30	28.77	7.89
Total	17.83	23.43	156.41	0.30	28.79	7.91

* To provide a direct comparison to existing and Proposed Project energy use, this model does not account for mobile emissions

Existing Conditions at Buildout (2030)

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.41	0.00	0.40	0.00	0.00	0.00
Energy	0.03	0.25	0.21	0.00	0.02	0.02
Mobile	11.03	12.61	103.06	0.23	28.63	7.74
Total	12.46	12.87	103.67	0.23	28.65	7.76

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.41	0.00	0.40	0.00	0.00	0.00
Energy	0.03	0.25	0.21	0.00	0.02	0.02
Mobile	9.60	13.45	93.26	0.22	28.63	7.74
Total	11.03	13.70	93.87	0.22	28.65	7.76

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.41	0.00	0.40	0.00	0.00	0.00
Energy	0.03	0.25	0.21	0.00	0.02	0.02
Mobile	11.03	13.45	103.06	0.23	28.63	7.74
Total	12.46	13.70	103.67	0.23	28.65	7.76

Regional Thresholds (lb/day)	55.00	55.00	550.00	150.00	150.00	55.00
Exceeds Thresholds?	No	No	No	No	No	No

Proposed Project (2030)**Summer**

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	4.66	0.00	0.51	0.00	0.00	0.00
Energy	0.08	0.77	0.65	0.00	0.06	0.06
Mobile	13.61	15.57	127.23	0.29	35.35	9.56
Offroad	1.23	8.96	12.01	0.02	0.12	0.12
Total	19.59	25.31	140.40	0.31	35.53	9.74

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	4.66	0.00	0.51	0.00	0.00	0.00
Energy	0.08	0.77	0.65	0.00	0.06	0.06
Mobile	11.85	16.60	115.13	0.27	35.35	9.56
Offroad	1.23	8.96	12.01	0.02	0.12	0.12
Total	17.83	26.34	128.30	0.29	35.53	9.74

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	4.66	0.00	0.51	0.00	0.00	0.00
Energy	0.08	0.77	0.65	0.00	0.06	0.06
Mobile	13.61	16.60	127.23	0.29	35.35	9.56
Offroad	1.23	8.96	12.01	0.02	0.12	0.12
Total	19.59	26.34	140.40	0.31	35.53	9.74
Net Change	7.13	12.63	36.73	0.08	6.88	1.98

Regional Thresholds (lb/day)

Regional Thresholds (lb/day)	55	55	550	150	150	55
Exceeds Thresholds?	No	No	No	No	No	No

Operation LST Worksheet¹

¹ CalEEMod, Version 2020.4

Proposed Project

Summer

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.00	0.51	0.00	0.00
Energy	0.77	0.65	0.06	0.06
Welding	8.96	12.01	0.12	0.12
Total	9.74	13.17	0.18	0.18

Winter

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.00	0.51	0.00	0.00
Energy	0.77	0.65	0.06	0.06
Welding	8.96	12.01	0.12	0.12
Total	9.74	13.17	0.18	0.18

Max Daily

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.00	0.51	0.00	0.00
Energy	0.77	0.65	0.06	0.06
Welding	8.96	12.01	0.12	0.12
Total	9.74	13.17	0.18	0.18

Screening Level Localized Thresholds (lb/day)

	237	1,488	3.33	1.67
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Exceeds Thresholds?	No	No	No	No
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GHG Emissions Inventory

Proposed Project Buildout

Construction¹

Phase 1 Construction

	MTCO ₂ e
2024	279
2025	801
2026	609
Total Construction	1,689
30-Year Amortization²	56

Phase 2 Construction

	MTCO ₂ e
2027	111
2028	188
2029	189
2030	97
Total Construction (per Phase)	487
30-Year Amortization²	16

¹ CalEEMod, Version 2020.4

² 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](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).

Operations¹

Area	MTCO ₂ e/Year ²		MTCO ₂ e/Year ²		MTCO ₂ e/Year ²
	Existing Conditions	%	Operations (2030)	%	Net Change
Area	0	0%	0	0%	0
Energy ³	217	5%	500	10%	283
Mobile	3,896	85%	3,776	76%	-120
Offroad	NA	NA	42	1%	42
Solid Waste	334	7%	413	8%	78
Water	137	3%	189	4%	52
Amortized Construction Emissions	NA	0%	73	1%	73
	4,585	100%	4,992	100%	407

South Coast AQMD Bright-Line Screening Threshold **3,000**
 Exceed Threshold? **No**

¹ CalEEMod, Version 2020.4

² MTCO₂e=metric tons of carbon dioxide equivalent.

³ Includes PV system generation of 200,000kWh/year

Assumptions Worksheet

CalEEMod Inputs- Chaffey College New Fontana Campus Master Plan Project (Phase 1), Construction

Name: Chaffey College New Fontana Campus Master Plan Project (Phase 1)
Project Number: CCCD-01.2
Project Location: West of Sierra Avenue and Under Wood Dr., East of Juniper Avenue
County/Air Basin: San Bernardino
Climate Zone: 10
Land Use Setting: Urban
Operational Year: 2032
Utility Company: Southern California Edison
Air Basin: South Coast Air Basin
Air District: South Coast AQMD
SRA: 34- Central San Bernardino Valley

Project Site Acreage	14.30
Disturbed Site Acreage	14.30

Project Components	SQFT	Acres	Number of Stories	
Welcome Center and Library	51,000	0.29	4	
Instructional Building I	28,000	0.21	3	
Automotive Technology	50,000	0.57	2-3	
Permanent Operations and Maintenance (O&M)	8,000	0.18	1-2	
TOTAL BUILDING SQFT	137,000	1.26		
Parking Lot	251,300	5.77	718	total stalls
Total Other Asphalt Surfaces	30,000	0.69		
Landscape	165,000	3.79		
Hardscape	98,000	2.25		
Additional Site Area*	23,525	0.54		
Subtotal Other	567,825	13.04		
Total	704,825	14.30		

*added to other non-asphalt surfaces to account for remaining disturbed area

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Educational	Junior College	137.000	1000 sqft	1.26	137,000
Parking	Parking Lot	251.300	1000 sqft	5.77	251,300
Parking	Other Asphalt Surfaces	30.000	1000 sqft	0.69	30,000
Parking*	Other Non-asphalt Surfaces	286.525	1000 sqft	6.58	286,525

14.30

Soil Haul¹

Construction Activities	Volume (CY)	Haul Truck Capacity (cy)	Haul Distance (miles)	Total Trip Ends	Duration (days)
Site Preparation (Import)	12,000	16	20	1,519	9

¹ Haul Distance based provided by the Community College District

Architectural Coating

	Percent Painted
Interior Painted:	100%
Exterior Painted:	100%

Rule 1113

Interior Paint VOC content:	50	grams per liter
Exterior Paing VOC content:	50	grams per liter

Structures	Land Use Square Feet	CalEEMod Factor ²	Total Paintable Surface		
			Area	Paintable Interior Area ¹	Paintable Exterior Area ¹
Non-Residential Structures					
High School	137,000	2.0	274,000	205,500	68,500
			274,000	205,500	68,500
Parking					
Parking Lot	251,300	6%	15,078	-	15,078
			15,078		15,078

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.

³ Assumes that all parking, non-parking asphalt, and turf areas will be striped. CalEEMod methodology assumes 6% of surface area is striped.

Construction Mitigation

SCAQMD Rule 403

Replace Ground Cover	PM10:	5	% Reduction
	PM25:	5	% Reduction

Water Exposed Area	Frequency:	2	per day
	PM10:	55	% Reduction
	PM25:	55	% Reduction

Unpaved Roads	Vehicle Speed:	15	mph
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SCAQMD Rule 1186

Clean Paved Road		9	% PM Reduction
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Southern California Edison Carbon Intensity Factors

CO ₂ : ^{1,2}	509.98	pounds per megawatt hour
CH ₄ : ³	0.033	pound per megawatt hour
N ₂ O: 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 ₂ O	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).

Construction Activities and Schedule Assumptions: Chaffey College New Fontana Campus Master Plan Project (Phase 1)

* based on information provided by Chaffey College

		CalEEMod Default Construction Schedule		
Construction Activities	Phase Type	Start Date	End Date	CalEEMod Duration (Workday)
Site Preparation	Site Preparation	9/1/2024	9/14/2024	10
Site Preparation Soil Haul	Site Preparation	9/1/2024	9/12/2024	9
Rough Grading	Grading	9/15/2024	10/26/2024	30
Utilities Trenching	Trenching	10/14/2024	10/26/2024	10
Fine Grading	Grading	10/28/2024	12/7/2024	30
Paving 1	Paving	12/8/2024	1/5/2025	20
Building Construction	Building Construction	1/5/2025	2/28/2026	300
Paving 2	Paving	2/2/2026	2/28/2026	20
Architectural Coating	Architectural Coating	2/2/2026	2/28/2026	20

Normalization Calculations *

CalEEMod Defaults Construction Duration (Site Prep, Rough Grading, Trenching)	
55	days of construction
0.15	years of construction
1.81	months of construction

*Based on a 3-6 month duration for site prep, rough grading, and trenching provided by Chaffey College

Assumed Construction Duration	
9/1/2024	2/1/2025
153	days
5.03	months

Norm Factor: 2.78

CalEEMod Defaults Construction Duration (Fine Grading, Paving 1)	
69	days of construction
0.19	years of construction
2.27	months of construction

*Based on a 3-4 month duration for fine grading, curb/gutter, and AC paving provided by Chaffey College

Assumed Construction Duration	
2/1/2025	5/15/2025
103	days
3.39	months

Norm Factor: 1.49

CalEEMod Defaults Construction Duration (Building Construction, Paving 2, Architectural Coating)	
419	days of construction
1.15	years of construction
13.78	months of construction

*Based on the remaining 15.5 months of the 24 month Phase 1 construction duration provided by Chaffey College

Assumed Construction Duration	
5/15/2025	9/1/2026
474	days
15.58	months

Norm Factor: 1.13

Normalized Construction Schedule

Site Preparation	9/1/2024	10/9/2024	28
Site Preparation Soil Haul*	9/27/2024	10/9/2024	9
Rough Grading	10/9/2024	2/3/2025	84
Utilities Trenching	12/26/2024	2/3/2025	28
Fine Grading	2/3/2025	4/4/2025	45
Paving 1	4/4/2025	5/15/2025	30
Building Construction	5/15/2025	9/1/2026	339
Paving 2	7/31/2026	9/1/2026	23
Architectural Coating	7/31/2026	9/1/2026	23

* modeling assumes that soil hauling will overlap both site preparation and rough grading

CalEEMod Construction Off-Road Equipment Inputs

*Based on CalEEMod defaults, assumed equipment would not be shared for most conservative results

General Construction Hours: 8 hours

btwn 7:00 AM to 4:00 PM (with 1 hr break), Mon-Fri

Water Truck Vendor Trip Calculation

Amount of Water (gal/acre/day) ¹	Water Truck Capacity (gallons) ²
10,000	4,000

¹ Based on data provided in *Guidance for Application for Dust Control Permit*

(https://www.epa.gov/sites/default/files/2019-04/documents/mr_guidanceforapplicationfordustcontrolpermit.pdf)

² Based on standard water truck capacity (<https://www.mclellanindustries.com/trucks/water-trucks/>)

³ assumes that dozers, tractors/loaders/backhoes, and graders can disturb 0.50 acres per day and scrapers can disturb 1 acre per day.

Construction Equipment Details						
Equipment	model	# of Equipment	hr/day	hp	load factor*	total trips
Site Preparation						
Rubber Tired Dozers		3	8	247	0.4	
Tractors/Loaders/Backhoes		4	8	97	0.37	
Worker Trips						18
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added to Vendor Trips)			Acres Disturbed:	3.5		18
Site Preparation Soil Haul						
no additional equipment required for site preparation soil hauling						
Worker Trips						0
Vendor Trips						0
Hauling Trips						1519
Rough Grading						
Excavators		2	8	158	0.38	
Graders		1	8	187	0.41	
Rubber Tired Dozers		1	8	247	0.4	
Scrapers		2	8	367	0.48	
Tractors/Loaders/Backhoes		2	8	97	0.37	
Worker Trips						20
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added to Vendor Trips)			Acres Disturbed:	4		20
Utilities Trenching						
Excavator		1	8	158	0.3819	
Worker Trips						3
Vendor Trips						0
Hauling Trips						0
* assumes one excavator for trenching						
Fine Grading						
Excavators		2	8	158	0.38	
Graders		1	8	187	0.41	
Rubber Tired Dozers		1	8	247	0.4	
Scrapers		2	8	367	0.48	
Tractors/Loaders/Backhoes		2	8	97	0.37	
Worker Trips						20
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added to Vendor Trips)			Acres Disturbed:	4		20
Paving						
Pavers		2	8	130	0.42	
Paving Equipment		2	8	132	0.36	
Rollers		2	8	80	0.38	
Worker Trips						15
Vendor Trips						0
Hauling Trips						0
Building Construction						
Cranes		1	7	231	0.29	
Forklifts		3	8	89	0.2	
Generator Sets		1	8	84	0.74	
Tractors/Loaders/Backhoes		3	7	97	0.37	
Welders		1	8	46	0.45	
Worker Trips						296
Vendor Trips						116
Hauling Trips						0
Architectural Coating (surface lots, etc...)						

Air Compressors		1	6	78	0.48	
Worker Trips						59
Vendor Trips						0
Hauling Trips						0

CalEEMod Inputs- Chaffey College New Fontana Campus Master Plan Project (Phase 2), Construction

Name: Chaffey College New Fontana Campus Master Plan Project (Phase 2)
Project Number: CCCD-01.2
Project Location: West of Sierra Avenue and Under Wood Dr., East of Juniper Avenue
County/Air Basin: San Bernardino
Climate Zone: 10
Land Use Setting: Urban
Operational Year: 2032
Utility Company: Southern California Edison
Air Basin: South Coast Air Basin
Air District: South Coast AQMD
SRA: 34- Central San Bernardino Valley

Project Site Acreage	14.30
Disturbed Site Acreage	0.55

Project Components	SQFT	Acres	Number of Stories
Instructional Building II	20,000	0.15	3
CTE and Training	32,000	0.24	3
Student and Community Center	20,000	0.15	3
TOTAL BUILDING SQFT	72,000	0.55	
Parking Lot	0	0.00	
Total Other Asphalt Surfaces	0	0.00	
Landscape	0	0.00	
Hardscape	0	0.00	
Subtotal Other	0	0.00	
Total	72,000	0.55	

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Educational	Junior College	72.000	1000 sqft	0.55	72,000
Parking	Parking Lot	0.000	1000 sqft	0.00	0
Parking	Other Asphalt Surfaces	0.000	1000 sqft	0.00	0
Parking*	Other Non-asphalt Surfaces	0.000	1000 sqft	0.00	0
				0.55	

Architectural Coating

	Percent Painted
Interior Painted:	100%
Exterior Painted:	100%

Rule 1113

Interior Paint VOC content:	50	grams per liter
Exterior Paing VOC content:	50	grams per liter

Structures	Land Use Square Feet	CalEEMod Factor ²	Total Paintable Surface		
			Area	Paintable Interior Area ¹	Paintable Exterior Area ¹
Non-Residential Structures					
Instructional Building II	20,000	2.0	40,000	30,000	10,000
CTE and Training	32,000	2.0	64,000	48,000	16,000
Student and Community Center	20,000	2.0	40,000	30,000	10,000
			144,000	108,000	36,000

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

²The 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.

Construction Mitigation

SCAQMD Rule 403

Replace Ground Cover	PM10:	5	% Reduction
	PM25:	5	% Reduction
Water Exposed Area	Frequency:	2	per day
	PM10:	55	% Reduction
	PM25:	55	% Reduction
Unpaved Roads	Vehicle Speed:	15	mph
<i>SCAQMD Rule 1186</i>	Clean Paved Road	9	% PM Reduction

Southern California Edison Carbon Intensity Factors

CO ₂ : ^{1,2}	509.98	pounds per megawatt hour
CH ₄ : ³	0.033	pound per megawatt hour
N ₂ O: 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 ₂ O	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).

Construction Activities and Schedule Assumptions: Chaffey College New Fontana Campus Master Plan Project (Phase 2)

* based on information provided by Chaffey College

		CalEEMod Default Construction Schedule		
Construction Activities	Phase Type	Start Date	End Date	CalEEMod Duration (Workday)
Site Preparation	Site Preparation	6/1/2027	6/1/2027	1
Grading	Grading	6/2/2027	6/3/2027	2
Building Construction	Building Construction	6/4/2027	10/21/2027	100
Paving	Paving	10/15/2027	10/21/2027	5
Architectural Coating	Architectural Coating	10/15/2027	10/21/2027	5

Normalization Calculations *

CalEEMod Defaults Construction Duration (Building Construction, Paving 2, Architectural Coating)	
142	days of construction
0.39	years of construction
4.67	months of construction

Assumed Construction Duration	
6/1/2027	6/1/2030
1096	days
36.03	months

*Based on the remaining 15.5 months of the 24 month Phase 1 construction duration provided by Chaffey College

Norm Factor: 7.72

Normalized Construction Schedule

Site Preparation	6/1/2027	6/10/2027	8
Grading	6/10/2027	7/1/2027	16
Instructional Building II Construction	7/1/2027	6/25/2028	257
Architectural Coating (IB II)	6/7/2028	6/25/2028	13
CTE and Training Construction	6/20/2028	6/13/2029	257
Architectural Coating (CTE/Training)	5/28/2029	6/13/2029	13
Student and Community Center Construction	6/7/2029	6/1/2030	257
Paving	5/15/2030	6/1/2030	13
Architectural Coating (SCCC)	5/15/2030	6/1/2030	13

*assumes length of normalized building construction would be divided by 3 to cover construction of all 3 buildings

Simplified Construction Schedule

Site Preparation	6/1/2027	6/10/2027	8
Grading	6/10/2027	7/1/2027	16
Building Construction	7/1/2027	6/1/2030	762
Architectural Coating (IB II)	6/7/2028	6/25/2028	13
Architectural Coating (CTE/Training)	5/28/2029	6/13/2029	13
Paving	5/15/2030	6/1/2030	13
Architectural Coating (SCCC)	5/15/2030	6/1/2030	13

Overlapping Construction Schedule

Site Preparation	6/1/2027	6/9/2027	7
Site Preparation and Grading	6/10/2027	6/10/2027	1
Grading	6/11/2027	6/30/2027	14
Grading and Building Construction	7/1/2027	7/1/2027	1
Building Construction 2027	7/2/2027	6/6/2028	243
Building Construction 2028	1/1/2028	6/6/2028	112
Building Construction and Architectural Coating (IB II)	6/7/2028	6/25/2028	13
Building Construction 2028	6/26/2028	12/31/2028	135
Building Construction 2029	1/1/2029	5/27/2029	105
Building Construction and Architectural Coating (CTE/Training)	5/28/2029	6/13/2029	13
Building Construction 2029	6/14/2029	12/31/2029	143
Building Construction 2030	1/1/2030	5/14/2030	96
Building Construction, Paving, and Architectural Coating (SCCC)	5/15/2030	6/1/2030	13

CalEEMod Construction Off-Road Equipment Inputs

*Based on CalEEMod defaults, assumed equipment would not be shared for most conservative result.

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

Water Truck Vendor Trip Calculation

Amount of Water (gal/acre/day) ¹	Water Truck Capacity (gallons) ²
10,000	4,000

¹ Based on data provided in Guidance for Application for Dust Control Permit

(https://www.epa.gov/sites/default/files/2019-04/documents/mr_guidanceforapplicationfordustcontrolpermit.pdf)

² Based on standard water truck capacity (<https://www.mclellanindustries.com/trucks/water-trucks/>)

³ assumes that dozers, tractors/loaders/backhoes, and graders can disturb 0.50 acres per day and scrapers can disturb 1 acre per day.

Construction Equipment Details						
Equipment	# of Equipment	hr/day	hp	load factor*		total trips
Site Preparation						
Graders	1	8	187	0.41		
Tractors/Loaders/Backhoes	1	8	97	0.37		
Worker Trips						5
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added to Vendor Trips)			Acres Disturbed:	1		6
Grading						
Graders	1	6	187	0.41		
Rubber Tired Dozers	1	6	247	0.4		
Tractors/Loaders/Backhoes	1	7	97	0.37		
Worker Trips						8
Vendor Trips						0
Hauling Trips						0
Water Trucks (Added to Vendor Trips)			Acres Disturbed:	1.5		8
Building Construction						
Cranes	1	4	231	0.29		
Forklifts	2	6	89	0.2		
Tractors/Loaders/Backhoes	2	8	97	0.37		
Worker Trips						30
Vendor Trips						12
Hauling Trips						0
Paving						
Cement and Mortar Mixers	4	6	9	0.56		
Pavers	1	7	130	0.42		
Rollers	1	7	80	0.38		
Tractors/Loaders/Backhoes	1	7	97	0.37		
Worker Trips						18
Vendor Trips						0
Hauling Trips						0
Architectural Coating (surface lots, etc...)						
Air Compressors	1	6	78	0.48		
Worker Trips						6
Vendor Trips						0
Hauling Trips						0

CalEEMod Inputs- Chaffey College New Fontana Campus Master Plan Project, Existing Conditions

Name: Chaffey College New Fontana Campus Master Plan Project, Existing Conditions
Project Number: CCCD-01.2
Project Location: 16855 Merrill Ave, Fontana, CA 92335. West of Sierra Avenue, East of Juniper Avenue
County: San Bernardino
Climate Zone: 10
Land Use Setting: Urban
Operational Year: 2030
Utility Company: Southern California Edison
Air Basin: South Coast Air Basin
Air District: South Coast AQMD
SRA: 34- Central San Bernardino Valley

Project Site Acreage 8.0

Project Components	SQFT	Acres
Existing Campus	56,000	1.29
Parking Lot	216,180	4.96
Total Other Non-Asphalt Surfaces	76,300	1.75
Subtotal Other	292,480	6.71
Total	348,480	8

*added to other non-asphalt surfaces to account for remaining disturbed area

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Educational	Junior College	3,641	students	1.29	56,000
Parking	Parking Lot	216.180	1000 sqft	4.96	216,180
Parking*	Other Non-asphalt Surfaces	76.300	1000 sqft	1.75	76,300
				8.00	

Trips

Land Use Type	Average Daily Trips	CalEEMod Trip Rate	Saturday Trips	CalEEMod Trip Rate	Sunday Trips ¹	CalEEMod Trip Rate
Junior College	4,188	1.15	1,530	0.42	1,530	0.42

Source: Urban Crossroads. 2021. Chaffey Community College District's Fontana Campus Master Plan Traffic Study

¹ assumes that Sunday trips are equivalent to Saturday trips

Water Use

Land Use	Indoor ¹	Outdoor ²	Total (gal/yr)
Junior College	37,349,355.00	554,545.00	37,903,900.00

¹ Assumes 808 employees and 3,641 students will be consuming 23 gallons of water per day over 365 days based on Metcalf/Eddy Wastewater Generation Rate:

² Outdoor water based on landscaped area. Based on the California Department of Water Resource Water Budget Workbook for New and Rehabilitated Non-Residential Landscapes

*Assumes 100% aerobic treatment.

Solid Waste (Default)

Land Use	Total Solid Waste (tons/yr)
Junior College	664.48

Electricity (Buildings)

Existing Energy

Existing residential and non-residential 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.

Default CalEEMod Historical 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)
Junior College (2yr)	2.64	1.92	4.86	16.77	0.01
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.88	0.00	0.00

*Middle school land use represents the historical building energy rates for existing school building.

Architectural Coating

Existing Buildings Percent Painted

Interior Painted:	100%
Exterior Painted:	100%

Interior Paint VOC content:	100	grams per liter
Exterior Paing VOC content:	100	grams per liter

Structures	Land Use Square Feet	CalEEMod Factor ²	Total Paintable Surface Area	Paintable Interior Area ¹	Paintable Exterior Area ¹
Non-Residential Structures					
High School	56,000	2.0	112,000	84,000	28,000
			112,000	84,000	28,000
Parking					
Parking Lot	216,180	6%	12,971	-	12,971
			12,971		12,971

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

²The 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.

³Assumes that all parking, non-parking asphalt, and turf areas will be striped. CalEEMod methodology assumes 6% of surface area is striped.

Southern California Edison Carbon Intensity Factors

CO ₂ : ^{1,2}	509.98	pounds per megawatt hour
CH ₄ : ³	0.033	pound per megawatt hour
N ₂ O: 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 ₂ O	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- Chaffey College New Fontana Campus Master Plan Project, Operation

Name: Chaffey College New Fontana Campus Master Plan Project
Project Number: CCCD-01.2
Project Location: West of Sierra Avenue and Under Wood Dr., East of Juniper Avenue
County/Air Basin: San Bernardino
Climate Zone: 10
Land Use Setting: Urban
Operational Year: 2030
Utility Company: Southern California Edison
Air Basin: South Coast Air Basin
Air District: South Coast AQMD
SRA: 34- Central San Bernardino Valley

Project Site Acreage 14.30
Disturbed Site Acreage 14.30

Project Components	SQFT	Acres	Number of Stories
Phase 1			
Welcome Center and Library	51,000	0.29	4
Instructional Building I	28,000	0.21	3
Automotive Technology	50,000	0.57	2-3
Permanent Operations and Maintenance (O&M)	8,000	0.18	1-2
Phase 2			
CTE and Training	32,000	0.24	3
Instructional Building II	20,000	0.15	3
Student and Community Center	20,000	0.15	3
TOTAL BUILDING SQFT	209,000	1.82	
Parking Lot	251,300	5.77	718 total stalls
Total Other Asphalt Surfaces	30,000	0.69	
Landscape	165,000	3.79	
Hardscape	98,000	2.25	
Subtotal Other	544,300	12.50	
Total	753,300	14.31	

*added to other non-asphalt surfaces to account for remaining disturbed area

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Educational	Junior College	4,495	students	1.82	209,000
Parking	Parking Lot	251.300	1000 sqft	5.77	251,300
Parking	Other Asphalt Surfaces	30.000	1000 sqft	0.69	30,000
Parking*	Other Non-asphalt Surfaces	263.000	1000 sqft	6.04	263,000
				14.31	

Trips

Land Use Type	Average Daily Trips	CalEEMod Trip Rate	Saturday Trips	CalEEMod Trip Rate	Sunday Trips ¹	CalEEMod Trip Rate
Junior College	5,170	1.15	1,888	0.42	1,888	0.42

Source: Urban Crossroads. 2021. Chaffey Community College District’s Fontana Campus Master Plan Traffic Study

¹ assumes that Sunday trips are equivalent to Saturday trips

Water Use

Land Use	Indoor ¹	Outdoor ²	Total (gal/yr)
Junior College	50,370,000.00	2,398,423.50	52,768,423.50

¹ Assumes 1,000 employees and 5,000 students will be consuming 23 gallons of water per day over 365 days based on Metcalf/Eddy Wastewater Generation Rates

² Outdoor water based on non-asphalt area. Based on the California Department of Water Resource Water Budget Workbook for New and Rehabilitated Non-Residential Landscapes

*Assumes 100% aerobic treatment.

Solid Waste

Land Use	Total Solid Waste (tons/yr)
Junior College	820.34

OffRoad Equipment

Equipment Type	Number of Equipment ¹	Hours/day	Days/year ²	Horsepower	Load Factor	Fuel Type
Welders	15	4	59	46	0.45	Diesel

¹ Based on number of seats from a similar welding course

² Assumes welders will be used for 4 hours per day and 234 hours total based on information from District

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)
Junior College (Zyr)	1.76	1.92	3.99	13.68	0.01
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.35	0.00	0.00

Architectural Coating

Interior Painted:	100%
Exterior Painted:	100%

Rule 1113

Interior Paint VOC content:	50	grams per liter
Exterior Paing VOC content:	50	grams per liter

Structures	Land Use Square Feet	CalEEMod Factor ²	Total Paintable Surface Area	Paintable Interior Area ¹	Paintable Exterior Area ¹
Non-Residential Structures					
Middle School	209,000	2.0	418,000	313,500	104,500
			418,000	313,500	104,500
Parking					
Parking Lot	251,300	6%	15,078	-	15,078
			15,078		15,078

¹CalEEMod 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.

³ Assumes that all parking, non-parking asphalt, and turf areas will be striped. CalEEMod methodology assumes 6% of surface area is striped.

Southern California Edison Carbon Intensity Factors

CO ₂ : ^{1,2}	509.98	pounds per megawatt hour
CH ₄ : ³	0.033	pound per megawatt hour
N ₂ O: 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 ₂ O	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).

Changes to the CalEEMod Defaults - Fleet Mix (2021)

Trips: 4,188

Fleet Mix Percentage Calculations ¹				
Total Trips	Truck (2 Axle)	Truck (3 Axle)	Truck (4 Axle)	Truck (5 Axle)
192,000	5,995	1,208	493	12,176

¹ Based on CalTrans ADT data for RTE 10.

	Passenger Trips	Medium Duty Trucks	Heavy Duty Trucks
Number of Trips	172,128	7,203	12,669
Percentage of Vehicles	89.65%	3.75%	6.60%

Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.530515	0.055377	0.171759	0.144367	0.028476	0.007361	0.011734	0.017293	0.00058	0.00026	0.025722	0.000955	0.005601	100%
Trips	2,222	232	719	605	119	31	49	72	2	1	108	4	23	4,188
Percent	78%			14%	7%									100%
without buses/MH	0.530515	0.055377	0.171759	0.144367	0.028476	0.007361	0.011734	0.017293	0	0	0.025722	0.000955	0.005601	100%
Percent	78%			14%	7%									100%
Adjusted without buses/MH	0.530515	0.055377	0.171759	0.144367	0.028811	0.007448	0.011872	0.017496	0.000000	0.000000	0.026025	0.000966	0.005667	100%
Percent adjusted	78%			14%	7%									100%
Assumed Mix	89.7%			3.75%	6.60%									100%
adjusted with Assumed	0.606892	0.063350	0.196487	0.037516	0.026309	0.006801	0.010841	0.015977	0.000000	0.000000	0.029771	0.000882	0.005175	100%
Percent Check:	90%			4%	7%									
Trips	2,542	265	823	157	110	28	45	67	0	0	125	4	22	4,188
	3.75%			157	251									

Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles that the regional VMT. Assumes a mix of approximately 97% passenger vehicles, 2% medium duty trucks, and 1% heavy duty trucks and buses.

Changes to the CalEEMod Defaults - Fleet Mix (2030)

Trips: 5,170

Fleet Mix Percentage Calculations ¹				
Total Trips	Truck (2 Axle)	Truck (3 Axle)	Truck (4 Axle)	Truck (5 Axle)
192,000	5,995	1,208	493	12,176

¹ Based on CalTrans ADT data for RTE 10.

	Passenger Trips	Medium Duty Trucks	Heavy Duty Trucks
Number of Trips	172,128	7,203	12,669
Percentage of Vehicles	89.65%	3.75%	6.60%

Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	QBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.551473	0.057466	0.17589	0.126504	0.02321	0.006597	0.012751	0.016959	0.000535	0.000234	0.02373	0.000966	0.003686	100%
Trips	2,851	297	909	654	120	34	66	88	3	1	123	5	19	5,170
Percent	81%			13%	6%									100%
without buses/MH	0.551473	0.057466	0.175890	0.126504	0.023210	0.006597	0.012751	0.016959	0	0	0.023730	0.000966	0.003686	100%
Percent	81%			13%	6%									100%
Adjusted without buses/MH	0.551473	0.057466	0.175890	0.126504	0.023488	0.006676	0.012904	0.017162	0.000000	0.000000	0.024014	0.000978	0.003730	100%
Percent adjusted	81%			13%	6%									100%
Assumed Mix	89.7%			3.75%	6.60%									100%
adjusted with Assumed	0.611238	0.063694	0.194952	0.037516	0.023867	0.006784	0.013112	0.017439	0.000000	0.000000	0.026617	0.000993	0.003790	100%
Percent Check:	90%			4%	7%									
Trips	3,160	329	1,008	194	123	35	68	90	0	0	138	5	20	5,170
	4,635			194	316									

Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles that the regional VMT. Assumes a mix of approximately 97% passenger vehicles, 2% medium duty trucks, and 1% heavy duty trucks and buses.

CalEEMod Construction Model

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Annual

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

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction
San Bernardino-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	137.00	1000sqft	1.26	137,000.00	0
Other Asphalt Surfaces	30.00	1000sqft	0.69	30,000.00	0
Other Non-Asphalt Surfaces	286.52	1000sqft	6.58	286,525.00	0
Parking Lot	251.30	1000sqft	5.77	251,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			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 - based on information provided by applicant

Construction Phase - based on information provided by applicant, see normalized schedule in assumptions file

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Trips and VMT - see assumptions file for water truck trips calculations

Grading -

Architectural Coating - SCAQMD Rule 1113, only parking lot area considered for striping

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

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	34,070.00	15,078.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	28.00
tblConstructionPhase	NumDays	30.00	84.00
tblConstructionPhase	NumDays	30.00	45.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	300.00	339.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	20.00	23.00
tblGrading	AcresOfGrading	135.00	138.00
tblLandUse	LandUseSquareFeet	286,520.00	286,525.00
tblLandUse	LotAcreage	3.15	1.26
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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					
2024	0.1379	1.3883	1.1333	2.6300e-003	0.6043	0.0577	0.6619	0.2592	0.0531	0.3123	0.0000	232.9966	232.9966	0.0689	2.3500e-003	235.4187
2025	0.3247	2.5679	3.3521	8.7400e-003	0.7575	0.0935	0.8509	0.2291	0.0870	0.3161	0.0000	789.0253	789.0253	0.1263	0.0306	801.3067
2026	0.5781	1.6166	2.4283	6.5800e-003	0.3553	0.0552	0.4105	0.0958	0.0519	0.1477	0.0000	598.8231	598.8231	0.0636	0.0296	609.2357
Maximum	0.5781	2.5679	3.3521	8.7400e-003	0.7575	0.0935	0.8509	0.2592	0.0870	0.3161	0.0000	789.0253	789.0253	0.1263	0.0306	801.3067

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					
2024	0.1379	1.3883	1.1333	2.6300e-003	0.2657	0.0577	0.3234	0.1129	0.0531	0.1659	0.0000	232.9964	232.9964	0.0689	2.3500e-003	235.4185
2025	0.3247	2.5679	3.3521	8.7400e-003	0.4943	0.0935	0.5878	0.1446	0.0870	0.2316	0.0000	789.0248	789.0248	0.1263	0.0306	801.3062
2026	0.5781	1.6166	2.4283	6.5800e-003	0.3285	0.0552	0.3837	0.0893	0.0519	0.1411	0.0000	598.8228	598.8228	0.0636	0.0296	609.2354
Maximum	0.5781	2.5679	3.3521	8.7400e-003	0.4943	0.0935	0.5878	0.1446	0.0870	0.2316	0.0000	789.0248	789.0248	0.1263	0.0306	801.3062

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	36.60	0.00	32.68	40.65	0.00	30.59	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)
2	9-1-2024	11-30-2024	1.1168	1.1168
3	12-1-2024	2-28-2025	1.1039	1.1039
4	3-1-2025	5-31-2025	0.6674	0.6674
5	6-1-2025	8-31-2025	0.6440	0.6440
6	9-1-2025	11-30-2025	0.6417	0.6417
7	12-1-2025	2-28-2026	0.6337	0.6337
8	3-1-2026	5-31-2026	0.6414	0.6414
9	6-1-2026	8-31-2026	1.1253	1.1253
10	9-1-2026	9-30-2026	0.0221	0.0221
		Highest	1.1253	1.1253

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2024	10/9/2024	5	28	
2	Rough Grading	Grading	10/9/2024	2/3/2025	5	84	
3	Utilities Trenching	Trenching	12/26/2024	2/3/2025	5	28	
4	Fine Grading	Grading	2/3/2025	4/4/2025	5	45	
5	Paving 1	Paving	4/4/2025	5/15/2025	5	30	
6	Building Construction	Building Construction	5/15/2025	9/1/2026	5	339	
7	Paving 2	Paving	7/31/2026	9/1/2026	5	23	
8	Architectural Coating	Architectural Coating	7/31/2026	9/1/2026	5	23	

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Acres of Grading (Site Preparation Phase): 42

Acres of Grading (Grading Phase): 252

Acres of Paving: 13.04

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 205,500; Non-Residential Outdoor: 68,500; Striped Parking Area: 15,078

OffRoad Equipment

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

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Paving 2	Pavers	2	8.00	130	0.42
Paving 2	Paving Equipment	2	8.00	132	0.36
Paving 2	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	18.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utilities Trenching	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	8	20.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 1	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	296.00	116.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 2	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	59.00	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

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3.2 Site Preparation - 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					
Fugitive Dust					0.2752	0.0000	0.2752	0.1414	0.0000	0.1414	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0373	0.3805	0.2567	5.3000e-004		0.0172	0.0172		0.0158	0.0158	0.0000	46.8399	46.8399	0.0152	0.0000	47.2186
Total	0.0373	0.3805	0.2567	5.3000e-004	0.2752	0.0172	0.2924	0.1414	0.0158	0.1573	0.0000	46.8399	46.8399	0.0152	0.0000	47.2186

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	2.8000e-004	9.3800e-003	3.7000e-003	4.0000e-005	1.5900e-003	7.0000e-005	1.6500e-003	4.6000e-004	6.0000e-005	5.2000e-004	0.0000	4.3315	4.3315	1.1000e-004	6.4000e-004	4.5250
Worker	8.2000e-004	5.8000e-004	7.6100e-003	2.0000e-005	2.7600e-003	1.0000e-005	2.7800e-003	7.3000e-004	1.0000e-005	7.5000e-004	0.0000	2.0695	2.0695	5.0000e-005	5.0000e-005	2.0869
Total	1.1000e-003	9.9600e-003	0.0113	6.0000e-005	4.3500e-003	8.0000e-005	4.4300e-003	1.1900e-003	7.0000e-005	1.2700e-003	0.0000	6.4009	6.4009	1.6000e-004	6.9000e-004	6.6119

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1177	0.0000	0.1177	0.0605	0.0000	0.0605	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0373	0.3805	0.2567	5.3000e-004		0.0172	0.0172		0.0158	0.0158	0.0000	46.8398	46.8398	0.0152	0.0000	47.2186
Total	0.0373	0.3805	0.2567	5.3000e-004	0.1177	0.0172	0.1349	0.0605	0.0158	0.0763	0.0000	46.8398	46.8398	0.0152	0.0000	47.2186

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	2.8000e-004	9.3800e-003	3.7000e-003	4.0000e-005	1.4900e-003	7.0000e-005	1.5500e-003	4.3000e-004	6.0000e-005	5.0000e-004	0.0000	4.3315	4.3315	1.1000e-004	6.4000e-004	4.5250
Worker	8.2000e-004	5.8000e-004	7.6100e-003	2.0000e-005	2.5500e-003	1.0000e-005	2.5600e-003	6.8000e-004	1.0000e-005	6.9000e-004	0.0000	2.0695	2.0695	5.0000e-005	5.0000e-005	2.0869
Total	1.1000e-003	9.9600e-003	0.0113	6.0000e-005	4.0400e-003	8.0000e-005	4.1100e-003	1.1100e-003	7.0000e-005	1.1900e-003	0.0000	6.4009	6.4009	1.6000e-004	6.9000e-004	6.6119

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3.3 Rough Grading - 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					
Fugitive Dust					0.3143	0.0000	0.3143	0.1137	0.0000	0.1137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0965	0.9713	0.8317	1.8600e-003		0.0401	0.0401		0.0369	0.0369	0.0000	163.5586	163.5586	0.0529	0.0000	164.8810
Total	0.0965	0.9713	0.8317	1.8600e-003	0.3143	0.0401	0.3544	0.1137	0.0369	0.1506	0.0000	163.5586	163.5586	0.0529	0.0000	164.8810

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	6.6000e-004	0.0223	8.8100e-003	1.1000e-004	3.7800e-003	1.6000e-004	3.9400e-003	1.0900e-003	1.5000e-004	1.2400e-003	0.0000	10.3130	10.3130	2.6000e-004	1.5200e-003	10.7737
Worker	1.9400e-003	1.3800e-003	0.0181	5.0000e-005	6.5800e-003	3.0000e-005	6.6100e-003	1.7500e-003	3.0000e-005	1.7800e-003	0.0000	4.9273	4.9273	1.2000e-004	1.3000e-004	4.9688
Total	2.6000e-003	0.0237	0.0269	1.6000e-004	0.0104	1.9000e-004	0.0106	2.8400e-003	1.8000e-004	3.0200e-003	0.0000	15.2403	15.2403	3.8000e-004	1.6500e-003	15.7425

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1344	0.0000	0.1344	0.0486	0.0000	0.0486	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0965	0.9713	0.8317	1.8600e-003		0.0401	0.0401		0.0369	0.0369	0.0000	163.5584	163.5584	0.0529	0.0000	164.8808
Total	0.0965	0.9713	0.8317	1.8600e-003	0.1344	0.0401	0.1744	0.0486	0.0369	0.0855	0.0000	163.5584	163.5584	0.0529	0.0000	164.8808

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	6.6000e-004	0.0223	8.8100e-003	1.1000e-004	3.5400e-003	1.6000e-004	3.7000e-003	1.0300e-003	1.5000e-004	1.1800e-003	0.0000	10.3130	10.3130	2.6000e-004	1.5200e-003	10.7737
Worker	1.9400e-003	1.3800e-003	0.0181	5.0000e-005	6.0700e-003	3.0000e-005	6.1000e-003	1.6200e-003	3.0000e-005	1.6500e-003	0.0000	4.9273	4.9273	1.2000e-004	1.3000e-004	4.9688
Total	2.6000e-003	0.0237	0.0269	1.6000e-004	9.6100e-003	1.9000e-004	9.8000e-003	2.6500e-003	1.8000e-004	2.8300e-003	0.0000	15.2403	15.2403	3.8000e-004	1.6500e-003	15.7425

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3.3 Rough Grading - 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					
Fugitive Dust					0.2059	0.0000	0.2059	0.0542	0.0000	0.0542	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.3353	0.3160	7.4000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	65.4075	65.4075	0.0212	0.0000	65.9363
Total	0.0348	0.3353	0.3160	7.4000e-004	0.2059	0.0136	0.2195	0.0542	0.0125	0.0666	0.0000	65.4075	65.4075	0.0212	0.0000	65.9363

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	2.6000e-004	8.8800e-003	3.4700e-003	4.0000e-005	1.5100e-003	6.0000e-005	1.5800e-003	4.4000e-004	6.0000e-005	5.0000e-004	0.0000	4.0450	4.0450	1.0000e-004	6.0000e-004	4.2256
Worker	7.2000e-004	4.9000e-004	6.7200e-003	2.0000e-005	2.6300e-003	1.0000e-005	2.6400e-003	7.0000e-004	1.0000e-005	7.1000e-004	0.0000	1.9037	1.9037	4.0000e-005	5.0000e-005	1.9191
Total	9.8000e-004	9.3700e-003	0.0102	6.0000e-005	4.1400e-003	7.0000e-005	4.2200e-003	1.1400e-003	7.0000e-005	1.2100e-003	0.0000	5.9487	5.9487	1.4000e-004	6.5000e-004	6.1447

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0880	0.0000	0.0880	0.0232	0.0000	0.0232	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.3353	0.3160	7.4000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	65.4074	65.4074	0.0212	0.0000	65.9362
Total	0.0348	0.3353	0.3160	7.4000e-004	0.0880	0.0136	0.1016	0.0232	0.0125	0.0356	0.0000	65.4074	65.4074	0.0212	0.0000	65.9362

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	2.6000e-004	8.8800e-003	3.4700e-003	4.0000e-005	1.4200e-003	6.0000e-005	1.4800e-003	4.1000e-004	6.0000e-005	4.7000e-004	0.0000	4.0450	4.0450	1.0000e-004	6.0000e-004	4.2256
Worker	7.2000e-004	4.9000e-004	6.7200e-003	2.0000e-005	2.4300e-003	1.0000e-005	2.4400e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	1.9037	1.9037	4.0000e-005	5.0000e-005	1.9191
Total	9.8000e-004	9.3700e-003	0.0102	6.0000e-005	3.8500e-003	7.0000e-005	3.9200e-003	1.0600e-003	7.0000e-005	1.1300e-003	0.0000	5.9487	5.9487	1.4000e-004	6.5000e-004	6.1447

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3.4 Utilities Trenching - 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	3.6000e-004	2.8100e-003	6.5300e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.3000e-004	1.3000e-004	0.0000	0.9077	0.9077	2.9000e-004	0.0000	0.9150
Total	3.6000e-004	2.8100e-003	6.5300e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.3000e-004	1.3000e-004	0.0000	0.9077	0.9077	2.9000e-004	0.0000	0.9150

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	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0493	0.0493	0.0000	0.0000	0.0497
Total	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0493	0.0493	0.0000	0.0000	0.0497

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.6000e-004	2.8100e-003	6.5300e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.3000e-004	1.3000e-004	0.0000	0.9077	0.9077	2.9000e-004	0.0000	0.9150
Total	3.6000e-004	2.8100e-003	6.5300e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.3000e-004	1.3000e-004	0.0000	0.9077	0.9077	2.9000e-004	0.0000	0.9150

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	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0493	0.0493	0.0000	0.0000	0.0497
Total	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0493	0.0493	0.0000	0.0000	0.0497

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3.4 Utilities Trenching - 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	2.0100e-003	0.0147	0.0391	6.0000e-005		7.2000e-004	7.2000e-004		6.6000e-004	6.6000e-004	0.0000	5.4468	5.4468	1.7600e-003	0.0000	5.4908
Total	2.0100e-003	0.0147	0.0391	6.0000e-005		7.2000e-004	7.2000e-004		6.6000e-004	6.6000e-004	0.0000	5.4468	5.4468	1.7600e-003	0.0000	5.4908

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	1.1000e-004	7.0000e-005	1.0100e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.2856	0.2856	1.0000e-005	1.0000e-005	0.2879
Total	1.1000e-004	7.0000e-005	1.0100e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.2856	0.2856	1.0000e-005	1.0000e-005	0.2879

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0100e-003	0.0147	0.0391	6.0000e-005		7.2000e-004	7.2000e-004		6.6000e-004	6.6000e-004	0.0000	5.4468	5.4468	1.7600e-003	0.0000	5.4908
Total	2.0100e-003	0.0147	0.0391	6.0000e-005		7.2000e-004	7.2000e-004		6.6000e-004	6.6000e-004	0.0000	5.4468	5.4468	1.7600e-003	0.0000	5.4908

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	1.1000e-004	7.0000e-005	1.0100e-003	0.0000	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2856	0.2856	1.0000e-005	1.0000e-005	0.2879
Total	1.1000e-004	7.0000e-005	1.0100e-003	0.0000	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2856	0.2856	1.0000e-005	1.0000e-005	0.2879

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3.5 Fine Grading - 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					
Fugitive Dust					0.2087	0.0000	0.2087	0.0824	0.0000	0.0824	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0653	0.6287	0.5925	1.4000e-003		0.0255	0.0255		0.0234	0.0234	0.0000	122.6390	122.6390	0.0397	0.0000	123.6306
Total	0.0653	0.6287	0.5925	1.4000e-003	0.2087	0.0255	0.2341	0.0824	0.0234	0.1058	0.0000	122.6390	122.6390	0.0397	0.0000	123.6306

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	4.9000e-004	0.0167	6.5100e-003	8.0000e-005	2.8400e-003	1.2000e-004	2.9500e-003	8.2000e-004	1.1000e-004	9.3000e-004	0.0000	7.5845	7.5845	1.9000e-004	1.1200e-003	7.9230
Worker	1.3600e-003	9.2000e-004	0.0126	4.0000e-005	4.9300e-003	2.0000e-005	4.9600e-003	1.3100e-003	2.0000e-005	1.3300e-003	0.0000	3.5694	3.5694	8.0000e-005	9.0000e-005	3.5984
Total	1.8500e-003	0.0176	0.0191	1.2000e-004	7.7700e-003	1.4000e-004	7.9100e-003	2.1300e-003	1.3000e-004	2.2600e-003	0.0000	11.1539	11.1539	2.7000e-004	1.2100e-003	11.5214

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0892	0.0000	0.0892	0.0352	0.0000	0.0352	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0653	0.6287	0.5925	1.4000e-003		0.0255	0.0255		0.0234	0.0234	0.0000	122.6388	122.6388	0.0397	0.0000	123.6304
Total	0.0653	0.6287	0.5925	1.4000e-003	0.0892	0.0255	0.1147	0.0352	0.0234	0.0586	0.0000	122.6388	122.6388	0.0397	0.0000	123.6304

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	4.9000e-004	0.0167	6.5100e-003	8.0000e-005	2.6600e-003	1.2000e-004	2.7700e-003	7.7000e-004	1.1000e-004	8.9000e-004	0.0000	7.5845	7.5845	1.9000e-004	1.1200e-003	7.9230
Worker	1.3600e-003	9.2000e-004	0.0126	4.0000e-005	4.5500e-003	2.0000e-005	4.5700e-003	1.2200e-003	2.0000e-005	1.2400e-003	0.0000	3.5694	3.5694	8.0000e-005	9.0000e-005	3.5984
Total	1.8500e-003	0.0176	0.0191	1.2000e-004	7.2100e-003	1.4000e-004	7.3400e-003	1.9900e-003	1.3000e-004	2.1300e-003	0.0000	11.1539	11.1539	2.7000e-004	1.2100e-003	11.5214

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3.6 Paving 1 - 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	0.0137	0.1287	0.2187	3.4000e-004		6.2800e-003	6.2800e-003		5.7800e-003	5.7800e-003	0.0000	30.0289	30.0289	9.7100e-003	0.0000	30.2717
Paving	8.4600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0222	0.1287	0.2187	3.4000e-004		6.2800e-003	6.2800e-003		5.7800e-003	5.7800e-003	0.0000	30.0289	30.0289	9.7100e-003	0.0000	30.2717

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	6.8000e-004	4.6000e-004	6.3000e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.7847	1.7847	4.0000e-005	5.0000e-005	1.7992
Total	6.8000e-004	4.6000e-004	6.3000e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.7847	1.7847	4.0000e-005	5.0000e-005	1.7992

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0137	0.1287	0.2187	3.4000e-004		6.2800e-003	6.2800e-003		5.7800e-003	5.7800e-003	0.0000	30.0289	30.0289	9.7100e-003	0.0000	30.2717
Paving	8.4600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0222	0.1287	0.2187	3.4000e-004		6.2800e-003	6.2800e-003		5.7800e-003	5.7800e-003	0.0000	30.0289	30.0289	9.7100e-003	0.0000	30.2717

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	6.8000e-004	4.6000e-004	6.3000e-003	2.0000e-005	2.2700e-003	1.0000e-005	2.2900e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7847	1.7847	4.0000e-005	5.0000e-005	1.7992
Total	6.8000e-004	4.6000e-004	6.3000e-003	2.0000e-005	2.2700e-003	1.0000e-005	2.2900e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7847	1.7847	4.0000e-005	5.0000e-005	1.7992

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3.7 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	0.1128	1.0288	1.3270	2.2200e-003		0.0435	0.0435		0.0409	0.0409	0.0000	191.3336	191.3336	0.0450	0.0000	192.4580
Total	0.1128	1.0288	1.3270	2.2200e-003		0.0435	0.0435		0.0409	0.0409	0.0000	191.3336	191.3336	0.0450	0.0000	192.4580

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	0.0103	0.3541	0.1384	1.6600e-003	0.0604	2.4800e-003	0.0628	0.0174	2.3800e-003	0.0198	0.0000	161.2962	161.2962	4.0900e-003	0.0238	168.4961
Worker	0.0736	0.0502	0.6839	2.1100e-003	0.2678	1.2200e-003	0.2690	0.0711	1.1300e-003	0.0722	0.0000	193.7006	193.7006	4.4800e-003	4.8900e-003	195.2702
Total	0.0840	0.4043	0.8223	3.7700e-003	0.3281	3.7000e-003	0.3318	0.0885	3.5100e-003	0.0920	0.0000	354.9967	354.9967	8.5700e-003	0.0287	363.7663

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1128	1.0288	1.3270	2.2200e-003		0.0435	0.0435		0.0409	0.0409	0.0000	191.3333	191.3333	0.0450	0.0000	192.4577
Total	0.1128	1.0288	1.3270	2.2200e-003		0.0435	0.0435		0.0409	0.0409	0.0000	191.3333	191.3333	0.0450	0.0000	192.4577

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	0.0103	0.3541	0.1384	1.6600e-003	0.0565	2.4800e-003	0.0590	0.0165	2.3800e-003	0.0189	0.0000	161.2962	161.2962	4.0900e-003	0.0238	168.4961
Worker	0.0736	0.0502	0.6839	2.1100e-003	0.2469	1.2200e-003	0.2481	0.0660	1.1300e-003	0.0671	0.0000	193.7006	193.7006	4.4800e-003	4.8900e-003	195.2702
Total	0.0840	0.4043	0.8223	3.7700e-003	0.3034	3.7000e-003	0.3071	0.0825	3.5100e-003	0.0860	0.0000	354.9967	354.9967	8.5700e-003	0.0287	363.7663

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3.7 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	0.1190	1.0849	1.3994	2.3500e-003		0.0459	0.0459		0.0432	0.0432	0.0000	201.7699	201.7699	0.0474	0.0000	202.9557
Total	0.1190	1.0849	1.3994	2.3500e-003		0.0459	0.0459		0.0432	0.0432	0.0000	201.7699	201.7699	0.0474	0.0000	202.9557

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	0.3706	0.1440	1.7100e-003	0.0637	2.6000e-003	0.0663	0.0184	2.4900e-003	0.0209	0.0000	166.7152	166.7152	4.1800e-003	0.0246	174.1511
Worker	0.0726	0.0477	0.6742	2.1600e-003	0.2824	1.2200e-003	0.2836	0.0750	1.1200e-003	0.0761	0.0000	197.8417	197.8417	4.2900e-003	4.8400e-003	199.3913
Total	0.0834	0.4183	0.8182	3.8700e-003	0.3460	3.8200e-003	0.3498	0.0934	3.6100e-003	0.0970	0.0000	364.5569	364.5569	8.4700e-003	0.0294	373.5424

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1190	1.0849	1.3994	2.3500e-003		0.0459	0.0459		0.0432	0.0432	0.0000	201.7697	201.7697	0.0474	0.0000	202.9554
Total	0.1190	1.0849	1.3994	2.3500e-003		0.0459	0.0459		0.0432	0.0432	0.0000	201.7697	201.7697	0.0474	0.0000	202.9554

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	0.3706	0.1440	1.7100e-003	0.0596	2.6000e-003	0.0622	0.0174	2.4900e-003	0.0199	0.0000	166.7152	166.7152	4.1800e-003	0.0246	174.1511
Worker	0.0726	0.0477	0.6742	2.1600e-003	0.2603	1.2200e-003	0.2616	0.0696	1.1200e-003	0.0707	0.0000	197.8417	197.8417	4.2900e-003	4.8400e-003	199.3913
Total	0.0834	0.4183	0.8182	3.8700e-003	0.3199	3.8200e-003	0.3238	0.0870	3.6100e-003	0.0906	0.0000	364.5569	364.5569	8.4700e-003	0.0294	373.5424

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3.8 Paving 2 - 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	0.0105	0.0987	0.1677	2.6000e-004		4.8100e-003	4.8100e-003		4.4300e-003	4.4300e-003	0.0000	23.0221	23.0221	7.4500e-003	0.0000	23.2083
Paving	8.4600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0190	0.0987	0.1677	2.6000e-004		4.8100e-003	4.8100e-003		4.4300e-003	4.4300e-003	0.0000	23.0221	23.0221	7.4500e-003	0.0000	23.2083

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	4.9000e-004	3.2000e-004	4.5200e-003	1.0000e-005	1.8900e-003	1.0000e-005	1.9000e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.3252	1.3252	3.0000e-005	3.0000e-005	1.3356
Total	4.9000e-004	3.2000e-004	4.5200e-003	1.0000e-005	1.8900e-003	1.0000e-005	1.9000e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.3252	1.3252	3.0000e-005	3.0000e-005	1.3356

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0105	0.0987	0.1677	2.6000e-004		4.8100e-003	4.8100e-003		4.4300e-003	4.4300e-003	0.0000	23.0221	23.0221	7.4500e-003	0.0000	23.2083
Paving	8.4600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0190	0.0987	0.1677	2.6000e-004		4.8100e-003	4.8100e-003		4.4300e-003	4.4300e-003	0.0000	23.0221	23.0221	7.4500e-003	0.0000	23.2083

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	4.9000e-004	3.2000e-004	4.5200e-003	1.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.7000e-004	1.0000e-005	4.7000e-004	0.0000	1.3252	1.3252	3.0000e-005	3.0000e-005	1.3356
Total	4.9000e-004	3.2000e-004	4.5200e-003	1.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.7000e-004	1.0000e-005	4.7000e-004	0.0000	1.3252	1.3252	3.0000e-005	3.0000e-005	1.3356

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3.9 Architectural Coating - 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					
Archit. Coating	0.3524					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	0.0132	0.0208	3.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9403
Total	0.3544	0.0132	0.0208	3.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9403

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	1.9100e-003	1.2600e-003	0.0178	6.0000e-005	7.4400e-003	3.0000e-005	7.4700e-003	1.9800e-003	3.0000e-005	2.0100e-003	0.0000	5.2126	5.2126	1.1000e-004	1.3000e-004	5.2535
Total	1.9100e-003	1.2600e-003	0.0178	6.0000e-005	7.4400e-003	3.0000e-005	7.4700e-003	1.9800e-003	3.0000e-005	2.0100e-003	0.0000	5.2126	5.2126	1.1000e-004	1.3000e-004	5.2535

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3524					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	0.0132	0.0208	3.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9402
Total	0.3544	0.0132	0.0208	3.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9402

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	1.9100e-003	1.2600e-003	0.0178	6.0000e-005	6.8600e-003	3.0000e-005	6.8900e-003	1.8300e-003	3.0000e-005	1.8600e-003	0.0000	5.2126	5.2126	1.1000e-004	1.3000e-004	5.2535
Total	1.9100e-003	1.2600e-003	0.0178	6.0000e-005	6.8600e-003	3.0000e-005	6.8900e-003	1.8300e-003	3.0000e-005	1.8600e-003	0.0000	5.2126	5.2126	1.1000e-004	1.3000e-004	5.2535

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Summer

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

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction
San Bernardino-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	137.00	1000sqft	1.26	137,000.00	0
Other Asphalt Surfaces	30.00	1000sqft	0.69	30,000.00	0
Other Non-Asphalt Surfaces	286.52	1000sqft	6.58	286,525.00	0
Parking Lot	251.30	1000sqft	5.77	251,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - based on information provided by applicant

Construction Phase - based on information provided by applicant, see normalized schedule in assumptions file

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment -

Trips and VMT - see assumptions file for water truck trips calculations

Grading -

Architectural Coating - SCAQMD Rule 1113, only parking lot area considered for striping

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

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	34,070.00	15,078.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	28.00
tblConstructionPhase	NumDays	30.00	84.00
tblConstructionPhase	NumDays	30.00	45.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	300.00	339.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	20.00	23.00
tblGrading	AcresOfGrading	135.00	138.00
tblLandUse	LandUseSquareFeet	286,520.00	286,525.00
tblLandUse	LotAcreage	3.15	1.26
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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					
2024	6.0604	60.9772	47.9371	0.1105	29.5288	2.5766	32.1054	13.9390	2.3709	16.3098	0.0000	10,789.2368	10,789.2368	3.1633	0.1147	10,902.4889
2025	6.1596	58.5948	57.8841	0.1402	19.2148	2.3342	21.5490	7.5164	2.1478	9.6642	0.0000	13,666.0483	13,666.0483	4.0757	0.3822	13,803.2428
2026	35.1319	26.8694	45.2940	0.1060	4.8789	1.0450	5.9239	1.3108	0.9776	2.2884	0.0000	10,544.2892	10,544.2892	1.4495	0.3832	10,694.7251
Maximum	35.1319	60.9772	57.8841	0.1402	29.5288	2.5766	32.1054	13.9390	2.3709	16.3098	0.0000	13,666.0483	13,666.0483	4.0757	0.3832	13,803.2428

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					
2024	6.0604	60.9772	47.9371	0.1105	12.9573	2.5766	15.5339	6.0515	2.3709	8.4224	0.0000	10,789.2368	10,789.2368	3.1633	0.1147	10,902.4889
2025	6.1596	58.5948	57.8841	0.1402	8.5822	2.3342	10.9164	3.3152	2.1478	5.4631	0.0000	13,666.0482	13,666.0482	4.0757	0.3822	13,803.2428
2026	35.1319	26.8694	45.2940	0.1060	4.5077	1.0450	5.5527	1.2197	0.9776	2.1973	0.0000	10,544.2892	10,544.2892	1.4495	0.3832	10,694.7251
Maximum	35.1319	60.9772	57.8841	0.1402	12.9573	2.5766	15.5339	6.0515	2.3709	8.4224	0.0000	13,666.0482	13,666.0482	4.0757	0.3832	13,803.2428

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	51.42	0.00	46.28	53.50	0.00	43.09	0.00	0.00	0.00	0.00	0.00	0.00

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3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2024	10/9/2024	5	28	
2	Rough Grading	Grading	10/9/2024	2/3/2025	5	84	
3	Utilities Trenching	Trenching	12/26/2024	2/3/2025	5	28	
4	Fine Grading	Grading	2/3/2025	4/4/2025	5	45	
5	Paving 1	Paving	4/4/2025	5/15/2025	5	30	
6	Building Construction	Building Construction	5/15/2025	9/1/2026	5	339	
7	Paving 2	Paving	7/31/2026	9/1/2026	5	23	
8	Architectural Coating	Architectural Coating	7/31/2026	9/1/2026	5	23	

Acres of Grading (Site Preparation Phase): 42

Acres of Grading (Grading Phase): 252

Acres of Paving: 13.04

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 205,500; Non-Residential Outdoor: 68,500; Striped Parking Area: 15,078

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Rough Grading	Excavators	2	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities Trenching	Excavators	1	8.00	158	0.38
Fine Grading	Excavators	2	8.00	158	0.38

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Summer

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

Fine Grading	Graders	1	8.00	187	0.41
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving 1	Pavers	2	8.00	130	0.42
Paving 1	Paving Equipment	2	8.00	132	0.36
Paving 1	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving 2	Pavers	2	8.00	130	0.42
Paving 2	Paving Equipment	2	8.00	132	0.36
Paving 2	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	18.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utilities Trenching	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	8	20.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 1	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	296.00	116.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 2	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	59.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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 Site Preparation - 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					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
Total	2.6609	27.1760	18.3356	0.0381	19.6570	1.2294	20.8864	10.1025	1.1310	11.2335		3,688.0100	3,688.0100	1.1928		3,717.8294

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	0.0206	0.6370	0.2605	3.1800e-003	0.1153	4.6700e-003	0.1200	0.0332	4.4700e-003	0.0377		340.6939	340.6939	8.7500e-003	0.0503	355.9035
Worker	0.0653	0.0377	0.6294	1.7400e-003	0.2012	9.5000e-004	0.2022	0.0534	8.7000e-004	0.0542		176.3221	176.3221	3.9700e-003	4.0100e-003	177.6160
Total	0.0859	0.6746	0.8899	4.9200e-003	0.3165	5.6200e-003	0.3221	0.0866	5.3400e-003	0.0919		517.0160	517.0160	0.0127	0.0543	533.5195

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
Total	2.6609	27.1760	18.3356	0.0381	8.4034	1.2294	9.6327	4.3188	1.1310	5.4498	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294

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	0.0206	0.6370	0.2605	3.1800e-003	0.1079	4.6700e-003	0.1126	0.0314	4.4700e-003	0.0359		340.6939	340.6939	8.7500e-003	0.0503	355.9035
Worker	0.0653	0.0377	0.6294	1.7400e-003	0.1855	9.5000e-004	0.1864	0.0495	8.7000e-004	0.0504		176.3221	176.3221	3.9700e-003	4.0100e-003	177.6160
Total	0.0859	0.6746	0.8899	4.9200e-003	0.2934	5.6200e-003	0.2990	0.0809	5.3400e-003	0.0862		517.0160	517.0160	0.0127	0.0543	533.5195

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

3.3 Rough Grading - 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					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.2036	1.3354	10.5390	3.6538	1.2286	4.8823		6,009.7487	6,009.7487	1.9437		6,058.3405

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	0.0229	0.7078	0.2895	3.5300e-003	0.1281	5.1900e-003	0.1333	0.0369	4.9700e-003	0.0419		378.5488	378.5488	9.7300e-003	0.0559	395.4483
Worker	0.0726	0.0418	0.6993	1.9400e-003	0.2236	1.0600e-003	0.2246	0.0593	9.7000e-004	0.0603		195.9134	195.9134	4.4200e-003	4.4500e-003	197.3512
Total	0.0954	0.7496	0.9888	5.4700e-003	0.3517	6.2500e-003	0.3579	0.0962	5.9400e-003	0.1021		574.4622	574.4622	0.0142	0.0603	592.7995

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	3.9345	1.3354	5.2699	1.5620	1.2286	2.7906	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

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	0.0229	0.7078	0.2895	3.5300e-003	0.1199	5.1900e-003	0.1251	0.0349	4.9700e-003	0.0399		378.5488	378.5488	9.7300e-003	0.0559	395.4483
Worker	0.0726	0.0418	0.6993	1.9400e-003	0.2061	1.0600e-003	0.2071	0.0550	9.7000e-004	0.0560		195.9134	195.9134	4.4200e-003	4.4500e-003	197.3512
Total	0.0954	0.7496	0.9888	5.4700e-003	0.3260	6.2500e-003	0.3322	0.0899	5.9400e-003	0.0958		574.4622	574.4622	0.0142	0.0603	592.7995

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

3.3 Rough Grading - 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					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.2036	1.1309	10.3345	3.6538	1.0404	4.6942		6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0224	0.7035	0.2849	3.4600e-003	0.1281	5.1800e-003	0.1333	0.0369	4.9600e-003	0.0419		371.1892	371.1892	9.4500e-003	0.0548	387.7489
Worker	0.0675	0.0373	0.6478	1.8700e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		189.1949	189.1949	3.9700e-003	4.1500e-003	190.5297
Total	0.0900	0.7409	0.9327	5.3300e-003	0.3517	6.1800e-003	0.3579	0.0962	5.8800e-003	0.1021		560.3841	560.3841	0.0134	0.0589	578.2786

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	3.9345	1.1309	5.0654	1.5620	1.0404	2.6024	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0224	0.7035	0.2849	3.4600e-003	0.1199	5.1800e-003	0.1251	0.0349	4.9600e-003	0.0398		371.1892	371.1892	9.4500e-003	0.0548	387.7489
Worker	0.0675	0.0373	0.6478	1.8700e-003	0.2061	1.0000e-003	0.2071	0.0550	9.2000e-004	0.0559		189.1949	189.1949	3.9700e-003	4.1500e-003	190.5297
Total	0.0900	0.7409	0.9327	5.3300e-003	0.3260	6.1800e-003	0.3322	0.0899	5.8800e-003	0.0958		560.3841	560.3841	0.0134	0.0589	578.2786

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Utilities Trenching - 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	0.1803	1.4029	3.2650	5.1700e-003		0.0691	0.0691		0.0636	0.0636		500.2654	500.2654	0.1618		504.3103
Total	0.1803	1.4029	3.2650	5.1700e-003		0.0691	0.0691		0.0636	0.0636		500.2654	500.2654	0.1618		504.3103

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	0.0109	6.2800e-003	0.1049	2.9000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		29.3870	29.3870	6.6000e-004	6.7000e-004	29.6027
Total	0.0109	6.2800e-003	0.1049	2.9000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		29.3870	29.3870	6.6000e-004	6.7000e-004	29.6027

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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	0.1803	1.4029	3.2650	5.1700e-003		0.0691	0.0691		0.0636	0.0636	0.0000	500.2654	500.2654	0.1618		504.3103
Total	0.1803	1.4029	3.2650	5.1700e-003		0.0691	0.0691		0.0636	0.0636	0.0000	500.2654	500.2654	0.1618		504.3103

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	0.0109	6.2800e-003	0.1049	2.9000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.3900e-003		29.3870	29.3870	6.6000e-004	6.7000e-004	29.6027
Total	0.0109	6.2800e-003	0.1049	2.9000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.3900e-003		29.3870	29.3870	6.6000e-004	6.7000e-004	29.6027

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

3.4 Utilities Trenching - 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	0.1671	1.2217	3.2594	5.1700e-003		0.0599	0.0599		0.0551	0.0551		500.3379	500.3379	0.1618		504.3834
Total	0.1671	1.2217	3.2594	5.1700e-003		0.0599	0.0599		0.0551	0.0551		500.3379	500.3379	0.1618		504.3834

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	0.0101	5.6000e-003	0.0972	2.8000e-004	0.0335	1.5000e-004	0.0337	8.8900e-003	1.4000e-004	9.0300e-003		28.3792	28.3792	6.0000e-004	6.2000e-004	28.5795
Total	0.0101	5.6000e-003	0.0972	2.8000e-004	0.0335	1.5000e-004	0.0337	8.8900e-003	1.4000e-004	9.0300e-003		28.3792	28.3792	6.0000e-004	6.2000e-004	28.5795

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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	0.1671	1.2217	3.2594	5.1700e-003		0.0599	0.0599		0.0551	0.0551	0.0000	500.3379	500.3379	0.1618		504.3834
Total	0.1671	1.2217	3.2594	5.1700e-003		0.0599	0.0599		0.0551	0.0551	0.0000	500.3379	500.3379	0.1618		504.3834

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	0.0101	5.6000e-003	0.0972	2.8000e-004	0.0309	1.5000e-004	0.0311	8.2500e-003	1.4000e-004	8.3900e-003		28.3792	28.3792	6.0000e-004	6.2000e-004	28.5795
Total	0.0101	5.6000e-003	0.0972	2.8000e-004	0.0309	1.5000e-004	0.0311	8.2500e-003	1.4000e-004	8.3900e-003		28.3792	28.3792	6.0000e-004	6.2000e-004	28.5795

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

3.5 Fine Grading - 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					
Fugitive Dust					9.2743	0.0000	9.2743	3.6614	0.0000	3.6614			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.2743	1.1309	10.4052	3.6614	1.0404	4.7018		6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0224	0.7035	0.2849	3.4600e-003	0.1281	5.1800e-003	0.1333	0.0369	4.9600e-003	0.0419		371.1892	371.1892	9.4500e-003	0.0548	387.7489
Worker	0.0675	0.0373	0.6478	1.8700e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		189.1949	189.1949	3.9700e-003	4.1500e-003	190.5297
Total	0.0900	0.7409	0.9327	5.3300e-003	0.3517	6.1800e-003	0.3579	0.0962	5.8800e-003	0.1021		560.3841	560.3841	0.0134	0.0589	578.2786

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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					3.9648	0.0000	3.9648	1.5652	0.0000	1.5652			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	3.9648	1.1309	5.0957	1.5652	1.0404	2.6057	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0224	0.7035	0.2849	3.4600e-003	0.1199	5.1800e-003	0.1251	0.0349	4.9600e-003	0.0398		371.1892	371.1892	9.4500e-003	0.0548	387.7489
Worker	0.0675	0.0373	0.6478	1.8700e-003	0.2061	1.0000e-003	0.2071	0.0550	9.2000e-004	0.0559		189.1949	189.1949	3.9700e-003	4.1500e-003	190.5297
Total	0.0900	0.7409	0.9327	5.3300e-003	0.3260	6.1800e-003	0.3322	0.0899	5.8800e-003	0.0958		560.3841	560.3841	0.0134	0.0589	578.2786

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

3.6 Paving 1 - 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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.5642					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4793	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0506	0.0280	0.4858	1.4000e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		141.8962	141.8962	2.9800e-003	3.1100e-003	142.8973
Total	0.0506	0.0280	0.4858	1.4000e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		141.8962	141.8962	2.9800e-003	3.1100e-003	142.8973

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.5642					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4793	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0506	0.0280	0.4858	1.4000e-003	0.1546	7.5000e-004	0.1553	0.0413	6.9000e-004	0.0419		141.8962	141.8962	2.9800e-003	3.1100e-003	142.8973
Total	0.0506	0.0280	0.4858	1.4000e-003	0.1546	7.5000e-004	0.1553	0.0413	6.9000e-004	0.0419		141.8962	141.8962	2.9800e-003	3.1100e-003	142.8973

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

3.7 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.1301	4.0805	1.6526	0.0201	0.7432	0.0301	0.7732	0.2140	0.0288	0.2428		2,152.8974	2,152.8974	0.0548	0.3177	2,248.9435
Worker	0.9992	0.5525	9.5870	0.0277	3.3086	0.0148	3.3234	0.8775	0.0137	0.8911		2,800.0847	2,800.0847	0.0588	0.0614	2,819.8392
Total	1.1293	4.6329	11.2396	0.0478	4.0518	0.0449	4.0966	1.0914	0.0424	1.1339		4,952.9821	4,952.9821	0.1136	0.3791	5,068.7827

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.1301	4.0805	1.6526	0.0201	0.6956	0.0301	0.7256	0.2023	0.0288	0.2311		2,152.8974	2,152.8974	0.0548	0.3177	2,248.9435
Worker	0.9992	0.5525	9.5870	0.0277	3.0497	0.0148	3.0645	0.8139	0.0137	0.8276		2,800.0847	2,800.0847	0.0588	0.0614	2,819.8392
Total	1.1293	4.6329	11.2396	0.0478	3.7453	0.0449	3.7902	1.0162	0.0424	1.0586		4,952.9821	4,952.9821	0.1136	0.3791	5,068.7827

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

3.7 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.1278	4.0503	1.6306	0.0197	0.7432	0.0299	0.7731	0.2140	0.0286	0.2426		2,110.1139	2,110.1139	0.0531	0.3112	2,204.1798
Worker	0.9342	0.4979	8.9533	0.0268	3.3086	0.0141	3.3226	0.8775	0.0129	0.8904		2,711.6062	2,711.6062	0.0531	0.0576	2,730.1021
Total	1.0620	4.5482	10.5839	0.0465	4.0517	0.0439	4.0957	1.0914	0.0415	1.1330		4,821.7200	4,821.7200	0.1062	0.3688	4,934.2819

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.1278	4.0503	1.6306	0.0197	0.6955	0.0299	0.7254	0.2023	0.0286	0.2309		2,110.1139	2,110.1139	0.0531	0.3112	2,204.1798
Worker	0.9342	0.4979	8.9533	0.0268	3.0497	0.0141	3.0638	0.8139	0.0129	0.8268		2,711.6062	2,711.6062	0.0531	0.0576	2,730.1021
Total	1.0620	4.5482	10.5839	0.0465	3.7453	0.0439	3.7892	1.0162	0.0415	1.0577		4,821.7200	4,821.7200	0.1062	0.3688	4,934.2819

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

3.8 Paving 2 - 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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.7359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6510	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0473	0.0252	0.4537	1.3600e-003	0.1677	7.1000e-004	0.1684	0.0445	6.6000e-004	0.0451		137.4125	137.4125	2.6900e-003	2.9200e-003	138.3498
Total	0.0473	0.0252	0.4537	1.3600e-003	0.1677	7.1000e-004	0.1684	0.0445	6.6000e-004	0.0451		137.4125	137.4125	2.6900e-003	2.9200e-003	138.3498

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.7359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6510	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0473	0.0252	0.4537	1.3600e-003	0.1546	7.1000e-004	0.1553	0.0413	6.6000e-004	0.0419		137.4125	137.4125	2.6900e-003	2.9200e-003	138.3498
Total	0.0473	0.0252	0.4537	1.3600e-003	0.1546	7.1000e-004	0.1553	0.0413	6.6000e-004	0.0419		137.4125	137.4125	2.6900e-003	2.9200e-003	138.3498

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Architectural Coating - 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					
Archit. Coating	30.6470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	30.8179	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.1862	0.0992	1.7846	5.3500e-003	0.6595	2.8000e-003	0.6623	0.1749	2.5800e-003	0.1775		540.4891	540.4891	0.0106	0.0115	544.1758
Total	0.1862	0.0992	1.7846	5.3500e-003	0.6595	2.8000e-003	0.6623	0.1749	2.5800e-003	0.1775		540.4891	540.4891	0.0106	0.0115	544.1758

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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	30.6470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	30.8179	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.1862	0.0992	1.7846	5.3500e-003	0.6079	2.8000e-003	0.6107	0.1622	2.5800e-003	0.1648		540.4891	540.4891	0.0106	0.0115	544.1758
Total	0.1862	0.0992	1.7846	5.3500e-003	0.6079	2.8000e-003	0.6107	0.1622	2.5800e-003	0.1648		540.4891	540.4891	0.0106	0.0115	544.1758

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Winter

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

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	137.00	1000sqft	1.26	137,000.00	0
Other Asphalt Surfaces	30.00	1000sqft	0.69	30,000.00	0
Other Non-Asphalt Surfaces	286.52	1000sqft	6.58	286,525.00	0
Parking Lot	251.30	1000sqft	5.77	251,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			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 - based on information provided by applicant

Construction Phase - based on information provided by applicant, see normalized schedule in assumptions file

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - see assumptions file for water truck trips calculations

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading -

Architectural Coating - SCAQMD Rule 1113, only parking lot area considered for striping

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

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	34,070.00	15,078.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	28.00
tblConstructionPhase	NumDays	30.00	84.00
tblConstructionPhase	NumDays	30.00	45.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	300.00	339.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	20.00	23.00
tblGrading	AcresOfGrading	135.00	138.00
tblLandUse	LandUseSquareFeet	286,520.00	286,525.00
tblLandUse	LotAcreage	3.15	1.26
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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					
2024	6.0525	61.0567	47.7203	0.1102	29.5288	2.5767	32.1055	13.9390	2.3709	16.3098	0.0000	10,756.0718	10,756.0718	3.1632	0.1153	10,869.4985
2025	6.1517	58.6779	57.6583	0.1399	19.2148	2.3342	21.5490	7.5164	2.1479	9.6643	0.0000	13,629.8079	13,629.8079	4.0755	0.3852	13,767.1839
2026	35.0876	27.1287	43.3961	0.1029	4.8789	1.0451	5.9240	1.3108	0.9777	2.2885	0.0000	10,232.8792	10,232.8792	1.4497	0.3864	10,384.2743
Maximum	35.0876	61.0567	57.6583	0.1399	29.5288	2.5767	32.1055	13.9390	2.3709	16.3098	0.0000	13,629.8079	13,629.8079	4.0755	0.3864	13,767.1839

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					
2024	6.0525	61.0567	47.7203	0.1102	12.9573	2.5767	15.5339	6.0515	2.3709	8.4224	0.0000	10,756.0718	10,756.0718	3.1632	0.1153	10,869.4985
2025	6.1517	58.6779	57.6583	0.1399	8.5822	2.3342	10.9164	3.3152	2.1479	5.4631	0.0000	13,629.8079	13,629.8079	4.0755	0.3852	13,767.1839
2026	35.0876	27.1287	43.3961	0.1029	4.5077	1.0451	5.5528	1.2197	0.9777	2.1974	0.0000	10,232.8792	10,232.8792	1.4497	0.3864	10,384.2743
Maximum	35.0876	61.0567	57.6583	0.1399	12.9573	2.5767	15.5339	6.0515	2.3709	8.4224	0.0000	13,629.8079	13,629.8079	4.0755	0.3864	13,767.1839

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	51.42	0.00	46.28	53.50	0.00	43.09	0.00	0.00	0.00	0.00	0.00	0.00

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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	Site Preparation	Site Preparation	9/1/2024	10/9/2024	5	28	
2	Rough Grading	Grading	10/9/2024	2/3/2025	5	84	
3	Utilities Trenching	Trenching	12/26/2024	2/3/2025	5	28	
4	Fine Grading	Grading	2/3/2025	4/4/2025	5	45	
5	Paving 1	Paving	4/4/2025	5/15/2025	5	30	
6	Building Construction	Building Construction	5/15/2025	9/1/2026	5	339	
7	Paving 2	Paving	7/31/2026	9/1/2026	5	23	
8	Architectural Coating	Architectural Coating	7/31/2026	9/1/2026	5	23	

Acres of Grading (Site Preparation Phase): 42

Acres of Grading (Grading Phase): 252

Acres of Paving: 13.04

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 205,500; Non-Residential Outdoor: 68,500; Striped Parking Area: 15,078

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Rough Grading	Excavators	2	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities Trenching	Excavators	1	8.00	158	0.38
Fine Grading	Excavators	2	8.00	158	0.38
Fine Grading	Graders	1	8.00	187	0.41

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving 1	Pavers	2	8.00	130	0.42
Paving 1	Paving Equipment	2	8.00	132	0.36
Paving 1	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving 2	Pavers	2	8.00	130	0.42
Paving 2	Paving Equipment	2	8.00	132	0.36
Paving 2	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	18.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utilities Trenching	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	8	20.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 1	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	296.00	116.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 2	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	59.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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 Site Preparation - 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					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
Total	2.6609	27.1760	18.3356	0.0381	19.6570	1.2294	20.8864	10.1025	1.1310	11.2335		3,688.0100	3,688.0100	1.1928		3,717.8294

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	0.0191	0.6727	0.2686	3.1800e-003	0.1153	4.6900e-003	0.1200	0.0332	4.4900e-003	0.0377		341.5266	341.5266	8.6800e-003	0.0505	356.7805
Worker	0.0631	0.0396	0.5186	1.5800e-003	0.2012	9.5000e-004	0.2022	0.0534	8.7000e-004	0.0542		159.7797	159.7797	3.9900e-003	4.1400e-003	161.1120
Total	0.0822	0.7123	0.7872	4.7600e-003	0.3165	5.6400e-003	0.3222	0.0866	5.3600e-003	0.0919		501.3063	501.3063	0.0127	0.0546	517.8925

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
Total	2.6609	27.1760	18.3356	0.0381	8.4034	1.2294	9.6327	4.3188	1.1310	5.4498	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294

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	0.0191	0.6727	0.2686	3.1800e-003	0.1079	4.6900e-003	0.1126	0.0314	4.4900e-003	0.0359		341.5266	341.5266	8.6800e-003	0.0505	356.7805
Worker	0.0631	0.0396	0.5186	1.5800e-003	0.1855	9.5000e-004	0.1864	0.0495	8.7000e-004	0.0504		159.7797	159.7797	3.9900e-003	4.1400e-003	161.1120
Total	0.0822	0.7123	0.7872	4.7600e-003	0.2934	5.6400e-003	0.2990	0.0809	5.3600e-003	0.0863		501.3063	501.3063	0.0127	0.0546	517.8925

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Rough Grading - 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					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.2036	1.3354	10.5390	3.6538	1.2286	4.8823		6,009.7487	6,009.7487	1.9437		6,058.3405

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	0.0212	0.7475	0.2985	3.5400e-003	0.1281	5.2100e-003	0.1334	0.0369	4.9900e-003	0.0419		379.4739	379.4739	9.6500e-003	0.0561	396.4228
Worker	0.0701	0.0440	0.5762	1.7600e-003	0.2236	1.0600e-003	0.2246	0.0593	9.7000e-004	0.0603		177.5330	177.5330	4.4300e-003	4.6000e-003	179.0133
Total	0.0913	0.7915	0.8747	5.3000e-003	0.3517	6.2700e-003	0.3580	0.0962	5.9600e-003	0.1021		557.0070	557.0070	0.0141	0.0607	575.4361

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	3.9345	1.3354	5.2699	1.5620	1.2286	2.7906	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

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	0.0212	0.7475	0.2985	3.5400e-003	0.1199	5.2100e-003	0.1251	0.0349	4.9900e-003	0.0399		379.4739	379.4739	9.6500e-003	0.0561	396.4228
Worker	0.0701	0.0440	0.5762	1.7600e-003	0.2061	1.0600e-003	0.2071	0.0550	9.7000e-004	0.0560		177.5330	177.5330	4.4300e-003	4.6000e-003	179.0133
Total	0.0913	0.7915	0.8747	5.3000e-003	0.3260	6.2700e-003	0.3323	0.0899	5.9600e-003	0.0958		557.0070	557.0070	0.0141	0.0607	575.4361

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Rough Grading - 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					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.2036	1.1309	10.3345	3.6538	1.0404	4.6942		6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0208	0.7431	0.2939	3.4700e-003	0.1281	5.2000e-003	0.1333	0.0369	4.9800e-003	0.0419		372.1051	372.1051	9.3700e-003	0.0550	388.7130
Worker	0.0654	0.0392	0.5344	1.7000e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		171.4870	171.4870	3.9900e-003	4.2800e-003	172.8613
Total	0.0861	0.7823	0.8283	5.1700e-003	0.3517	6.2000e-003	0.3579	0.0962	5.9000e-003	0.1021		543.5921	543.5921	0.0134	0.0592	561.5743

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	3.9345	1.1309	5.0654	1.5620	1.0404	2.6024	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0208	0.7431	0.2939	3.4700e-003	0.1199	5.2000e-003	0.1251	0.0349	4.9800e-003	0.0399		372.1051	372.1051	9.3700e-003	0.0550	388.7130
Worker	0.0654	0.0392	0.5344	1.7000e-003	0.2061	1.0000e-003	0.2071	0.0550	9.2000e-004	0.0559		171.4870	171.4870	3.9900e-003	4.2800e-003	172.8613
Total	0.0861	0.7823	0.8283	5.1700e-003	0.3260	6.2000e-003	0.3322	0.0899	5.9000e-003	0.0958		543.5921	543.5921	0.0134	0.0592	561.5743

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Utilities Trenching - 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	0.1803	1.4029	3.2650	5.1700e-003		0.0691	0.0691		0.0636	0.0636		500.2654	500.2654	0.1618		504.3103
Total	0.1803	1.4029	3.2650	5.1700e-003		0.0691	0.0691		0.0636	0.0636		500.2654	500.2654	0.1618		504.3103

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	0.0105	6.6000e-003	0.0864	2.6000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		26.6300	26.6300	6.6000e-004	6.9000e-004	26.8520
Total	0.0105	6.6000e-003	0.0864	2.6000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		26.6300	26.6300	6.6000e-004	6.9000e-004	26.8520

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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	0.1803	1.4029	3.2650	5.1700e-003		0.0691	0.0691		0.0636	0.0636	0.0000	500.2654	500.2654	0.1618		504.3103
Total	0.1803	1.4029	3.2650	5.1700e-003		0.0691	0.0691		0.0636	0.0636	0.0000	500.2654	500.2654	0.1618		504.3103

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	0.0105	6.6000e-003	0.0864	2.6000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.3900e-003		26.6300	26.6300	6.6000e-004	6.9000e-004	26.8520
Total	0.0105	6.6000e-003	0.0864	2.6000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.3900e-003		26.6300	26.6300	6.6000e-004	6.9000e-004	26.8520

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Utilities Trenching - 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	0.1671	1.2217	3.2594	5.1700e-003		0.0599	0.0599		0.0551	0.0551		500.3379	500.3379	0.1618		504.3834
Total	0.1671	1.2217	3.2594	5.1700e-003		0.0599	0.0599		0.0551	0.0551		500.3379	500.3379	0.1618		504.3834

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	9.8000e-003	5.8800e-003	0.0802	2.5000e-004	0.0335	1.5000e-004	0.0337	8.8900e-003	1.4000e-004	9.0300e-003		25.7230	25.7230	6.0000e-004	6.4000e-004	25.9292
Total	9.8000e-003	5.8800e-003	0.0802	2.5000e-004	0.0335	1.5000e-004	0.0337	8.8900e-003	1.4000e-004	9.0300e-003		25.7230	25.7230	6.0000e-004	6.4000e-004	25.9292

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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	0.1671	1.2217	3.2594	5.1700e-003		0.0599	0.0599		0.0551	0.0551	0.0000	500.3379	500.3379	0.1618		504.3834
Total	0.1671	1.2217	3.2594	5.1700e-003		0.0599	0.0599		0.0551	0.0551	0.0000	500.3379	500.3379	0.1618		504.3834

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	9.8000e-003	5.8800e-003	0.0802	2.5000e-004	0.0309	1.5000e-004	0.0311	8.2500e-003	1.4000e-004	8.3900e-003		25.7230	25.7230	6.0000e-004	6.4000e-004	25.9292
Total	9.8000e-003	5.8800e-003	0.0802	2.5000e-004	0.0309	1.5000e-004	0.0311	8.2500e-003	1.4000e-004	8.3900e-003		25.7230	25.7230	6.0000e-004	6.4000e-004	25.9292

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Fine Grading - 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					
Fugitive Dust					9.2743	0.0000	9.2743	3.6614	0.0000	3.6614			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.2743	1.1309	10.4052	3.6614	1.0404	4.7018		6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0208	0.7431	0.2939	3.4700e-003	0.1281	5.2000e-003	0.1333	0.0369	4.9800e-003	0.0419		372.1051	372.1051	9.3700e-003	0.0550	388.7130
Worker	0.0654	0.0392	0.5344	1.7000e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		171.4870	171.4870	3.9900e-003	4.2800e-003	172.8613
Total	0.0861	0.7823	0.8283	5.1700e-003	0.3517	6.2000e-003	0.3579	0.0962	5.9000e-003	0.1021		543.5921	543.5921	0.0134	0.0592	561.5743

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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					3.9648	0.0000	3.9648	1.5652	0.0000	1.5652			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	3.9648	1.1309	5.0957	1.5652	1.0404	2.6057	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0208	0.7431	0.2939	3.4700e-003	0.1199	5.2000e-003	0.1251	0.0349	4.9800e-003	0.0399		372.1051	372.1051	9.3700e-003	0.0550	388.7130
Worker	0.0654	0.0392	0.5344	1.7000e-003	0.2061	1.0000e-003	0.2071	0.0550	9.2000e-004	0.0559		171.4870	171.4870	3.9900e-003	4.2800e-003	172.8613
Total	0.0861	0.7823	0.8283	5.1700e-003	0.3260	6.2000e-003	0.3322	0.0899	5.9000e-003	0.0958		543.5921	543.5921	0.0134	0.0592	561.5743

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving 1 - 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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.5642					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4793	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0490	0.0294	0.4008	1.2700e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		128.6152	128.6152	3.0000e-003	3.2100e-003	129.6460
Total	0.0490	0.0294	0.4008	1.2700e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		128.6152	128.6152	3.0000e-003	3.2100e-003	129.6460

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.5642					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4793	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0490	0.0294	0.4008	1.2700e-003	0.1546	7.5000e-004	0.1553	0.0413	6.9000e-004	0.0419		128.6152	128.6152	3.0000e-003	3.2100e-003	129.6460
Total	0.0490	0.0294	0.4008	1.2700e-003	0.1546	7.5000e-004	0.1553	0.0413	6.9000e-004	0.0419		128.6152	128.6152	3.0000e-003	3.2100e-003	129.6460

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.1206	4.3098	1.7043	0.0201	0.7432	0.0302	0.7734	0.2140	0.0289	0.2429		2,158.2096	2,158.2096	0.0543	0.3187	2,254.5351
Worker	0.9671	0.5805	7.9096	0.0251	3.3086	0.0148	3.3234	0.8775	0.0137	0.8911		2,538.0069	2,538.0069	0.0591	0.0633	2,558.3472
Total	1.0877	4.8902	9.6140	0.0452	4.0518	0.0450	4.0968	1.0914	0.0425	1.1340		4,696.2165	4,696.2165	0.1134	0.3820	4,812.8823

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.1206	4.3098	1.7043	0.0201	0.6956	0.0302	0.7257	0.2023	0.0289	0.2312		2,158.2096	2,158.2096	0.0543	0.3187	2,254.5351
Worker	0.9671	0.5805	7.9096	0.0251	3.0497	0.0148	3.0645	0.8139	0.0137	0.8276		2,538.0069	2,538.0069	0.0591	0.0633	2,558.3472
Total	1.0877	4.8902	9.6140	0.0452	3.7453	0.0450	3.7903	1.0162	0.0425	1.0587		4,696.2165	4,696.2165	0.1134	0.3820	4,812.8823

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

3.7 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.1183	4.2782	1.6819	0.0197	0.7432	0.0300	0.7732	0.2140	0.0287	0.2427		2,115.3597	2,115.3597	0.0527	0.3122	2,209.6988
Worker	0.9064	0.5230	7.3940	0.0243	3.3086	0.0141	3.3226	0.8775	0.0129	0.8904		2,458.2815	2,458.2815	0.0536	0.0594	2,477.3262
Total	1.0247	4.8012	9.0759	0.0441	4.0517	0.0441	4.0958	1.0914	0.0416	1.1331		4,573.6412	4,573.6412	0.1062	0.3716	4,687.0250

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.1183	4.2782	1.6819	0.0197	0.6955	0.0300	0.7255	0.2023	0.0287	0.2310		2,115.3597	2,115.3597	0.0527	0.3122	2,209.6988
Worker	0.9064	0.5230	7.3940	0.0243	3.0497	0.0141	3.0638	0.8139	0.0129	0.8268		2,458.2815	2,458.2815	0.0536	0.0594	2,477.3262
Total	1.0247	4.8012	9.0759	0.0441	3.7453	0.0441	3.7893	1.0162	0.0416	1.0578		4,573.6412	4,573.6412	0.1062	0.3716	4,687.0250

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Paving 2 - 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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.7359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6510	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0459	0.0265	0.3747	1.2300e-003	0.1677	7.1000e-004	0.1684	0.0445	6.6000e-004	0.0451		124.5751	124.5751	2.7200e-003	3.0100e-003	125.5402
Total	0.0459	0.0265	0.3747	1.2300e-003	0.1677	7.1000e-004	0.1684	0.0445	6.6000e-004	0.0451		124.5751	124.5751	2.7200e-003	3.0100e-003	125.5402

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.7359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6510	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0459	0.0265	0.3747	1.2300e-003	0.1546	7.1000e-004	0.1553	0.0413	6.6000e-004	0.0419		124.5751	124.5751	2.7200e-003	3.0100e-003	125.5402
Total	0.0459	0.0265	0.3747	1.2300e-003	0.1546	7.1000e-004	0.1553	0.0413	6.6000e-004	0.0419		124.5751	124.5751	2.7200e-003	3.0100e-003	125.5402

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Architectural Coating - 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					
Archit. Coating	30.6470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	30.8179	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.1807	0.1042	1.4738	4.8500e-003	0.6595	2.8000e-003	0.6623	0.1749	2.5800e-003	0.1775		489.9953	489.9953	0.0107	0.0118	493.7914
Total	0.1807	0.1042	1.4738	4.8500e-003	0.6595	2.8000e-003	0.6623	0.1749	2.5800e-003	0.1775		489.9953	489.9953	0.0107	0.0118	493.7914

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Construction - San Bernardino-South Coast 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	30.6470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	30.8179	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.1807	0.1042	1.4738	4.8500e-003	0.6079	2.8000e-003	0.6107	0.1622	2.5800e-003	0.1648		489.9953	489.9953	0.0107	0.0118	493.7914
Total	0.1807	0.1042	1.4738	4.8500e-003	0.6079	2.8000e-003	0.6107	0.1622	2.5800e-003	0.1648		489.9953	489.9953	0.0107	0.0118	493.7914

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast County, Annual

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

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling
San Bernardino-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	137.00	1000sqft	1.26	137,000.00	0
Other Asphalt Surfaces	30.00	1000sqft	0.69	30,000.00	0
Other Non-Asphalt Surfaces	286.52	1000sqft	6.58	286,525.00	0
Parking Lot	251.30	1000sqft	5.77	251,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - based on information provided by applicant

Construction Phase - based on information provided by applicant, see normalized schedule in assumptions file

Off-road Equipment -

Trips and VMT - see calculations in assumptions file

Grading -

Architectural Coating - SCAQMD Rule 1113, only parking lot area considered for striping

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast County, Annual

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

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

Off-road Equipment - no additional equipment required for soil hauling

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	9.00
tblGrading	MaterialImported	0.00	12,000.00
tblLandUse	LandUseSquareFeet	286,520.00	286,525.00
tblLandUse	LotAcreage	3.15	1.26
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	HaulingTripNumber	1,500.00	1,519.00

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					
2024	1.7600e-003	0.0886	0.0257	4.2000e-004	0.0138	8.7000e-004	0.0146	3.7000e-003	8.3000e-004	4.5300e-003	0.0000	41.4729	41.4729	1.7400e-003	6.5700e-003	43.4754
Maximum	1.7600e-003	0.0886	0.0257	4.2000e-004	0.0138	8.7000e-004	0.0146	3.7000e-003	8.3000e-004	4.5300e-003	0.0000	41.4729	41.4729	1.7400e-003	6.5700e-003	43.4754

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast 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					
2024	1.7600e-003	0.0886	0.0257	4.2000e-004	0.0125	8.7000e-004	0.0134	3.4200e-003	8.3000e-004	4.2500e-003	0.0000	41.4729	41.4729	1.7400e-003	6.5700e-003	43.4754
Maximum	1.7600e-003	0.0886	0.0257	4.2000e-004	0.0125	8.7000e-004	0.0134	3.4200e-003	8.3000e-004	4.2500e-003	0.0000	41.4729	41.4729	1.7400e-003	6.5700e-003	43.4754

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	9.23	0.00	8.75	7.57	0.00	6.18	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)
2	9-1-2024	9-30-2024	0.0272	0.0272
		Highest	0.0272	0.0272

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast 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	Site Preparation Soil Haul	Site Preparation	9/27/2024	10/9/2024	5	9	b

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 13.04

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
Site Preparation Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation Soil Haul	0	0.00	0.00	1,519.00	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

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation Soil Haul - 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					
Fugitive Dust					6.8000e-004	0.0000	6.8000e-004	1.0000e-004	0.0000	1.0000e-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	6.8000e-004	0.0000	6.8000e-004	1.0000e-004	0.0000	1.0000e-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	1.7600e-003	0.0886	0.0257	4.2000e-004	0.0131	8.7000e-004	0.0140	3.5900e-003	8.3000e-004	4.4200e-003	0.0000	41.4729	41.4729	1.7400e-003	6.5700e-003	43.4754
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.7600e-003	0.0886	0.0257	4.2000e-004	0.0131	8.7000e-004	0.0140	3.5900e-003	8.3000e-004	4.4200e-003	0.0000	41.4729	41.4729	1.7400e-003	6.5700e-003	43.4754

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast 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					2.9000e-004	0.0000	2.9000e-004	4.0000e-005	0.0000	4.0000e-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	2.9000e-004	0.0000	2.9000e-004	4.0000e-005	0.0000	4.0000e-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	1.7600e-003	0.0886	0.0257	4.2000e-004	0.0122	8.7000e-004	0.0131	3.3800e-003	8.3000e-004	4.2100e-003	0.0000	41.4729	41.4729	1.7400e-003	6.5700e-003	43.4754
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.7600e-003	0.0886	0.0257	4.2000e-004	0.0122	8.7000e-004	0.0131	3.3800e-003	8.3000e-004	4.2100e-003	0.0000	41.4729	41.4729	1.7400e-003	6.5700e-003	43.4754

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast County, Summer

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

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	137.00	1000sqft	1.26	137,000.00	0
Other Asphalt Surfaces	30.00	1000sqft	0.69	30,000.00	0
Other Non-Asphalt Surfaces	286.52	1000sqft	6.58	286,525.00	0
Parking Lot	251.30	1000sqft	5.77	251,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - based on information provided by applicant

Construction Phase - based on information provided by applicant, see normalized schedule in assumptions file

Off-road Equipment -

Trips and VMT - see calculations in assumptions file

Grading -

Architectural Coating - SCAQMD Rule 1113, only parking lot area considered for striping

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

Off-road Equipment - no additional equipment required for soil hauling

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast County, Summer

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	9.00
tblGrading	MaterialImported	0.00	12,000.00
tblLandUse	LandUseSquareFeet	286,520.00	286,525.00
tblLandUse	LotAcreage	3.15	1.26
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	HaulingTripNumber	1,500.00	1,519.00

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					
2024	0.4030	18.6248	5.6685	0.0932	3.1064	0.1927	3.2990	0.8333	0.1843	1.0176	0.0000	10,152.6481	10,152.6481	0.4281	1.6092	10,642.8864
Maximum	0.4030	18.6248	5.6685	0.0932	3.1064	0.1927	3.2990	0.8333	0.1843	1.0176	0.0000	10,152.6481	10,152.6481	0.4281	1.6092	10,642.8864

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast 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					
2024	0.4030	18.6248	5.6685	0.0932	2.8192	0.1927	3.0119	0.7709	0.1843	0.9552	0.0000	10,152.6481	10,152.6481	0.4281	1.6092	10,642.8864
Maximum	0.4030	18.6248	5.6685	0.0932	2.8192	0.1927	3.0119	0.7709	0.1843	0.9552	0.0000	10,152.6481	10,152.6481	0.4281	1.6092	10,642.8864

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	9.24	0.00	8.70	7.48	0.00	6.13	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	Site Preparation Soil Haul	Site Preparation	9/27/2024	10/9/2024	5	9	b

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 13.04

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

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast 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
Site Preparation Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation Soil Haul	0	0.00	0.00	1,519.00	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 Site Preparation Soil Haul - 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					
Fugitive Dust					0.1508	0.0000	0.1508	0.0228	0.0000	0.0228			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	0.1508	0.0000	0.1508	0.0228	0.0000	0.0228		0.0000	0.0000	0.0000		0.0000

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast 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	0.4030	18.6248	5.6685	0.0932	2.9556	0.1927	3.1482	0.8104	0.1843	0.9948		10,152.6481	10,152.6481	0.4281	1.6092	10,642.8864
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.4030	18.6248	5.6685	0.0932	2.9556	0.1927	3.1482	0.8104	0.1843	0.9948		10,152.6481	10,152.6481	0.4281	1.6092	10,642.8864

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0645	0.0000	0.0645	9.7600e-003	0.0000	9.7600e-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	0.0645	0.0000	0.0645	9.7600e-003	0.0000	9.7600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast 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	0.4030	18.6248	5.6685	0.0932	2.7547	0.1927	2.9474	0.7611	0.1843	0.9455		10,152.6481	10,152.6481	0.4281	1.6092	10,642.8864
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.4030	18.6248	5.6685	0.0932	2.7547	0.1927	2.9474	0.7611	0.1843	0.9455		10,152.6481	10,152.6481	0.4281	1.6092	10,642.8864

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	137.00	1000sqft	1.26	137,000.00	0
Other Asphalt Surfaces	30.00	1000sqft	0.69	30,000.00	0
Other Non-Asphalt Surfaces	286.52	1000sqft	6.58	286,525.00	0
Parking Lot	251.30	1000sqft	5.77	251,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - based on information provided by applicant

Construction Phase - based on information provided by applicant, see normalized schedule in assumptions file

Off-road Equipment -

Trips and VMT - see calculations in assumptions file

Grading -

Architectural Coating - SCAQMD Rule 1113, only parking lot area considered for striping

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

Off-road Equipment - no additional equipment required for soil hauling

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast County, Winter

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	9.00
tblGrading	MaterialImported	0.00	12,000.00
tblLandUse	LandUseSquareFeet	286,520.00	286,525.00
tblLandUse	LotAcreage	3.15	1.26
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	HaulingTripNumber	1,500.00	1,519.00

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					
2024	0.3724	19.6330	5.7701	0.0933	3.1064	0.1930	3.2993	0.8333	0.1846	1.0179	0.0000	10,168.0811	10,168.0811	0.4265	1.6116	10,659.0087
Maximum	0.3724	19.6330	5.7701	0.0933	3.1064	0.1930	3.2993	0.8333	0.1846	1.0179	0.0000	10,168.0811	10,168.0811	0.4265	1.6116	10,659.0087

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast 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					
2024	0.3724	19.6330	5.7701	0.0933	2.8192	0.1930	3.0122	0.7709	0.1846	0.9555	0.0000	10,168.0811	10,168.0811	0.4265	1.6116	10,659.0087
Maximum	0.3724	19.6330	5.7701	0.0933	2.8192	0.1930	3.0122	0.7709	0.1846	0.9555	0.0000	10,168.0811	10,168.0811	0.4265	1.6116	10,659.0087

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	9.24	0.00	8.70	7.48	0.00	6.13	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	Site Preparation Soil Haul	Site Preparation	9/27/2024	10/9/2024	5	9	b

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 13.04

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

OffRoad Equipment

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast 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
Site Preparation Soil Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation Soil Haul	0	0.00	0.00	1,519.00	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 Site Preparation Soil Haul - 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					
Fugitive Dust					0.1508	0.0000	0.1508	0.0228	0.0000	0.0228			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	0.1508	0.0000	0.1508	0.0228	0.0000	0.0228		0.0000	0.0000	0.0000		0.0000

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast 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	0.3724	19.6330	5.7701	0.0933	2.9556	0.1930	3.1486	0.8104	0.1846	0.9951		10,168.0811	10,168.0811	0.4265	1.6116	10,659.0087
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.3724	19.6330	5.7701	0.0933	2.9556	0.1930	3.1486	0.8104	0.1846	0.9951		10,168.0811	10,168.0811	0.4265	1.6116	10,659.0087

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0645	0.0000	0.0645	9.7600e-003	0.0000	9.7600e-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	0.0645	0.0000	0.0645	9.7600e-003	0.0000	9.7600e-003	0.0000	0.0000	0.0000	0.0000		0.0000

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Soil Hauling - San Bernardino-South Coast 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	0.3724	19.6330	5.7701	0.0933	2.7547	0.1930	2.9477	0.7611	0.1846	0.9458		10,168.0811	10,168.0811	0.4265	1.6116	10,659.0087
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.3724	19.6330	5.7701	0.0933	2.7547	0.1930	2.9477	0.7611	0.1846	0.9458		10,168.0811	10,168.0811	0.4265	1.6116	10,659.0087

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Annual

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

**Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run
San Bernardino-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	72.00	1000sqft	0.55	72,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2029
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - 2020 SCE Sustainability Report
- Land Use - based on info from applicant
- Construction Phase - see normalized schedule in assumptions file
- Trips and VMT - see assumptions file for water truck trip calculations
- Grading -
- Architectural Coating - based on building area of each building. SCAQMD Rule 1113
- Construction Off-road Equipment Mitigation - SCAQMD Rules 403 and 1186

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	36,000.00	16,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	36,000.00	10,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	B-16,000.00	10,000.00

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tblArchitecturalCoating	ConstArea_Nonresidential_Interior	108,000.00	48,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	108,000.00	30,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	108,000.00	30,000.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	5.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	13.00
tblConstructionPhase	NumDays	5.00	13.00
tblConstructionPhase	NumDays	5.00	13.00
tblConstructionPhase	NumDays	100.00	762.00
tblConstructionPhase	NumDays	2.00	16.00
tblConstructionPhase	NumDays	5.00	13.00
tblConstructionPhase	NumDays	1.00	8.00
tblGrading	AcresOfGrading	12.00	8.25
tblGrading	AcresOfGrading	4.00	3.00
tblLandUse	LotAcreage	1.65	0.55
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00

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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					
2027	0.0512	0.4864	0.5855	1.2200e-003	0.0703	0.0197	0.0900	0.0281	0.0181	0.0462	0.0000	109.1422	109.1422	0.0264	2.4700e-003	110.5365
2028	0.1200	0.7827	1.0390	2.0700e-003	0.0530	0.0323	0.0853	0.0143	0.0297	0.0440	0.0000	185.3407	185.3407	0.0434	4.3100e-003	187.7096
2029	0.1580	0.7849	1.0383	2.0700e-003	0.0532	0.0324	0.0856	0.0144	0.0298	0.0442	0.0000	184.8550	184.8550	0.0435	4.2200e-003	187.2006
2030	0.0897	0.2342	0.4974	1.1000e-003	0.0238	4.7400e-003	0.0285	6.4100e-003	4.7200e-003	0.0111	0.0000	96.5692	96.5692	3.5700e-003	1.7400e-003	97.1784
Maximum	0.1580	0.7849	1.0390	2.0700e-003	0.0703	0.0324	0.0900	0.0281	0.0298	0.0462	0.0000	185.3407	185.3407	0.0435	4.3100e-003	187.7096

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					
2027	0.0512	0.4864	0.5855	1.2200e-003	0.0441	0.0197	0.0638	0.0159	0.0181	0.0340	0.0000	109.1421	109.1421	0.0264	2.4700e-003	110.5364
2028	0.1200	0.7827	1.0390	2.0700e-003	0.0490	0.0323	0.0813	0.0133	0.0297	0.0431	0.0000	185.3405	185.3405	0.0434	4.3100e-003	187.7094
2029	0.1580	0.7849	1.0383	2.0700e-003	0.0492	0.0324	0.0816	0.0134	0.0298	0.0432	0.0000	184.8549	184.8549	0.0435	4.2200e-003	187.2004
2030	0.0897	0.2342	0.4974	1.1000e-003	0.0220	4.7400e-003	0.0267	5.9700e-003	4.7200e-003	0.0107	0.0000	96.5691	96.5691	3.5700e-003	1.7400e-003	97.1783
Maximum	0.1580	0.7849	1.0390	2.0700e-003	0.0492	0.0324	0.0816	0.0159	0.0298	0.0432	0.0000	185.3405	185.3405	0.0435	4.3100e-003	187.7094

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	17.98	0.00	12.45	23.20	0.00	10.08	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	6-1-2027	8-31-2027	0.2433	0.2433
2	9-1-2027	11-30-2027	0.2149	0.2149
3	12-1-2027	2-29-2028	0.2148	0.2148
4	3-1-2028	5-31-2028	0.2166	0.2166
5	6-1-2028	8-31-2028	0.2580	0.2580
6	9-1-2028	11-30-2028	0.2145	0.2145
7	12-1-2028	2-28-2029	0.2121	0.2121
8	3-1-2029	5-31-2029	0.2344	0.2344
9	6-1-2029	8-31-2029	0.2752	0.2752
10	9-1-2029	11-30-2029	0.2141	0.2141
11	12-1-2029	2-28-2030	0.1656	0.1656
12	3-1-2030	5-31-2030	0.2230	0.2230
13	6-1-2030	8-31-2030	0.0062	0.0062
		Highest	0.2752	0.2752

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3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2027	6/10/2027	5	8	a
2	Grading	Grading	6/10/2027	7/1/2027	5	16	b
3	Building Construction	Building Construction	7/1/2027	6/1/2030	5	762	c
4	Architectural Coating (IB II)	Architectural Coating	6/7/2028	6/23/2028	5	13	d
5	Architectural Coating (CTE/Training)	Architectural Coating	5/28/2029	6/13/2029	5	13	e
6	Paving	Paving	5/15/2030	6/1/2030	5	13	f
7	Architectural Coating (SCCC)	Architectural Coating	5/15/2030	6/1/2030	5	13	g

Acres of Grading (Site Preparation Phase): 3

Acres of Grading (Grading Phase): 8.25

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,000; Non-Residential Outdoor: 16,000; Striped Parking Area: 0 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating (CTE/Training)	Air Compressors	1	6.00	78	0.48

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Architectural Coating (IB II)	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating (SCCC)	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	30.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (CTE/Training)	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (IB II)	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (SCCC)	1	6.00	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

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3.2 Site Preparation - 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					
Fugitive Dust					1.5900e-003	0.0000	1.5900e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7700e-003	0.0192	0.0153	4.0000e-005		6.6000e-004	6.6000e-004		6.1000e-004	6.1000e-004	0.0000	3.4193	3.4193	1.1100e-003	0.0000	3.4470
Total	1.7700e-003	0.0192	0.0153	4.0000e-005	1.5900e-003	6.6000e-004	2.2500e-003	1.7000e-004	6.1000e-004	7.8000e-004	0.0000	3.4193	3.4193	1.1100e-003	0.0000	3.4470

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	3.0000e-005	8.7000e-004	3.4000e-004	0.0000	1.5000e-004	1.0000e-005	1.6000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.3881	0.3881	1.0000e-005	6.0000e-005	0.4054
Worker	5.0000e-005	3.0000e-005	4.9000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1492	0.1492	0.0000	0.0000	0.1503
Total	8.0000e-005	9.0000e-004	8.3000e-004	0.0000	3.7000e-004	1.0000e-005	3.8000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	0.5373	0.5373	1.0000e-005	6.0000e-005	0.5557

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.8000e-004	0.0000	6.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7700e-003	0.0192	0.0153	4.0000e-005		6.6000e-004	6.6000e-004		6.1000e-004	6.1000e-004	0.0000	3.4193	3.4193	1.1100e-003	0.0000	3.4470
Total	1.7700e-003	0.0192	0.0153	4.0000e-005	6.8000e-004	6.6000e-004	1.3400e-003	7.0000e-005	6.1000e-004	6.8000e-004	0.0000	3.4193	3.4193	1.1100e-003	0.0000	3.4470

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	3.0000e-005	8.7000e-004	3.4000e-004	0.0000	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.3881	0.3881	1.0000e-005	6.0000e-005	0.4054
Worker	5.0000e-005	3.0000e-005	4.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1492	0.1492	0.0000	0.0000	0.1503
Total	8.0000e-005	9.0000e-004	8.3000e-004	0.0000	3.4000e-004	1.0000e-005	3.5000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.5373	0.5373	1.0000e-005	6.0000e-005	0.5557

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3.3 Grading - 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					
Fugitive Dust					0.0405	0.0000	0.0405	0.0203	0.0000	0.0203	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6800e-003	0.0699	0.0432	1.1000e-004		2.7900e-003	2.7900e-003		2.5600e-003	2.5600e-003	0.0000	9.9043	9.9043	3.2000e-003	0.0000	9.9844
Total	6.6800e-003	0.0699	0.0432	1.1000e-004	0.0405	2.7900e-003	0.0433	0.0203	2.5600e-003	0.0229	0.0000	9.9043	9.9043	3.2000e-003	0.0000	9.9844

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	2.3300e-003	9.0000e-004	1.0000e-005	4.0000e-004	2.0000e-005	4.2000e-004	1.2000e-004	2.0000e-005	1.3000e-004	0.0000	1.0349	1.0349	3.0000e-005	1.5000e-004	1.0810
Worker	1.7000e-004	1.1000e-004	1.5800e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.4773	0.4773	1.0000e-005	1.0000e-005	0.4810
Total	2.4000e-004	2.4400e-003	2.4800e-003	2.0000e-005	1.1000e-003	2.0000e-005	1.1200e-003	3.1000e-004	2.0000e-005	3.2000e-004	0.0000	1.5122	1.5122	4.0000e-005	1.6000e-004	1.5620

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0173	0.0000	0.0173	8.6900e-003	0.0000	8.6900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6800e-003	0.0699	0.0432	1.1000e-004		2.7900e-003	2.7900e-003		2.5600e-003	2.5600e-003	0.0000	9.9043	9.9043	3.2000e-003	0.0000	9.9843
Total	6.6800e-003	0.0699	0.0432	1.1000e-004	0.0173	2.7900e-003	0.0201	8.6900e-003	2.5600e-003	0.0113	0.0000	9.9043	9.9043	3.2000e-003	0.0000	9.9843

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	2.3300e-003	9.0000e-004	1.0000e-005	3.8000e-004	2.0000e-005	3.9000e-004	1.1000e-004	2.0000e-005	1.3000e-004	0.0000	1.0349	1.0349	3.0000e-005	1.5000e-004	1.0810
Worker	1.7000e-004	1.1000e-004	1.5800e-003	1.0000e-005	6.5000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.4773	0.4773	1.0000e-005	1.0000e-005	0.4810
Total	2.4000e-004	2.4400e-003	2.4800e-003	2.0000e-005	1.0300e-003	2.0000e-005	1.0400e-003	2.8000e-004	2.0000e-005	3.1000e-004	0.0000	1.5122	1.5122	4.0000e-005	1.6000e-004	1.5620

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3.4 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	0.0364	0.3618	0.4639	7.5000e-004		0.0159	0.0159		0.0147	0.0147	0.0000	66.1952	66.1952	0.0214	0.0000	66.7304
Total	0.0364	0.3618	0.4639	7.5000e-004		0.0159	0.0159		0.0147	0.0147	0.0000	66.1952	66.1952	0.0214	0.0000	66.7304

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	8.3000e-004	0.0289	0.0112	1.3000e-004	4.9900e-003	2.0000e-004	5.2000e-003	1.4400e-003	1.9000e-004	1.6400e-003	0.0000	12.8069	12.8069	3.2000e-004	1.8900e-003	13.3778
Worker	5.2300e-003	3.3200e-003	0.0487	1.6000e-004	0.0217	9.0000e-005	0.0218	5.7700e-003	8.0000e-005	5.8500e-003	0.0000	14.7670	14.7670	3.0000e-004	3.5000e-004	14.8793
Total	6.0600e-003	0.0322	0.0599	2.9000e-004	0.0267	2.9000e-004	0.0270	7.2100e-003	2.7000e-004	7.4900e-003	0.0000	27.5739	27.5739	6.2000e-004	2.2400e-003	28.2571

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0364	0.3618	0.4639	7.5000e-004		0.0159	0.0159		0.0147	0.0147	0.0000	66.1951	66.1951	0.0214	0.0000	66.7303
Total	0.0364	0.3618	0.4639	7.5000e-004		0.0159	0.0159		0.0147	0.0147	0.0000	66.1951	66.1951	0.0214	0.0000	66.7303

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	8.3000e-004	0.0289	0.0112	1.3000e-004	4.6800e-003	2.0000e-004	4.8800e-003	1.3600e-003	1.9000e-004	1.5600e-003	0.0000	12.8069	12.8069	3.2000e-004	1.8900e-003	13.3778
Worker	5.2300e-003	3.3200e-003	0.0487	1.6000e-004	0.0200	9.0000e-005	0.0201	5.3500e-003	8.0000e-005	5.4300e-003	0.0000	14.7670	14.7670	3.0000e-004	3.5000e-004	14.8793
Total	6.0600e-003	0.0322	0.0599	2.9000e-004	0.0247	2.9000e-004	0.0250	6.7100e-003	2.7000e-004	6.9900e-003	0.0000	27.5739	27.5739	6.2000e-004	2.2400e-003	28.2571

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3.4 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	0.0716	0.7127	0.9137	1.4800e-003		0.0314	0.0314		0.0289	0.0289	0.0000	130.3844	130.3844	0.0422	0.0000	131.4387
Total	0.0716	0.7127	0.9137	1.4800e-003		0.0314	0.0314		0.0289	0.0289	0.0000	130.3844	130.3844	0.0422	0.0000	131.4387

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	1.6100e-003	0.0565	0.0218	2.5000e-004	9.8400e-003	4.0000e-004	0.0102	2.8400e-003	3.8000e-004	3.2200e-003	0.0000	24.7054	24.7054	6.1000e-004	3.6400e-003	25.8057
Worker	9.6700e-003	5.9800e-003	0.0909	3.1000e-004	0.0428	1.6000e-004	0.0429	0.0114	1.5000e-004	0.0115	0.0000	28.3082	28.3082	5.4000e-004	6.6000e-004	28.5181
Total	0.0113	0.0625	0.1127	5.6000e-004	0.0526	5.6000e-004	0.0532	0.0142	5.3000e-004	0.0147	0.0000	53.0135	53.0135	1.1500e-003	4.3000e-003	54.3238

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0716	0.7127	0.9137	1.4800e-003		0.0314	0.0314		0.0289	0.0289	0.0000	130.3843	130.3843	0.0422	0.0000	131.4385
Total	0.0716	0.7127	0.9137	1.4800e-003		0.0314	0.0314		0.0289	0.0289	0.0000	130.3843	130.3843	0.0422	0.0000	131.4385

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	1.6100e-003	0.0565	0.0218	2.5000e-004	9.2100e-003	4.0000e-004	9.6100e-003	2.6900e-003	3.8000e-004	3.0700e-003	0.0000	24.7054	24.7054	6.1000e-004	3.6400e-003	25.8057
Worker	9.6700e-003	5.9800e-003	0.0909	3.1000e-004	0.0394	1.6000e-004	0.0396	0.0105	1.5000e-004	0.0107	0.0000	28.3082	28.3082	5.4000e-004	6.6000e-004	28.5181
Total	0.0113	0.0625	0.1127	5.6000e-004	0.0486	5.6000e-004	0.0492	0.0132	5.3000e-004	0.0138	0.0000	53.0135	53.0135	1.1500e-003	4.3000e-003	54.3238

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3.4 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0719	0.7154	0.9172	1.4900e-003		0.0315	0.0315		0.0290	0.0290	0.0000	130.8859	130.8859	0.0423	0.0000	131.9442
Total	0.0719	0.7154	0.9172	1.4900e-003		0.0315	0.0315		0.0290	0.0290	0.0000	130.8859	130.8859	0.0423	0.0000	131.9442

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	1.6000e-003	0.0564	0.0217	2.5000e-004	9.8800e-003	4.0000e-004	0.0103	2.8500e-003	3.8000e-004	3.2300e-003	0.0000	24.3112	24.3112	5.9000e-004	3.5800e-003	25.3931
Worker	9.0900e-003	5.5200e-003	0.0868	3.0000e-004	0.0429	1.5000e-004	0.0431	0.0114	1.4000e-004	0.0115	0.0000	27.7222	27.7222	5.0000e-004	6.3000e-004	27.9233
Total	0.0107	0.0620	0.1085	5.5000e-004	0.0528	5.5000e-004	0.0534	0.0143	5.2000e-004	0.0148	0.0000	52.0333	52.0333	1.0900e-003	4.2100e-003	53.3164

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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	0.0719	0.7154	0.9172	1.4900e-003		0.0315	0.0315		0.0290	0.0290	0.0000	130.8858	130.8858	0.0423	0.0000	131.9440
Total	0.0719	0.7154	0.9172	1.4900e-003		0.0315	0.0315		0.0290	0.0290	0.0000	130.8858	130.8858	0.0423	0.0000	131.9440

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	1.6000e-003	0.0564	0.0217	2.5000e-004	9.2500e-003	4.0000e-004	9.6400e-003	2.7000e-003	3.8000e-004	3.0800e-003	0.0000	24.3112	24.3112	5.9000e-004	3.5800e-003	25.3931
Worker	9.0900e-003	5.5200e-003	0.0868	3.0000e-004	0.0396	1.5000e-004	0.0397	0.0106	1.4000e-004	0.0107	0.0000	27.7222	27.7222	5.0000e-004	6.3000e-004	27.9233
Total	0.0107	0.0620	0.1085	5.5000e-004	0.0488	5.5000e-004	0.0494	0.0133	5.2000e-004	0.0138	0.0000	52.0333	52.0333	1.0900e-003	4.2100e-003	53.3164

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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 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0332	0.1760	0.3901	7.6000e-004		3.3800e-003	3.3800e-003		3.3800e-003	3.3800e-003	0.0000	65.4011	65.4011	2.6700e-003	0.0000	65.4678
Total	0.0332	0.1760	0.3901	7.6000e-004		3.3800e-003	3.3800e-003		3.3800e-003	3.3800e-003	0.0000	65.4011	65.4011	2.6700e-003	0.0000	65.4678

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	6.6000e-004	0.0235	9.0100e-003	1.0000e-004	4.1200e-003	1.6000e-004	4.2900e-003	1.1900e-003	1.6000e-004	1.3500e-003	0.0000	9.9627	9.9627	2.4000e-004	1.4700e-003	10.4057
Worker	3.5600e-003	2.1300e-003	0.0347	1.2000e-004	0.0179	6.0000e-005	0.0180	4.7600e-003	5.0000e-005	4.8200e-003	0.0000	11.3202	11.3202	1.9000e-004	2.5000e-004	11.4008
Total	4.2200e-003	0.0256	0.0437	2.2000e-004	0.0221	2.2000e-004	0.0223	5.9500e-003	2.1000e-004	6.1700e-003	0.0000	21.2829	21.2829	4.3000e-004	1.7200e-003	21.8065

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0332	0.1760	0.3901	7.6000e-004		3.3800e-003	3.3800e-003		3.3800e-003	3.3800e-003	0.0000	65.4010	65.4010	2.6700e-003	0.0000	65.4677
Total	0.0332	0.1760	0.3901	7.6000e-004		3.3800e-003	3.3800e-003		3.3800e-003	3.3800e-003	0.0000	65.4010	65.4010	2.6700e-003	0.0000	65.4677

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	6.6000e-004	0.0235	9.0100e-003	1.0000e-004	3.8600e-003	1.6000e-004	4.0300e-003	1.1300e-003	1.6000e-004	1.2800e-003	0.0000	9.9627	9.9627	2.4000e-004	1.4700e-003	10.4057
Worker	3.5600e-003	2.1300e-003	0.0347	1.2000e-004	0.0165	6.0000e-005	0.0166	4.4200e-003	5.0000e-005	4.4700e-003	0.0000	11.3202	11.3202	1.9000e-004	2.5000e-004	11.4008
Total	4.2200e-003	0.0256	0.0437	2.2000e-004	0.0204	2.2000e-004	0.0206	5.5500e-003	2.1000e-004	5.7500e-003	0.0000	21.2829	21.2829	4.3000e-004	1.7200e-003	21.8065

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3.5 Architectural Coating (IB II) - 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	0.0359					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.4500e-003	0.0118	2.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619
Total	0.0370	7.4500e-003	0.0118	2.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619

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	1.0000e-004	6.0000e-005	9.1000e-004	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.2831	0.2831	1.0000e-005	1.0000e-005	0.2852
Total	1.0000e-004	6.0000e-005	9.1000e-004	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.2831	0.2831	1.0000e-005	1.0000e-005	0.2852

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0359					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.4500e-003	0.0118	2.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619
Total	0.0370	7.4500e-003	0.0118	2.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619

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	1.0000e-004	6.0000e-005	9.1000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2831	0.2831	1.0000e-005	1.0000e-005	0.2852
Total	1.0000e-004	6.0000e-005	9.1000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2831	0.2831	1.0000e-005	1.0000e-005	0.2852

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3.6 Architectural Coating (CTE/Training) - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0742					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.4500e-003	0.0118	2.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619
Total	0.0753	7.4500e-003	0.0118	2.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619

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	5.0000e-005	8.6000e-004	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2762	0.2762	0.0000	1.0000e-005	0.2782
Total	9.0000e-005	5.0000e-005	8.6000e-004	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2762	0.2762	0.0000	1.0000e-005	0.2782

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0742					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.4500e-003	0.0118	2.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619
Total	0.0753	7.4500e-003	0.0118	2.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619

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	5.0000e-005	8.6000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2762	0.2762	0.0000	1.0000e-005	0.2782
Total	9.0000e-005	5.0000e-005	8.6000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2762	0.2762	0.0000	1.0000e-005	0.2782

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3.7 Paving - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.6800e-003	0.0268	0.0487	9.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	7.1455	7.1455	3.8000e-004	0.0000	7.1550
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.6800e-003	0.0268	0.0487	9.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	7.1455	7.1455	3.8000e-004	0.0000	7.1550

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	2.5000e-004	1.5000e-004	2.4800e-003	1.0000e-005	1.2800e-003	0.0000	1.2900e-003	3.4000e-004	0.0000	3.4000e-004	0.0000	0.8101	0.8101	1.0000e-005	2.0000e-005	0.8158
Total	2.5000e-004	1.5000e-004	2.4800e-003	1.0000e-005	1.2800e-003	0.0000	1.2900e-003	3.4000e-004	0.0000	3.4000e-004	0.0000	0.8101	0.8101	1.0000e-005	2.0000e-005	0.8158

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.6800e-003	0.0268	0.0487	9.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	7.1455	7.1455	3.8000e-004	0.0000	7.1550
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.6800e-003	0.0268	0.0487	9.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	7.1455	7.1455	3.8000e-004	0.0000	7.1550

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	2.5000e-004	1.5000e-004	2.4800e-003	1.0000e-005	1.1800e-003	0.0000	1.1900e-003	3.2000e-004	0.0000	3.2000e-004	0.0000	0.8101	0.8101	1.0000e-005	2.0000e-005	0.8158
Total	2.5000e-004	1.5000e-004	2.4800e-003	1.0000e-005	1.1800e-003	0.0000	1.1900e-003	3.2000e-004	0.0000	3.2000e-004	0.0000	0.8101	0.8101	1.0000e-005	2.0000e-005	0.8158

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3.8 Architectural Coating (SCCC) - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0464					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5000e-004	5.5700e-003	0.0117	2.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.6596	1.6596	7.0000e-005	0.0000	1.6613
Total	0.0472	5.5700e-003	0.0117	2.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.6596	1.6596	7.0000e-005	0.0000	1.6613

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	8.0000e-005	5.0000e-005	8.3000e-004	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2700	0.2700	0.0000	1.0000e-005	0.2720
Total	8.0000e-005	5.0000e-005	8.3000e-004	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2700	0.2700	0.0000	1.0000e-005	0.2720

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0464					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5000e-004	5.5700e-003	0.0117	2.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.6596	1.6596	7.0000e-005	0.0000	1.6613
Total	0.0472	5.5700e-003	0.0117	2.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.6596	1.6596	7.0000e-005	0.0000	1.6613

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	8.0000e-005	5.0000e-005	8.3000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2700	0.2700	0.0000	1.0000e-005	0.2720
Total	8.0000e-005	5.0000e-005	8.3000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2700	0.2700	0.0000	1.0000e-005	0.2720

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Summer

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

**Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run
San Bernardino-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	72.00	1000sqft	0.55	72,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10	Operational Year	2029		
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 - based on info from applicant

Construction Phase - see normalized schedule in assumptions file

Trips and VMT - see assumptions file for water truck trip calculations

Grading -

Architectural Coating - based on building area of each building. SCAQMD Rule 1113

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

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	36,000.00	16,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	36,000.00	10,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	36,000.00	10,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	108,000.00	48,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	108,000.00	30,000.00

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Summer

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

tblArchitecturalCoating	ConstArea_Nonresidential_Interior	108,000.00	30,000.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	5.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	13.00
tblConstructionPhase	NumDays	5.00	13.00
tblConstructionPhase	NumDays	5.00	13.00
tblConstructionPhase	NumDays	100.00	762.00
tblConstructionPhase	NumDays	2.00	16.00
tblConstructionPhase	NumDays	5.00	13.00
tblConstructionPhase	NumDays	1.00	8.00
tblGrading	AcresOfGrading	12.00	8.25
tblGrading	AcresOfGrading	4.00	3.00
tblLandUse	LotAcreage	1.65	0.55
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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					
2027	1.5200	14.9671	13.7808	0.0322	5.6961	0.5964	6.2140	2.6913	0.5489	3.2402	0.0000	3,164.2898	3,164.2898	0.8140	0.0595	3,202.3673
2028	6.3608	7.0911	9.9706	0.0194	0.4793	0.2973	0.7766	0.1289	0.2778	0.4066	0.0000	1,907.8072	1,907.8072	0.3834	0.0371	1,928.4587
2029	12.2371	7.0849	9.9214	0.0193	0.4793	0.2972	0.7765	0.1289	0.2777	0.4065	0.0000	1,896.0453	1,896.0453	0.3829	0.0362	1,916.4136
2030	8.7351	8.6793	17.9238	0.0366	0.6805	0.2402	0.9207	0.1822	0.2399	0.4221	0.0000	3,463.0093	3,463.0093	0.1415	0.0383	3,477.9652
Maximum	12.2371	14.9671	17.9238	0.0366	5.6961	0.5964	6.2140	2.6913	0.5489	3.2402	0.0000	3,463.0093	3,463.0093	0.8140	0.0595	3,477.9652

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					
2027	1.5200	14.9671	13.7808	0.0322	2.6760	0.5964	3.2725	1.2260	0.5489	1.7749	0.0000	3,164.2898	3,164.2898	0.8140	0.0595	3,202.3673
2028	6.3608	7.0911	9.9706	0.0194	0.4429	0.2973	0.7402	0.1199	0.2778	0.3977	0.0000	1,907.8072	1,907.8072	0.3834	0.0371	1,928.4587
2029	12.2371	7.0849	9.9214	0.0193	0.4429	0.2972	0.7401	0.1199	0.2777	0.3976	0.0000	1,896.0453	1,896.0453	0.3829	0.0362	1,916.4136
2030	8.7351	8.6793	17.9238	0.0366	0.6283	0.2402	0.8685	0.1694	0.2399	0.4093	0.0000	3,463.0093	3,463.0093	0.1415	0.0383	3,477.9652
Maximum	12.2371	14.9671	17.9238	0.0366	2.6760	0.5964	3.2725	1.2260	0.5489	1.7749	0.0000	3,463.0093	3,463.0093	0.8140	0.0595	3,477.9652

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	42.88	0.00	35.30	47.78	0.00	33.43	0.00	0.00	0.00	0.00	0.00	0.00

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3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2027	6/10/2027	5	8	a
2	Grading	Grading	6/10/2027	7/1/2027	5	16	b
3	Building Construction	Building Construction	7/1/2027	6/1/2030	5	762	c
4	Architectural Coating (IB II)	Architectural Coating	6/7/2028	6/23/2028	5	13	d
5	Architectural Coating (CTE/Training)	Architectural Coating	5/28/2029	6/13/2029	5	13	e
6	Paving	Paving	5/15/2030	6/1/2030	5	13	f
7	Architectural Coating (SCCC)	Architectural Coating	5/15/2030	6/1/2030	5	13	g

Acres of Grading (Site Preparation Phase): 3

Acres of Grading (Grading Phase): 8.25

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,000; Non-Residential Outdoor: 16,000; Striped Parking Area: 0 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating (CTE/Training)	Air Compressors	1	6.00	78	0.48
Architectural Coating (IB II)	Air Compressors	1	6.00	78	0.48

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Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating (SCCC)	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	30.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (CTE/Training)	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (IR, II)	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (SCCC)	1	6.00	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

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Summer

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

3.2 Site Preparation - 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					
Fugitive Dust					0.3977	0.0000	0.3977	0.0429	0.0000	0.0429			0.0000			0.0000
Off-Road	0.4432	4.7918	3.8238	9.7300e-003		0.1654	0.1654		0.1521	0.1521		942.2955	942.2955	0.3048		949.9144
Total	0.4432	4.7918	3.8238	9.7300e-003	0.3977	0.1654	0.5630	0.0429	0.1521	0.1951		942.2955	942.2955	0.3048		949.9144

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	6.5100e-003	0.2079	0.0834	1.0000e-003	0.0384	1.5400e-003	0.0400	0.0111	1.4700e-003	0.0125		106.8356	106.8356	2.6600e-003	0.0158	111.5953
Worker	0.0148	7.6300e-003	0.1421	4.4000e-004	0.0559	2.2000e-004	0.0561	0.0148	2.1000e-004	0.0150		44.4607	44.4607	8.2000e-004	9.2000e-004	44.7553
Total	0.0213	0.2156	0.2255	1.4400e-003	0.0943	1.7600e-003	0.0961	0.0259	1.6800e-003	0.0276		151.2963	151.2963	3.4800e-003	0.0167	156.3505

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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					0.1700	0.0000	0.1700	0.0184	0.0000	0.0184			0.0000			0.0000
Off-Road	0.4432	4.7918	3.8238	9.7300e-003		0.1654	0.1654		0.1521	0.1521	0.0000	942.2955	942.2955	0.3048		949.9144
Total	0.4432	4.7918	3.8238	9.7300e-003	0.1700	0.1654	0.3354	0.0184	0.1521	0.1705	0.0000	942.2955	942.2955	0.3048		949.9144

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	6.5100e-003	0.2079	0.0834	1.0000e-003	0.0360	1.5400e-003	0.0375	0.0105	1.4700e-003	0.0119		106.8356	106.8356	2.6600e-003	0.0158	111.5953
Worker	0.0148	7.6300e-003	0.1421	4.4000e-004	0.0515	2.2000e-004	0.0517	0.0138	2.1000e-004	0.0140		44.4607	44.4607	8.2000e-004	9.2000e-004	44.7553
Total	0.0213	0.2156	0.2255	1.4400e-003	0.0875	1.7600e-003	0.0893	0.0242	1.6800e-003	0.0259		151.2963	151.2963	3.4800e-003	0.0167	156.3505

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Summer

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

3.3 Grading - 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					
Fugitive Dust					5.0634	0.0000	5.0634	2.5417	0.0000	2.5417			0.0000			0.0000
Off-Road	0.8350	8.7341	5.3948	0.0141		0.3484	0.3484		0.3205	0.3205		1,364.6987	1,364.6987	0.4414		1,375.7329
Total	0.8350	8.7341	5.3948	0.0141	5.0634	0.3484	5.4118	2.5417	0.3205	2.8622		1,364.6987	1,364.6987	0.4414		1,375.7329

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.6800e-003	0.2772	0.1112	1.3300e-003	0.0513	2.0500e-003	0.0533	0.0148	1.9600e-003	0.0167		142.4474	142.4474	3.5400e-003	0.0210	148.7937
Worker	0.0236	0.0122	0.2274	7.0000e-004	0.0894	3.6000e-004	0.0898	0.0237	3.3000e-004	0.0240		71.1372	71.1372	1.3000e-003	1.4700e-003	71.6084
Total	0.0323	0.2894	0.3385	2.0300e-003	0.1407	2.4100e-003	0.1431	0.0385	2.2900e-003	0.0408		213.5846	213.5846	4.8400e-003	0.0225	220.4021

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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					2.1646	0.0000	2.1646	1.0866	0.0000	1.0866			0.0000			0.0000
Off-Road	0.8350	8.7341	5.3948	0.0141		0.3484	0.3484		0.3205	0.3205	0.0000	1,364.6987	1,364.6987	0.4414		1,375.7329
Total	0.8350	8.7341	5.3948	0.0141	2.1646	0.3484	2.5130	1.0866	0.3205	1.4071	0.0000	1,364.6987	1,364.6987	0.4414		1,375.7329

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.6800e-003	0.2772	0.1112	1.3300e-003	0.0480	2.0500e-003	0.0500	0.0140	1.9600e-003	0.0159		142.4474	142.4474	3.5400e-003	0.0210	148.7937
Worker	0.0236	0.0122	0.2274	7.0000e-004	0.0824	3.6000e-004	0.0828	0.0220	3.3000e-004	0.0223		71.1372	71.1372	1.3000e-003	1.4700e-003	71.6084
Total	0.0323	0.2894	0.3385	2.0300e-003	0.1304	2.4100e-003	0.1328	0.0360	2.2900e-003	0.0382		213.5846	213.5846	4.8400e-003	0.0225	220.4021

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Summer

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

3.4 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	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220		1,105.5711	1,105.5711	0.3576		1,114.5102
Total	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220		1,105.5711	1,105.5711	0.3576		1,114.5102

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	0.0130	0.4158	0.1667	1.9900e-003	0.0769	3.0700e-003	0.0800	0.0221	2.9400e-003	0.0251		213.6711	213.6711	5.3100e-003	0.0315	223.1906
Worker	0.0887	0.0458	0.8526	2.6400e-003	0.3353	1.3400e-003	0.3367	0.0889	1.2300e-003	0.0902		266.7643	266.7643	4.8900e-003	5.5200e-003	268.5315
Total	0.1017	0.4616	1.0193	4.6300e-003	0.4122	4.4100e-003	0.4166	0.1111	4.1700e-003	0.1152		480.4355	480.4355	0.0102	0.0370	491.7221

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220	0.0000	1,105.5711	1,105.5711	0.3576		1,114.5102
Total	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220	0.0000	1,105.5711	1,105.5711	0.3576		1,114.5102

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	0.0130	0.4158	0.1667	1.9900e-003	0.0720	3.0700e-003	0.0750	0.0209	2.9400e-003	0.0239		213.6711	213.6711	5.3100e-003	0.0315	223.1906
Worker	0.0887	0.0458	0.8526	2.6400e-003	0.3091	1.3400e-003	0.3104	0.0825	1.2300e-003	0.0837		266.7643	266.7643	4.8900e-003	5.5200e-003	268.5315
Total	0.1017	0.4616	1.0193	4.6300e-003	0.3810	4.4100e-003	0.3855	0.1034	4.1700e-003	0.1076		480.4355	480.4355	0.0102	0.0370	491.7221

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220		1,105.5711	1,105.5711	0.3576		1,114.5102
Total	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220		1,105.5711	1,105.5711	0.3576		1,114.5102

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	0.0129	0.4134	0.1652	1.9500e-003	0.0769	3.0500e-003	0.0799	0.0221	2.9200e-003	0.0251		209.2623	209.2623	5.1700e-003	0.0308	218.5780
Worker	0.0831	0.0419	0.8068	2.5700e-003	0.3353	1.2500e-003	0.3366	0.0889	1.1500e-003	0.0901		259.6049	259.6049	4.4700e-003	5.2500e-003	261.2823
Total	0.0960	0.4553	0.9720	4.5200e-003	0.4122	4.3000e-003	0.4165	0.1111	4.0700e-003	0.1151		468.8671	468.8671	9.6400e-003	0.0361	479.8602

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220	0.0000	1,105.5711	1,105.5711	0.3576		1,114.5102
Total	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220	0.0000	1,105.5711	1,105.5711	0.3576		1,114.5102

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	0.0129	0.4134	0.1652	1.9500e-003	0.0720	3.0500e-003	0.0750	0.0209	2.9200e-003	0.0239		209.2623	209.2623	5.1700e-003	0.0308	218.5780
Worker	0.0831	0.0419	0.8068	2.5700e-003	0.3091	1.2500e-003	0.3103	0.0825	1.1500e-003	0.0836		259.6049	259.6049	4.4700e-003	5.2500e-003	261.2823
Total	0.0960	0.4553	0.9720	4.5200e-003	0.3810	4.3000e-003	0.3853	0.1034	4.0700e-003	0.1075		468.8671	468.8671	9.6400e-003	0.0361	479.8602

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Summer

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

3.4 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220		1,105.5711	1,105.5711	0.3576		1,114.5102
Total	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220		1,105.5711	1,105.5711	0.3576		1,114.5102

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	0.0127	0.4112	0.1639	1.9100e-003	0.0769	3.0400e-003	0.0799	0.0221	2.9100e-003	0.0250		205.1334	205.1334	5.0200e-003	0.0302	214.2579
Worker	0.0778	0.0385	0.7669	2.5100e-003	0.3353	1.1600e-003	0.3365	0.0889	1.0700e-003	0.0900		253.2440	253.2440	4.1000e-003	5.0300e-003	254.8448
Total	0.0905	0.4497	0.9307	4.4200e-003	0.4122	4.2000e-003	0.4164	0.1111	3.9800e-003	0.1150		458.3774	458.3774	9.1200e-003	0.0352	469.1026

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220	0.0000	1,105.5711	1,105.5711	0.3576		1,114.5102
Total	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220	0.0000	1,105.5711	1,105.5711	0.3576		1,114.5102

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	0.0127	0.4112	0.1639	1.9100e-003	0.0720	3.0400e-003	0.0750	0.0209	2.9100e-003	0.0238		205.1334	205.1334	5.0200e-003	0.0302	214.2579
Worker	0.0778	0.0385	0.7669	2.5100e-003	0.3091	1.1600e-003	0.3103	0.0825	1.0700e-003	0.0836		253.2440	253.2440	4.1000e-003	5.0300e-003	254.8448
Total	0.0905	0.4497	0.9307	4.4200e-003	0.3810	4.2000e-003	0.3853	0.1034	3.9800e-003	0.1074		458.3774	458.3774	9.1200e-003	0.0352	469.1026

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Summer

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

3.4 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6099	3.2301	7.1570	0.0140		0.0621	0.0621		0.0621	0.0621		1,322.7958	1,322.7958	0.0540		1,324.1451
Total	0.6099	3.2301	7.1570	0.0140		0.0621	0.0621		0.0621	0.0621		1,322.7958	1,322.7958	0.0540		1,324.1451

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	0.0126	0.4093	0.1628	1.8800e-003	0.0769	3.0200e-003	0.0799	0.0221	2.8900e-003	0.0250		201.2887	201.2887	4.8800e-003	0.0296	210.2349
Worker	0.0728	0.0356	0.7329	2.4500e-003	0.3353	1.0900e-003	0.3364	0.0889	1.0000e-003	0.0899		247.6106	247.6106	3.7800e-003	4.8400e-003	249.1465
Total	0.0854	0.4449	0.8958	4.3300e-003	0.4122	4.1100e-003	0.4163	0.1111	3.8900e-003	0.1150		448.8993	448.8993	8.6600e-003	0.0345	459.3814

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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	0.6099	3.2301	7.1570	0.0140		0.0621	0.0621		0.0621	0.0621	0.0000	1,322.7958	1,322.7958	0.0540		1,324.1451
Total	0.6099	3.2301	7.1570	0.0140		0.0621	0.0621		0.0621	0.0621	0.0000	1,322.7958	1,322.7958	0.0540		1,324.1451

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	0.0126	0.4093	0.1628	1.8800e-003	0.0720	3.0200e-003	0.0750	0.0209	2.8900e-003	0.0238		201.2887	201.2887	4.8800e-003	0.0296	210.2349
Worker	0.0728	0.0356	0.7329	2.4500e-003	0.3091	1.0900e-003	0.3102	0.0825	1.0000e-003	0.0835		247.6106	247.6106	3.7800e-003	4.8400e-003	249.1465
Total	0.0854	0.4449	0.8958	4.3300e-003	0.3810	4.1100e-003	0.3852	0.1034	3.8900e-003	0.1073		448.8993	448.8993	8.6600e-003	0.0345	459.3814

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Summer

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

3.5 Architectural Coating (IB II) - 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	5.5264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	5.6972	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.0166	8.3700e-003	0.1614	5.1000e-004	0.0671	2.5000e-004	0.0673	0.0178	2.3000e-004	0.0180		51.9210	51.9210	8.9000e-004	1.0500e-003	52.2565
Total	0.0166	8.3700e-003	0.1614	5.1000e-004	0.0671	2.5000e-004	0.0673	0.0178	2.3000e-004	0.0180		51.9210	51.9210	8.9000e-004	1.0500e-003	52.2565

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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	5.5264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	5.6972	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.0166	8.3700e-003	0.1614	5.1000e-004	0.0618	2.5000e-004	0.0621	0.0165	2.3000e-004	0.0167		51.9210	51.9210	8.9000e-004	1.0500e-003	52.2565
Total	0.0166	8.3700e-003	0.1614	5.1000e-004	0.0618	2.5000e-004	0.0621	0.0165	2.3000e-004	0.0167		51.9210	51.9210	8.9000e-004	1.0500e-003	52.2565

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating (CTE/Training) - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	11.4092					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	11.5801	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.0156	7.7000e-003	0.1534	5.0000e-004	0.0671	2.3000e-004	0.0673	0.0178	2.1000e-004	0.0180		50.6488	50.6488	8.2000e-004	1.0100e-003	50.9690
Total	0.0156	7.7000e-003	0.1534	5.0000e-004	0.0671	2.3000e-004	0.0673	0.0178	2.1000e-004	0.0180		50.6488	50.6488	8.2000e-004	1.0100e-003	50.9690

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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	11.4092					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	11.5801	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.0156	7.7000e-003	0.1534	5.0000e-004	0.0618	2.3000e-004	0.0621	0.0165	2.1000e-004	0.0167		50.6488	50.6488	8.2000e-004	1.0100e-003	50.9690
Total	0.0156	7.7000e-003	0.1534	5.0000e-004	0.0618	2.3000e-004	0.0621	0.0165	2.1000e-004	0.0167		50.6488	50.6488	8.2000e-004	1.0100e-003	50.9690

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Paving - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7200	4.1196	7.4869	0.0133		0.1529	0.1529		0.1529	0.1529		1,211.7777	1,211.7777	0.0644		1,213.3888
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7200	4.1196	7.4869	0.0133		0.1529	0.1529		0.1529	0.1529		1,211.7777	1,211.7777	0.0644		1,213.3888

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	0.0437	0.0214	0.4398	1.4700e-003	0.2012	6.5000e-004	0.2019	0.0534	6.0000e-004	0.0540		148.5664	148.5664	2.2700e-003	2.9000e-003	149.4879
Total	0.0437	0.0214	0.4398	1.4700e-003	0.2012	6.5000e-004	0.2019	0.0534	6.0000e-004	0.0540		148.5664	148.5664	2.2700e-003	2.9000e-003	149.4879

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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	0.7200	4.1196	7.4869	0.0133		0.1529	0.1529		0.1529	0.1529	0.0000	1,211.7777	1,211.7777	0.0644		1,213.3888
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7200	4.1196	7.4869	0.0133		0.1529	0.1529		0.1529	0.1529	0.0000	1,211.7777	1,211.7777	0.0644		1,213.3888

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	0.0437	0.0214	0.4398	1.4700e-003	0.1855	6.5000e-004	0.1861	0.0495	6.0000e-004	0.0501		148.5664	148.5664	2.2700e-003	2.9000e-003	149.4879
Total	0.0437	0.0214	0.4398	1.4700e-003	0.1855	6.5000e-004	0.1861	0.0495	6.0000e-004	0.0501		148.5664	148.5664	2.2700e-003	2.9000e-003	149.4879

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Architectural Coating (SCCC) - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.1308					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114			281.7328
Total	7.2615	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114			281.7328

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	0.0146	7.1200e-003	0.1466	4.9000e-004	0.0671	2.2000e-004	0.0673	0.0178	2.0000e-004	0.0180		49.5221	49.5221	7.6000e-004	9.7000e-004	49.8293
Total	0.0146	7.1200e-003	0.1466	4.9000e-004	0.0671	2.2000e-004	0.0673	0.0178	2.0000e-004	0.0180		49.5221	49.5221	7.6000e-004	9.7000e-004	49.8293

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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	7.1308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	7.2615	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.0146	7.1200e-003	0.1466	4.9000e-004	0.0618	2.2000e-004	0.0620	0.0165	2.0000e-004	0.0167		49.5221	49.5221	7.6000e-004	9.7000e-004	49.8293
Total	0.0146	7.1200e-003	0.1466	4.9000e-004	0.0618	2.2000e-004	0.0620	0.0165	2.0000e-004	0.0167		49.5221	49.5221	7.6000e-004	9.7000e-004	49.8293

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Winter

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

**Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run
San Bernardino-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	72.00	1000sqft	0.55	72,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10	Operational Year	2029		
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 - based on info from applicant

Construction Phase - see normalized schedule in assumptions file

Trips and VMT - see assumptions file for water truck trip calculations

Grading -

Architectural Coating - based on building area of each building. SCAQMD Rule 1113

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

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	36,000.00	16,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	36,000.00	10,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	36,000.00	10,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	108,000.00	48,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	108,000.00	30,000.00

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Winter

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

tblArchitecturalCoating	ConstArea_Nonresidential_Interior	108,000.00	30,000.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	5.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	13.00
tblConstructionPhase	NumDays	5.00	13.00
tblConstructionPhase	NumDays	5.00	13.00
tblConstructionPhase	NumDays	100.00	762.00
tblConstructionPhase	NumDays	2.00	16.00
tblConstructionPhase	NumDays	5.00	13.00
tblConstructionPhase	NumDays	1.00	8.00
tblGrading	AcresOfGrading	12.00	8.25
tblGrading	AcresOfGrading	4.00	3.00
tblLandUse	LotAcreage	1.65	0.55
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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					
2027	1.5152	15.0091	13.6022	0.0319	5.6961	0.5965	6.2140	2.6913	0.5489	3.2402	0.0000	3,133.6587	3,133.6587	0.8140	0.0599	3,171.8488
2028	6.3572	7.1170	9.8084	0.0192	0.4793	0.2973	0.7766	0.1289	0.2778	0.4066	0.0000	1,879.3007	1,879.3007	0.3835	0.0374	1,900.0390
2029	12.2339	7.1104	9.7678	0.0190	0.4793	0.2972	0.7765	0.1289	0.2777	0.4065	0.0000	1,868.2598	1,868.2598	0.3829	0.0365	1,888.7116
2030	8.7311	8.7056	17.7016	0.0361	0.6805	0.2402	0.9207	0.1822	0.2399	0.4222	0.0000	3,422.0217	3,422.0217	0.1416	0.0387	3,437.0854
Maximum	12.2339	15.0091	17.7016	0.0361	5.6961	0.5965	6.2140	2.6913	0.5489	3.2402	0.0000	3,422.0217	3,422.0217	0.8140	0.0599	3,437.0854

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					
2027	1.5152	15.0091	13.6022	0.0319	2.6760	0.5965	3.2725	1.2260	0.5489	1.7749	0.0000	3,133.6587	3,133.6587	0.8140	0.0599	3,171.8488
2028	6.3572	7.1170	9.8084	0.0192	0.4429	0.2973	0.7402	0.1199	0.2778	0.3977	0.0000	1,879.3007	1,879.3007	0.3835	0.0374	1,900.0390
2029	12.2339	7.1104	9.7678	0.0190	0.4429	0.2972	0.7401	0.1199	0.2777	0.3976	0.0000	1,868.2598	1,868.2598	0.3829	0.0365	1,888.7116
2030	8.7311	8.7056	17.7016	0.0361	0.6283	0.2402	0.8685	0.1694	0.2399	0.4093	0.0000	3,422.0217	3,422.0217	0.1416	0.0387	3,437.0854
Maximum	12.2339	15.0091	17.7016	0.0361	2.6760	0.5965	3.2725	1.2260	0.5489	1.7749	0.0000	3,422.0217	3,422.0217	0.8140	0.0599	3,437.0854

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	42.88	0.00	35.30	47.78	0.00	33.43	0.00	0.00	0.00	0.00	0.00	0.00

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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	Site Preparation	Site Preparation	6/1/2027	6/10/2027	5	8	a
2	Grading	Grading	6/10/2027	7/1/2027	5	16	b
3	Building Construction	Building Construction	7/1/2027	6/1/2030	5	762	c
4	Architectural Coating (IB II)	Architectural Coating	6/7/2028	6/23/2028	5	13	d
5	Architectural Coating (CTE/Training)	Architectural Coating	5/28/2029	6/13/2029	5	13	e
6	Paving	Paving	5/15/2030	6/1/2030	5	13	f
7	Architectural Coating (SCCC)	Architectural Coating	5/15/2030	6/1/2030	5	13	g

Acres of Grading (Site Preparation Phase): 3

Acres of Grading (Grading Phase): 8.25

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,000; Non-Residential Outdoor: 16,000; Striped Parking Area: 0 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating (CTE/Training)	Air Compressors	1	6.00	78	0.48
Architectural Coating (IB II)	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Winter

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

Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating (SCCC)	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	30.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (CTE Training)	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (R.I.)	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (SCCC)	1	6.00	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

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Winter

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

3.2 Site Preparation - 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					
Fugitive Dust					0.3977	0.0000	0.3977	0.0429	0.0000	0.0429			0.0000			0.0000
Off-Road	0.4432	4.7918	3.8238	9.7300e-003		0.1654	0.1654		0.1521	0.1521		942.2955	942.2955	0.3048		949.9144
Total	0.4432	4.7918	3.8238	9.7300e-003	0.3977	0.1654	0.5630	0.0429	0.1521	0.1951		942.2955	942.2955	0.3048		949.9144

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	6.0200e-003	0.2196	0.0860	1.0000e-003	0.0384	1.5400e-003	0.0400	0.0111	1.4700e-003	0.0125		107.1034	107.1034	2.6300e-003	0.0158	111.8770
Worker	0.0144	8.0100e-003	0.1174	4.0000e-004	0.0559	2.2000e-004	0.0561	0.0148	2.1000e-004	0.0150		40.3128	40.3128	8.2000e-004	9.5000e-004	40.6161
Total	0.0204	0.2277	0.2034	1.4000e-003	0.0943	1.7600e-003	0.0961	0.0259	1.6800e-003	0.0276		147.4163	147.4163	3.4500e-003	0.0168	152.4931

**Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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					0.1700	0.0000	0.1700	0.0184	0.0000	0.0184			0.0000			0.0000
Off-Road	0.4432	4.7918	3.8238	9.7300e-003		0.1654	0.1654		0.1521	0.1521	0.0000	942.2955	942.2955	0.3048		949.9144
Total	0.4432	4.7918	3.8238	9.7300e-003	0.1700	0.1654	0.3354	0.0184	0.1521	0.1705	0.0000	942.2955	942.2955	0.3048		949.9144

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	6.0200e-003	0.2196	0.0860	1.0000e-003	0.0360	1.5400e-003	0.0375	0.0105	1.4700e-003	0.0119		107.1034	107.1034	2.6300e-003	0.0158	111.8770
Worker	0.0144	8.0100e-003	0.1174	4.0000e-004	0.0515	2.2000e-004	0.0517	0.0138	2.1000e-004	0.0140		40.3128	40.3128	8.2000e-004	9.5000e-004	40.6161
Total	0.0204	0.2277	0.2034	1.4000e-003	0.0875	1.7600e-003	0.0893	0.0242	1.6800e-003	0.0259		147.4163	147.4163	3.4500e-003	0.0168	152.4931

**Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

3.3 Grading - 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					
Fugitive Dust					5.0634	0.0000	5.0634	2.5417	0.0000	2.5417			0.0000			0.0000
Off-Road	0.8350	8.7341	5.3948	0.0141		0.3484	0.3484		0.3205	0.3205		1,364.6987	1,364.6987	0.4414		1,375.7329
Total	0.8350	8.7341	5.3948	0.0141	5.0634	0.3484	5.4118	2.5417	0.3205	2.8622		1,364.6987	1,364.6987	0.4414		1,375.7329

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0200e-003	0.2929	0.1147	1.3300e-003	0.0513	2.0500e-003	0.0533	0.0148	1.9700e-003	0.0167		142.8046	142.8046	3.5100e-003	0.0211	149.1693
Worker	0.0230	0.0128	0.1879	6.4000e-004	0.0894	3.6000e-004	0.0898	0.0237	3.3000e-004	0.0240		64.5005	64.5005	1.3200e-003	1.5200e-003	64.9858
Total	0.0310	0.3057	0.3026	1.9700e-003	0.1407	2.4100e-003	0.1431	0.0385	2.3000e-003	0.0408		207.3051	207.3051	4.8300e-003	0.0226	214.1551

**Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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					2.1646	0.0000	2.1646	1.0866	0.0000	1.0866			0.0000			0.0000
Off-Road	0.8350	8.7341	5.3948	0.0141		0.3484	0.3484		0.3205	0.3205	0.0000	1,364.6987	1,364.6987	0.4414		1,375.7329
Total	0.8350	8.7341	5.3948	0.0141	2.1646	0.3484	2.5130	1.0866	0.3205	1.4071	0.0000	1,364.6987	1,364.6987	0.4414		1,375.7329

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0200e-003	0.2929	0.1147	1.3300e-003	0.0480	2.0500e-003	0.0500	0.0140	1.9700e-003	0.0159		142.8046	142.8046	3.5100e-003	0.0211	149.1693
Worker	0.0230	0.0128	0.1879	6.4000e-004	0.0824	3.6000e-004	0.0828	0.0220	3.3000e-004	0.0223		64.5005	64.5005	1.3200e-003	1.5200e-003	64.9858
Total	0.0310	0.3057	0.3026	1.9700e-003	0.1304	2.4100e-003	0.1328	0.0360	2.3000e-003	0.0383		207.3051	207.3051	4.8300e-003	0.0226	214.1551

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Winter

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

3.4 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	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220		1,105.5711	1,105.5711	0.3576		1,114.5102
Total	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220		1,105.5711	1,105.5711	0.3576		1,114.5102

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	0.0120	0.4393	0.1720	2.0000e-003	0.0769	3.0800e-003	0.0800	0.0221	2.9500e-003	0.0251		214.2068	214.2068	5.2600e-003	0.0316	223.7539
Worker	0.0862	0.0481	0.7046	2.3900e-003	0.3353	1.3400e-003	0.3367	0.0889	1.2300e-003	0.0902		241.8770	241.8770	4.9500e-003	5.6900e-003	243.6967
Total	0.0982	0.4874	0.8766	4.3900e-003	0.4122	4.4200e-003	0.4166	0.1111	4.1800e-003	0.1152		456.0839	456.0839	0.0102	0.0373	467.4506

**Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220	0.0000	1,105.5711	1,105.5711	0.3576		1,114.5102
Total	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220	0.0000	1,105.5711	1,105.5711	0.3576		1,114.5102

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	0.0120	0.4393	0.1720	2.0000e-003	0.0720	3.0800e-003	0.0750	0.0209	2.9500e-003	0.0239		214.2068	214.2068	5.2600e-003	0.0316	223.7539
Worker	0.0862	0.0481	0.7046	2.3900e-003	0.3091	1.3400e-003	0.3104	0.0825	1.2300e-003	0.0837		241.8770	241.8770	4.9500e-003	5.6900e-003	243.6967
Total	0.0982	0.4874	0.8766	4.3900e-003	0.3810	4.4200e-003	0.3855	0.1034	4.1800e-003	0.1076		456.0839	456.0839	0.0102	0.0373	467.4506

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Winter

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

3.4 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	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220		1,105.5711	1,105.5711	0.3576		1,114.5102
Total	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220		1,105.5711	1,105.5711	0.3576		1,114.5102

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	0.0119	0.4368	0.1704	1.9600e-003	0.0769	3.0600e-003	0.0799	0.0221	2.9300e-003	0.0251		209.7901	209.7901	5.1200e-003	0.0309	219.1329
Worker	0.0809	0.0440	0.6672	2.3300e-003	0.3353	1.2500e-003	0.3366	0.0889	1.1500e-003	0.0901		235.4096	235.4096	4.5300e-003	5.4200e-003	237.1367
Total	0.0928	0.4807	0.8376	4.2900e-003	0.4122	4.3100e-003	0.4165	0.1111	4.0800e-003	0.1152		445.1997	445.1997	9.6500e-003	0.0363	456.2696

**Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220	0.0000	1,105.5711	1,105.5711	0.3576		1,114.5102
Total	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220	0.0000	1,105.5711	1,105.5711	0.3576		1,114.5102

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	0.0119	0.4368	0.1704	1.9600e-003	0.0720	3.0600e-003	0.0750	0.0209	2.9300e-003	0.0239		209.7901	209.7901	5.1200e-003	0.0309	219.1329
Worker	0.0809	0.0440	0.6672	2.3300e-003	0.3091	1.2500e-003	0.3103	0.0825	1.1500e-003	0.0836		235.4096	235.4096	4.5300e-003	5.4200e-003	237.1367
Total	0.0928	0.4807	0.8376	4.2900e-003	0.3810	4.3100e-003	0.3854	0.1034	4.0800e-003	0.1075		445.1997	445.1997	9.6500e-003	0.0363	456.2696

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Winter

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

3.4 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220		1,105.5711	1,105.5711	0.3576		1,114.5102
Total	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220		1,105.5711	1,105.5711	0.3576		1,114.5102

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	0.0117	0.4345	0.1691	1.9200e-003	0.0769	3.0500e-003	0.0799	0.0221	2.9200e-003	0.0251		205.6535	205.6535	4.9700e-003	0.0303	214.8045
Worker	0.0759	0.0404	0.6345	2.2700e-003	0.3353	1.1600e-003	0.3365	0.0889	1.0700e-003	0.0900		229.6560	229.6560	4.1700e-003	5.1800e-003	231.3042
Total	0.0876	0.4749	0.8035	4.1900e-003	0.4122	4.2100e-003	0.4164	0.1111	3.9900e-003	0.1151		435.3095	435.3095	9.1400e-003	0.0355	446.1087

**Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220	0.0000	1,105.5711	1,105.5711	0.3576		1,114.5102
Total	0.5510	5.4820	7.0282	0.0114		0.2413	0.2413		0.2220	0.2220	0.0000	1,105.5711	1,105.5711	0.3576		1,114.5102

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	0.0117	0.4345	0.1691	1.9200e-003	0.0720	3.0500e-003	0.0750	0.0209	2.9200e-003	0.0238		205.6535	205.6535	4.9700e-003	0.0303	214.8045
Worker	0.0759	0.0404	0.6345	2.2700e-003	0.3091	1.1600e-003	0.3103	0.0825	1.0700e-003	0.0836		229.6560	229.6560	4.1700e-003	5.1800e-003	231.3042
Total	0.0876	0.4749	0.8035	4.1900e-003	0.3810	4.2100e-003	0.3853	0.1034	3.9900e-003	0.1074		435.3095	435.3095	9.1400e-003	0.0355	446.1087

**Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

3.4 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6099	3.2301	7.1570	0.0140		0.0621	0.0621		0.0621	0.0621		1,322.7958	1,322.7958	0.0540		1,324.1451
Total	0.6099	3.2301	7.1570	0.0140		0.0621	0.0621		0.0621	0.0621		1,322.7958	1,322.7958	0.0540		1,324.1451

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	0.0116	0.4324	0.1680	1.8800e-003	0.0769	3.0300e-003	0.0799	0.0221	2.9000e-003	0.0250		201.8013	201.8013	4.8300e-003	0.0297	210.7736
Worker	0.0711	0.0374	0.6066	2.2200e-003	0.3353	1.0900e-003	0.3364	0.0889	1.0000e-003	0.0899		224.5549	224.5549	3.8400e-003	4.9800e-003	226.1362
Total	0.0828	0.4698	0.7746	4.1000e-003	0.4122	4.1200e-003	0.4163	0.1111	3.9000e-003	0.1150		426.3563	426.3563	8.6700e-003	0.0347	436.9098

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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	0.6099	3.2301	7.1570	0.0140		0.0621	0.0621		0.0621	0.0621	0.0000	1,322.7958	1,322.7958	0.0540		1,324.1451
Total	0.6099	3.2301	7.1570	0.0140		0.0621	0.0621		0.0621	0.0621	0.0000	1,322.7958	1,322.7958	0.0540		1,324.1451

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	0.0116	0.4324	0.1680	1.8800e-003	0.0720	3.0300e-003	0.0750	0.0209	2.9000e-003	0.0238		201.8013	201.8013	4.8300e-003	0.0297	210.7736
Worker	0.0711	0.0374	0.6066	2.2200e-003	0.3091	1.0900e-003	0.3102	0.0825	1.0000e-003	0.0835		224.5549	224.5549	3.8400e-003	4.9800e-003	226.1362
Total	0.0828	0.4698	0.7746	4.1000e-003	0.3810	4.1200e-003	0.3852	0.1034	3.9000e-003	0.1073		426.3563	426.3563	8.6700e-003	0.0347	436.9098

**Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

3.5 Architectural Coating (IB II) - 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	5.5264					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154			281.8319
Total	5.6972	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154			281.8319

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	0.0162	8.7900e-003	0.1334	4.7000e-004	0.0671	2.5000e-004	0.0673	0.0178	2.3000e-004	0.0180		47.0819	47.0819	9.1000e-004	1.0800e-003	47.4273
Total	0.0162	8.7900e-003	0.1334	4.7000e-004	0.0671	2.5000e-004	0.0673	0.0178	2.3000e-004	0.0180		47.0819	47.0819	9.1000e-004	1.0800e-003	47.4273

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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	5.5264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	5.6972	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.0162	8.7900e-003	0.1334	4.7000e-004	0.0618	2.5000e-004	0.0621	0.0165	2.3000e-004	0.0167		47.0819	47.0819	9.1000e-004	1.0800e-003	47.4273
Total	0.0162	8.7900e-003	0.1334	4.7000e-004	0.0618	2.5000e-004	0.0621	0.0165	2.3000e-004	0.0167		47.0819	47.0819	9.1000e-004	1.0800e-003	47.4273

**Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

3.6 Architectural Coating (CTE/Training) - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	11.4092					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154			281.8319
Total	11.5801	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154			281.8319

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	0.0152	8.0800e-003	0.1269	4.5000e-004	0.0671	2.3000e-004	0.0673	0.0178	2.1000e-004	0.0180		45.9312	45.9312	8.3000e-004	1.0400e-003	46.2609
Total	0.0152	8.0800e-003	0.1269	4.5000e-004	0.0671	2.3000e-004	0.0673	0.0178	2.1000e-004	0.0180		45.9312	45.9312	8.3000e-004	1.0400e-003	46.2609

**Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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	11.4092					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	11.5801	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.0152	8.0800e-003	0.1269	4.5000e-004	0.0618	2.3000e-004	0.0621	0.0165	2.1000e-004	0.0167		45.9312	45.9312	8.3000e-004	1.0400e-003	46.2609
Total	0.0152	8.0800e-003	0.1269	4.5000e-004	0.0618	2.3000e-004	0.0621	0.0165	2.1000e-004	0.0167		45.9312	45.9312	8.3000e-004	1.0400e-003	46.2609

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Paving - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7200	4.1196	7.4869	0.0133		0.1529	0.1529		0.1529	0.1529		1,211.7777	1,211.7777	0.0644		1,213.3888
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7200	4.1196	7.4869	0.0133		0.1529	0.1529		0.1529	0.1529		1,211.7777	1,211.7777	0.0644		1,213.3888

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	0.0427	0.0224	0.3640	1.3300e-003	0.2012	6.5000e-004	0.2019	0.0534	6.0000e-004	0.0540		134.7330	134.7330	2.3100e-003	2.9900e-003	135.6817
Total	0.0427	0.0224	0.3640	1.3300e-003	0.2012	6.5000e-004	0.2019	0.0534	6.0000e-004	0.0540		134.7330	134.7330	2.3100e-003	2.9900e-003	135.6817

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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	0.7200	4.1196	7.4869	0.0133		0.1529	0.1529		0.1529	0.1529	0.0000	1,211.7777	1,211.7777	0.0644		1,213.3888
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7200	4.1196	7.4869	0.0133		0.1529	0.1529		0.1529	0.1529	0.0000	1,211.7777	1,211.7777	0.0644		1,213.3888

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	0.0427	0.0224	0.3640	1.3300e-003	0.1855	6.5000e-004	0.1861	0.0495	6.0000e-004	0.0501		134.7330	134.7330	2.3100e-003	2.9900e-003	135.6817
Total	0.0427	0.0224	0.3640	1.3300e-003	0.1855	6.5000e-004	0.1861	0.0495	6.0000e-004	0.0501		134.7330	134.7330	2.3100e-003	2.9900e-003	135.6817

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Architectural Coating (SCCC) - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.1308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	7.2615	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.0142	7.4700e-003	0.1213	4.4000e-004	0.0671	2.2000e-004	0.0673	0.0178	2.0000e-004	0.0180		44.9110	44.9110	7.7000e-004	1.0000e-003	45.2272
Total	0.0142	7.4700e-003	0.1213	4.4000e-004	0.0671	2.2000e-004	0.0673	0.0178	2.0000e-004	0.0180		44.9110	44.9110	7.7000e-004	1.0000e-003	45.2272

**Chaffey College New Fontana Campus Master Plan Project (Phase 2) Construction Run - San Bernardino-South Coast 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	7.1308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	7.2615	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

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	0.0142	7.4700e-003	0.1213	4.4000e-004	0.0618	2.2000e-004	0.0620	0.0165	2.0000e-004	0.0167		44.9110	44.9110	7.7000e-004	1.0000e-003	45.2272
Total	0.0142	7.4700e-003	0.1213	4.4000e-004	0.0618	2.2000e-004	0.0620	0.0165	2.0000e-004	0.0167		44.9110	44.9110	7.7000e-004	1.0000e-003	45.2272

CalEEMod Mitigated Construction Model

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Mitigated Construction - San Bernardino-South Coast County, Annual

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

**Chaffey College New Fontana Campus Master Plan Project (Phase 1) Mitigated Construction
San Bernardino-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	137.00	1000sqft	1.26	137,000.00	0
Other Asphalt Surfaces	30.00	1000sqft	0.69	30,000.00	0
Other Non-Asphalt Surfaces	286.52	1000sqft	6.58	286,525.00	0
Parking Lot	251.30	1000sqft	5.77	251,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - based on information provided by applicant

Construction Phase - based on information provided by applicant, see normalized schedule in assumptions file

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Mitigated Construction - San Bernardino-South Coast County, Annual

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

Trips and VMT - see assumptions file for water truck trips calculations

Grading -

Architectural Coating - SCAQMD Rule 1113, only parking lot area considered for striping

Construction Off-road Equipment Mitigation - SCAQMD Rule 403, SCAQMD Rule 1186, MM: Tier 4 Interim Equipment >50hp

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	34,070.00	15,078.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Mitigated Construction - San Bernardino-South Coast 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 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	10.00	28.00
tblConstructionPhase	NumDays	30.00	84.00
tblConstructionPhase	NumDays	30.00	45.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	300.00	339.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	20.00	23.00
tblGrading	AcresOfGrading	135.00	138.00
tblLandUse	LandUseSquareFeet	286,520.00	286,525.00
tblLandUse	LotAcreage	3.15	1.26
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Mitigated Construction - San Bernardino-South Coast 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					
2024	0.1379	1.3883	1.1333	2.6300e-003	0.6043	0.0577	0.6619	0.2592	0.0531	0.3123	0.0000	232.9966	232.9966	0.0689	2.3500e-003	235.4187
2025	0.3247	2.5679	3.3521	8.7400e-003	0.7575	0.0935	0.8509	0.2291	0.0870	0.3161	0.0000	789.0253	789.0253	0.1263	0.0306	801.3067
2026	0.5781	1.6166	2.4283	6.5800e-003	0.3553	0.0552	0.4105	0.0958	0.0519	0.1477	0.0000	598.8231	598.8231	0.0636	0.0296	609.2357
Maximum	0.5781	2.5679	3.3521	8.7400e-003	0.7575	0.0935	0.8509	0.2592	0.0870	0.3161	0.0000	789.0253	789.0253	0.1263	0.0306	801.3067

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					
2024	0.0439	0.7866	1.4694	2.6300e-003	0.2657	4.2000e-003	0.2699	0.1129	4.1900e-003	0.1171	0.0000	232.9964	232.9964	0.0689	2.3500e-003	235.4185
2025	0.1952	2.1484	3.9197	8.7400e-003	0.4943	0.0146	0.5089	0.1446	0.0144	0.1590	0.0000	789.0248	789.0248	0.1263	0.0306	801.3062
2026	0.5128	1.4691	2.6289	6.5800e-003	0.3285	0.0112	0.3397	0.0893	0.0110	0.1002	0.0000	598.8228	598.8228	0.0636	0.0296	609.2354
Maximum	0.5128	2.1484	3.9197	8.7400e-003	0.4943	0.0146	0.5089	0.1446	0.0144	0.1590	0.0000	789.0248	789.0248	0.1263	0.0306	801.3062

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	27.74	20.97	-15.97	0.00	36.60	85.46	41.85	40.65	84.60	51.52	0.00	0.00	0.00	0.00	0.00	0.00

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
2	9-1-2024	11-30-2024	1.1168	0.5904
3	12-1-2024	2-28-2025	1.1039	0.7212
4	3-1-2025	5-31-2025	0.6674	0.5332
5	6-1-2025	8-31-2025	0.6440	0.5607
6	9-1-2025	11-30-2025	0.6417	0.5593
7	12-1-2025	2-28-2026	0.6337	0.5522
8	3-1-2026	5-31-2026	0.6414	0.5581
9	6-1-2026	8-31-2026	1.1253	1.0497
10	9-1-2026	9-30-2026	0.0221	0.0215
		Highest	1.1253	1.0497

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/2024	10/9/2024	5	28	
2	Rough Grading	Grading	10/9/2024	2/3/2025	5	84	
3	Utilities Trenching	Trenching	12/26/2024	2/3/2025	5	28	
4	Fine Grading	Grading	2/3/2025	4/4/2025	5	45	
5	Paving 1	Paving	4/4/2025	5/15/2025	5	30	
6	Building Construction	Building Construction	5/15/2025	9/1/2026	5	339	
7	Paving 2	Paving	7/31/2026	9/1/2026	5	23	
8	Architectural Coating	Architectural Coating	7/31/2026	9/1/2026	5	23	

Acres of Grading (Site Preparation Phase): 42

Acres of Grading (Grading Phase): 252

Acres of Paving: 13.04

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Mitigated Construction - San Bernardino-South Coast County, Annual

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

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 205,500; Non-Residential Outdoor: 68,500; Striped Parking Area: 15,078

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Rough Grading	Excavators	2	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities Trenching	Excavators	1	8.00	158	0.38
Fine Grading	Excavators	2	8.00	158	0.38
Fine Grading	Graders	1	8.00	187	0.41
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving 1	Pavers	2	8.00	130	0.42
Paving 1	Paving Equipment	2	8.00	132	0.36
Paving 1	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving 2	Pavers	2	8.00	130	0.42
Paving 2	Paving Equipment	2	8.00	132	0.36
Paving 2	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	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
Site Preparation	7	18.00	18.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utilities Trenching	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	8	20.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 1	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	296.00	116.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 2	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	59.00	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

3.2 Site Preparation - 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					
Fugitive Dust					0.2752	0.0000	0.2752	0.1414	0.0000	0.1414	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0373	0.3805	0.2567	5.3000e-004		0.0172	0.0172		0.0158	0.0158	0.0000	46.8399	46.8399	0.0152	0.0000	47.2186
Total	0.0373	0.3805	0.2567	5.3000e-004	0.2752	0.0172	0.2924	0.1414	0.0158	0.1573	0.0000	46.8399	46.8399	0.0152	0.0000	47.2186

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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	2.8000e-004	9.3800e-003	3.7000e-003	4.0000e-005	1.5900e-003	7.0000e-005	1.6500e-003	4.6000e-004	6.0000e-005	5.2000e-004	0.0000	4.3315	4.3315	1.1000e-004	6.4000e-004	4.5250
Worker	8.2000e-004	5.8000e-004	7.6100e-003	2.0000e-005	2.7600e-003	1.0000e-005	2.7800e-003	7.3000e-004	1.0000e-005	7.5000e-004	0.0000	2.0695	2.0695	5.0000e-005	5.0000e-005	2.0869
Total	1.1000e-003	9.9600e-003	0.0113	6.0000e-005	4.3500e-003	8.0000e-005	4.4300e-003	1.1900e-003	7.0000e-005	1.2700e-003	0.0000	6.4009	6.4009	1.6000e-004	6.9000e-004	6.6119

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1177	0.0000	0.1177	0.0605	0.0000	0.0605	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7500e-003	0.1703	0.3214	5.3000e-004		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	46.8398	46.8398	0.0152	0.0000	47.2186
Total	9.7500e-003	0.1703	0.3214	5.3000e-004	0.1177	8.7000e-004	0.1185	0.0605	8.7000e-004	0.0613	0.0000	46.8398	46.8398	0.0152	0.0000	47.2186

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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	2.8000e-004	9.3800e-003	3.7000e-003	4.0000e-005	1.4900e-003	7.0000e-005	1.5500e-003	4.3000e-004	6.0000e-005	5.0000e-004	0.0000	4.3315	4.3315	1.1000e-004	6.4000e-004	4.5250
Worker	8.2000e-004	5.8000e-004	7.6100e-003	2.0000e-005	2.5500e-003	1.0000e-005	2.5600e-003	6.8000e-004	1.0000e-005	6.9000e-004	0.0000	2.0695	2.0695	5.0000e-005	5.0000e-005	2.0869
Total	1.1000e-003	9.9600e-003	0.0113	6.0000e-005	4.0400e-003	8.0000e-005	4.1100e-003	1.1100e-003	7.0000e-005	1.1900e-003	0.0000	6.4009	6.4009	1.6000e-004	6.9000e-004	6.6119

3.3 Rough Grading - 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					
Fugitive Dust					0.3143	0.0000	0.3143	0.1137	0.0000	0.1137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0965	0.9713	0.8317	1.8600e-003		0.0401	0.0401		0.0369	0.0369	0.0000	163.5586	163.5586	0.0529	0.0000	164.8810
Total	0.0965	0.9713	0.8317	1.8600e-003	0.3143	0.0401	0.3544	0.1137	0.0369	0.1506	0.0000	163.5586	163.5586	0.0529	0.0000	164.8810

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.6000e-004	0.0223	8.8100e-003	1.1000e-004	3.7800e-003	1.6000e-004	3.9400e-003	1.0900e-003	1.5000e-004	1.2400e-003	0.0000	10.3130	10.3130	2.6000e-004	1.5200e-003	10.7737
Worker	1.9400e-003	1.3800e-003	0.0181	5.0000e-005	6.5800e-003	3.0000e-005	6.6100e-003	1.7500e-003	3.0000e-005	1.7800e-003	0.0000	4.9273	4.9273	1.2000e-004	1.3000e-004	4.9688
Total	2.6000e-003	0.0237	0.0269	1.6000e-004	0.0104	1.9000e-004	0.0106	2.8400e-003	1.8000e-004	3.0200e-003	0.0000	15.2403	15.2403	3.8000e-004	1.6500e-003	15.7425

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1344	0.0000	0.1344	0.0486	0.0000	0.0486	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0303	0.5781	1.1017	1.8600e-003		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	163.5584	163.5584	0.0529	0.0000	164.8808
Total	0.0303	0.5781	1.1017	1.8600e-003	0.1344	3.0500e-003	0.1374	0.0486	3.0500e-003	0.0517	0.0000	163.5584	163.5584	0.0529	0.0000	164.8808

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.6000e-004	0.0223	8.8100e-003	1.1000e-004	3.5400e-003	1.6000e-004	3.7000e-003	1.0300e-003	1.5000e-004	1.1800e-003	0.0000	10.3130	10.3130	2.6000e-004	1.5200e-003	10.7737
Worker	1.9400e-003	1.3800e-003	0.0181	5.0000e-005	6.0700e-003	3.0000e-005	6.1000e-003	1.6200e-003	3.0000e-005	1.6500e-003	0.0000	4.9273	4.9273	1.2000e-004	1.3000e-004	4.9688
Total	2.6000e-003	0.0237	0.0269	1.6000e-004	9.6100e-003	1.9000e-004	9.8000e-003	2.6500e-003	1.8000e-004	2.8300e-003	0.0000	15.2403	15.2403	3.8000e-004	1.6500e-003	15.7425

3.3 Rough Grading - 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					
Fugitive Dust					0.2059	0.0000	0.2059	0.0542	0.0000	0.0542	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.3353	0.3160	7.4000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	65.4075	65.4075	0.0212	0.0000	65.9363
Total	0.0348	0.3353	0.3160	7.4000e-004	0.2059	0.0136	0.2195	0.0542	0.0125	0.0666	0.0000	65.4075	65.4075	0.0212	0.0000	65.9363

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	8.8800e-003	3.4700e-003	4.0000e-005	1.5100e-003	6.0000e-005	1.5800e-003	4.4000e-004	6.0000e-005	5.0000e-004	0.0000	4.0450	4.0450	1.0000e-004	6.0000e-004	4.2256
Worker	7.2000e-004	4.9000e-004	6.7200e-003	2.0000e-005	2.6300e-003	1.0000e-005	2.6400e-003	7.0000e-004	1.0000e-005	7.1000e-004	0.0000	1.9037	1.9037	4.0000e-005	5.0000e-005	1.9191
Total	9.8000e-004	9.3700e-003	0.0102	6.0000e-005	4.1400e-003	7.0000e-005	4.2200e-003	1.1400e-003	7.0000e-005	1.2100e-003	0.0000	5.9487	5.9487	1.4000e-004	6.5000e-004	6.1447

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0880	0.0000	0.0880	0.0232	0.0000	0.0232	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.2313	0.4407	7.4000e-004		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003	0.0000	65.4074	65.4074	0.0212	0.0000	65.9362
Total	0.0121	0.2313	0.4407	7.4000e-004	0.0880	1.2200e-003	0.0892	0.0232	1.2200e-003	0.0244	0.0000	65.4074	65.4074	0.0212	0.0000	65.9362

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	8.8800e-003	3.4700e-003	4.0000e-005	1.4200e-003	6.0000e-005	1.4800e-003	4.1000e-004	6.0000e-005	4.7000e-004	0.0000	4.0450	4.0450	1.0000e-004	6.0000e-004	4.2256
Worker	7.2000e-004	4.9000e-004	6.7200e-003	2.0000e-005	2.4300e-003	1.0000e-005	2.4400e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	1.9037	1.9037	4.0000e-005	5.0000e-005	1.9191
Total	9.8000e-004	9.3700e-003	0.0102	6.0000e-005	3.8500e-003	7.0000e-005	3.9200e-003	1.0600e-003	7.0000e-005	1.1300e-003	0.0000	5.9487	5.9487	1.4000e-004	6.5000e-004	6.1447

3.4 Utilities Trenching - 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	3.6000e-004	2.8100e-003	6.5300e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.3000e-004	1.3000e-004	0.0000	0.9077	0.9077	2.9000e-004	0.0000	0.9150
Total	3.6000e-004	2.8100e-003	6.5300e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.3000e-004	1.3000e-004	0.0000	0.9077	0.9077	2.9000e-004	0.0000	0.9150

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0493	0.0493	0.0000	0.0000	0.0497
Total	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0493	0.0493	0.0000	0.0000	0.0497

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3000e-004	4.5500e-003	7.8400e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.9077	0.9077	2.9000e-004	0.0000	0.9150
Total	1.3000e-004	4.5500e-003	7.8400e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.9077	0.9077	2.9000e-004	0.0000	0.9150

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0493	0.0493	0.0000	0.0000	0.0497
Total	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0493	0.0493	0.0000	0.0000	0.0497

3.4 Utilities Trenching - 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	2.0100e-003	0.0147	0.0391	6.0000e-005		7.2000e-004	7.2000e-004		6.6000e-004	6.6000e-004	0.0000	5.4468	5.4468	1.7600e-003	0.0000	5.4908
Total	2.0100e-003	0.0147	0.0391	6.0000e-005		7.2000e-004	7.2000e-004		6.6000e-004	6.6000e-004	0.0000	5.4468	5.4468	1.7600e-003	0.0000	5.4908

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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	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.1000e-004	7.0000e-005	1.0100e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.2856	0.2856	1.0000e-005	1.0000e-005	0.2879
Total	1.1000e-004	7.0000e-005	1.0100e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.2856	0.2856	1.0000e-005	1.0000e-005	0.2879

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.6000e-004	0.0273	0.0470	6.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	5.4468	5.4468	1.7600e-003	0.0000	5.4908
Total	7.6000e-004	0.0273	0.0470	6.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	5.4468	5.4468	1.7600e-003	0.0000	5.4908

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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	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.1000e-004	7.0000e-005	1.0100e-003	0.0000	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2856	0.2856	1.0000e-005	1.0000e-005	0.2879
Total	1.1000e-004	7.0000e-005	1.0100e-003	0.0000	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2856	0.2856	1.0000e-005	1.0000e-005	0.2879

3.5 Fine Grading - 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					
Fugitive Dust					0.2087	0.0000	0.2087	0.0824	0.0000	0.0824	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0653	0.6287	0.5925	1.4000e-003		0.0255	0.0255		0.0234	0.0234	0.0000	122.6390	122.6390	0.0397	0.0000	123.6306
Total	0.0653	0.6287	0.5925	1.4000e-003	0.2087	0.0255	0.2341	0.0824	0.0234	0.1058	0.0000	122.6390	122.6390	0.0397	0.0000	123.6306

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9000e-004	0.0167	6.5100e-003	8.0000e-005	2.8400e-003	1.2000e-004	2.9500e-003	8.2000e-004	1.1000e-004	9.3000e-004	0.0000	7.5845	7.5845	1.9000e-004	1.1200e-003	7.9230
Worker	1.3600e-003	9.2000e-004	0.0126	4.0000e-005	4.9300e-003	2.0000e-005	4.9600e-003	1.3100e-003	2.0000e-005	1.3300e-003	0.0000	3.5694	3.5694	8.0000e-005	9.0000e-005	3.5984
Total	1.8500e-003	0.0176	0.0191	1.2000e-004	7.7700e-003	1.4000e-004	7.9100e-003	2.1300e-003	1.3000e-004	2.2600e-003	0.0000	11.1539	11.1539	2.7000e-004	1.2100e-003	11.5214

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0892	0.0000	0.0892	0.0352	0.0000	0.0352	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.4336	0.8263	1.4000e-003		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	122.6388	122.6388	0.0397	0.0000	123.6304
Total	0.0228	0.4336	0.8263	1.4000e-003	0.0892	2.2800e-003	0.0915	0.0352	2.2800e-003	0.0375	0.0000	122.6388	122.6388	0.0397	0.0000	123.6304

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9000e-004	0.0167	6.5100e-003	8.0000e-005	2.6600e-003	1.2000e-004	2.7700e-003	7.7000e-004	1.1000e-004	8.9000e-004	0.0000	7.5845	7.5845	1.9000e-004	1.1200e-003	7.9230
Worker	1.3600e-003	9.2000e-004	0.0126	4.0000e-005	4.5500e-003	2.0000e-005	4.5700e-003	1.2200e-003	2.0000e-005	1.2400e-003	0.0000	3.5694	3.5694	8.0000e-005	9.0000e-005	3.5984
Total	1.8500e-003	0.0176	0.0191	1.2000e-004	7.2100e-003	1.4000e-004	7.3400e-003	1.9900e-003	1.3000e-004	2.1300e-003	0.0000	11.1539	11.1539	2.7000e-004	1.2100e-003	11.5214

3.6 Paving 1 - 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	0.0137	0.1287	0.2187	3.4000e-004		6.2800e-003	6.2800e-003		5.7800e-003	5.7800e-003	0.0000	30.0289	30.0289	9.7100e-003	0.0000	30.2717
Paving	8.4600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0222	0.1287	0.2187	3.4000e-004		6.2800e-003	6.2800e-003		5.7800e-003	5.7800e-003	0.0000	30.0289	30.0289	9.7100e-003	0.0000	30.2717

Unmitigated Construction Off-Site

Chaffey College New Fontana Campus Master Plan Project (Phase 1) Mitigated Construction - San Bernardino-South Coast 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	6.8000e-004	4.6000e-004	6.3000e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.7847	1.7847	4.0000e-005	5.0000e-005	1.7992
Total	6.8000e-004	4.6000e-004	6.3000e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.7847	1.7847	4.0000e-005	5.0000e-005	1.7992

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0100e-003	0.1506	0.2594	3.4000e-004		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	30.0289	30.0289	9.7100e-003	0.0000	30.2717
Paving	8.4600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0135	0.1506	0.2594	3.4000e-004		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	30.0289	30.0289	9.7100e-003	0.0000	30.2717

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	4.6000e-004	6.3000e-003	2.0000e-005	2.2700e-003	1.0000e-005	2.2900e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7847	1.7847	4.0000e-005	5.0000e-005	1.7992
Total	6.8000e-004	4.6000e-004	6.3000e-003	2.0000e-005	2.2700e-003	1.0000e-005	2.2900e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7847	1.7847	4.0000e-005	5.0000e-005	1.7992

3.7 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	0.1128	1.0288	1.3270	2.2200e-003		0.0435	0.0435		0.0409	0.0409	0.0000	191.3336	191.3336	0.0450	0.0000	192.4580
Total	0.1128	1.0288	1.3270	2.2200e-003		0.0435	0.0435		0.0409	0.0409	0.0000	191.3336	191.3336	0.0450	0.0000	192.4580

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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	0.0103	0.3541	0.1384	1.6600e-003	0.0604	2.4800e-003	0.0628	0.0174	2.3800e-003	0.0198	0.0000	161.2962	161.2962	4.0900e-003	0.0238	168.4961
Worker	0.0736	0.0502	0.6839	2.1100e-003	0.2678	1.2200e-003	0.2690	0.0711	1.1300e-003	0.0722	0.0000	193.7006	193.7006	4.4800e-003	4.8900e-003	195.2702
Total	0.0840	0.4043	0.8223	3.7700e-003	0.3281	3.7000e-003	0.3318	0.0885	3.5100e-003	0.0920	0.0000	354.9967	354.9967	8.5700e-003	0.0287	363.7663

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0585	0.8739	1.4874	2.2200e-003		6.5000e-003	6.5000e-003		6.5000e-003	6.5000e-003	0.0000	191.3333	191.3333	0.0450	0.0000	192.4577
Total	0.0585	0.8739	1.4874	2.2200e-003		6.5000e-003	6.5000e-003		6.5000e-003	6.5000e-003	0.0000	191.3333	191.3333	0.0450	0.0000	192.4577

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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	0.0103	0.3541	0.1384	1.6600e-003	0.0565	2.4800e-003	0.0590	0.0165	2.3800e-003	0.0189	0.0000	161.2962	161.2962	4.0900e-003	0.0238	168.4961
Worker	0.0736	0.0502	0.6839	2.1100e-003	0.2469	1.2200e-003	0.2481	0.0660	1.1300e-003	0.0671	0.0000	193.7006	193.7006	4.4800e-003	4.8900e-003	195.2702
Total	0.0840	0.4043	0.8223	3.7700e-003	0.3034	3.7000e-003	0.3071	0.0825	3.5100e-003	0.0860	0.0000	354.9967	354.9967	8.5700e-003	0.0287	363.7663

3.7 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	0.1190	1.0849	1.3994	2.3500e-003		0.0459	0.0459		0.0432	0.0432	0.0000	201.7699	201.7699	0.0474	0.0000	202.9557
Total	0.1190	1.0849	1.3994	2.3500e-003		0.0459	0.0459		0.0432	0.0432	0.0000	201.7699	201.7699	0.0474	0.0000	202.9557

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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	0.0107	0.3706	0.1440	1.7100e-003	0.0637	2.6000e-003	0.0663	0.0184	2.4900e-003	0.0209	0.0000	166.7152	166.7152	4.1800e-003	0.0246	174.1511
Worker	0.0726	0.0477	0.6742	2.1600e-003	0.2824	1.2200e-003	0.2836	0.0750	1.1200e-003	0.0761	0.0000	197.8417	197.8417	4.2900e-003	4.8400e-003	199.3913
Total	0.0834	0.4183	0.8182	3.8700e-003	0.3460	3.8200e-003	0.3498	0.0934	3.6100e-003	0.0970	0.0000	364.5569	364.5569	8.4700e-003	0.0294	373.5424

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0617	0.9216	1.5685	2.3500e-003		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003	0.0000	201.7697	201.7697	0.0474	0.0000	202.9554
Total	0.0617	0.9216	1.5685	2.3500e-003		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003	0.0000	201.7697	201.7697	0.0474	0.0000	202.9554

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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	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.3706	0.1440	1.7100e-003	0.0596	2.6000e-003	0.0622	0.0174	2.4900e-003	0.0199	0.0000	166.7152	166.7152	4.1800e-003	0.0246	174.1511
Worker	0.0726	0.0477	0.6742	2.1600e-003	0.2603	1.2200e-003	0.2616	0.0696	1.1200e-003	0.0707	0.0000	197.8417	197.8417	4.2900e-003	4.8400e-003	199.3913
Total	0.0834	0.4183	0.8182	3.8700e-003	0.3199	3.8200e-003	0.3238	0.0870	3.6100e-003	0.0906	0.0000	364.5569	364.5569	8.4700e-003	0.0294	373.5424

3.8 Paving 2 - 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	0.0105	0.0987	0.1677	2.6000e-004		4.8100e-003	4.8100e-003		4.4300e-003	4.4300e-003	0.0000	23.0221	23.0221	7.4500e-003	0.0000	23.2083
Paving	8.4600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0190	0.0987	0.1677	2.6000e-004		4.8100e-003	4.8100e-003		4.4300e-003	4.4300e-003	0.0000	23.0221	23.0221	7.4500e-003	0.0000	23.2083

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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	0.0000	0.0000	0.0000	0.0000	0.0000	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	4.9000e-004	3.2000e-004	4.5200e-003	1.0000e-005	1.8900e-003	1.0000e-005	1.9000e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.3252	1.3252	3.0000e-005	3.0000e-005	1.3356
Total	4.9000e-004	3.2000e-004	4.5200e-003	1.0000e-005	1.8900e-003	1.0000e-005	1.9000e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.3252	1.3252	3.0000e-005	3.0000e-005	1.3356

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.8400e-003	0.1155	0.1989	2.6000e-004		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	23.0221	23.0221	7.4500e-003	0.0000	23.2083
Paving	8.4600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0123	0.1155	0.1989	2.6000e-004		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	23.0221	23.0221	7.4500e-003	0.0000	23.2083

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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	0.0000	0.0000	0.0000	0.0000	0.0000	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	4.9000e-004	3.2000e-004	4.5200e-003	1.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.7000e-004	1.0000e-005	4.7000e-004	0.0000	1.3252	1.3252	3.0000e-005	3.0000e-005	1.3356
Total	4.9000e-004	3.2000e-004	4.5200e-003	1.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.7000e-004	1.0000e-005	4.7000e-004	0.0000	1.3252	1.3252	3.0000e-005	3.0000e-005	1.3356

3.9 Architectural Coating - 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					
Archit. Coating	0.3524					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	0.0132	0.0208	3.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9403
Total	0.3544	0.0132	0.0208	3.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9403

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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	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.9100e-003	1.2600e-003	0.0178	6.0000e-005	7.4400e-003	3.0000e-005	7.4700e-003	1.9800e-003	3.0000e-005	2.0100e-003	0.0000	5.2126	5.2126	1.1000e-004	1.3000e-004	5.2535
Total	1.9100e-003	1.2600e-003	0.0178	6.0000e-005	7.4400e-003	3.0000e-005	7.4700e-003	1.9800e-003	3.0000e-005	2.0100e-003	0.0000	5.2126	5.2126	1.1000e-004	1.3000e-004	5.2535

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	tons/yr										MT/yr					
Archit. Coating	0.3524					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-004	0.0122	0.0211	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9402
Total	0.3531	0.0122	0.0211	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9402

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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	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.9100e-003	1.2600e-003	0.0178	6.0000e-005	6.8600e-003	3.0000e-005	6.8900e-003	1.8300e-003	3.0000e-005	1.8600e-003	0.0000	5.2126	5.2126	1.1000e-004	1.3000e-004	5.2535
Total	1.9100e-003	1.2600e-003	0.0178	6.0000e-005	6.8600e-003	3.0000e-005	6.8900e-003	1.8300e-003	3.0000e-005	1.8600e-003	0.0000	5.2126	5.2126	1.1000e-004	1.3000e-004	5.2535

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	72.00	1000sqft	0.55	72,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2029
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2020 SCE Sustainability Report

Land Use - based on info from applicant

Construction Phase - see normalized schedule in assumptions file

Trips and VMT - see assumptions file for water truck trip calculations

Grading -

Architectural Coating - based on building area of each building. SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - SCAQMD Rules 403 and 1186, MM: Tier 4 Interim for Equipment >50hp

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	36,000.00	16,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	36,000.00	10,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	36,000.00	10,000.00

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tblArchitecturalCoating	ConstArea_Nonresidential_Interior	108,000.00	48,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	108,000.00	30,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	108,000.00	30,000.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	5.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

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tblConstructionPhase	NumDays	5.00	13.00
tblConstructionPhase	NumDays	5.00	13.00
tblConstructionPhase	NumDays	5.00	13.00
tblConstructionPhase	NumDays	100.00	762.00
tblConstructionPhase	NumDays	2.00	16.00
tblConstructionPhase	NumDays	5.00	13.00
tblConstructionPhase	NumDays	1.00	8.00
tblGrading	AcresOfGrading	12.00	8.25
tblGrading	AcresOfGrading	4.00	3.00
tblLandUse	LotAcreage	1.65	0.55
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00

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					
2027	0.0512	0.4864	0.5855	1.2200e-003	0.0703	0.0197	0.0900	0.0281	0.0181	0.0462	0.0000	109.1422	109.1422	0.0264	2.4700e-003	110.5365
2028	0.1200	0.7827	1.0390	2.0700e-003	0.0530	0.0323	0.0853	0.0143	0.0297	0.0440	0.0000	185.3407	185.3407	0.0434	4.3100e-003	187.7096
2029	0.1580	0.7849	1.0383	2.0700e-003	0.0532	0.0324	0.0856	0.0144	0.0298	0.0442	0.0000	184.8550	184.8550	0.0435	4.2200e-003	187.2006
2030	0.0897	0.2342	0.4974	1.1000e-003	0.0238	4.7400e-003	0.0285	6.4100e-003	4.7200e-003	0.0111	0.0000	96.5692	96.5692	3.5700e-003	1.7400e-003	97.1784
Maximum	0.1580	0.7849	1.0390	2.0700e-003	0.0703	0.0324	0.0900	0.0281	0.0298	0.0462	0.0000	185.3407	185.3407	0.0435	4.3100e-003	187.7096

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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					
2027	0.0248	0.3770	0.6768	1.2200e-003	0.0441	1.7900e-003	0.0459	0.0159	1.7800e-003	0.0176	0.0000	109.1421	109.1421	0.0264	2.4700e-003	110.5364
2028	0.0786	0.6517	1.1606	2.0700e-003	0.0490	3.0100e-003	0.0520	0.0133	2.9800e-003	0.0163	0.0000	185.3405	185.3405	0.0434	4.3100e-003	187.7094
2029	0.1164	0.6534	1.1604	2.0700e-003	0.0492	3.0100e-003	0.0522	0.0134	2.9800e-003	0.0164	0.0000	184.8549	184.8549	0.0435	4.2200e-003	187.2004
2030	0.0653	0.3028	0.5377	1.1000e-003	0.0220	1.3700e-003	0.0233	5.9700e-003	1.3600e-003	7.3200e-003	0.0000	96.5691	96.5691	3.5700e-003	1.7400e-003	97.1783
Maximum	0.1164	0.6534	1.1606	2.0700e-003	0.0492	3.0100e-003	0.0522	0.0159	2.9800e-003	0.0176	0.0000	185.3405	185.3405	0.0435	4.3100e-003	187.7094

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	31.93	13.25	-11.88	0.00	17.98	89.69	40.06	23.20	88.95	60.42	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	6-1-2027	8-31-2027	0.2433	0.1668
2	9-1-2027	11-30-2027	0.2149	0.1721
3	12-1-2027	2-29-2028	0.2148	0.1721
4	3-1-2028	5-31-2028	0.2166	0.1734
5	6-1-2028	8-31-2028	0.2629	0.2183
6	9-1-2028	11-30-2028	0.2145	0.1717
7	12-1-2028	2-28-2029	0.2121	0.1698
8	3-1-2029	5-31-2029	0.2344	0.1909
9	6-1-2029	8-31-2029	0.2752	0.2310

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10	9-1-2029	11-30-2029	0.2141	0.1714
11	12-1-2029	2-28-2030	0.1656	0.1695
12	3-1-2030	5-31-2030	0.2230	0.2485
13	6-1-2030	8-31-2030	0.0062	0.0063
		Highest	0.2752	0.2485

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2936	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7900e-003	1.7900e-003	0.0000	0.0000	1.9000e-003
Energy	5.3100e-003	0.0483	0.0406	2.9000e-004		3.6700e-003	3.6700e-003		3.6700e-003	3.6700e-003	0.0000	180.3455	180.3455	9.2700e-003	1.9700e-003	181.1633
Mobile	0.4649	0.6776	4.7095	0.0110	1.3313	8.1400e-003	1.3394	0.3555	7.6200e-003	0.3632	0.0000	1,017.6845	1,017.6845	0.0566	0.0512	1,034.3419
Waste						0.0000	0.0000		0.0000	0.0000	19.0000	0.0000	19.0000	1.1229	0.0000	47.0716
Water						0.0000	0.0000		0.0000	0.0000	1.1204	24.8330	25.9534	0.1167	2.9100e-003	29.7382
Total	0.7638	0.7260	4.7510	0.0113	1.3313	0.0118	1.3431	0.3555	0.0113	0.3668	20.1203	1,222.8647	1,242.9851	1.3054	0.0560	1,292.3169

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3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2027	6/10/2027	5	8	a
2	Grading	Grading	6/10/2027	7/1/2027	5	16	b
3	Building Construction	Building Construction	7/1/2027	6/1/2030	5	762	c
4	Architectural Coating (IB II)	Architectural Coating	6/7/2028	6/25/2028	5	13	d
5	Architectural Coating (CTE/Training)	Architectural Coating	5/28/2029	6/13/2029	5	13	e
6	Paving	Paving	5/15/2030	6/1/2030	5	13	f
7	Architectural Coating (SCCC)	Architectural Coating	5/15/2030	6/1/2030	5	13	g

Acres of Grading (Site Preparation Phase): 3

Acres of Grading (Grading Phase): 8.25

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,000; Non-Residential Outdoor: 16,000; Striped Parking Area: 0 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating (CTE/Training)	Air Compressors	B-255	6.00	78	0.48

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Architectural Coating (IB II)	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating (SCCC)	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	30.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (C.T.F./Training)	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (IB II)	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (SCCC)	1	6.00	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

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3.2 Site Preparation - 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					
Fugitive Dust					1.5900e-003	0.0000	1.5900e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7700e-003	0.0192	0.0153	4.0000e-005		6.6000e-004	6.6000e-004		6.1000e-004	6.1000e-004	0.0000	3.4193	3.4193	1.1100e-003	0.0000	3.4470
Total	1.7700e-003	0.0192	0.0153	4.0000e-005	1.5900e-003	6.6000e-004	2.2500e-003	1.7000e-004	6.1000e-004	7.8000e-004	0.0000	3.4193	3.4193	1.1100e-003	0.0000	3.4470

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	3.0000e-005	8.7000e-004	3.4000e-004	0.0000	1.5000e-004	1.0000e-005	1.6000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.3881	0.3881	1.0000e-005	6.0000e-005	0.4054
Worker	5.0000e-005	3.0000e-005	4.9000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1492	0.1492	0.0000	0.0000	0.1503
Total	8.0000e-005	9.0000e-004	8.3000e-004	0.0000	3.7000e-004	1.0000e-005	3.8000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	0.5373	0.5373	1.0000e-005	6.0000e-005	0.5557

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.8000e-004	0.0000	6.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1000e-004	0.0124	0.0234	4.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.4193	3.4193	1.1100e-003	0.0000	3.4470
Total	7.1000e-004	0.0124	0.0234	4.0000e-005	6.8000e-004	6.0000e-005	7.4000e-004	7.0000e-005	6.0000e-005	1.3000e-004	0.0000	3.4193	3.4193	1.1100e-003	0.0000	3.4470

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	3.0000e-005	8.7000e-004	3.4000e-004	0.0000	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.3881	0.3881	1.0000e-005	6.0000e-005	0.4054
Worker	5.0000e-005	3.0000e-005	4.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1492	0.1492	0.0000	0.0000	0.1503
Total	8.0000e-005	9.0000e-004	8.3000e-004	0.0000	3.4000e-004	1.0000e-005	3.5000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.5373	0.5373	1.0000e-005	6.0000e-005	0.5557

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3.3 Grading - 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					
Fugitive Dust					0.0405	0.0000	0.0405	0.0203	0.0000	0.0203	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6800e-003	0.0699	0.0432	1.1000e-004		2.7900e-003	2.7900e-003		2.5600e-003	2.5600e-003	0.0000	9.9043	9.9043	3.2000e-003	0.0000	9.9844
Total	6.6800e-003	0.0699	0.0432	1.1000e-004	0.0405	2.7900e-003	0.0433	0.0203	2.5600e-003	0.0229	0.0000	9.9043	9.9043	3.2000e-003	0.0000	9.9844

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	2.3300e-003	9.0000e-004	1.0000e-005	4.0000e-004	2.0000e-005	4.2000e-004	1.2000e-004	2.0000e-005	1.3000e-004	0.0000	1.0349	1.0349	3.0000e-005	1.5000e-004	1.0810
Worker	1.7000e-004	1.1000e-004	1.5800e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.4773	0.4773	1.0000e-005	1.0000e-005	0.4810
Total	2.4000e-004	2.4400e-003	2.4800e-003	2.0000e-005	1.1000e-003	2.0000e-005	1.1200e-003	3.1000e-004	2.0000e-005	3.2000e-004	0.0000	1.5122	1.5122	4.0000e-005	1.6000e-004	1.5620

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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					0.0173	0.0000	0.0173	8.6900e-003	0.0000	8.6900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9700e-003	0.0334	0.0647	1.1000e-004		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	9.9043	9.9043	3.2000e-003	0.0000	9.9843
Total	1.9700e-003	0.0334	0.0647	1.1000e-004	0.0173	1.8000e-004	0.0175	8.6900e-003	1.8000e-004	8.8700e-003	0.0000	9.9043	9.9043	3.2000e-003	0.0000	9.9843

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	2.3300e-003	9.0000e-004	1.0000e-005	3.8000e-004	2.0000e-005	3.9000e-004	1.1000e-004	2.0000e-005	1.3000e-004	0.0000	1.0349	1.0349	3.0000e-005	1.5000e-004	1.0810
Worker	1.7000e-004	1.1000e-004	1.5800e-003	1.0000e-005	6.5000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.4773	0.4773	1.0000e-005	1.0000e-005	0.4810
Total	2.4000e-004	2.4400e-003	2.4800e-003	2.0000e-005	1.0300e-003	2.0000e-005	1.0400e-003	2.8000e-004	2.0000e-005	3.1000e-004	0.0000	1.5122	1.5122	4.0000e-005	1.6000e-004	1.5620

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Mitigated Construction Run - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.0364	0.3618	0.4639	7.5000e-004		0.0159	0.0159		0.0147	0.0147	0.0000	66.1952	66.1952	0.0214	0.0000	66.7304
Total	0.0364	0.3618	0.4639	7.5000e-004		0.0159	0.0159		0.0147	0.0147	0.0000	66.1952	66.1952	0.0214	0.0000	66.7304

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	8.3000e-004	0.0289	0.0112	1.3000e-004	4.9900e-003	2.0000e-004	5.2000e-003	1.4400e-003	1.9000e-004	1.6400e-003	0.0000	12.8069	12.8069	3.2000e-004	1.8900e-003	13.3778
Worker	5.2300e-003	3.3200e-003	0.0487	1.6000e-004	0.0217	9.0000e-005	0.0218	5.7700e-003	8.0000e-005	5.8500e-003	0.0000	14.7670	14.7670	3.0000e-004	3.5000e-004	14.8793
Total	6.0600e-003	0.0322	0.0599	2.9000e-004	0.0267	2.9000e-004	0.0270	7.2100e-003	2.7000e-004	7.4900e-003	0.0000	27.5739	27.5739	6.2000e-004	2.2400e-003	28.2571

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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	0.0157	0.2956	0.5255	7.5000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	66.1951	66.1951	0.0214	0.0000	66.7303
Total	0.0157	0.2956	0.5255	7.5000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	66.1951	66.1951	0.0214	0.0000	66.7303

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	8.3000e-004	0.0289	0.0112	1.3000e-004	4.6800e-003	2.0000e-004	4.8800e-003	1.3600e-003	1.9000e-004	1.5600e-003	0.0000	12.8069	12.8069	3.2000e-004	1.8900e-003	13.3778
Worker	5.2300e-003	3.3200e-003	0.0487	1.6000e-004	0.0200	9.0000e-005	0.0201	5.3500e-003	8.0000e-005	5.4300e-003	0.0000	14.7670	14.7670	3.0000e-004	3.5000e-004	14.8793
Total	6.0600e-003	0.0322	0.0599	2.9000e-004	0.0247	2.9000e-004	0.0250	6.7100e-003	2.7000e-004	6.9900e-003	0.0000	27.5739	27.5739	6.2000e-004	2.2400e-003	28.2571

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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 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	0.0716	0.7127	0.9137	1.4800e-003		0.0314	0.0314		0.0289	0.0289	0.0000	130.3844	130.3844	0.0422	0.0000	131.4387
Total	0.0716	0.7127	0.9137	1.4800e-003		0.0314	0.0314		0.0289	0.0289	0.0000	130.3844	130.3844	0.0422	0.0000	131.4387

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	1.6100e-003	0.0565	0.0218	2.5000e-004	9.8400e-003	4.0000e-004	0.0102	2.8400e-003	3.8000e-004	3.2200e-003	0.0000	24.7054	24.7054	6.1000e-004	3.6400e-003	25.8057
Worker	9.6700e-003	5.9800e-003	0.0909	3.1000e-004	0.0428	1.6000e-004	0.0429	0.0114	1.5000e-004	0.0115	0.0000	28.3082	28.3082	5.4000e-004	6.6000e-004	28.5181
Total	0.0113	0.0625	0.1127	5.6000e-004	0.0526	5.6000e-004	0.0532	0.0142	5.3000e-004	0.0147	0.0000	53.0135	53.0135	1.1500e-003	4.3000e-003	54.3238

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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	0.0310	0.5823	1.0351	1.4800e-003		2.4200e-003	2.4200e-003		2.4200e-003	2.4200e-003	0.0000	130.3843	130.3843	0.0422	0.0000	131.4385
Total	0.0310	0.5823	1.0351	1.4800e-003		2.4200e-003	2.4200e-003		2.4200e-003	2.4200e-003	0.0000	130.3843	130.3843	0.0422	0.0000	131.4385

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	1.6100e-003	0.0565	0.0218	2.5000e-004	9.2100e-003	4.0000e-004	9.6100e-003	2.6900e-003	3.8000e-004	3.0700e-003	0.0000	24.7054	24.7054	6.1000e-004	3.6400e-003	25.8057
Worker	9.6700e-003	5.9800e-003	0.0909	3.1000e-004	0.0394	1.6000e-004	0.0396	0.0105	1.5000e-004	0.0107	0.0000	28.3082	28.3082	5.4000e-004	6.6000e-004	28.5181
Total	0.0113	0.0625	0.1127	5.6000e-004	0.0486	5.6000e-004	0.0492	0.0132	5.3000e-004	0.0138	0.0000	53.0135	53.0135	1.1500e-003	4.3000e-003	54.3238

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Mitigated Construction Run - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0719	0.7154	0.9172	1.4900e-003		0.0315	0.0315		0.0290	0.0290	0.0000	130.8859	130.8859	0.0423	0.0000	131.9442
Total	0.0719	0.7154	0.9172	1.4900e-003		0.0315	0.0315		0.0290	0.0290	0.0000	130.8859	130.8859	0.0423	0.0000	131.9442

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	1.6000e-003	0.0564	0.0217	2.5000e-004	9.8800e-003	4.0000e-004	0.0103	2.8500e-003	3.8000e-004	3.2300e-003	0.0000	24.3112	24.3112	5.9000e-004	3.5800e-003	25.3931
Worker	9.0900e-003	5.5200e-003	0.0868	3.0000e-004	0.0429	1.5000e-004	0.0431	0.0114	1.4000e-004	0.0115	0.0000	27.7222	27.7222	5.0000e-004	6.3000e-004	27.9233
Total	0.0107	0.0620	0.1085	5.5000e-004	0.0528	5.5000e-004	0.0534	0.0143	5.2000e-004	0.0148	0.0000	52.0333	52.0333	1.0900e-003	4.2100e-003	53.3164

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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	0.0311	0.5845	1.0391	1.4900e-003		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003	0.0000	130.8858	130.8858	0.0423	0.0000	131.9440
Total	0.0311	0.5845	1.0391	1.4900e-003		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003	0.0000	130.8858	130.8858	0.0423	0.0000	131.9440

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	1.6000e-003	0.0564	0.0217	2.5000e-004	9.2500e-003	4.0000e-004	9.6400e-003	2.7000e-003	3.8000e-004	3.0800e-003	0.0000	24.3112	24.3112	5.9000e-004	3.5800e-003	25.3931
Worker	9.0900e-003	5.5200e-003	0.0868	3.0000e-004	0.0396	1.5000e-004	0.0397	0.0106	1.4000e-004	0.0107	0.0000	27.7222	27.7222	5.0000e-004	6.3000e-004	27.9233
Total	0.0107	0.0620	0.1085	5.5000e-004	0.0488	5.5000e-004	0.0494	0.0133	5.2000e-004	0.0138	0.0000	52.0333	52.0333	1.0900e-003	4.2100e-003	53.3164

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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 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0332	0.1760	0.3901	7.6000e-004		3.3800e-003	3.3800e-003		3.3800e-003	3.3800e-003	0.0000	65.4011	65.4011	2.6700e-003	0.0000	65.4678
Total	0.0332	0.1760	0.3901	7.6000e-004		3.3800e-003	3.3800e-003		3.3800e-003	3.3800e-003	0.0000	65.4011	65.4011	2.6700e-003	0.0000	65.4678

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	6.6000e-004	0.0235	9.0100e-003	1.0000e-004	4.1200e-003	1.6000e-004	4.2900e-003	1.1900e-003	1.6000e-004	1.3500e-003	0.0000	9.9627	9.9627	2.4000e-004	1.4700e-003	10.4057
Worker	3.5600e-003	2.1300e-003	0.0347	1.2000e-004	0.0179	6.0000e-005	0.0180	4.7600e-003	5.0000e-005	4.8200e-003	0.0000	11.3202	11.3202	1.9000e-004	2.5000e-004	11.4008
Total	4.2200e-003	0.0256	0.0437	2.2000e-004	0.0221	2.2000e-004	0.0223	5.9500e-003	2.1000e-004	6.1700e-003	0.0000	21.2829	21.2829	4.3000e-004	1.7200e-003	21.8065

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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	0.0130	0.2441	0.4340	7.6000e-004		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	65.4010	65.4010	2.6700e-003	0.0000	65.4677
Total	0.0130	0.2441	0.4340	7.6000e-004		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	65.4010	65.4010	2.6700e-003	0.0000	65.4677

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	6.6000e-004	0.0235	9.0100e-003	1.0000e-004	3.8600e-003	1.6000e-004	4.0300e-003	1.1300e-003	1.6000e-004	1.2800e-003	0.0000	9.9627	9.9627	2.4000e-004	1.4700e-003	10.4057
Worker	3.5600e-003	2.1300e-003	0.0347	1.2000e-004	0.0165	6.0000e-005	0.0166	4.4200e-003	5.0000e-005	4.4700e-003	0.0000	11.3202	11.3202	1.9000e-004	2.5000e-004	11.4008
Total	4.2200e-003	0.0256	0.0437	2.2000e-004	0.0204	2.2000e-004	0.0206	5.5500e-003	2.1000e-004	5.7500e-003	0.0000	21.2829	21.2829	4.3000e-004	1.7200e-003	21.8065

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

3.5 Architectural Coating (IB II) - 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	0.0359					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.4500e-003	0.0118	2.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619
Total	0.0370	7.4500e-003	0.0118	2.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619

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	1.0000e-004	6.0000e-005	9.1000e-004	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.2831	0.2831	1.0000e-005	1.0000e-005	0.2852
Total	1.0000e-004	6.0000e-005	9.1000e-004	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.2831	0.2831	1.0000e-005	1.0000e-005	0.2852

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Mitigated Construction Run - San Bernardino-South Coast 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	0.0359					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5000e-004	6.8900e-003	0.0119	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619
Total	0.0363	6.8900e-003	0.0119	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619

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	1.0000e-004	6.0000e-005	9.1000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2831	0.2831	1.0000e-005	1.0000e-005	0.2852
Total	1.0000e-004	6.0000e-005	9.1000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2831	0.2831	1.0000e-005	1.0000e-005	0.2852

Chaffey College New Fontana Campus Master Plan Project (Phase 2) Mitigated Construction Run - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating (CTE/Training) - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0742					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.4500e-003	0.0118	2.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619
Total	0.0753	7.4500e-003	0.0118	2.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619

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	5.0000e-005	8.6000e-004	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2762	0.2762	0.0000	1.0000e-005	0.2782
Total	9.0000e-005	5.0000e-005	8.6000e-004	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2762	0.2762	0.0000	1.0000e-005	0.2782

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0742					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5000e-004	6.8900e-003	0.0119	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619
Total	0.0745	6.8900e-003	0.0119	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.6596	1.6596	9.0000e-005	0.0000	1.6619

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	5.0000e-005	8.6000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2762	0.2762	0.0000	1.0000e-005	0.2782
Total	9.0000e-005	5.0000e-005	8.6000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2762	0.2762	0.0000	1.0000e-005	0.2782

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

3.7 Paving - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.6800e-003	0.0268	0.0487	9.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	7.1455	7.1455	3.8000e-004	0.0000	7.1550
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.6800e-003	0.0268	0.0487	9.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	7.1455	7.1455	3.8000e-004	0.0000	7.1550

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	2.5000e-004	1.5000e-004	2.4800e-003	1.0000e-005	1.2800e-003	0.0000	1.2900e-003	3.4000e-004	0.0000	3.4000e-004	0.0000	0.8101	0.8101	1.0000e-005	2.0000e-005	0.8158
Total	2.5000e-004	1.5000e-004	2.4800e-003	1.0000e-005	1.2800e-003	0.0000	1.2900e-003	3.4000e-004	0.0000	3.4000e-004	0.0000	0.8101	0.8101	1.0000e-005	2.0000e-005	0.8158

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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	1.0600e-003	0.0260	0.0449	9.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	7.1455	7.1455	3.8000e-004	0.0000	7.1550
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0600e-003	0.0260	0.0449	9.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	7.1455	7.1455	3.8000e-004	0.0000	7.1550

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	2.5000e-004	1.5000e-004	2.4800e-003	1.0000e-005	1.1800e-003	0.0000	1.1900e-003	3.2000e-004	0.0000	3.2000e-004	0.0000	0.8101	0.8101	1.0000e-005	2.0000e-005	0.8158
Total	2.5000e-004	1.5000e-004	2.4800e-003	1.0000e-005	1.1800e-003	0.0000	1.1900e-003	3.2000e-004	0.0000	3.2000e-004	0.0000	0.8101	0.8101	1.0000e-005	2.0000e-005	0.8158

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

3.8 Architectural Coating (SCCC) - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0464					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5000e-004	5.5700e-003	0.0117	2.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.6596	1.6596	7.0000e-005	0.0000	1.6613
Total	0.0472	5.5700e-003	0.0117	2.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.6596	1.6596	7.0000e-005	0.0000	1.6613

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	8.0000e-005	5.0000e-005	8.3000e-004	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2700	0.2700	0.0000	1.0000e-005	0.2720
Total	8.0000e-005	5.0000e-005	8.3000e-004	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2700	0.2700	0.0000	1.0000e-005	0.2720

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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					
Archit. Coating	0.0464					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5000e-004	6.8900e-003	0.0119	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.6596	1.6596	7.0000e-005	0.0000	1.6613
Total	0.0467	6.8900e-003	0.0119	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.6596	1.6596	7.0000e-005	0.0000	1.6613

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	8.0000e-005	5.0000e-005	8.3000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2700	0.2700	0.0000	1.0000e-005	0.2720
Total	8.0000e-005	5.0000e-005	8.3000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2700	0.2700	0.0000	1.0000e-005	0.2720

CalEEMod Operations Model

Chaffey College New Fontana Campus Master Plan Project Operational Run - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Chaffey College New Fontana Campus Master Plan Project Operational Run
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	4,495.00	Student	1.82	209,000.00	0
Other Asphalt Surfaces	30.00	1000sqft	0.69	30,000.00	0
Other Non-Asphalt Surfaces	263.00	1000sqft	6.04	263,000.00	0
Parking Lot	251.30	1000sqft	5.77	251,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2020 Sustainability Report

Land Use - based on info from applicant

Construction Phase -

Vehicle Trips - assumes sunday trips are equivalent to saturday trips, assumes 100% primary trips to campus

Area Coating - SCAQMD Rule 1113, based on parking area only

Water And Wastewater - Indoor water assumes 23 gal/day for students and employees. Outdoor water based on landscaped area. Based on the California Department of Water Resources Water Budget Workbook. Assumes 100% on-site treatment

Operational Off-Road Equipment - assumes use of 15 welders will be used for 4 hours per day and 234 hours total based on information from District

Fleet Mix - see fleetmix adjustment in assumptions file

Energy Mitigation -

Chaffey College New Fontana Campus Master Plan Project Operational Run - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_Parking	32658	15078
tblFleetMix	HHD	0.02	0.02
tblFleetMix	LDA	0.55	0.61
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.18	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.5970e-003	6.7840e-003
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MDV	0.13	0.04
tblFleetMix	MH	3.6860e-003	3.7900e-003
tblFleetMix	MHD	0.01	0.01
tblFleetMix	OBUS	5.3500e-004	0.00
tblFleetMix	SBUS	9.6600e-004	9.9300e-004
tblFleetMix	UBUS	2.3400e-004	0.00
tblLandUse	LandUseSquareFeet	196,216.81	209,000.00
tblLandUse	LotAcreage	4.50	1.82
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	59.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	15.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblVehicleTrips	DV_TP	7.00	0.00
tblVehicleTrips	PB_TP	1.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	SU_TR	0.04	0.42
tblWater	AerobicPercent	B-2797.46	100.00

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tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	9,624,244.50	50,370,000.00
tblWater	OutdoorWaterUseRate	15,053,305.50	2,398,423.50
tblWater	SepticTankPercent	10.33	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	0.8482	5.8000e-004	0.0640	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1251	0.1251	3.2000e-004	0.0000	0.1331
Energy	0.0154	0.1403	0.1178	8.4000e-004		0.0107	0.0107		0.0107	0.0107	0.0000	543.8489	543.8489	0.0282	5.8700e-003	546.3033
Mobile	1.7529	2.5132	17.8475	0.0402	5.1375	0.0300	5.1674	1.3719	0.0281	1.4000	0.0000	3,714.3716	3,714.3716	0.2042	0.1898	3,776.0489
Offroad	0.0363	0.2644	0.3544	5.7000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	41.6438	41.6438	2.9300e-003	0.0000	41.7170
Waste						0.0000	0.0000		0.0000	0.0000	166.5216	0.0000	166.5216	9.8412	0.0000	412.5502
Water						0.0000	0.0000		0.0000	0.0000	17.8210	157.8813	175.7023	0.0716	0.0400	189.4091
Total	2.6528	2.9185	18.3837	0.0416	5.1375	0.0445	5.1819	1.3719	0.0426	1.4145	184.3426	4,457.8706	4,642.2132	10.1483	0.2357	4,966.1616

**Chaffey College New Fontana Campus Master Plan Project Operational Run - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.8482	5.8000e-004	0.0640	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1251	0.1251	3.2000e-004	0.0000	0.1331
Energy	0.0154	0.1403	0.1178	8.4000e-004		0.0107	0.0107		0.0107	0.0107	0.0000	497.5842	497.5842	0.0252	5.5000e-003	499.8557
Mobile	1.7529	2.5132	17.8475	0.0402	5.1375	0.0300	5.1674	1.3719	0.0281	1.4000	0.0000	3,714.3716	3,714.3716	0.2042	0.1898	3,776.0489
Offroad	0.0363	0.2644	0.3544	5.7000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	41.6438	41.6438	2.9300e-003	0.0000	41.7170
Waste						0.0000	0.0000		0.0000	0.0000	166.5216	0.0000	166.5216	9.8412	0.0000	412.5502
Water						0.0000	0.0000		0.0000	0.0000	17.8210	157.8813	175.7023	0.0716	0.0400	189.4091
Total	2.6528	2.9185	18.3837	0.0416	5.1375	0.0445	5.1819	1.3719	0.0426	1.4145	184.3426	4,411.6060	4,595.9486	10.1453	0.2353	4,919.7140

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	1.00	0.03	0.16	0.94

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	1.7529	2.5132	17.8475	0.0402	5.1375	0.0300	5.1674	1.3719	0.0281	1.4000	0.0000	3,714.3716	3,714.3716	0.2042	0.1898	3,776.0489
Unmitigated	1.7529	2.5132	17.8475	0.0402	5.1375	0.0300	5.1674	1.3719	0.0281	1.4000	0.0000	3,714.3716	3,714.3716	0.2042	0.1898	3,776.0489

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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	5,169.25	1,887.90	1887.90	13,631,759	13,631,759
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	5,169.25	1,887.90	1,887.90	13,631,759	13,631,759

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.611238	0.063694	0.194952	0.037516	0.023867	0.006784	0.013112	0.017439	0.000000	0.000000	0.026617	0.000993	0.003790
Other Asphalt Surfaces	0.551473	0.057466	0.175890	0.126504	0.023210	0.006597	0.012751	0.016959	0.000535	0.000234	0.023730	0.000966	0.003686
Other Non-Asphalt Surfaces	0.551473	0.057466	0.175890	0.126504	0.023210	0.006597	0.012751	0.016959	0.000535	0.000234	0.023730	0.000966	0.003686
Parking Lot	0.551473	0.057466	0.175890	0.126504	0.023210	0.006597	0.012751	0.016959	0.000535	0.000234	0.023730	0.000966	0.003686

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	344.8992	344.8992	0.0223	2.7100e-003	346.2633
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	391.1638	391.1638	0.0253	3.0700e-003	392.7109
Natural Gas Mitigated	0.0154	0.1403	0.1178	8.4000e-004		0.0107	0.0107		0.0107	0.0107	0.0000	152.6851	152.6851	2.9300e-003	2.8000e-003	153.5924
Natural Gas Unmitigated	0.0154	0.1403	0.1178	8.4000e-004		0.0107	0.0107		0.0107	0.0107	0.0000	152.6851	152.6851	2.9300e-003	2.8000e-003	153.5924

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Junior College (2yr)	2.86121e+006	0.0154	0.1403	0.1178	8.4000e-004		0.0107	0.0107		0.0107	0.0107	0.0000	152.6851	152.6851	2.9300e-003	2.8000e-003	153.5924
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
Other Non-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
Total		0.0154	0.1403	0.1178	8.4000e-004		0.0107	0.0107		0.0107	0.0107	0.0000	152.6851	152.6851	2.9300e-003	2.8000e-003	153.5924

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Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Junior College (2yr)	2.86121e+006	0.0154	0.1403	0.1178	8.4000e-004		0.0107	0.0107		0.0107	0.0107	0.0000	152.6851	152.6851	2.9300e-003	2.8000e-003	153.5924
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
Other Non-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
Total		0.0154	0.1403	0.1178	8.4000e-004		0.0107	0.0107		0.0107	0.0107	0.0000	152.6851	152.6851	2.9300e-003	2.8000e-003	153.5924

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	1.60303e+006	370.8178	0.0240	2.9100e-003	372.2844
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	87955	20.3460	1.3200e-003	1.6000e-004	20.4265
Total		391.1638	0.0253	3.0700e-003	392.7109

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Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	1.55303e+006	359.2516	0.0233	2.8200e-003	360.6725
Other Asphalt Surfaces	-50000	-11.5662	-0.0008	-0.0001	-11.6119
Other Non-Asphalt Surfaces	-50000	-11.5662	-0.0008	-0.0001	-11.6119
Parking Lot	37955	8.7799	5.7000e-004	7.0000e-005	8.8146
Total		344.8992	0.0223	2.7100e-003	346.2633

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	0.8482	5.8000e-004	0.0640	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1251	0.1251	3.2000e-004	0.0000	0.1331
Unmitigated	0.8482	5.8000e-004	0.0640	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1251	0.1251	3.2000e-004	0.0000	0.1331

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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	0.0519					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7904					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.8500e-003	5.8000e-004	0.0640	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1251	0.1251	3.2000e-004	0.0000	0.1331
Total	0.8482	5.8000e-004	0.0640	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1251	0.1251	3.2000e-004	0.0000	0.1331

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	0.0519					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7904					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.8500e-003	5.8000e-004	0.0640	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1251	0.1251	3.2000e-004	0.0000	0.1331
Total	0.8482	5.8000e-004	0.0640	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1251	0.1251	3.2000e-004	0.0000	0.1331

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7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	175.7023	0.0716	0.0400	189.4091
Unmitigated	175.7023	0.0716	0.0400	189.4091

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	50.37 / 2.39842	175.7023	0.0716	0.0400	189.4091
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		175.7023	0.0716	0.0400	189.4091

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Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	50.37 / 2.39842	175.7023	0.0716	0.0400	189.4091
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		175.7023	0.0716	0.0400	189.4091

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	166.5216	9.8412	0.0000	412.5502
Unmitigated	166.5216	9.8412	0.0000	412.5502

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	820.34	166.5216	9.8412	0.0000	412.5502
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		166.5216	9.8412	0.0000	412.5502

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	820.34	166.5216	9.8412	0.0000	412.5502
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		166.5216	9.8412	0.0000	412.5502

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9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Welders	15	4.00	59	46	0.45	Diesel

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Welders	0.0363	0.2644	0.3544	5.7000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	41.6438	41.6438	2.9300e-003	0.0000	41.7170
Total	0.0363	0.2644	0.3544	5.7000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	41.6438	41.6438	2.9300e-003	0.0000	41.7170

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

Chaffey College New Fontana Campus Master Plan Project Operational Run
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	4,495.00	Student	1.82	209,000.00	0
Other Asphalt Surfaces	30.00	1000sqft	0.69	30,000.00	0
Other Non-Asphalt Surfaces	263.00	1000sqft	6.04	263,000.00	0
Parking Lot	251.30	1000sqft	5.77	251,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2030
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 - based on info from applicant

Construction Phase -

Vehicle Trips - assumes sunday trips are equivalent to saturday trips, assumes 100% primary trips to campus

Area Coating - SCAQMD Rule 1113, based on parking area only

Water And Wastewater - Indoor water assumes 23 gal/day for students and employees. Outdoor water based on landscaped area. Based on the California Department of Water Resources Water District Methodbook. Assumes 100% combi treatment

Operational Off-Road Equipment - assumes use of 15 welders will be used for 4 hours per day and 234 hours total based on information from District

Fleet Mix - see fleetmix adjustment in assumptions file

Energy Mitigation -

Chaffey College New Fontana Campus Master Plan Project Operational Run - San Bernardino-South Coast County, Summer
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Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_Parking	32658	15078
tblFleetMix	HHD	0.02	0.02
tblFleetMix	LDA	0.55	0.61
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.18	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.5970e-003	6.7840e-003
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MDV	0.13	0.04
tblFleetMix	MH	3.6860e-003	3.7900e-003
tblFleetMix	MHD	0.01	0.01
tblFleetMix	OBUS	5.3500e-004	0.00
tblFleetMix	SBUS	9.6600e-004	9.9300e-004
tblFleetMix	UBUS	2.3400e-004	0.00
tblLandUse	LandUseSquareFeet	196,216.81	209,000.00
tblLandUse	LotAcreage	4.50	1.82
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	59.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	15.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblVehicleTrips	DV_TP	7.00	0.00
tblVehicleTrips	PB_TP	1.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	SU_TR	0.04	0.42
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	9,624,244.50	50,370,000.00

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tblWater	OutdoorWaterUseRate	15,053,305.50	2,398,423.50
tblWater	SepticTankPercent	10.33	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	4.6624	4.6100e-003	0.5119	4.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		1.1029	1.1029	2.8400e-003		1.1740
Energy	0.0845	0.7685	0.6456	4.6100e-003		0.0584	0.0584		0.0584	0.0584		922.2272	922.2272	0.0177	0.0169	927.7076
Mobile	13.6140	15.5699	127.2321	0.2869	35.1444	0.2012	35.3456	9.3708	0.1885	9.5593		29,240.1486	29,240.1486	1.4597	1.3542	29,680.1773
Offroad	1.2294	8.9619	12.0122	0.0192		0.1232	0.1232		0.1232	0.1232	0.0000	1,556.0830	1,556.0830	0.1095		1,558.8211
Total	19.5903	25.3050	140.4018	0.3107	35.1444	0.3846	35.5290	9.3708	0.3719	9.7427	0.0000	31,719.5617	31,719.5617	1.5897	1.3711	32,167.8800

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	4.6624	4.6100e-003	0.5119	4.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		1.1029	1.1029	2.8400e-003		1.1740
Energy	0.0845	0.7685	0.6456	4.6100e-003		0.0584	0.0584		0.0584	0.0584		922.2272	922.2272	0.0177	0.0169	927.7076
Mobile	13.6140	15.5699	127.2321	0.2869	35.1444	0.2012	35.3456	9.3708	0.1885	9.5593		29,240.1486	29,240.1486	1.4597	1.3542	29,680.1773
Offroad	1.2294	8.9619	12.0122	0.0192		0.1232	0.1232		0.1232	0.1232	0.0000	1,556.0830	1,556.0830	0.1095		1,558.8211
Total	19.5903	25.3050	140.4018	0.3107	35.1444	0.3846	35.5290	9.3708	0.3719	9.7427	0.0000	31,719.5617	31,719.5617	1.5897	1.3711	32,167.8800

Chaffey College New Fontana Campus Master Plan Project Operational Run - San Bernardino-South Coast 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
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	13.6140	15.5699	127.2321	0.2869	35.1444	0.2012	35.3456	9.3708	0.1885	9.5593		29,240.148	29,240.148	1.4597	1.3542	29,680.177
Unmitigated	13.6140	15.5699	127.2321	0.2869	35.1444	0.2012	35.3456	9.3708	0.1885	9.5593		29,240.148	29,240.148	1.4597	1.3542	29,680.177

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	5,169.25	1,887.90	1,887.90	13,631,759	13,631,759
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	5,169.25	1,887.90	1,887.90	13,631,759	13,631,759

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.611238	0.063694	0.194952	0.037516	0.023867	0.006784	0.013112	0.017439	0.000000	0.000000	0.026617	0.000993	0.003790
Other Asphalt Surfaces	0.551473	0.057466	0.175890	0.126504	0.023210	0.006597	0.012751	0.016959	0.000535	0.000234	0.023730	0.000966	0.003686
Other Non-Asphalt Surfaces	0.551473	0.057466	0.175890	0.126504	0.023210	0.006597	0.012751	0.016959	0.000535	0.000234	0.023730	0.000966	0.003686
Parking Lot	0.551473	0.057466	0.175890	0.126504	0.023210	0.006597	0.012751	0.016959	0.000535	0.000234	0.023730	0.000966	0.003686

Chaffey College New Fontana Campus Master Plan Project Operational Run - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0845	0.7685	0.6456	4.6100e-003		0.0584	0.0584		0.0584	0.0584		922.2272	922.2272	0.0177	0.0169	927.7076
NaturalGas Unmitigated	0.0845	0.7685	0.6456	4.6100e-003		0.0584	0.0584		0.0584	0.0584		922.2272	922.2272	0.0177	0.0169	927.7076

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					
Junior College (2yr)	7838.93	0.0845	0.7685	0.6456	4.6100e-003		0.0584	0.0584		0.0584	0.0584		922.2272	922.2272	0.0177	0.0169	927.7076
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0845	0.7685	0.6456	4.6100e-003		0.0584	0.0584		0.0584	0.0584		922.2272	922.2272	0.0177	0.0169	927.7076

**Chaffey College New Fontana Campus Master Plan Project Operational Run - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Junior College (2yr)	7.83893	0.0845	0.7685	0.6456	4.6100e-003		0.0584	0.0584		0.0584	0.0584		922.2272	922.2272	0.0177	0.0169	927.7076
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0845	0.7685	0.6456	4.6100e-003		0.0584	0.0584		0.0584	0.0584		922.2272	922.2272	0.0177	0.0169	927.7076

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	4.6624	4.6100e-003	0.5119	4.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		1.1029	1.1029	2.8400e-003		1.1740
Unmitigated	4.6624	4.6100e-003	0.5119	4.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		1.1029	1.1029	2.8400e-003		1.1740

Chaffey College New Fontana Campus Master Plan Project Operational Run - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.2846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0468	4.6100e-003	0.5119	4.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		1.1029	1.1029	2.8400e-003		1.1740
Total	4.6624	4.6100e-003	0.5119	4.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		1.1029	1.1029	2.8400e-003		1.1740

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0468	4.6100e-003	0.5119	4.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		1.1029	1.1029	2.8400e-003		1.1740
Total	4.6624	4.6100e-003	0.5119	4.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		1.1029	1.1029	2.8400e-003		1.1740

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Chaffey College New Fontana Campus Master Plan Project Operational Run - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Welders	15	4.00	59	46	0.45	Diesel

UnMitigated/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
Equipment Type	lb/day										lb/day					
Welders	1.2294	8.9619	12.0122	0.0192		0.1232	0.1232		0.1232	0.1232	0.0000	1,556.0830	1,556.0830	0.1095		1,558.8211
Total	1.2294	8.9619	12.0122	0.0192		0.1232	0.1232		0.1232	0.1232	0.0000	1,556.0830	1,556.0830	0.1095		1,558.8211

Chaffey College New Fontana Campus Master Plan Project Operational Run - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Chaffey College New Fontana Campus Master Plan Project Operational Run
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	4,495.00	Student	1.82	209,000.00	0
Other Asphalt Surfaces	30.00	1000sqft	0.69	30,000.00	0
Other Non-Asphalt Surfaces	263.00	1000sqft	6.04	263,000.00	0
Parking Lot	251.30	1000sqft	5.77	251,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2030
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 - based on info from applicant

Construction Phase -

Vehicle Trips - assumes sunday trips are equivalent to saturday trips, assumes 100% primary trips to campus

Area Coating - SCAQMD Rule 1113, based on parking area only

Water And Wastewater - Indoor water assumes 23 gal/day for students and employees. Outdoor water based on landscaped area. Based on the California Department of Water Resources Water District Methodbook. Assumes 100% permeable treatment

Operational Off-Road Equipment - assumes use of 15 welders will be used for 4 hours per day and 234 hours total based on information from District

Fleet Mix - see fleetmix adjustment in assumptions file

Energy Mitigation -

Chaffey College New Fontana Campus Master Plan Project Operational Run - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_Parking	32658	15078
tblFleetMix	HHD	0.02	0.02
tblFleetMix	LDA	0.55	0.61
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.18	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.5970e-003	6.7840e-003
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MDV	0.13	0.04
tblFleetMix	MH	3.6860e-003	3.7900e-003
tblFleetMix	MHD	0.01	0.01
tblFleetMix	OBUS	5.3500e-004	0.00
tblFleetMix	SBUS	9.6600e-004	9.9300e-004
tblFleetMix	UBUS	2.3400e-004	0.00
tblLandUse	LandUseSquareFeet	196,216.81	209,000.00
tblLandUse	LotAcreage	4.50	1.82
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	59.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	15.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblVehicleTrips	DV_TP	7.00	0.00
tblVehicleTrips	PB_TP	1.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	SU_TR	0.04	0.42
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	9,624,244.50 B-300	50,370,000.00

Chaffey College New Fontana Campus Master Plan Project Operational Run - San Bernardino-South Coast County, Winter

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

tblWater	OutdoorWaterUseRate	15,053,305.50	2,398,423.50
tblWater	SepticTankPercent	10.33	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	4.6624	4.6100e-003	0.5119	4.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		1.1029	1.1029	2.8400e-003		1.1740
Energy	0.0845	0.7685	0.6456	4.6100e-003		0.0584	0.0584		0.0584	0.0584		922.2272	922.2272	0.0177	0.0169	927.7076
Mobile	11.8509	16.6021	115.1336	0.2658	35.1444	0.2013	35.3458	9.3708	0.1886	9.5594		27,105.1701	27,105.1701	1.4949	1.3878	27,556.1129
Offroad	1.2294	8.9619	12.0122	0.0192		0.1232	0.1232		0.1232	0.1232	0.0000	1,556.0830	1,556.0830	0.1095		1,558.8211
Total	17.8273	26.3372	128.3033	0.2896	35.1444	0.3848	35.5292	9.3708	0.3721	9.7429	0.0000	29,584.5832	29,584.5832	1.6249	1.4047	30,043.8156

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	4.6624	4.6100e-003	0.5119	4.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		1.1029	1.1029	2.8400e-003		1.1740
Energy	0.0845	0.7685	0.6456	4.6100e-003		0.0584	0.0584		0.0584	0.0584		922.2272	922.2272	0.0177	0.0169	927.7076
Mobile	11.8509	16.6021	115.1336	0.2658	35.1444	0.2013	35.3458	9.3708	0.1886	9.5594		27,105.1701	27,105.1701	1.4949	1.3878	27,556.1129
Offroad	1.2294	8.9619	12.0122	0.0192		0.1232	0.1232		0.1232	0.1232	0.0000	1,556.0830	1,556.0830	0.1095		1,558.8211
Total	17.8273	26.3372	128.3033	0.2896	35.1444	0.3848	35.5292	9.3708	0.3721	9.7429	0.0000	29,584.5832	29,584.5832	1.6249	1.4047	30,043.8156

Chaffey College New Fontana Campus Master Plan Project Operational Run - San Bernardino-South Coast 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
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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated	11.8509	16.6021	115.1336	0.2658	35.1444	0.2013	35.3458	9.3708	0.1886	9.5594	27,105.170	27,105.170	1.4949	1.3878	27,556.112	
Unmitigated	11.8509	16.6021	115.1336	0.2658	35.1444	0.2013	35.3458	9.3708	0.1886	9.5594	27,105.170	27,105.170	1.4949	1.3878	27,556.112	

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Junior College (2yr)	5,169.25	1,887.90	1,887.90	13,631,759	13,631,759
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	5,169.25	1,887.90	1,887.90	13,631,759	13,631,759

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.611238	0.063694	0.194952	0.037516	0.023867	0.006784	0.013112	0.017439	0.000000	0.000000	0.026617	0.000993	0.003790
Other Asphalt Surfaces	0.551473	0.057466	0.175890	0.126504	0.023210	0.006597	0.012751	0.016959	0.000535	0.000234	0.023730	0.000966	0.003686
Other Non-Asphalt Surfaces	0.551473	0.057466	0.175890	0.126504	0.023210	0.006597	0.012751	0.016959	0.000535	0.000234	0.023730	0.000966	0.003686
Parking Lot	0.551473	0.057466	0.175890	0.126504	0.023210	0.006597	0.012751	0.016959	0.000535	0.000234	0.023730	0.000966	0.003686

Chaffey College New Fontana Campus Master Plan Project Operational Run - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0845	0.7685	0.6456	4.6100e-003		0.0584	0.0584		0.0584	0.0584		922.2272	922.2272	0.0177	0.0169	927.7076
NaturalGas Unmitigated	0.0845	0.7685	0.6456	4.6100e-003		0.0584	0.0584		0.0584	0.0584		922.2272	922.2272	0.0177	0.0169	927.7076

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					
Junior College (2yr)	7838.93	0.0845	0.7685	0.6456	4.6100e-003		0.0584	0.0584		0.0584	0.0584		922.2272	922.2272	0.0177	0.0169	927.7076
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0845	0.7685	0.6456	4.6100e-003		0.0584	0.0584		0.0584	0.0584		922.2272	922.2272	0.0177	0.0169	927.7076

**Chaffey College New Fontana Campus Master Plan Project Operational Run - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Junior College (2yr)	7.83893	0.0845	0.7685	0.6456	4.6100e-003		0.0584	0.0584		0.0584	0.0584		922.2272	922.2272	0.0177	0.0169	927.7076
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0845	0.7685	0.6456	4.6100e-003		0.0584	0.0584		0.0584	0.0584		922.2272	922.2272	0.0177	0.0169	927.7076

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	4.6624	4.6100e-003	0.5119	4.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		1.1029	1.1029	2.8400e-003		1.1740
Unmitigated	4.6624	4.6100e-003	0.5119	4.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		1.1029	1.1029	2.8400e-003		1.1740

Chaffey College New Fontana Campus Master Plan Project Operational Run - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.2846					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Consumer Products	4.3310					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Landscaping	0.0468	4.6100e-003	0.5119	4.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		1.1029	1.1029	2.8400e-003			1.1740
Total	4.6624	4.6100e-003	0.5119	4.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		1.1029	1.1029	2.8400e-003			1.1740

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	0.2846					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Consumer Products	4.3310					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Landscaping	0.0468	4.6100e-003	0.5119	4.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		1.1029	1.1029	2.8400e-003			1.1740
Total	4.6624	4.6100e-003	0.5119	4.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003		1.1029	1.1029	2.8400e-003			1.1740

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Chaffey College New Fontana Campus Master Plan Project Operational Run - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Welders	15	4.00	59	46	0.45	Diesel

UnMitigated/Mitigated

Equipment Type	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Welders	1.2294	8.9619	12.0122	0.0192		0.1232	0.1232		0.1232	0.1232	0.0000	1,556.0830	1,556.0830	0.1095		1,558.8211
Total	1.2294	8.9619	12.0122	0.0192		0.1232	0.1232		0.1232	0.1232	0.0000	1,556.0830	1,556.0830	0.1095		1,558.8211

CalEEMod Existing Conditions Model

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Annual

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

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021)

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	3,641.00	Student	1.29	56,000.00	0
Other Non-Asphalt Surfaces	76.30	1000sqft	1.75	76,300.00	0
Parking Lot	216.18	1000sqft	4.96	216,180.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
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 - based on data from applicant

Construction Phase -

Vehicle Trips - assumes sunday has an equivalent number of trips as saturday, assumes 100% primary trips to the campus

Area Coating - based on parking area only

Energy Use -

Water And Wastewater - Assumes 808 employees and 3,641 students will be consuming 23 gallons of water per day over 365 days. Outdoor water based on

Fleet Mix - see fleet mix adjustment in assumptions file

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Annual

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	17549	12971
tblFleetMix	HHD	0.02	0.02
tblFleetMix	LDA	0.53	0.61
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.20
tblFleetMix	LHD1	0.03	0.03
tblFleetMix	LHD2	7.3610e-003	6.8010e-003
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MDV	0.14	0.04
tblFleetMix	MH	5.6010e-003	5.1750e-003
tblFleetMix	MHD	0.01	0.01
tblFleetMix	OBUS	5.8000e-004	0.00
tblFleetMix	SBUS	9.5500e-004	8.8200e-004
tblFleetMix	UBUS	2.6000e-004	0.00
tblLandUse	LandUseSquareFeet	158,937.80	56,000.00
tblLandUse	LotAcreage	3.65	1.29
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblVehicleTrips	DV_TP	7.00	0.00
tblVehicleTrips	PB_TP	1.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	SU_TR	0.04	0.42
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	7,795,745.10	37,349,355.00
tblWater	OutdoorWaterUseRate	12,193,344.90	554,545.00
tblWater	SepticTankPercent	10.33	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.2549	4.6000e-004	0.0504	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0976	0.0976	2.6000e-004	0.0000	0.1041
Energy	5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	216.1790	216.1790	0.0117	2.2200e-003	217.1336
Mobile	2.1171	3.5315	21.5596	0.0414	4.1586	0.0481	4.2067	1.1102	0.0452	1.1554	0.0000	3,829.0110	3,829.0110	0.2463	0.2051	3,896.2804
Waste						0.0000	0.0000		0.0000	0.0000	134.8834	0.0000	134.8834	7.9714	0.0000	334.1680
Water						0.0000	0.0000		0.0000	0.0000	13.2143	113.9236	127.1378	0.0529	0.0296	137.2890
Total	2.3771	3.5780	21.6487	0.0417	4.1586	0.0518	4.2103	1.1102	0.0489	1.1591	148.0977	4,159.2111	4,307.3088	8.2825	0.2369	4,584.9751

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2549	4.6000e-004	0.0504	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0976	0.0976	2.6000e-004	0.0000	0.1041
Energy	5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	216.1790	216.1790	0.0117	2.2200e-003	217.1336
Mobile	2.1171	3.5315	21.5596	0.0414	4.1586	0.0481	4.2067	1.1102	0.0452	1.1554	0.0000	3,829.0110	3,829.0110	0.2463	0.2051	3,896.2804
Waste						0.0000	0.0000		0.0000	0.0000	134.8834	0.0000	134.8834	7.9714	0.0000	334.1680
Water						0.0000	0.0000		0.0000	0.0000	13.2143	113.9236	127.1378	0.0529	0.0296	137.2890
Total	2.3771	3.5780	21.6487	0.0417	4.1586	0.0518	4.2103	1.1102	0.0489	1.1591	148.0977	4,159.2111	4,307.3088	8.2825	0.2369	4,584.9751

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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
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	tons/yr										MT/yr					
Mitigated	2.1171	3.5315	21.5596	0.0414	4.1586	0.0481	4.2067	1.1102	0.0452	1.1554	0.0000	3,829.0110	3,829.0110	0.2463	0.2051	3,896.2804
Unmitigated	2.1171	3.5315	21.5596	0.0414	4.1586	0.0481	4.2067	1.1102	0.0452	1.1554	0.0000	3,829.0110	3,829.0110	0.2463	0.2051	3,896.2804

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	4,187.15	1,529.22	1529.22	11,041,877	11,041,877
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	4,187.15	1,529.22	1,529.22	11,041,877	11,041,877

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	100	0	0
Other Non-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

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Annual

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.606892	0.063350	0.196487	0.037516	0.026309	0.006801	0.010841	0.015977	0.000000	0.000000	0.029771	0.000882	0.005175
Other Non-Asphalt Surfaces	0.530515	0.055377	0.171759	0.144367	0.028476	0.007361	0.011734	0.017293	0.000580	0.000260	0.025722	0.000955	0.005601

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	166.0341	166.0341	0.0107	1.3000e-003	166.6907
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	166.0341	166.0341	0.0107	1.3000e-003	166.6907
Natural Gas Mitigated	5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.1449	50.1449	9.6000e-004	9.2000e-004	50.4429
Natural Gas Unmitigated	5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.1449	50.1449	9.6000e-004	9.2000e-004	50.4429

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Junior College (2yr)	939680	5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.1449	50.1449	9.6000e-004	9.2000e-004	50.4429
Other Non-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
Total		5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.1449	50.1449	9.6000e-004	9.2000e-004	50.4429

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

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Junior College (2yr)	939680	5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.1449	50.1449	9.6000e-004	9.2000e-004	50.4429
Other Non-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
Total		5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.1449	50.1449	9.6000e-004	9.2000e-004	50.4429

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	527520	122.0275	7.9000e-003	9.6000e-004	122.5102
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	190238	44.0065	2.8500e-003	3.5000e-004	44.1806
Total		166.0341	0.0108	1.3100e-003	166.6907

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	527520	122.0275	7.9000e-003	9.6000e-004	122.5102
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	190238	44.0065	2.8500e-003	3.5000e-004	44.1806
Total		166.0341	0.0108	1.3100e-003	166.6907

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.2549	4.6000e-004	0.0504	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0976	0.0976	2.6000e-004	0.0000	0.1041
Unmitigated	0.2549	4.6000e-004	0.0504	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0976	0.0976	2.6000e-004	0.0000	0.1041

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	0.0290					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2213					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.7100e-003	4.6000e-004	0.0504	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0976	0.0976	2.6000e-004	0.0000	0.1041
Total	0.2549	4.6000e-004	0.0504	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0976	0.0976	2.6000e-004	0.0000	0.1041

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	0.0290					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2213					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.7100e-003	4.6000e-004	0.0504	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0976	0.0976	2.6000e-004	0.0000	0.1041
Total	0.2549	4.6000e-004	0.0504	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0976	0.0976	2.6000e-004	0.0000	0.1041

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Annual

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

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	127.1378	0.0529	0.0296	137.2890
Unmitigated	127.1378	0.0529	0.0296	137.2890

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	37.3494 / 0.554545	127.1378	0.0529	0.0296	137.2890
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		127.1378	0.0529	0.0296	137.2890

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	37.3494 / 0.554545	127.1378	0.0529	0.0296	137.2890
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		127.1378	0.0529	0.0296	137.2890

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Annual

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	134.8834	7.9714	0.0000	334.1680
Unmitigated	134.8834	7.9714	0.0000	334.1680

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	664.48	134.8834	7.9714	0.0000	334.1680
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		134.8834	7.9714	0.0000	334.1680

**Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	664.48	134.8834	7.9714	0.0000	334.1680
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		134.8834	7.9714	0.0000	334.1680

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Summer

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

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021)

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	3,641.00	Student	1.29	56,000.00	0
Other Non-Asphalt Surfaces	76.30	1000sqft	1.75	76,300.00	0
Parking Lot	216.18	1000sqft	4.96	216,180.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10	Operational Year	2021		
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 - based on data from applicant

Construction Phase -

Vehicle Trips - assumes sunday has an equivalent number of trips as saturday, assumes 100% primary trips to the campus

Area Coating - based on parking area only

Energy Use -

Water And Wastewater - Assumes 808 employees and 3,641 students will be consuming 23 gallons of water per day over 365 days. Outdoor water based on landscaped

Fleet Mix - see fleet mix adjustment in assumptions file

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	17549	12971
tblFleetMix	HHD	0.02	0.02

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Summer

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

tblFleetMix	LDA	0.53	0.61
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.20
tblFleetMix	LHD1	0.03	0.03
tblFleetMix	LHD2	7.3610e-003	6.8010e-003
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MDV	0.14	0.04
tblFleetMix	MH	5.6010e-003	5.1750e-003
tblFleetMix	MHD	0.01	0.01
tblFleetMix	OBUS	5.8000e-004	0.00
tblFleetMix	SBUS	9.5500e-004	8.8200e-004
tblFleetMix	UBUS	2.6000e-004	0.00
tblLandUse	LandUseSquareFeet	158,937.80	56,000.00
tblLandUse	LotAcreage	3.65	1.29
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblVehicleTrips	DV_TP	7.00	0.00
tblVehicleTrips	PB_TP	1.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	SU_TR	0.04	0.42
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	7,795,745.10	37,349,355.00
tblWater	OutdoorWaterUseRate	12,193,344.90	554,545.00
tblWater	SepticTankPercent	10.33	0.00

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast 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

2.2 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	1.4088	3.7000e-003	0.4032	3.0000e-005		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		0.8609	0.8609	2.2900e-003		0.9180
Energy	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782
Mobile	16.3933	21.8804	155.7962	0.2968	28.4485	0.3229	28.7714	7.5832	0.3038	7.8870		30,213.4168	30,213.4168	1.7558	1.4548	30,690.8384
Total	17.8298	22.1365	156.4114	0.2983	28.4485	0.3435	28.7921	7.5832	0.3244	7.9076		30,517.1560	30,517.1560	1.7639	1.4603	30,996.4346

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	1.4088	3.7000e-003	0.4032	3.0000e-005		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		0.8609	0.8609	2.2900e-003		0.9180
Energy	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782
Mobile	16.3933	21.8804	155.7962	0.2968	28.4485	0.3229	28.7714	7.5832	0.3038	7.8870		30,213.4168	30,213.4168	1.7558	1.4548	30,690.8384
Total	17.8298	22.1365	156.4114	0.2983	28.4485	0.3435	28.7921	7.5832	0.3244	7.9076		30,517.1560	30,517.1560	1.7639	1.4603	30,996.4346

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

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	16.3933	21.8804	155.7962	0.2968	28.4485	0.3229	28.7714	7.5832	0.3038	7.8870		30,213.416	30,213.416	1.7558	1.4548	30,690.838
Unmitigated	16.3933	21.8804	155.7962	0.2968	28.4485	0.3229	28.7714	7.5832	0.3038	7.8870		30,213.416	30,213.416	1.7558	1.4548	30,690.838

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	4,187.15	1,529.22	1,529.22	11,041,877	11,041,877
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	4,187.15	1,529.22	1,529.22	11,041,877	11,041,877

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	100	0	0
Other Non-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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.606892	0.063350	0.196487	0.037516	0.026309	0.006801	0.010841	0.015977	0.000000	0.000000	0.029771	0.000882	0.005175
Other Non-Asphalt Surfaces	0.530515	0.055377	0.171759	0.144367	0.028476	0.007361	0.011734	0.017293	0.000580	0.000260	0.025722	0.000955	0.005601
Parking Lot	0.530515	0.055377	0.171759	0.144367	0.028476	0.007361	0.011734	0.017293	0.000580	0.000260	0.025722	0.000955	0.005601

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782
NaturalGas Unmitigated	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782

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					
Junior College (2yr)	2574.47	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782

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					
Junior College (2yr)	2.57447	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	lb/day										lb/day					
Mitigated	1.4088	3.7000e-003	0.4032	3.0000e-005		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		0.8609	0.8609	2.2900e-003		0.9180
Unmitigated	1.4088	3.7000e-003	0.4032	3.0000e-005		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		0.8609	0.8609	2.2900e-003		0.9180

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0377	3.7000e-003	0.4032	3.0000e-005		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		0.8609	0.8609	2.2900e-003		0.9180
Total	1.4088	3.7000e-003	0.4032	3.0000e-005		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		0.8609	0.8609	2.2900e-003		0.9180

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0377	3.7000e-003	0.4032	3.0000e-005		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		0.8609	0.8609	2.2900e-003		0.9180
Total	1.4088	3.7000e-003	0.4032	3.0000e-005		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		0.8609	0.8609	2.2900e-003		0.9180

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Winter

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

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021)

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	3,641.00	Student	1.29	56,000.00	0
Other Non-Asphalt Surfaces	76.30	1000sqft	1.75	76,300.00	0
Parking Lot	216.18	1000sqft	4.96	216,180.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
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 - based on data from applicant

Construction Phase -

Vehicle Trips - assumes sunday has an equivalent number of trips as saturday, assumes 100% primary trips to the campus

Area Coating - based on parking area only

Energy Use -

Water And Wastewater - Assumes 808 employees and 3,641 students will be consuming 23 gallons of water per day over 365 days. Outdoor water based on landscaped

Fleet Mix - see fleet mix adjustment in assumptions file

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	17549	12971
tblFleetMix	HHD	0.02	0.02

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Winter

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

tblFleetMix	LDA	0.53	0.61
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.20
tblFleetMix	LHD1	0.03	0.03
tblFleetMix	LHD2	7.3610e-003	6.8010e-003
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MDV	0.14	0.04
tblFleetMix	MH	5.6010e-003	5.1750e-003
tblFleetMix	MHD	0.01	0.01
tblFleetMix	OBUS	5.8000e-004	0.00
tblFleetMix	SBUS	9.5500e-004	8.8200e-004
tblFleetMix	UBUS	2.6000e-004	0.00
tblLandUse	LandUseSquareFeet	158,937.80	56,000.00
tblLandUse	LotAcreage	3.65	1.29
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblVehicleTrips	DV_TP	7.00	0.00
tblVehicleTrips	PB_TP	1.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	SU_TR	0.04	0.42
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	7,795,745.10	37,349,355.00
tblWater	OutdoorWaterUseRate	12,193,344.90	554,545.00
tblWater	SepticTankPercent	10.33	0.00

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast 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

2.2 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	1.4088	3.7000e-003	0.4032	3.0000e-005		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		0.8609	0.8609	2.2900e-003		0.9180
Energy	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782
Mobile	14.3392	23.1785	138.7252	0.2741	28.4485	0.3232	28.7717	7.5832	0.3041	7.8872		27,921.5522	27,921.5522	1.8005	1.4942	28,411.8218
Total	15.7758	23.4346	139.3404	0.2756	28.4485	0.3438	28.7923	7.5832	0.3247	7.9079		28,225.2914	28,225.2914	1.8086	1.4997	28,717.4180

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	1.4088	3.7000e-003	0.4032	3.0000e-005		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		0.8609	0.8609	2.2900e-003		0.9180
Energy	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782
Mobile	14.3392	23.1785	138.7252	0.2741	28.4485	0.3232	28.7717	7.5832	0.3041	7.8872		27,921.5522	27,921.5522	1.8005	1.4942	28,411.8218
Total	15.7758	23.4346	139.3404	0.2756	28.4485	0.3438	28.7923	7.5832	0.3247	7.9079		28,225.2914	28,225.2914	1.8086	1.4997	28,717.4180

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

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day											lb/day					
Mitigated	14.3392	23.1785	138.7252	0.2741	28.4485	0.3232	28.7717	7.5832	0.3041	7.8872		27,921.552	27,921.552	1.8005	1.4942	28,411.821
Unmitigated	14.3392	23.1785	138.7252	0.2741	28.4485	0.3232	28.7717	7.5832	0.3041	7.8872		27,921.552	27,921.552	1.8005	1.4942	28,411.821

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	4,187.15	1,529.22	1529.22	11,041,877	11,041,877
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	4,187.15	1,529.22	1,529.22	11,041,877	11,041,877

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	100	0	0
Other Non-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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.606892	0.063350	0.196487	0.037516	0.026309	0.006801	0.010841	0.015977	0.000000	0.000000	0.029771	0.000882	0.005175
Other Non-Asphalt Surfaces	0.530515	0.055377	0.171759	0.144367	0.028476	0.007361	0.011734	0.017293	0.000580	0.000260	0.025722	0.000955	0.005601
Parking Lot	0.530515	0.055377	0.171759	0.144367	0.028476	0.007361	0.011734	0.017293	0.000580	0.000260	0.025722	0.000955	0.005601

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782
NaturalGas Unmitigated	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782

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					
Junior College (2yr)	2574.47	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782

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					
Junior College (2yr)	2.57447	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	lb/day										lb/day					
Mitigated	1.4088	3.7000e-003	0.4032	3.0000e-005		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		0.8609	0.8609	2.2900e-003		0.9180
Unmitigated	1.4088	3.7000e-003	0.4032	3.0000e-005		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		0.8609	0.8609	2.2900e-003		0.9180

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0377	3.7000e-003	0.4032	3.0000e-005		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		0.8609	0.8609	2.2900e-003		0.9180
Total	1.4088	3.7000e-003	0.4032	3.0000e-005		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		0.8609	0.8609	2.2900e-003		0.9180

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0377	3.7000e-003	0.4032	3.0000e-005		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		0.8609	0.8609	2.2900e-003		0.9180
Total	1.4088	3.7000e-003	0.4032	3.0000e-005		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		0.8609	0.8609	2.2900e-003		0.9180

Chaffey College New Fontana Campus Master Plan Project Existing Conditions (2021) - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Chaffey College New Fontana Campus Master Plan Project Existing Conditions at Buildout (2030) - San Bernardino-South Coast County, Annual

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

**Chaffey College New Fontana Campus Master Plan Project Existing Conditions at Buildout (2030)
San Bernardino-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	3,641.00	Student	1.29	56,000.00	0
Other Non-Asphalt Surfaces	76.30	1000sqft	1.75	76,300.00	0
Parking Lot	216.18	1000sqft	4.96	216,180.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2020 SCE Sustainability Report

Land Use - based on data from applicant

Construction Phase -

Vehicle Trips - assumes sunday has an equivalent number of trips as saturday, assumes 100% primary trips to the campus

Area Coating - based on parking area only

Energy Use -

Water And Wastewater - Assumes 808 employees and 3,641 students will be consuming 23 gallons of water per day over 365 days. Outdoor water based on

Fleet Mix - see fleet mix adjustment in assumptions file

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	17549	12971
tblFleetMix	HHD	0.02	0.02
tblFleetMix	LDA	0.55	0.61
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.18	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.5970e-003	6.7840e-003
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MDV	0.13	0.04
tblFleetMix	MH	3.6860e-003	3.7900e-003
tblFleetMix	MHD	0.01	0.01
tblFleetMix	OBUS	5.3500e-004	0.00
tblFleetMix	SBUS	9.6600e-004	9.9300e-004
tblFleetMix	UBUS	2.3400e-004	0.00
tblLandUse	LandUseSquareFeet	158,937.80	56,000.00
tblLandUse	LotAcreage	3.65	1.29
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblVehicleTrips	DV_TP	7.00	0.00
tblVehicleTrips	PB_TP	1.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	SU_TR	0.04	0.42
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	7,795,745.10	37,349,355.00
tblWater	OutdoorWaterUseRate	12,193,344.90	554,545.00
tblWater	SepticTankPercent	10.33	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.2548	4.5000e-004	0.0500	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0976	0.0976	2.5000e-004	0.0000	0.1039
Energy	5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	216.1790	216.1790	0.0117	2.2200e-003	217.1336
Mobile	1.4198	2.0358	14.4567	0.0325	4.1614	0.0243	4.1857	1.1113	0.0227	1.1340	0.0000	3,008.6823	3,008.6823	0.1654	0.1538	3,058.6416
Waste						0.0000	0.0000		0.0000	0.0000	134.8834	0.0000	134.8834	7.9714	0.0000	334.1680
Water						0.0000	0.0000		0.0000	0.0000	13.2143	113.9236	127.1378	0.0529	0.0296	137.2890
Total	1.6797	2.0823	14.5453	0.0328	4.1614	0.0279	4.1893	1.1113	0.0264	1.1377	148.0977	3,338.8825	3,486.9802	8.2015	0.1856	3,747.3361

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2548	4.5000e-004	0.0500	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0976	0.0976	2.5000e-004	0.0000	0.1039
Energy	5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	216.1790	216.1790	0.0117	2.2200e-003	217.1336
Mobile	1.4198	2.0358	14.4567	0.0325	4.1614	0.0243	4.1857	1.1113	0.0227	1.1340	0.0000	3,008.6823	3,008.6823	0.1654	0.1538	3,058.6416
Waste						0.0000	0.0000		0.0000	0.0000	134.8834	0.0000	134.8834	7.9714	0.0000	334.1680
Water						0.0000	0.0000		0.0000	0.0000	13.2143	113.9236	127.1378	0.0529	0.0296	137.2890
Total	1.6797	2.0823	14.5453	0.0328	4.1614	0.0279	4.1893	1.1113	0.0264	1.1377	148.0977	3,338.8825	3,486.9802	8.2015	0.1856	3,747.3361

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

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	1.4198	2.0358	14.4567	0.0325	4.1614	0.0243	4.1857	1.1113	0.0227	1.1340	0.0000	3,008.6823	3,008.6823	0.1654	0.1538	3,058.6416
Unmitigated	1.4198	2.0358	14.4567	0.0325	4.1614	0.0243	4.1857	1.1113	0.0227	1.1340	0.0000	3,008.6823	3,008.6823	0.1654	0.1538	3,058.6416

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	4,187.15	1,529.22	1529.22	11,041,877	11,041,877
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	4,187.15	1,529.22	1,529.22	11,041,877	11,041,877

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	100	0	0
Other Non-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

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.611238	0.063694	0.194952	0.037516	0.023867	0.006784	0.013112	0.017439	0.000000	0.000000	0.026617	0.000993	0.003790
Other Non-Asphalt Surfaces	0.551473	0.057466	0.175890	0.126504	0.023210	0.006597	0.012751	0.016959	0.000535	0.000234	0.023730	0.000966	0.003686
Parking Lot	0.551473	0.057466	0.175890	0.126504	0.023210	0.006597	0.012751	0.016959	0.000535	0.000234	0.023730	0.000966	0.003686

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	166.0341	166.0341	0.0107	1.3000e-003	166.6907
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	166.0341	166.0341	0.0107	1.3000e-003	166.6907
NaturalGas Mitigated	5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.1449	50.1449	9.6000e-004	9.2000e-004	50.4429
NaturalGas Unmitigated	5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.1449	50.1449	9.6000e-004	9.2000e-004	50.4429

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					
Junior College (2yr)	939680	5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.1449	50.1449	9.6000e-004	9.2000e-004	50.4429
Other Non-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
Total		5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.1449	50.1449	9.6000e-004	9.2000e-004	50.4429

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

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Junior College (2yr)	939680	5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.1449	50.1449	9.6000e-004	9.2000e-004	50.4429
Other Non-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
Total		5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.1449	50.1449	9.6000e-004	9.2000e-004	50.4429

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	527520	122.0275	7.9000e-003	9.6000e-004	122.5102
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	190238	44.0065	2.8500e-003	3.5000e-004	44.1806
Total		166.0341	0.0108	1.3100e-003	166.6907

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

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	527520	122.0275	7.9000e-003	9.6000e-004	122.5102
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	190238	44.0065	2.8500e-003	3.5000e-004	44.1806
Total		166.0341	0.0108	1.3100e-003	166.6907

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	0.2548	4.5000e-004	0.0500	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0976	0.0976	2.5000e-004	0.0000	0.1039
Unmitigated	0.2548	4.5000e-004	0.0500	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0976	0.0976	2.5000e-004	0.0000	0.1039

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	0.0290					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2213					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.5700e-003	4.5000e-004	0.0500	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0976	0.0976	2.5000e-004	0.0000	0.1039
Total	0.2548	4.5000e-004	0.0500	0.0000		1.8000e-004	1.8000e-004	B-338	1.8000e-004	1.8000e-004	0.0000	0.0976	0.0976	2.5000e-004	0.0000	0.1039

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0290					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2213					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.5700e-003	4.5000e-004	0.0500	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0976	0.0976	2.5000e-004	0.0000	0.1039
Total	0.2548	4.5000e-004	0.0500	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.0976	0.0976	2.5000e-004	0.0000	0.1039

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	127.1378	0.0529	0.0296	137.2890
Unmitigated	127.1378	0.0529	0.0296	137.2890

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	37.3494 / 0.554545	127.1378	0.0529	0.0296	137.2890
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		127.1378	0.0529	0.0296	137.2890

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

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	37.3494 / 0.554545	127.1378	0.0529	0.0296	137.2890
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		127.1378	0.0529	0.0296	137.2890

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	134.8834	7.9714	0.0000	334.1680
Unmitigated	134.8834	7.9714	0.0000	334.1680

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	664.48	134.8834	7.9714	0.0000	334.1680
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		134.8834	7.9714	0.0000	334.1680

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

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	664.48	134.8834	7.9714	0.0000	334.1680
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		134.8834	7.9714	0.0000	334.1680

Chaffey College New Fontana Campus Master Plan Project Existing Conditions at Buildout (2030) - San Bernardino-South Coast County, Summer

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

**Chaffey College New Fontana Campus Master Plan Project Existing Conditions at Buildout (2030)
San Bernardino-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	3,641.00	Student	1.29	56,000.00	0
Other Non-Asphalt Surfaces	76.30	1000sqft	1.75	76,300.00	0
Parking Lot	216.18	1000sqft	4.96	216,180.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10	Operational Year	2030		
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 - based on data from applicant

Construction Phase -

Vehicle Trips - assumes sunday has an equivalent number of trips as saturday, assumes 100% primary trips to the campus

Area Coating - based on parking area only

Energy Use -

Water And Wastewater - Assumes 808 employees and 3,641 students will be consuming 23 gallons of water per day over 365 days. Outdoor water based on landscaped

Fleet Mix - see fleet mix adjustment in assumptions file

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Chaffey College New Fontana Campus Master Plan Project Existing Conditions at Buildout (2030) - San Bernardino-South Coast County, Summer

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	17549	12971
tblFleetMix	HHD	0.02	0.02
tblFleetMix	LDA	0.55	0.61
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.18	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.5970e-003	6.7840e-003
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MDV	0.13	0.04
tblFleetMix	MH	3.6860e-003	3.7900e-003
tblFleetMix	MHD	0.01	0.01
tblFleetMix	OBUS	5.3500e-004	0.00
tblFleetMix	SBUS	9.6600e-004	9.9300e-004
tblFleetMix	UBUS	2.3400e-004	0.00
tblLandUse	LandUseSquareFeet	158,937.80	56,000.00
tblLandUse	LotAcreage	3.65	1.29
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblVehicleTrips	DV_TP	7.00	0.00
tblVehicleTrips	PB_TP	1.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	SU_TR	0.04	0.42
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	7,795,745.10	37,349,355.00
tblWater	OutdoorWaterUseRate	12,193,344.90	554,545.00
tblWater	SepticTankPercent	10.33	0.00

Chaffey College New Fontana Campus Master Plan Project Existing Conditions at Buildout (2030) - San Bernardino-South Coast 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

2.2 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	1.4077	3.6000e-003	0.3996	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8609	0.8609	2.2200e-003			0.9164
Energy	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003		304.6782
Mobile	11.0275	12.6118	103.0594	0.2324	28.4674	0.1630	28.6303	7.5905	0.1527	7.7431		23,684.8456	23,684.8456	1.1823	1.0969		24,041.2738
Total	12.4629	12.8678	103.6710	0.2340	28.4674	0.1836	28.6509	7.5905	0.1733	7.7637		23,988.5848	23,988.5848	1.1904	1.1024		24,346.8683

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	1.4077	3.6000e-003	0.3996	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8609	0.8609	2.2200e-003			0.9164
Energy	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003		304.6782
Mobile	11.0275	12.6118	103.0594	0.2324	28.4674	0.1630	28.6303	7.5905	0.1527	7.7431		23,684.8456	23,684.8456	1.1823	1.0969		24,041.2738
Total	12.4629	12.8678	103.6710	0.2340	28.4674	0.1836	28.6509	7.5905	0.1733	7.7637		23,988.5848	23,988.5848	1.1904	1.1024		24,346.8683

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

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	11.0275	12.6118	103.0594	0.2324	28.4674	0.1630	28.6303	7.5905	0.1527	7.7431		23,684.845	23,684.845	1.1823	1.0969	24,041.273
Unmitigated	11.0275	12.6118	103.0594	0.2324	28.4674	0.1630	28.6303	7.5905	0.1527	7.7431		23,684.845	23,684.845	1.1823	1.0969	24,041.273

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	4,187.15	1,529.22	1529.22	11,041,877	11,041,877
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	4,187.15	1,529.22	1,529.22	11,041,877	11,041,877

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	100	0	0
Other Non-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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.611238	0.063694	0.194952	0.037516	0.023867	0.006784	0.013112	0.017439	0.000000	0.000000	0.026617	0.000993	0.003790
Other Non-Asphalt Surfaces	0.551473	0.057466	0.175890	0.126504	0.023210	0.006597	0.012751	0.016959	0.000535	0.000234	0.023730	0.000966	0.003686
Parking Lot	0.551473	0.057466	0.175890	0.126504	0.023210	0.006597	0.012751	0.016959	0.000535	0.000234	0.023730	0.000966	0.003686

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782
NaturalGas Unmitigated	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782

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					
Junior College (2yr)	2574.47	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782

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					
Junior College (2yr)	2.57447	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782

Chaffey College New Fontana Campus Master Plan Project Existing Conditions at Buildout (2030) - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	lb/day										lb/day					
Mitigated	1.4077	3.6000e-003	0.3996	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8609	0.8609	2.2200e-003		0.9164
Unmitigated	1.4077	3.6000e-003	0.3996	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8609	0.8609	2.2200e-003		0.9164

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0366	3.6000e-003	0.3996	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8609	0.8609	2.2200e-003		0.9164
Total	1.4077	3.6000e-003	0.3996	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8609	0.8609	2.2200e-003		0.9164

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0366	3.6000e-003	0.3996	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8609	0.8609	2.2200e-003		0.9164
Total	1.4077	3.6000e-003	0.3996	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8609	0.8609	2.2200e-003		0.9164

Chaffey College New Fontana Campus Master Plan Project Existing Conditions at Buildout (2030) - San Bernardino-South Coast County, Summer

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

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Chaffey College New Fontana Campus Master Plan Project Existing Conditions at Buildout (2030) - San Bernardino-South Coast County, Winter

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

Chaffey College New Fontana Campus Master Plan Project Existing Conditions at Buildout (2030)

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	3,641.00	Student	1.29	56,000.00	0
Other Non-Asphalt Surfaces	76.30	1000sqft	1.75	76,300.00	0
Parking Lot	216.18	1000sqft	4.96	216,180.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2030
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 - based on data from applicant

Construction Phase -

Vehicle Trips - assumes sunday has an equivalent number of trips as saturday, assumes 100% primary trips to the campus

Area Coating - based on parking area only

Energy Use -

Water And Wastewater - Assumes 808 employees and 3,641 students will be consuming 23 gallons of water per day over 365 days. Outdoor water based on landscaped

Fleet Mix - see fleet mix adjustment in assumptions file

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Chaffey College New Fontana Campus Master Plan Project Existing Conditions at Buildout (2030) - San Bernardino-South Coast County, Winter

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	17549	12971
tblFleetMix	HHD	0.02	0.02
tblFleetMix	LDA	0.55	0.61
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.18	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.5970e-003	6.7840e-003
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MDV	0.13	0.04
tblFleetMix	MH	3.6860e-003	3.7900e-003
tblFleetMix	MHD	0.01	0.01
tblFleetMix	OBUS	5.3500e-004	0.00
tblFleetMix	SBUS	9.6600e-004	9.9300e-004
tblFleetMix	UBUS	2.3400e-004	0.00
tblLandUse	LandUseSquareFeet	158,937.80	56,000.00
tblLandUse	LotAcreage	3.65	1.29
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblVehicleTrips	DV_TP	7.00	0.00
tblVehicleTrips	PB_TP	1.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	SU_TR	0.04	0.42
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	7,795,745.10	37,349,355.00
tblWater	OutdoorWaterUseRate	12,193,344.90	554,545.00
tblWater	SepticTankPercent	10.33	0.00

Chaffey College New Fontana Campus Master Plan Project Existing Conditions at Buildout (2030) - San Bernardino-South Coast 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

2.2 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	1.4077	3.6000e-003	0.3996	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8609	0.8609	2.2200e-003			0.9164
Energy	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003		304.6782
Mobile	9.5994	13.4479	93.2595	0.2153	28.4674	0.1631	28.6305	7.5905	0.1528	7.7432		21,955.4893	21,955.4893	1.2109	1.1242		22,320.7580
Total	11.0348	13.7039	93.8711	0.2168	28.4674	0.1837	28.6511	7.5905	0.1734	7.7638		22,259.2285	22,259.2285	1.2189	1.1297		22,626.3525

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	1.4077	3.6000e-003	0.3996	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8609	0.8609	2.2200e-003			0.9164
Energy	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003		304.6782
Mobile	9.5994	13.4479	93.2595	0.2153	28.4674	0.1631	28.6305	7.5905	0.1528	7.7432		21,955.4893	21,955.4893	1.2109	1.1242		22,320.7580
Total	11.0348	13.7039	93.8711	0.2168	28.4674	0.1837	28.6511	7.5905	0.1734	7.7638		22,259.2285	22,259.2285	1.2189	1.1297		22,626.3525

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

Chaffey College New Fontana Campus Master Plan Project Existing Conditions at Buildout (2030) - San Bernardino-South Coast County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day											lb/day					
Mitigated	9.5994	13.4479	93.2595	0.2153	28.4674	0.1631	28.6305	7.5905	0.1528	7.7432		21,955.489	21,955.489	1.2109	1.1242	22,320.758
Unmitigated	9.5994	13.4479	93.2595	0.2153	28.4674	0.1631	28.6305	7.5905	0.1528	7.7432		21,955.489	21,955.489	1.2109	1.1242	22,320.758

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	4,187.15	1,529.22	1529.22	11,041,877	11,041,877
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	4,187.15	1,529.22	1,529.22	11,041,877	11,041,877

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	100	0	0
Other Non-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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.611238	0.063694	0.194952	0.037516	0.023867	0.006784	0.013112	0.017439	0.000000	0.000000	0.026617	0.000993	0.003790
Other Non-Asphalt Surfaces	0.551473	0.057466	0.175890	0.126504	0.023210	0.006597	0.012751	0.016959	0.000535	0.000234	0.023730	0.000966	0.003686
Parking Lot	0.551473	0.057466	0.175890	0.126504	0.023210	0.006597	0.012751	0.016959	0.000535	0.000234	0.023730	0.000966	0.003686

Chaffey College New Fontana Campus Master Plan Project Existing Conditions at Buildout (2030) - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782
NaturalGas Unmitigated	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782

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					
Junior College (2yr)	2574.47	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782

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					
Junior College (2yr)	2.57447	0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0278	0.2524	0.2120	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.8783	302.8783	5.8100e-003	5.5500e-003	304.6782

Chaffey College New Fontana Campus Master Plan Project Existing Conditions at Buildout (2030) - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	lb/day										lb/day					
Mitigated	1.4077	3.6000e-003	0.3996	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8609	0.8609	2.2200e-003		0.9164
Unmitigated	1.4077	3.6000e-003	0.3996	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8609	0.8609	2.2200e-003		0.9164

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0366	3.6000e-003	0.3996	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8609	0.8609	2.2200e-003		0.9164
Total	1.4077	3.6000e-003	0.3996	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8609	0.8609	2.2200e-003		0.9164

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0366	3.6000e-003	0.3996	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8609	0.8609	2.2200e-003		0.9164
Total	1.4077	3.6000e-003	0.3996	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8609	0.8609	2.2200e-003		0.9164

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Chaffey College New Fontana Campus Master Plan Project Existing Conditions at Buildout (2030) - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Construction Localized Significance Thresholds: Site Preparation

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
34	3.50	25	82	49	160	14.30
Source Receptor Distance (meters)	Central San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
	25	Tractors	0.5	0.0625	4	2
NOx	220	Tractors	0.5	0.0625		0
CO	1,359	Graders	0.5	0.0625		0
PM10	31.89	Dozers	0.5	0.0625	8	1.5
PM2.5	7.90	Scrapers	1	0.125	3	0
					Acres	3.50
	Acres	25	50	100	200	500
NOx	3	203	234	301	414	715
	4	237	268	340	450	747
		220	251	321	432	731
CO	3	1230	1774	3206	7075	24763
	4	1488	2085	3674	7803	26221
		1359	1930	3440	7439	25492
PM10	3	9	29	50	91	213
	4	12	37	57	98	221
		11	33	54	95	217
PM2.5	3	5	7	14	29	109
	4	7	9	15	32	115
		6	8	15	31	112
Central San Bernardino Valley	3.50 Acres					
	25	50	100	200	500	
NOx	220	251	321	432	731	
CO	1359	1930	3440	7439	25492	
PM10	11	33	54	95	217	
PM2.5	6	8	15	31	112	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
34	3	34	4
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Site Preparation and Rough Grading

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
34	5.00	25	82	49	160	14.30

Source Receptor Distance (meters)	Central San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
25		Tractors	0.5	0.0625	8	6
NOx	270	Tractors	0.5	0.0625		3
CO	1,746	Graders	0.5	0.0625	8	1
PM10	42.52	Dozers	0.5	0.0625	8	4
PM2.5	9.90	Scrapers	1	0.125	8	2
						2
					Acres	7.50

	Acres	25	50	100	200	500
NOx	5	270	302	378	486	778
	5	270	302	378	486	778
	5	270	302	378	486	778
CO	5	1746	2396	4142	8532	27680
	5	1746	2396	4142	8532	27680
	5	1746	2396	4142	8532	27680
PM10	5	14	44	65	106	229
	5	14	44	65	106	229
	5	14	44	65	106	229
PM2.5	5	8	10	17	35	120
	5	8	10	17	35	120
	5	8	10	17	35	120

Central San Bernardino Valley

5.00 Acres

	25	50	100	200	500
NOx	270	302	378	486	778
CO	1746	2396	4142	8532	27680
PM10	14	44	65	106	229
PM2.5	8	10	17	35	120

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
34	5	34	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Rough Grading

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
34	4.00	25	82	49	160	14.30
Source Receptor Distance (meters)	Central San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
25		Tractors	0.5	0.0625		0
NOx 237		Tractors	0.5	0.0625	8	2
CO 1,488		Graders	0.5	0.0625	8	1
PM10 35.43		Dozers	0.5	0.0625	8	1
PM2.5 8.57		Scrapers	1	0.125	8	2
					Acres	4.00
	Acres	25	50	100	200	500
NOx	4	237	268	340	450	747
	4	237	268	340	450	747
		237	268	340	450	747
CO	4	1488	2085	3674	7803	26221
	4	1488	2085	3674	7803	26221
		1488	2085	3674	7803	26221
PM10	4	12	37	57	98	221
	4	12	37	57	98	221
		12	37	57	98	221
PM2.5	4	7	9	15	32	115
	4	7	9	15	32	115
		7	9	15	32	115
Central San Bernardino Valley	4.00 Acres					
	25	50	100	200	500	
NOx	237	268	340	450	747	
CO	1488	2085	3674	7803	26221	
PM10	12	37	57	98	221	
PM2.5	7	9	15	32	115	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
34	4	34	4
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Rough Grading and Utilities Trenching

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
34	4.00	25	82	49	160	14.30

Source Receptor Distance (meters)	Central San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
25		Tractors	0.5	0.0625		0
NOx 237		Tractors	0.5	0.0625	8	2
CO 1,488		Graders	0.5	0.0625	8	1
PM10 35.43		Dozers	0.5	0.0625	8	1
PM2.5 8.57		Scrapers	1	0.125	8	2
					Acres	4.00

	Acres	25	50	100	200	500
NOx	4	237	268	340	450	747
	4	237	268	340	450	747
	4	237	268	340	450	747
CO	4	1488	2085	3674	7803	26221
	4	1488	2085	3674	7803	26221
	4	1488	2085	3674	7803	26221
PM10	4	12	37	57	98	221
	4	12	37	57	98	221
	4	12	37	57	98	221
PM2.5	4	7	9	15	32	115
	4	7	9	15	32	115
	4	7	9	15	32	115

Central San Bernardino Valley						
4.00 Acres						
	25	50	100	200	500	
NOx	237	268	340	450	747	
CO	1488	2085	3674	7803	26221	
PM10	12	37	57	98	221	
PM2.5	7	9	15	32	115	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
34	4	34	4
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Rough Grading, Utilities Trenching, and Fine Grading

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
34	5.00	25	82	49	160	14.30

Source Receptor Distance (meters)	Central San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
25		Tractors	0.5	0.0625		0
NOx	270	Tractors	0.5	0.0625	8	4
CO	1,746	Graders	0.5	0.0625	8	2
PM10	42.52	Dozers	0.5	0.0625	8	1
PM2.5	9.90	Scrapers	1	0.125	8	1
					Acres	8.00
	Acres	25	50	100	200	500
NOx	5	270	302	378	486	778
	5	270	302	378	486	778
		270	302	378	486	778
CO	5	1746	2396	4142	8532	27680
	5	1746	2396	4142	8532	27680
		1746	2396	4142	8532	27680
PM10	5	14	44	65	106	229
	5	14	44	65	106	229
		14	44	65	106	229
PM2.5	5	8	10	17	35	120
	5	8	10	17	35	120
		8	10	17	35	120
Central San Bernardino Valley						
5.00 Acres						
	25	50	100	200	500	
NOx	270	302	378	486	778	
CO	1746	2396	4142	8532	27680	
PM10	14	44	65	106	229	
PM2.5	8	10	17	35	120	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
34	5	34	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Fine Grading

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
34	4.00	25	82	49	160	14.30
Source Receptor Distance (meters)	Central San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
25		Tractors	0.5	0.0625		0
NOx	237	Tractors	0.5	0.0625	8	2
CO	1,488	Graders	0.5	0.0625	8	1
PM10	35.43	Dozers	0.5	0.0625	8	1
PM2.5	8.57	Scrapers	1	0.125	8	2
					Acres	4.00
	Acres	25	50	100	200	500
NOx	4	237	268	340	450	747
	4	237	268	340	450	747
		237	268	340	450	747
CO	4	1488	2085	3674	7803	26221
	4	1488	2085	3674	7803	26221
		1488	2085	3674	7803	26221
PM10	4	12	37	57	98	221
	4	12	37	57	98	221
		12	37	57	98	221
PM2.5	4	7	9	15	32	115
	4	7	9	15	32	115
		7	9	15	32	115
Central San Bernardino Valley						
4.00 Acres						
	25	50	100	200	500	
NOx	237	268	340	450	747	
CO	1488	2085	3674	7803	26221	
PM10	12	37	57	98	221	
PM2.5	7	9	15	32	115	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
34	4	34	4
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Fine Grading and Paving

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
34	4.00	25	82	49	160	14.30
Source Receptor Distance (meters)	Central San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
25		Tractors	0.5	0.0625		0
NOx	237	Tractors	0.5	0.0625	8	2
CO	1,488	Graders	0.5	0.0625	8	1
PM10	35.43	Dozers	0.5	0.0625	8	0.5
PM2.5	8.57	Scrapers	1	0.125	8	1
					Acres	4.00
	Acres	25	50	100	200	500
NOx	4	237	268	340	450	747
	4	237	268	340	450	747
		237	268	340	450	747
CO	4	1488	2085	3674	7803	26221
	4	1488	2085	3674	7803	26221
		1488	2085	3674	7803	26221
PM10	4	12	37	57	98	221
	4	12	37	57	98	221
		12	37	57	98	221
PM2.5	4	7	9	15	32	115
	4	7	9	15	32	115
		7	9	15	32	115
Central San Bernardino Valley						
4.00 Acres						
	25	50	100	200	500	
NOx	237	268	340	450	747	
CO	1488	2085	3674	7803	26221	
PM10	12	37	57	98	221	
PM2.5	7	9	15	32	115	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
34	4	34	4
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Paving

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)	
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)		
34	0.00	25	82	49	160	14.30	
Source Receptor Distance (meters)	Central San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
	25	Tractors	0.5	0.0625		0	
NOx	118	Tractors	0.5	0.0625		0	
CO	667	Graders	0.5	0.0625		0	
PM10	12.56	Dozers	0.5	0.0625		0	
PM2.5	4.90	Scrapers	1	0.125		0	
					Acres	0.00	
	Acres	25	50		100	200	500
NOx	1	118	148		211	334	652
	1	118	148		211	334	652
		118	148		211	334	652
CO	1	667	1059		2141	5356	21708
	1	667	1059		2141	5356	21708
		667	1059		2141	5356	21708
PM10	1	4	13		33	74	196
	1	4	13		33	74	196
		4	13		33	74	196
PM2.5	1	3	5		9	23	98
	1	3	5		9	23	98
		3	5		9	23	98
Central San Bernardino Valley							
0.00 Acres							
	25	50	100		200	500	
NOx	118	148	211		334	652	
CO	667	1059	2141		5356	21708	
PM10	4	13	33		74	196	
PM2.5	3	5	9		23	98	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
34	1	34	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Paving and Building Construction

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)	
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)		
34	1.31	25	82	49	160	14.30	
Source Receptor Distance (meters)	Central San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
	25	Tractors	0.5	0.0625	7	3	1.3125
NOx	134	Tractors	0.5	0.0625			0
CO	762	Graders	0.5	0.0625			0
PM10	15.28	Dozers	0.5	0.0625			0
PM2.5	5.21	Scrapers	1	0.125			0
						Acres	1.31
	Acres	25	50		100	200	500
NOx	1	118	148		211	334	652
	2	170	200		263	378	684
		134	164		227	348	662
CO	1	667	1059		2141	5356	21708
	2	972	1463		2738	6346	23304
		762	1185		2328	5665	22207
PM10	1	4	13		33	74	196
	2	7	22		42	83	205
		5	16		36	77	199
PM2.5	1	3	5		9	23	98
	2	4	6		12	26	104
		3	5		10	24	100
Central San Bernardino Valley	1.31 Acres						
	25	50	100		200	500	
NOx	134	164	227		348	662	
CO	762	1185	2328		5665	22207	
PM10	5	16	36		77	199	
PM2.5	3	5	10		24	100	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
34	1	34	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
34	1.31	25	82	49	160	14.30

Source Receptor Distance (meters)	Central San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
25		Tractors	0.5	0.0625	7	3	1.3125
NOx	134	Tractors	0.5	0.0625			0
CO	762	Graders	0.5	0.0625			0
PM10	15.28	Dozers	0.5	0.0625			0
PM2.5	5.21	Scrapers	1	0.125			0
						Acres	1.31

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
CO	1	134	164	227	348	662
	2	667	1059	2141	5356	21708
PM10	1	972	1463	2738	6346	23304
	2	762	1185	2328	5665	22207
PM2.5	1	4	13	33	74	196
	2	7	22	42	83	205
PM2.5	1	5	16	36	77	199
	2	3	5	9	23	98
		4	6	12	26	104
		3	5	10	24	100

Central San Bernardino Valley

1.31 Acres

	25	50	100	200	500
NOx	134	164	227	348	662
CO	762	1185	2328	5665	22207
PM10	5	16	36	77	199
PM2.5	3	5	10	24	100

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
34	1	34	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction, Paving, and Architectural Coating

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
34	1.31	25	82	49	160	14.30
Source Receptor Distance (meters)	Central San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
25		Tractors	0.5	0.0625	7	3
NOx	134	Tractors	0.5	0.0625		1.3125
CO	762	Graders	0.5	0.0625		0
PM10	15.28	Dozers	0.5	0.0625		0
PM2.5	5.21	Scrapers	1	0.125		0
					Acres	1.31
	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
		134	164	227	348	662
CO	1	667	1059	2141	5356	21708
	2	972	1463	2738	6346	23304
		762	1185	2328	5665	22207
PM10	1	4	13	33	74	196
	2	7	22	42	83	205
		5	16	36	77	199
PM2.5	1	3	5	9	23	98
	2	4	6	12	26	104
		3	5	10	24	100
Central San Bernardino Valley						
1.31 Acres						
	25	50	100	200	500	
NOx	134	164	227	348	662	
CO	762	1185	2328	5665	22207	
PM10	5	16	36	77	199	
PM2.5	3	5	10	24	100	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
34	1	34	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: 1-Acre LST

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)	
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)		
34	0.55	25	82	49	160	0.55	
Source Receptor	Central San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
Distance (meters)	25	Tractors	0.5	0.0625	8	1	0.5
NOx	118	Tractors	0.5	0.0625			0
CO	667	Graders	0.5	0.0625	8	1	0.5
PM10	12.56	Dozers	0.5	0.0625			0
PM2.5	4.90	Scrapers	1	0.125			0
						Acres	1.00
	Acres	25	50	100	200	500	
NOx	1	118	148	211	334	652	
	1	118	148	211	334	652	
		118	148	211	334	652	
CO	1	667	1059	2141	5356	21708	
	1	667	1059	2141	5356	21708	
		667	1059	2141	5356	21708	
PM10	1	4	13	33	74	196	
	1	4	13	33	74	196	
		4	13	33	74	196	
PM2.5	1	3	5	9	23	98	
	1	3	5	9	23	98	
		3	5	9	23	98	
Central San Bernardino Valley	0.55 Acres						
	25	50	100	200	500		
NOx	118	148	211	334	652		
CO	667	1059	2141	5356	21708		
PM10	4	13	33	74	196		
PM2.5	3	5	9	23	98		

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
34	1	34	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Operation Localized Significance Thresholds

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
34	14.30	25	82

Source Receptor Central San Bernardino Valley

Distance (meters)	Acres	25	50	100	200	500
NOx	5	270	302	378	486	778
	5	270	302	378	486	778
CO	5	1746	2396	4142	8532	27680
	5	1746	2396	4142	8532	27680
PM10	5	4	11	16	26	55
	5	4	11	16	26	55
PM2.5	5	2	3	5	9	29
	5	2	3	5	9	29

Central San Bernardino Valley

14.30 Acres

	25	50	100	200	500
NOx	270	302	378	486	778
CO	1746	2396	4142	8532	27680
PM10	4	11	16	26	55
PM2.5	2	3	5	9	29

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
34	5	34	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2010 - Table C-1. 2006 – 2008