

Appendix A Air Quality and GHG Background and Modeling Data

Appendix

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Air Quality and Greenhouse Gas Appendix

Emissions Worksheet

Regional Construction Emissions Worksheet

Site Preparation							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2022 Winter					
	Fugitive Dust					8.40	4.32
	Off-Road	3.17	33.08	19.70	0.04	1.61	1.48
	Total	3.17	33.08	19.70	0.04	10.02	5.80
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.03	0.83	0.30	0.00	0.12	0.04
	Worker	0.07	0.05	0.61	0.00	0.19	0.05
	Total	0.10	0.88	0.91	0.01	0.30	0.09
TOTAL		3.27	33.96	20.61	0.04	10.32	5.89
Onsite		2022					
	Fugitive Dust	0.00	0.00	0.00	0.00	8.40	4.32
	Off-Road	3.17	33.08	19.70	0.04	1.61	1.48
	Total	3.17	33.08	19.70	0.04	10.02	5.80
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.03	0.83	0.30	0.00	0.12	0.04
	Worker	0.07	0.05	0.61	0.00	0.19	0.05
	Total	0.10	0.88	0.91	0.01	0.30	0.09
TOTAL		3.27	33.96	20.61	0.04	10.32	5.89
Rough Grading							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2022 Winter					
	Fugitive Dust					0.23	0.02
	Off-Road	0.62	7.03	4.98	0.01	0.25	0.23
	Total	0.62	7.03	4.98	0.01	0.48	0.26
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.18	0.07	0.00	0.03	0.01
	Worker	0.02	0.01	0.17	0.00	0.05	0.01
	Total	0.03	0.20	0.24	0.00	0.08	0.02
TOTAL		0.64	7.23	5.21	0.01	0.56	0.28
Onsite		2022					
	Fugitive Dust	0.00	0.00	0.00	0.00	0.23	0.02
	Off-Road	0.62	7.03	4.98	0.01	0.25	0.23
	Total	0.62	7.03	4.98	0.01	0.48	0.26
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.18	0.07	0.00	0.03	0.01
	Worker	0.02	0.01	0.17	0.00	0.05	0.01
	Total	0.03	0.20	0.24	0.00	0.08	0.02
TOTAL		0.64	7.23	5.21	0.01	0.56	0.28
Building Construction (Site Preparation and Grading Overlap) 2022							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2022 Winter					
	Off-Road	1.27	11.22	10.49	0.02	0.57	0.54
	Total	1.27	11.22	10.49	0.02	0.57	0.54
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.08	2.16	0.78	0.01	0.31	0.11
	Worker	0.48	0.33	3.99	0.01	1.22	0.33
	Total	0.56	2.49	4.77	0.02	1.53	0.44
TOTAL		1.83	13.71	15.26	0.04	2.10	0.98
Onsite		2022					
	Off-Road	1.27	11.22	10.49	0.02	0.57	0.54
	Total	1.27	11.22	10.49	0.02	0.57	0.54
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.08	2.16	0.78	0.01	0.31	0.11
	Worker	0.48	0.33	3.99	0.01	1.22	0.33
	Total	0.56	2.49	4.77	0.02	1.53	0.44
TOTAL		1.83	13.71	15.26	0.04	2.10	0.98

Building Construction 2022							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2022 Winter					
	Off-Road	1.71	15.62	16.36	0.03	0.81	0.76
	Total	1.71	15.62	16.36	0.03	0.81	0.76
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.08	2.16	0.78	0.01	0.31	0.11
	Worker	0.48	0.33	3.99	0.01	1.22	0.33
	Total	0.56	2.49	4.77	0.02	1.53	0.44
TOTAL		2.26	18.11	21.13	0.05	2.34	1.20
Onsite		2022					
	Off-Road	1.71	15.62	16.36	0.03	0.81	0.76
	Total	1.71	15.62	16.36	0.03	0.81	0.76
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.08	2.16	0.78	0.01	0.31	0.11
	Worker	0.48	0.33	3.99	0.01	1.22	0.33
	Total	0.56	2.49	4.77	0.02	1.53	0.44
TOTAL		2.26	18.11	21.13	0.05	2.34	1.20

Building Construction 2023							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2023 Winter					
	Off-Road	1.57	14.38	16.24	0.03	0.70	0.66
	Total	1.57	14.38	16.24	0.03	0.70	0.66
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.05	1.74	0.71	0.01	0.29	0.09
	Worker	0.44	0.29	3.65	0.01	1.22	0.33
	Total	0.50	2.03	4.37	0.02	1.52	0.42
TOTAL		2.07	16.42	20.61	0.05	2.22	1.08
Onsite		2023					
	Off-Road	1.57	14.38	16.24	0.03	0.70	0.66
	Total	1.57	14.38	16.24	0.03	0.70	0.66
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.05	1.74	0.71	0.01	0.29	0.09
	Worker	0.44	0.29	3.65	0.01	1.22	0.33
	Total	0.50	2.03	4.37	0.02	1.52	0.42
TOTAL		2.07	16.42	20.61	0.05	2.22	1.08

Utility Trenching 2022							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2022 Winter					
	Off-Road	0.20	1.79	3.27	0.01	0.09	0.08
	Total	0.20	1.79	3.27	0.01	0.09	0.08
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	0.10	0.00	0.03	0.01
	Total	0.01	0.01	0.10	0.00	0.03	0.01
TOTAL		0.22	1.79	3.37	0.01	0.12	0.09
Onsite		2022					
	Off-Road	0.20	1.79	3.27	0.01	0.09	0.08
	Total	0.20	1.79	3.27	0.01	0.09	0.08
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	0.10	0.00	0.03	0.01
	Total	0.01	0.01	0.10	0.00	0.03	0.01
TOTAL		0.22	1.79	3.37	0.01	0.12	0.09

Utility Trenching 2023							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2023 Winter					
	Off-Road	0.19	1.56	3.27	0.01	0.08	0.07
	Total	0.19	1.56	3.27	0.01	0.08	0.07
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		0.20	1.56	3.37	0.01	0.11	0.08
Onsite		2023					
	Off-Road	0.19	1.56	3.27	0.01	0.08	0.07
	Total	0.19	1.56	3.27	0.01	0.08	0.07
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		0.20	1.56	3.37	0.01	0.11	0.08
Fine Grading 2023							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2023 Winter					
	Fugitive Dust					3.03	1.46
	Off-Road	1.26	13.33	8.06	0.02	0.55	0.50
	Total	1.26	13.33	8.06	0.02	3.58	1.97
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.52	0.21	0.00	0.09	0.03
	Worker	0.03	0.02	0.25	0.00	0.08	0.02
	Total	0.05	0.54	0.46	0.00	0.17	0.05
TOTAL		1.30	13.87	8.52	0.02	3.75	2.02
Onsite		2023					
	Fugitive Dust	0.00	0.00	0.00	0.00	3.03	1.46
	Off-Road	1.26	13.33	8.06	0.02	0.55	0.50
	Total	1.26	13.33	8.06	0.02	3.58	1.97
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.52	0.21	0.00	0.09	0.03
	Worker	0.03	0.02	0.25	0.00	0.08	0.02
	Total	0.05	0.54	0.46	0.00	0.17	0.05
TOTAL		1.30	13.87	8.52	0.02	3.75	2.02
Paving 2023							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2023 Winter					
	Off-Road	1.03	10.19	14.58	0.02	0.51	0.47
	Paving	0.25				0.00	0.00
	Total	1.28	10.19	14.58	0.02	0.51	0.47
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.06	0.04	0.46	0.00	0.16	0.04
	Total	0.06	0.04	0.46	0.00	0.16	0.04
TOTAL		1.34	10.23	15.05	0.02	0.67	0.51
Onsite		2023					
	Off-Road	1.03	10.19	14.58	0.02	0.51	0.47
	Paving	0.25	0.00	0.00	0.00	0.00	0.00
	Total	1.28	10.19	14.58	0.02	0.51	0.47
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.06	0.04	0.46	0.00	0.16	0.04
	Total	0.06	0.04	0.46	0.00	0.16	0.04
TOTAL		1.34	10.23	15.05	0.02	0.67	0.51

Architectural Coating								
			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2023 Winter						
	Archit. Coating		0.80				0.00	0.00
	Off-Road		0.19	1.30	1.81	0.00	0.07	0.07
	Total		0.99	1.30	1.81	0.00	0.07	0.07
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		0.09	0.06	0.74	0.00	0.25	0.07
	Total		0.09	0.06	0.74	0.00	0.25	0.07
TOTAL			1.08	1.36	2.55	0.01	0.32	0.14
Onsite		2023						
	Archit. Coating		0.80	0.00	0.00	0.00	0.00	0.00
	Off-Road		0.19	1.30	1.81	0.00	0.07	0.07
	Total		0.99	1.30	1.81	0.00	0.07	0.07
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		0.09	0.06	0.74	0.00	0.25	0.07
	Total		0.09	0.06	0.74	0.00	0.25	0.07
TOTAL			1.08	1.36	2.55	0.01	0.32	0.14
Finishing/Landscaping								
			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2023 Winter						
	Off-Road		0.19	1.56	3.27	0.01	0.08	0.07
	Total		0.19	1.56	3.27	0.01	0.08	0.07
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			0.20	1.56	3.37	0.01	0.11	0.08
Onsite		2023						
	Off-Road		0.19	1.56	3.27	0.01	0.08	0.07
	Total		0.19	1.56	3.27	0.01	0.08	0.07
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			0.20	1.56	3.37	0.01	0.11	0.08
Site Preparation			3	34	21	0	10	6
Site Preparation and Rough Grading			4	41	26	0	11	6
Site Preparation, Rough Grading, and Building Construction 2022			6	55	41	0	13	7
Building Construction 2022			2	18	21	0	2	1
Building Construction 2022 and Utility Trenching 2022			2	20	25	0	2	1
Building Construction 2023 and Utility Trenching 2023			2	18	24	0	2	1
Building Construction 2023			2	16	21	0	2	1
Building Construction 2023, Fine Grading, Paving, and Architectural Coating			6	42	47	0	7	4
Building Construction 2023, Fine Grading, Paving, Architectural Coating, and Finishing/Landscaping			6	43	50	0	7	4
MAX DAILY			6	55	50	0	13	7
Regional Thresholds			75	100	550	150	150	55
Exceeds Thresholds?			No	No	No	No	No	No

Construction LST Worksheet

Site Preparation						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2022				
	Fugitive Dust				8.40	4.32
	Off-Road		33.08	19.70	1.61	1.48
	Total		33.08	19.70	10.02	5.80
TOTAL			33.08	19.70	10.02	5.80
Onsite		2022				
	Fugitive Dust		0.00	0.00	8.40	4.32
	Off-Road		33.08	19.70	1.61	1.48
	Total		33.08	19.70	10.02	5.80
TOTAL			33.08	19.70	10.02	5.80

Rough Grading						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2022				
	Fugitive Dust				0.23	0.02
	Off-Road		7.03	4.98	0.25	0.23
	Total		7.03	4.98	0.48	0.26
TOTAL			7.03	4.98	0.48	0.26
Onsite		2022				
	Fugitive Dust		0.00	0.00	0.23	0.02
	Off-Road		7.03	4.98	0.25	0.23
	Total		7.03	4.98	0.48	0.26
TOTAL			7.03	4.98	0.48	0.26

Building Construction (Site Preparation and Grading Overlap) 2022						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2022				
	Off-Road		11.22	10.49	0.57	0.54
	Total		11.22	10.49	0.57	0.54
TOTAL			11.22	10.49	0.57	0.54
Onsite		2022				
	Off-Road		11.22	10.49	0.57	0.54
	Total		11.22	10.49	0.57	0.54
TOTAL			11.22	10.49	0.57	0.54

Building Construction 2022						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2022				
	Off-Road		15.62	16.36	0.81	0.76
	Total		15.62	16.36	0.81	0.76
TOTAL			15.62	16.36	0.81	0.76
Onsite		2022				
	Off-Road		15.62	16.36	0.81	0.76
	Total		15.62	16.36	0.81	0.76
TOTAL			15.62	16.36	0.81	0.76

Building Construction 2023						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2023				
	Off-Road		14.38	16.24	0.70	0.66
	Total		14.38	16.24	0.70	0.66
TOTAL			14.38	16.24	0.70	0.66
Onsite		2023				
	Off-Road		14.38	16.24	0.70	0.66
	Total		14.38	16.24	0.70	0.66
TOTAL			14.38	16.24	0.70	0.66

Utility Trenching 2022						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2022				
	Off-Road		1.79	3.27	0.09	0.08
	Total		1.79	3.27	0.09	0.08
TOTAL			1.79	3.27	0.09	0.08
Onsite		2022				
	Off-Road		1.79	3.27	0.09	0.08
	Total		1.79	3.27	0.09	0.08
TOTAL			1.79	3.27	0.09	0.08
Utility Trenching 2023						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2023				
	Off-Road		1.56	3.27	0.08	0.07
	Total		1.56	3.27	0.08	0.07
TOTAL			1.56	3.27	0.08	0.07
Onsite		2023				
	Off-Road		1.56	3.27	0.08	0.07
	Total		1.56	3.27	0.08	0.07
TOTAL			1.56	3.27	0.08	0.07
Fine Grading 2023						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2023				
	Fugitive Dust				3.03	1.46
	Off-Road		13.33	8.06	0.55	0.50
	Total		13.33	8.06	3.58	1.97
TOTAL			13.33	8.06	3.58	1.97
Onsite		2023				
	Fugitive Dust		0.00	0.00	3.03	1.46
	Off-Road		13.33	8.06	0.55	0.50
	Total		13.33	8.06	3.58	1.97
TOTAL			13.33	8.06	3.58	1.97
Paving 2023						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2023				
	Off-Road		10.19	14.58	0.51	0.47
	Paving				0.00	0.00
	Total		10.19	14.58	0.51	0.47
TOTAL			10.19	14.58	0.51	0.47
Onsite		2023				
	Off-Road		10.19	14.58	0.51	0.47
	Paving		0.00	0.00	0.00	0.00
	Total		10.19	14.58	0.51	0.47
TOTAL			10.19	14.58	0.51	0.47
Architectural Coating						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2023				
	Archit. Coating				0.00	0.00
	Off-Road		1.30	1.81	0.07	0.07
	Total		1.30	1.81	0.07	0.07
TOTAL			1.30	1.81	0.07	0.07
Onsite		2023				
	Archit. Coating		0.00	0.00	0.00	0.00
	Off-Road		1.30	1.81	0.07	0.07
	Total		1.30	1.81	0.07	0.07
TOTAL			1.30	1.81	0.07	0.07

Finishing/Landscaping						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2023				
	Off-Road		1.56	3.27	0.08	0.07
	Total		1.56	3.27	0.08	0.07
TOTAL			1.56	3.27	0.08	0.07
Onsite		2023				
	Off-Road		1.56	3.27	0.08	0.07
	Total		1.56	3.27	0.08	0.07
TOTAL			1.56	3.27	0.08	0.07
Site Preparation			33	20	10.02	5.80
	3.50 Acre LST		220	1,359	10.49	6.00
	<i>Exceeds LST?</i>		<i>no</i>	<i>no</i>	<i>no</i>	<i>no</i>
Site Preparation and Rough Grading			40	25	10.50	6.06
	4.00 Acre LST		237	1,488	11.66	6.67
	<i>Exceeds LST?</i>		<i>no</i>	<i>no</i>	<i>no</i>	<i>no</i>
Site Preparation, Rough Grading, and Building Construction 2022			51	35	11.07	6.60
	4.00 Acre LST		237	1,488	11.66	6.67
	<i>Exceeds LST?</i>		<i>no</i>	<i>no</i>	<i>no</i>	<i>no</i>
Building Construction 2022			16	16	0.81	0.76
	1.31 Acre LST		134	762	4.93	3.31
	<i>Exceeds LST?</i>		<i>no</i>	<i>no</i>	<i>no</i>	<i>no</i>
Building Construction 2022 and Utility Trenching 2022			17	20	0.90	0.84
	1.31 Acre LST		134	762	4.93	3.31
	<i>Exceeds LST?</i>		<i>no</i>	<i>no</i>	<i>no</i>	<i>no</i>
Building Construction 2023 and Utility Trenching 2023			16	20	0.78	0.73
	1.31 Acre LST		134	762	4.93	3.31
	<i>Exceeds LST?</i>		<i>no</i>	<i>no</i>	<i>no</i>	<i>no</i>
Building Construction 2023			14	16	0.70	0.66
	1.31 Acre LST		134	762	4.93	3.31
	<i>Exceeds LST?</i>		<i>no</i>	<i>no</i>	<i>no</i>	<i>no</i>
Building Construction 2023, Fine Grading, Paving, and Architectural Coating			39	41	4.86	3.17
	2.31 Acre LST		180	1,052	7.72	4.42
	<i>Exceeds LST?</i>		<i>no</i>	<i>no</i>	<i>no</i>	<i>no</i>
Building Construction 2023, Fine Grading, Paving, Architectural Coating, and Finishing/Landscaping			41	44	4.93	3.24
	2.31 Acre LST		180	1,052	7.72	4.42
	<i>Exceeds LST?</i>		<i>no</i>	<i>no</i>	<i>no</i>	<i>no</i>

Regional Operation Emissions Worksheet¹

¹ CalEEMod, Version 2020.4

Proposed Project (2023)

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.62	0.00	0.03	0.00	0.00	0.00
RV Coating	1.21	0.00	0.00	0.00	0.00	0.00
Energy	0.02	0.23	0.19	0.00	0.02	0.02
Mobile	0.28	1.20	2.88	0.01	0.63	0.18
Offroad	0.26	1.74	2.41	0.00	0.09	0.09
Total	2.39	3.17	5.52	0.02	0.74	0.29

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.62	0.00	0.03	0.00	0.00	0.00
RV Coating	1.21	0.00	0.00	0.00	0.00	0.00
Energy	0.02	0.23	0.19	0.00	0.02	0.02
Mobile	0.25	1.28	2.62	0.01	0.63	0.18
Offroad	0.26	1.74	2.41	0.00	0.09	0.09
Total	2.36	3.24	5.25	0.01	0.74	0.29

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.62	0.00	0.03	0.00	0.00	0.00
RV Coating	1.21	0.00	0.00	0.00	0.00	0.00
Energy	0.02	0.23	0.19	0.00	0.02	0.02
Mobile	0.28	1.28	2.88	0.01	0.63	0.18
Offroad	0.26	1.74	2.41	0.00	0.09	0.09
Total	2.39	3.24	5.52	0.02	0.74	0.29

Regional Thresholds (lb/day)

55 55 550 150 150 55

Exceeds Thresholds?

No No No No No No

GHG Emissions Inventory

Proposed Project Buildout

Construction¹

Phase 1 Construction

	MTCO ₂ e
2022	339
2023	346
Total Construction	685
30-Year Amortization²	23

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

	MTCO ₂ e/Year ²	
	Operations (2030)	%
Area	0	0%
Energy	118	32%
Mobile	122	33%
Offroad	44	12%
Solid Waste	50	13%
Water	13	3%
Amortized Construction Emissions	23	6%
	369	100%

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.

Assumptions Worksheet

CalEEMod Inputs - Giant RV Development Project , Construction

Name: Giant RV Development Project
Project Number: COCL-05
Project Location: Santo Antonio Drive and Mt Vernon Avenue, City of Colton
County/Air Basin: San Bernardino County
Climate Zone: 10
Land Use Setting: Urban
Operational Year: 2023
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	6.5
Disturbed Site Acreage	6.5

Project Components	SQFT	Tons	
New Construction	SQFT	(sqft)	ACRES
Commercial Building	25,287	21,443	0.49
Trash Enclosure	653	653	0.01
Total Building Area	25,940		0.51
Parking Lot	10,450		0.24
Other Asphalt Surfaces	172,136		3.95
Landscaping	36,687		0.84
Hardscape	26,466		0.61
Remaining Area Disturbed:	15,305		0.35
Other Non-Asphalt Surfaces	78,458		1.80

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage*	Land Use Square
Retail	Automobile Care Center	25.940	1000 sqft	0.51	25,940
Parking	Parking Lot	10.450	1000 sqft	0.24	10,450
Parking	Other Asphalt Surfaces	172.136	1000 sqft	3.95	172,136
Parking	Other Non-asphalt Surfaces	78.458	1000 sqft	1.80	78,458
				6.50	

Architectural Coating¹	Percent Painted
Exterior	35%
Interior	10%

¹ Based on data provided by the Applicant

Rule 1113	VOC content (grams/Liter)
Interior:	50
Exterior:	50

Structures	Land Use Square Feet	CalEEMod Factor¹	Total Paintable Surface Area	Paintable Interior Area²	Paintable Exterior Area²
Total Non-Residential					
Commercial Building	25,940	2.0	51,880	13,619	1,297
				13,619	1,297
Parking Lot ³	10,450	6%	627		627
			627		627

Notes

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.

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

² Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

Construction Mitigation

South Coast AQMD Rule 403

Replace Ground Cover	PM10:	5	% Reduction
Replace Ground Cover	PM2.5:	5	% Reduction
Water Exposed Area	Frequency:	2	per day
	PM10:	55	% Reduction
	PM25:	55	% Reduction
Unpaved Roads	Vehicle Speed:	15	mph
South Coast AQMD Rule 1186	Clean Paved Road	9	% PM Reduction

Construction Activities and Schedule Assumptions: Giant RV Development Project

based on durations provided by Applicant

Construction Schedule

Construction Activities	Phase Type	Start Date	End Date	CalEEMod Duration (Workday)
Site Preparation	Site Preparation	6/1/2022	9/1/2022	67
Rough Grading	Grading	8/1/2022	9/1/2022	24
Building Construction (Site Preparation and Grading Overlap)	Building Construction	9/1/2022	9/1/2022	1
Building Construction	Building Construction	9/2/2022	6/1/2023	195
Utility Trenching	Trenching	11/1/2022	3/1/2023	87
Fine Grading	Grading	4/1/2023	6/1/2023	44
Paving	Paving	4/1/2023	6/1/2023	44
Architectural Coating	Architectural Coating	4/1/2023	6/1/2023	44
Finishing/Landscaping	Finishing/Landscaping	5/1/2023	6/1/2023	24

Overlapping Construction Schedule

Construction Activities	Start Date	End Date	CalEEMod Duration (Workday)
Site Preparation	6/1/2022	7/31/2022	43
Site Preparation and Rough Grading	8/1/2022	8/31/2022	23
Site Preparation, Rough Grading, and Building Construction 2022	9/1/2022	9/1/2022	1
Building Construction 2022	9/2/2022	10/31/2022	42
Building Construction 2022 and Utility Trenching 2022	11/1/2022	12/31/2022	44
Building Construction 2023 and Utility Trenching 2023	1/1/2023	3/1/2023	43
Building Construction 2023	3/2/2023	3/31/2023	22
Building Construction 2023, Fine Grading, Paving, and Architectural Coating	4/1/2023	4/30/2023	20
Building Construction 2023, Fine Grading, Paving, Architectural Coating, and Finishing/Landscaping	5/1/2023	6/1/2023	24

CalEEMod Construction Off-Road Equipment Inputs

*Based on CalEEMod default equipment mix

General Construction Hours: between 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

Notes:

¹ Based on data provided in *Guidance for Application for Dust Control Permit* Maricopa County Air Quality Department. 2005, June. *Guidance for Application of Dust Control Permit*. https://www.epa.gov/sites/default/files/2019-04/documents/mr_guidanceforapplicationfordustcontrolpermit.pdf

² Based on standard water truck capacity: McLellan Industries. 2022, January (access). *Water Trucks*. <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/Day
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 (TOTAL TRIPS)					0
Water Trucks		Acres Disturbed:	3.5		18
Rough Grading					
Excavators	1	8	158	0.38	
Graders	1	8	187	0.41	
Worker Trips					15
Vendor Trips					0
Hauling Trips (TOTAL TRIPS)					0
Water Trucks		Acres Disturbed:	0.5		4
* removed equipment overlapping with site preparation					
Building Construction (Site Preparation and Grading Overlap)					
Cranes	1	7	231	0.29	
Forklifts	3	8	89	0.2	
Generator Sets	1	8	84	0.74	
Welders	1	8	46	0.45	
Worker Trips					118
Vendor Trips					47
Hauling Trips (TOTAL TRIPS)					0
* removed equipment overlapping with site preparation and rough grading					
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					118
Vendor Trips					47
Hauling Trips (TOTAL TRIPS)					0
Utility Trenching					
Excavators	1	8	158	0.38	
Worker Trips					3
Vendor Trips					0
Hauling Trips (TOTAL TRIPS)					0
* assumes 1 excavator, based on projects of similar size					
Fine Grading					
Excavators	1	8	158	0.38	
Graders	1	8	187	0.41	
Rubber Tired Dozers	1	8	247	0.4	
Worker Trips					15
Vendor Trips					0
Hauling Trips (TOTAL TRIPS)					0
Water Trucks		Acres Disturbed:	2.5		14
* removed equipment overlapping with building construction					
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 (TOTAL TRIPS)					0
Architectural Coating*					
Air Compressors	1	6	78	0.48	
Worker Trips					24
Vendor Trips					0
Hauling Trips (TOTAL TRIPS)					0
Finishing and Landscaping					
Excavators	1	8	249	0.38	
Worker Trips					3
Vendor Trips					0
Hauling Trips (TOTAL TRIPS)					0

* assumes 1 excavator, based on projects of similar size

Construction Trips Worksheet

Phase Name	Worker Trip Ends Per Day	Vendor Trip Ends Per Day	Haul Truck Trip Ends Per Day	Total Haul Truck Trip Ends	Start Date	End Date	Workdays
Site Preparation	18	18	0	0	6/1/2022	9/1/2022	67
Rough Grading	15	4	0	0	8/1/2022	9/1/2022	24
Building Construction	118	47	0	0	9/1/2022	6/1/2023	196
Utility Trenching	3	0	0	0	11/1/2022	3/1/2023	87
Fine Grading	15	14	0	0	4/1/2023	6/1/2023	44
Paving	15	0	0	0	4/1/2023	6/1/2023	44
Architectural Coating	24	0	0	0	4/1/2023	6/1/2023	44
Finishing/Landscaping	3	0	0	0	5/1/2023	6/1/2023	24

Construction Activity (Overlapping)	Worker Trip Ends Per Day	Vendor Trip Ends Per Day	Haul Truck Trip Ends Per Day	Total Trip Ends Per Day	Start Date	End Date	Workdays
Site Preparation	18	18	0	36	6/1/2022	7/31/2022	43
Site Preparation and Rough Grading	33	22	0	55	8/1/2022	8/31/2022	23
Site Preparation, Rough Grading, and Building Construction 2022	151	69	0	220	9/1/2022	9/1/2022	1
Building Construction 2022	118	47	0	165	9/2/2022	10/31/2022	42
Building Construction 2022 and Utility Trenching 2022	121	47	0	168	11/1/2022	12/31/2022	44
Building Construction 2023 and Utility Trenching 2023	121	47	0	168	1/1/2023	3/1/2023	43
Building Construction 2023	118	47	0	165	3/2/2023	3/31/2023	22
Building Construction 2023, Fine Grading, Paving, and Architectural Coating	172	61	0	233	4/1/2023	4/30/2023	20
Building Construction 2023, Fine Grading, Paving, Architectural Coating, and Finishing/Landscaping	175	61	0	236	5/1/2023	6/1/2023	24
	175	69	0	236			

CalEEMod Inputs - Giant RV Development Project , Operations

Name: Giant RV Development Project
Project Number: COCL-05
Project Location: Santo Antonio Drive and Mt Vernon Avenue, City of Colton
County/Air Basin: San Bernardino County
Climate Zone: 10
Land Use Setting: Urban
Operational Year: 2023
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 6.50
Disturbed Site Acreage 6.50

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Retail	Automobile Care Center	25.94	1000 sqft	0.51	25,940
Parking	Parking Lot	10.45	1000 sqft	0.24	10,450
Parking	Other Asphalt Surfaces	172.14	1000 sqft	3.95	172,136
Parking	Other Non-asphalt Surfaces	78.46	1000 sqft	1.80	78,458
				6.50	

Trips

Trip Type	Average Daily Trips	CalEEMod Trip Rate	Saturday Trips ¹	CalEEMod Trip Rate	Sunday Trips ¹	CalEEMod Trip Rate
Project Trips	71	2.74	0	0.00	0	0.00

Notes:

¹ Proposed operations would occur from Monday through Thursday only.

Trip Type Percentages			
	Primary	Diverted	Passby
Automobile Care Center	21%	51%	28%
Adjusted Trip Type Percentages	100%	0%	0%

CalEEMod Default Water Use¹

Land Use	Indoor (gallons/year) ^{2,3}	Outdoor (gallons/year) ⁴	Total
Automobile Care Center	2,440,464	1,495,768	3,936,232

Notes:

¹ Assumes 100% aerobic treatment.

Solid Waste (CalEEMod Defaults)

Land Use	(tons/year)
Automobile Care Center	99.09

Architectural Coating¹

	Percent Painted
Exterior	35%
Interior	10%

¹ Based on data provided by the Applicant

Rule 1113

	VOC content (grams/Liter)
Interior:	50
Exterior:	50

Structures	Land Use Square Feet	CalEEMod Factor ¹	Total Paintable Surface		
			Area	Paintable Interior Area ²	Paintable Exterior Area ²
Total Non-Residential					
Commercial Building	25,940	2.0	51,880	13,619	1,297
				13,619	1,297
Parking Lot ³	10,450	6%	627		627
			627		627

Notes

¹

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 Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted

²

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

Operational VOC Emissions Calculations

Gallons to Liters Conversion	3.79	Pounds to Grams Conversion	453.59
Assumed VOC grams/liter ¹	600	Operational Days Per Month ²	16

	Coating Use Per Month			Total
	Limco Paint	Omni Clear Coat	Limco Paint Thinner	
gal/month	0.38	1.50	2.00	3.88
liter/month	1.42	5.68	7.57	14.67
grams/month	852	3,407	4,542	8,801.08
lb/day	0.12	0.47	0.63	1.21

Notes

¹ Based on the highest VOC content for Limco paints. Assumes all coating types will have same VOC content.

² Based on 4 day work week provided by applicant

Electricity (Buildings)

Based on the Electricity and Natural Gas Energy Intensity default information from CalEEMod, which complies with 2019 Building Energy Efficiency Standards

Colton Electric Utilities Carbon Intensity Factors¹

CO ₂ :	608.12	pounds per megawatt hour
CH ₄ :	0.073980205	pound per megawatt hour
N ₂ O:	0.008939824	pound per megawatt hour

Notes

¹ See City of Colton Electric Utility Carbon Intensity Factor Calculator.

Changes to the CalEEMod Defaults - Fleet Mix 2024

Weekday Trips 71

Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189	100%
Trips	38	4	12	10	2	1	1	1	0	0	2	0	0	71
Percent	79%			14%	7%									100%
without buses/MH	0.537845	0.056225	0.173186	0.138405	0.000000	0.000000	0.011447	0.018769	0	0	0.023821	0	0	96%
Percent	79%			14%	3%									96%
Adjusted without buses/MH	0.537845	0.056225	0.173186	0.138405	0.000000	0.000000	0.026715	0.043804	0.000000	0.000000	0.055594	0.000000	0.000000	103%
Percent adjusted	82%			14%	7%									
Assumed Mix	43.7%			28.17%	28.17%									100%
adjusted with Assumed	0.285391	0.029834	0.091896	0.281690	0.000000	0.000000	0.106715	0.174975	0.000000	0.000000	0.029499	0.000000	0.000000	100%
Percent Check:	44%			28%	28%									
Trips	20	2	7	20	0	0	8	12	0	0	2	0	0	71
	31			20	20									

Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles than 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

Giant RV Development Project, 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

**Giant RV Development Project, 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
Other Asphalt Surfaces	172.14	1000sqft	3.95	172,136.00	0
Other Non-Asphalt Surfaces	78.46	1000sqft	1.80	78,458.00	0
Parking Lot	10.45	1000sqft	0.24	10,450.00	0
Automobile Care Center	25.94	1000sqft	0.51	25,940.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2023
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	619.5	CH4 Intensity (lb/MWhr)	0.129	N2O Intensity (lb/MWhr)	0.016

1.3 User Entered Comments & Non-Default Data

Project Characteristics - based on Colton Electric Utility 2020 power content label and 2019 eGRID data

Land Use - based on info from client

Construction Phase - based on schedule provided by applicant

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - removed equipment overlapping with rough grading and site prep

Off-road Equipment - Removed equipment overlapping with Building Construction

Off-road Equipment - assumes 1 excavator, based on projects of similar size

Off-road Equipment -

Giant RV Development Project, 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

Off-road Equipment - removed equipment overlapping with Site Prep

Off-road Equipment -

Off-road Equipment - assumes 1 excavator based on projects of similar size

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

Grading -

Architectural Coating - based on 35% exterior an 10% interior coating provided by client

Construction Off-road Equipment Mitigation - South Coast AQMD Rule 403 and Rule 1186

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	12,970.00	1,264.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	38,910.00	13,276.00
tblArchitecturalCoating	ConstArea_Parking	15,663.00	627.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	67.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	230.00	1.00
tblConstructionPhase	NumDays	230.00	195.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	44.00
tblLandUse	LandUseSquareFeet	172,140.00	172,136.00
tblLandUse	LandUseSquareFeet	78,460.00	78,458.00
tblLandUse	LotAcreage	0.60	0.51
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

Giant RV Development Project, 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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.129
tblProjectCharacteristics	CO2IntensityFactor	0	619.5
tblProjectCharacteristics	N2OIntensityFactor	0	0.016
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2188	2.0504	1.7518	3.7600e-003	0.7462	0.0958	0.8419	0.3611	0.0889	0.4500	0.0000	335.0400	335.0400	0.0703	8.7300e-003	339.3990
2023	0.1993	1.5075	1.8207	3.8700e-003	0.2569	0.0667	0.3235	0.1026	0.0623	0.1649	0.0000	344.4811	344.4811	0.0653	9.1500e-003	348.8388
Maximum	0.2188	2.0504	1.8207	3.8700e-003	0.7462	0.0958	0.8419	0.3611	0.0889	0.4500	0.0000	344.4811	344.4811	0.0703	9.1500e-003	348.8388

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2188	2.0504	1.7518	3.7600e-003	0.3594	0.0958	0.4552	0.1655	0.0889	0.2544	0.0000	335.0397	335.0397	0.0703	8.7300e-003	339.3987
2023	0.1993	1.5075	1.8207	3.8700e-003	0.1600	0.0667	0.2267	0.0576	0.0623	0.1199	0.0000	344.4808	344.4808	0.0653	9.1500e-003	348.8385
Maximum	0.2188	2.0504	1.8207	3.8700e-003	0.3594	0.0958	0.4552	0.1655	0.0889	0.2544	0.0000	344.4808	344.4808	0.0703	9.1500e-003	348.8385

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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	48.21	0.00	41.49	51.90	0.00	39.14	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	1.8169	1.8169
2	9-1-2022	11-30-2022	1.2010	1.2010
3	12-1-2022	2-28-2023	0.8463	0.8463
4	3-1-2023	5-31-2023	1.2608	1.2608
5	6-1-2023	8-31-2023	0.0176	0.0176
		Highest	1.8169	1.8169

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	6/1/2022	9/1/2022	5	67	a
2	Rough Grading	Grading	8/1/2022	9/1/2022	5	24	b
3	Building Construction (Site Preparation and Grading Quarter)	Building Construction	9/1/2022	9/1/2022	5	1	c
4	Building Construction	Building Construction	9/2/2022	6/1/2023	5	195	d
5	Utilities Trenching	Trenching	11/1/2022	3/1/2023	5	87	e
6	Fine Grading	Grading	4/1/2023	6/1/2023	5	44	f
7	Paving	Paving	4/1/2023	6/1/2023	5	44	g
8	Architectural Coating	Architectural Coating	4/1/2023	6/1/2023	5	44	h
9	Finishing/Landscaping	Trenching	5/1/2023	6/1/2023	5	24	i

Acres of Grading (Site Preparation Phase): 100.5

Acres of Grading (Grading Phase): 12

Acres of Paving: 5.99

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 13,276; Non-Residential Outdoor: 1,264; Striped Parking Area: 627 (Architectural

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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	1	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction (Site Preparation and Grading Overlap)	Cranes	1	7.00	231	0.29
Building Construction (Site Preparation and Grading Overlap)	Forklifts	3	8.00	89	0.20
Building Construction (Site Preparation and Grading Overlap)	Generator Sets	1	8.00	84	0.74
Building Construction (Site Preparation and Grading Overlap)	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction (Site Preparation and Grading Overlap)	Welders	1	8.00	46	0.45
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
Utilities Trenching	Excavators	1	8.00	158	0.38
Fine Grading	Excavators	1	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	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Finishing/Landscaping	Excavators	1	8.00	158	0.38

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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	2	5.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	118.00	47.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation and Building Construction	9	118.00	47.00	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	3	8.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	24.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6585	0.0000	0.6585	0.3384	0.0000	0.3384	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1062	1.1083	0.6599	1.2700e-003		0.0540	0.0540		0.0497	0.0497	0.0000	112.0220	112.0220	0.0362	0.0000	112.9277
Total	0.1062	1.1083	0.6599	1.2700e-003	0.6585	0.0540	0.7125	0.3384	0.0497	0.3881	0.0000	112.0220	112.0220	0.0362	0.0000	112.9277

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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	1.0300e-003	0.0278	9.8500e-003	1.1000e-004	3.8000e-003	3.1000e-004	4.1200e-003	1.1000e-003	3.0000e-004	1.4000e-003	0.0000	10.9495	10.9495	3.0000e-004	1.6200e-003	11.4401
Worker	2.2700e-003	1.7800e-003	0.0214	6.0000e-005	6.6100e-003	4.0000e-005	6.6500e-003	1.7600e-003	3.0000e-005	1.7900e-003	0.0000	5.2695	5.2695	1.5000e-004	1.5000e-004	5.3187
Total	3.3000e-003	0.0296	0.0312	1.7000e-004	0.0104	3.5000e-004	0.0108	2.8600e-003	3.3000e-004	3.1900e-003	0.0000	16.2190	16.2190	4.5000e-004	1.7700e-003	16.7588

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2815	0.0000	0.2815	0.1447	0.0000	0.1447	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1062	1.1083	0.6599	1.2700e-003		0.0540	0.0540		0.0497	0.0497	0.0000	112.0218	112.0218	0.0362	0.0000	112.9276
Total	0.1062	1.1083	0.6599	1.2700e-003	0.2815	0.0540	0.3355	0.1447	0.0497	0.1944	0.0000	112.0218	112.0218	0.0362	0.0000	112.9276

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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	1.0300e-003	0.0278	9.8500e-003	1.1000e-004	3.5600e-003	3.1000e-004	3.8800e-003	1.0400e-003	3.0000e-004	1.3400e-003	0.0000	10.9495	10.9495	3.0000e-004	1.6200e-003	11.4401
Worker	2.2700e-003	1.7800e-003	0.0214	6.0000e-005	6.1000e-003	4.0000e-005	6.1300e-003	1.6300e-003	3.0000e-005	1.6600e-003	0.0000	5.2695	5.2695	1.5000e-004	1.5000e-004	5.3187
Total	3.3000e-003	0.0296	0.0312	1.7000e-004	9.6600e-003	3.5000e-004	0.0100	2.6700e-003	3.3000e-004	3.0000e-003	0.0000	16.2190	16.2190	4.5000e-004	1.7700e-003	16.7588

3.3 Rough Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.3600e-003	0.0000	6.3600e-003	6.9000e-004	0.0000	6.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4100e-003	0.0844	0.0597	1.4000e-004		3.0400e-003	3.0400e-003		2.7900e-003	2.7900e-003	0.0000	12.4244	12.4244	4.0200e-003	0.0000	12.5248
Total	7.4100e-003	0.0844	0.0597	1.4000e-004	6.3600e-003	3.0400e-003	9.4000e-003	6.9000e-004	2.7900e-003	3.4800e-003	0.0000	12.4244	12.4244	4.0200e-003	0.0000	12.5248

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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	8.0000e-005	2.2100e-003	7.8000e-004	1.0000e-005	3.0000e-004	3.0000e-005	3.3000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	0.8716	0.8716	2.0000e-005	1.3000e-004	0.9107
Worker	2.3000e-004	1.8000e-004	2.1300e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5243	0.5243	2.0000e-005	2.0000e-005	0.5292
Total	3.1000e-004	2.3900e-003	2.9100e-003	2.0000e-005	9.6000e-004	3.0000e-005	9.9000e-004	2.6000e-004	2.0000e-005	2.9000e-004	0.0000	1.3959	1.3959	4.0000e-005	1.5000e-004	1.4399

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.7200e-003	0.0000	2.7200e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4100e-003	0.0844	0.0597	1.4000e-004		3.0400e-003	3.0400e-003		2.7900e-003	2.7900e-003	0.0000	12.4244	12.4244	4.0200e-003	0.0000	12.5248
Total	7.4100e-003	0.0844	0.0597	1.4000e-004	2.7200e-003	3.0400e-003	5.7600e-003	2.9000e-004	2.7900e-003	3.0800e-003	0.0000	12.4244	12.4244	4.0200e-003	0.0000	12.5248

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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	8.0000e-005	2.2100e-003	7.8000e-004	1.0000e-005	2.8000e-004	3.0000e-005	3.1000e-004	8.0000e-005	2.0000e-005	1.1000e-004	0.0000	0.8716	0.8716	2.0000e-005	1.3000e-004	0.9107
Worker	2.3000e-004	1.8000e-004	2.1300e-003	1.0000e-005	6.1000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5243	0.5243	2.0000e-005	2.0000e-005	0.5292
Total	3.1000e-004	2.3900e-003	2.9100e-003	2.0000e-005	8.9000e-004	3.0000e-005	9.2000e-004	2.4000e-004	2.0000e-005	2.8000e-004	0.0000	1.3959	1.3959	4.0000e-005	1.5000e-004	1.4399

3.4 Building Construction (Site Preparation and Grading Overlap) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.4000e-004	5.6100e-003	5.2400e-003	1.0000e-005		2.9000e-004	2.9000e-004		2.7000e-004	2.7000e-004	0.0000	0.8000	0.8000	1.6000e-004	0.0000	0.8040
Total	6.4000e-004	5.6100e-003	5.2400e-003	1.0000e-005		2.9000e-004	2.9000e-004		2.7000e-004	2.7000e-004	0.0000	0.8000	0.8000	1.6000e-004	0.0000	0.8040

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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	4.0000e-005	1.0800e-003	3.8000e-004	0.0000	1.5000e-004	1.0000e-005	1.6000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.4267	0.4267	1.0000e-005	6.0000e-005	0.4458
Worker	2.2000e-004	1.7000e-004	2.0900e-003	1.0000e-005	6.5000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5156	0.5156	1.0000e-005	1.0000e-005	0.5204
Total	2.6000e-004	1.2500e-003	2.4700e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.1000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.9423	0.9423	2.0000e-005	7.0000e-005	0.9662

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.4000e-004	5.6100e-003	5.2400e-003	1.0000e-005		2.9000e-004	2.9000e-004		2.7000e-004	2.7000e-004	0.0000	0.8000	0.8000	1.6000e-004	0.0000	0.8040
Total	6.4000e-004	5.6100e-003	5.2400e-003	1.0000e-005		2.9000e-004	2.9000e-004		2.7000e-004	2.7000e-004	0.0000	0.8000	0.8000	1.6000e-004	0.0000	0.8040

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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	4.0000e-005	1.0800e-003	3.8000e-004	0.0000	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.4267	0.4267	1.0000e-005	6.0000e-005	0.4458
Worker	2.2000e-004	1.7000e-004	2.0900e-003	1.0000e-005	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5156	0.5156	1.0000e-005	1.0000e-005	0.5204
Total	2.6000e-004	1.2500e-003	2.4700e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.5000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.9423	0.9423	2.0000e-005	7.0000e-005	0.9662

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0734	0.6715	0.7036	1.1600e-003		0.0348	0.0348		0.0327	0.0327	0.0000	99.6419	99.6419	0.0239	0.0000	100.2386
Total	0.0734	0.6715	0.7036	1.1600e-003		0.0348	0.0348		0.0327	0.0327	0.0000	99.6419	99.6419	0.0239	0.0000	100.2386

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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	3.4400e-003	0.0931	0.0330	3.8000e-004	0.0128	1.0500e-003	0.0138	3.6800e-003	1.0100e-003	4.6900e-003	0.0000	36.6981	36.6981	9.9000e-004	5.4300e-003	38.3424
Worker	0.0191	0.0150	0.1798	4.8000e-004	0.0556	3.0000e-004	0.0559	0.0148	2.7000e-004	0.0151	0.0000	44.3404	44.3404	1.2700e-003	1.2800e-003	44.7544
Total	0.0226	0.1081	0.2128	8.6000e-004	0.0684	1.3500e-003	0.0697	0.0185	1.2800e-003	0.0197	0.0000	81.0385	81.0385	2.2600e-003	6.7100e-003	83.0968

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0734	0.6715	0.7036	1.1600e-003		0.0348	0.0348		0.0327	0.0327	0.0000	99.6417	99.6417	0.0239	0.0000	100.2385
Total	0.0734	0.6715	0.7036	1.1600e-003		0.0348	0.0348		0.0327	0.0327	0.0000	99.6417	99.6417	0.0239	0.0000	100.2385

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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	3.4400e-003	0.0931	0.0330	3.8000e-004	0.0119	1.0500e-003	0.0130	3.4800e-003	1.0100e-003	4.4900e-003	0.0000	36.6981	36.6981	9.9000e-004	5.4300e-003	38.3424
Worker	0.0191	0.0150	0.1798	4.8000e-004	0.0513	3.0000e-004	0.0516	0.0137	2.7000e-004	0.0140	0.0000	44.3404	44.3404	1.2700e-003	1.2800e-003	44.7544
Total	0.0226	0.1081	0.2128	8.6000e-004	0.0632	1.3500e-003	0.0646	0.0172	1.2800e-003	0.0185	0.0000	81.0385	81.0385	2.2600e-003	6.7100e-003	83.0968

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0857	0.7840	0.8853	1.4700e-003		0.0381	0.0381		0.0359	0.0359	0.0000	126.3336	126.3336	0.0301	0.0000	127.0849
Total	0.0857	0.7840	0.8853	1.4700e-003		0.0381	0.0381		0.0359	0.0359	0.0000	126.3336	126.3336	0.0301	0.0000	127.0849

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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	2.8900e-003	0.0945	0.0383	4.6000e-004	0.0162	6.8000e-004	0.0168	4.6600e-003	6.5000e-004	5.3100e-003	0.0000	44.6426	44.6426	1.1600e-003	6.6000e-003	46.6377
Worker	0.0224	0.0167	0.2087	5.9000e-004	0.0705	3.5000e-004	0.0709	0.0187	3.3000e-004	0.0191	0.0000	54.3904	54.3904	1.4500e-003	1.4900e-003	54.8718
Total	0.0253	0.1112	0.2470	1.0500e-003	0.0867	1.0300e-003	0.0877	0.0234	9.8000e-004	0.0244	0.0000	99.0330	99.0330	2.6100e-003	8.0900e-003	101.5095

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0857	0.7840	0.8853	1.4700e-003		0.0381	0.0381		0.0359	0.0359	0.0000	126.3334	126.3334	0.0301	0.0000	127.0848
Total	0.0857	0.7840	0.8853	1.4700e-003		0.0381	0.0381		0.0359	0.0359	0.0000	126.3334	126.3334	0.0301	0.0000	127.0848

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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	2.8900e-003	0.0945	0.0383	4.6000e-004	0.0151	6.8000e-004	0.0158	4.4100e-003	6.5000e-004	5.0600e-003	0.0000	44.6426	44.6426	1.1600e-003	6.6000e-003	46.6377
Worker	0.0224	0.0167	0.2087	5.9000e-004	0.0650	3.5000e-004	0.0654	0.0174	3.3000e-004	0.0177	0.0000	54.3904	54.3904	1.4500e-003	1.4900e-003	54.8718
Total	0.0253	0.1112	0.2470	1.0500e-003	0.0801	1.0300e-003	0.0812	0.0218	9.8000e-004	0.0228	0.0000	99.0330	99.0330	2.6100e-003	8.0900e-003	101.5095

3.6 Utilities Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4500e-003	0.0391	0.0716	1.1000e-004		1.8900e-003	1.8900e-003		1.7400e-003	1.7400e-003	0.0000	9.9793	9.9793	3.2300e-003	0.0000	10.0600
Total	4.4500e-003	0.0391	0.0716	1.1000e-004		1.8900e-003	1.8900e-003		1.7400e-003	1.7400e-003	0.0000	9.9793	9.9793	3.2300e-003	0.0000	10.0600

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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	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.0000e-004	2.3400e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5768	0.5768	2.0000e-005	2.0000e-005	0.5821
Total	2.5000e-004	2.0000e-004	2.3400e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5768	0.5768	2.0000e-005	2.0000e-005	0.5821

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.4500e-003	0.0391	0.0716	1.1000e-004		1.8900e-003	1.8900e-003		1.7400e-003	1.7400e-003	0.0000	9.9793	9.9793	3.2300e-003	0.0000	10.0600
Total	4.4500e-003	0.0391	0.0716	1.1000e-004		1.8900e-003	1.8900e-003		1.7400e-003	1.7400e-003	0.0000	9.9793	9.9793	3.2300e-003	0.0000	10.0600

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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	2.5000e-004	2.0000e-004	2.3400e-003	1.0000e-005	6.7000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5768	0.5768	2.0000e-005	2.0000e-005	0.5821
Total	2.5000e-004	2.0000e-004	2.3400e-003	1.0000e-005	6.7000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5768	0.5768	2.0000e-005	2.0000e-005	0.5821

3.6 Utilities Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.0600e-003	0.0333	0.0700	1.1000e-004		1.6300e-003	1.6300e-003		1.5000e-003	1.5000e-003	0.0000	9.7543	9.7543	3.1500e-003	0.0000	9.8332
Total	4.0600e-003	0.0333	0.0700	1.1000e-004		1.6300e-003	1.6300e-003		1.5000e-003	1.5000e-003	0.0000	9.7543	9.7543	3.1500e-003	0.0000	9.8332

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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	2.2000e-004	1.7000e-004	2.0900e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5455	0.5455	1.0000e-005	1.0000e-005	0.5503
Total	2.2000e-004	1.7000e-004	2.0900e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5455	0.5455	1.0000e-005	1.0000e-005	0.5503

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0600e-003	0.0333	0.0700	1.1000e-004		1.6300e-003	1.6300e-003		1.5000e-003	1.5000e-003	0.0000	9.7543	9.7543	3.1500e-003	0.0000	9.8332
Total	4.0600e-003	0.0333	0.0700	1.1000e-004		1.6300e-003	1.6300e-003		1.5000e-003	1.5000e-003	0.0000	9.7543	9.7543	3.1500e-003	0.0000	9.8332

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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	2.2000e-004	1.7000e-004	2.0900e-003	1.0000e-005	6.5000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5455	0.5455	1.0000e-005	1.0000e-005	0.5503
Total	2.2000e-004	1.7000e-004	2.0900e-003	1.0000e-005	6.5000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5455	0.5455	1.0000e-005	1.0000e-005	0.5503

3.7 Fine Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1558	0.0000	0.1558	0.0753	0.0000	0.0753	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.2932	0.1773	4.5000e-004		0.0120	0.0120		0.0111	0.0111	0.0000	39.2767	39.2767	0.0127	0.0000	39.5943
Total	0.0277	0.2932	0.1773	4.5000e-004	0.1558	0.0120	0.1679	0.0753	0.0111	0.0864	0.0000	39.2767	39.2767	0.0127	0.0000	39.5943

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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	3.5000e-004	0.0114	4.6000e-003	6.0000e-005	1.9400e-003	8.0000e-005	2.0200e-003	5.6000e-004	8.0000e-005	6.4000e-004	0.0000	5.3679	5.3679	1.4000e-004	7.9000e-004	5.6078
Worker	6.1000e-004	4.6000e-004	5.7100e-003	2.0000e-005	1.9300e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.4885	1.4885	4.0000e-005	4.0000e-005	1.5017
Total	9.6000e-004	0.0118	0.0103	8.0000e-005	3.8700e-003	9.0000e-005	3.9600e-003	1.0700e-003	9.0000e-005	1.1600e-003	0.0000	6.8565	6.8565	1.8000e-004	8.3000e-004	7.1095

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0666	0.0000	0.0666	0.0322	0.0000	0.0322	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.2932	0.1773	4.5000e-004		0.0120	0.0120		0.0111	0.0111	0.0000	39.2767	39.2767	0.0127	0.0000	39.5942
Total	0.0277	0.2932	0.1773	4.5000e-004	0.0666	0.0120	0.0787	0.0322	0.0111	0.0433	0.0000	39.2767	39.2767	0.0127	0.0000	39.5942

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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	3.5000e-004	0.0114	4.6000e-003	6.0000e-005	1.8200e-003	8.0000e-005	1.9000e-003	5.3000e-004	8.0000e-005	6.1000e-004	0.0000	5.3679	5.3679	1.4000e-004	7.9000e-004	5.6078
Worker	6.1000e-004	4.6000e-004	5.7100e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.8000e-004	1.0000e-005	4.8000e-004	0.0000	1.4885	1.4885	4.0000e-005	4.0000e-005	1.5017
Total	9.6000e-004	0.0118	0.0103	8.0000e-005	3.6000e-003	9.0000e-005	3.6900e-003	1.0100e-003	9.0000e-005	1.0900e-003	0.0000	6.8565	6.8565	1.8000e-004	8.3000e-004	7.1095

3.8 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0227	0.2242	0.3209	5.0000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	44.0591	44.0591	0.0143	0.0000	44.4154
Paving	5.4900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0282	0.2242	0.3209	5.0000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	44.0591	44.0591	0.0143	0.0000	44.4154

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1500e-003	8.6000e-004	0.0107	3.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.7910	2.7910	7.0000e-005	8.0000e-005	2.8157
Total	1.1500e-003	8.6000e-004	0.0107	3.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.7910	2.7910	7.0000e-005	8.0000e-005	2.8157

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0227	0.2242	0.3209	5.0000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	44.0591	44.0591	0.0143	0.0000	44.4153
Paving	5.4900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0282	0.2242	0.3209	5.0000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	44.0591	44.0591	0.0143	0.0000	44.4153

Giant RV Development Project, 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 Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1500e-003	8.6000e-004	0.0107	3.0000e-005	3.3400e-003	2.0000e-005	3.3500e-003	8.9000e-004	2.0000e-005	9.1000e-004	0.0000	2.7910	2.7910	7.0000e-005	8.0000e-005	2.8157
Total	1.1500e-003	8.6000e-004	0.0107	3.0000e-005	3.3400e-003	2.0000e-005	3.3500e-003	8.9000e-004	2.0000e-005	9.1000e-004	0.0000	2.7910	2.7910	7.0000e-005	8.0000e-005	2.8157

3.9 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2200e-003	0.0287	0.0398	7.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	5.6172	5.6172	3.4000e-004	0.0000	5.6256
Total	0.0218	0.0287	0.0398	7.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	5.6172	5.6172	3.4000e-004	0.0000	5.6256

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.3700e-003	0.0171	5.0000e-005	5.7900e-003	3.0000e-005	5.8200e-003	1.5400e-003	3.0000e-005	1.5600e-003	0.0000	4.4656	4.4656	1.2000e-004	1.2000e-004	4.5051
Total	1.8400e-003	1.3700e-003	0.0171	5.0000e-005	5.7900e-003	3.0000e-005	5.8200e-003	1.5400e-003	3.0000e-005	1.5600e-003	0.0000	4.4656	4.4656	1.2000e-004	1.2000e-004	4.5051

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2200e-003	0.0287	0.0398	7.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	5.6172	5.6172	3.4000e-004	0.0000	5.6256
Total	0.0218	0.0287	0.0398	7.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	5.6172	5.6172	3.4000e-004	0.0000	5.6256

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.3700e-003	0.0171	5.0000e-005	5.3400e-003	3.0000e-005	5.3700e-003	1.4300e-003	3.0000e-005	1.4500e-003	0.0000	4.4656	4.4656	1.2000e-004	1.2000e-004	4.5051
Total	1.8400e-003	1.3700e-003	0.0171	5.0000e-005	5.3400e-003	3.0000e-005	5.3700e-003	1.4300e-003	3.0000e-005	1.4500e-003	0.0000	4.4656	4.4656	1.2000e-004	1.2000e-004	4.5051

3.10 Finishing/Landscaping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.2600e-003	0.0186	0.0391	6.0000e-005		9.1000e-004	9.1000e-004		8.4000e-004	8.4000e-004	0.0000	5.4443	5.4443	1.7600e-003	0.0000	5.4883
Total	2.2600e-003	0.0186	0.0391	6.0000e-005		9.1000e-004	9.1000e-004		8.4000e-004	8.4000e-004	0.0000	5.4443	5.4443	1.7600e-003	0.0000	5.4883

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	9.0000e-005	1.1700e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3045	0.3045	1.0000e-005	1.0000e-005	0.3072
Total	1.3000e-004	9.0000e-005	1.1700e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3045	0.3045	1.0000e-005	1.0000e-005	0.3072

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2600e-003	0.0186	0.0391	6.0000e-005		9.1000e-004	9.1000e-004		8.4000e-004	8.4000e-004	0.0000	5.4443	5.4443	1.7600e-003	0.0000	5.4883
Total	2.2600e-003	0.0186	0.0391	6.0000e-005		9.1000e-004	9.1000e-004		8.4000e-004	8.4000e-004	0.0000	5.4443	5.4443	1.7600e-003	0.0000	5.4883

Giant RV Development Project, 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 Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3000e-004	9.0000e-005	1.1700e-003	0.0000	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3045	0.3045	1.0000e-005	1.0000e-005	0.3072
Total	1.3000e-004	9.0000e-005	1.1700e-003	0.0000	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3045	0.3045	1.0000e-005	1.0000e-005	0.3072

Giant RV Development Project, 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

**Giant RV Development Project, 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
Other Asphalt Surfaces	172.14	1000sqft	3.95	172,136.00	0
Other Non-Asphalt Surfaces	78.46	1000sqft	1.80	78,458.00	0
Parking Lot	10.45	1000sqft	0.24	10,450.00	0
Automobile Care Center	25.94	1000sqft	0.51	25,940.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2023
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	619.5	CH4 Intensity (lb/MW hr)	0.129	N2O Intensity (lb/MW hr)	0.016

1.3 User Entered Comments & Non-Default Data

Project Characteristics - based on Colton Electric Utility 2020 power content label and 2019 eGRID data

Land Use - based on info from client

Construction Phase - based on schedule provided by applicant

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - removed equipment overlapping with rough grading and site prep

Off-road Equipment - Removed equipment overlapping with Building Construction

Off-road Equipment - assumes 1 excavator, based on projects of similar size

Giant RV Development Project, 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

Off-road Equipment -

Off-road Equipment - removed equipment overlapping with Site Prep

Off-road Equipment -

Off-road Equipment - assumes 1 excavator based on projects of similar size

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

Grading -

Architectural Coating - based on 35% exterior an 10% interior coating provided by client

Construction Off-road Equipment Mitigation - South Coast AQMD Rule 403 and Rule 1186

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	12,970.00	1,264.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	38,910.00	13,276.00
tblArchitecturalCoating	ConstArea_Parking	15,663.00	627.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	67.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	230.00	1.00
tblConstructionPhase	NumDays	230.00	195.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	44.00
tblLandUse	LandUseSquareFeet	172,140.00	172,136.00
tblLandUse	LandUseSquareFeet	78,460.00	78,458.00
tblLandUse	LotAcreage	0.60	0.51
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Giant RV Development Project, 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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.129
tblProjectCharacteristics	CO2IntensityFactor	0	619.5
tblProjectCharacteristics	N2OIntensityFactor	0	0.016
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	5.7786	54.7348	42.0729	0.0960	22.2054	2.4824	24.6877	10.7050	2.3020	13.0069	0.0000	9,441.7856	9,441.7856	1.9932	0.2411	9,563.4692
2023	6.0189	43.2927	51.1700	0.1059	9.3512	1.9294	11.2806	4.0353	1.7960	5.8312	0.0000	10,378.1491	10,378.1491	2.2085	0.2132	10,496.9070
Maximum	6.0189	54.7348	51.1700	0.1059	22.2054	2.4824	24.6877	10.7050	2.3020	13.0069	0.0000	10,378.1491	10,378.1491	2.2085	0.2411	10,496.9070

Giant RV Development Project, 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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	5.7786	54.7348	42.0729	0.0960	10.4965	2.4824	12.9789	4.8513	2.3020	7.1533	0.0000	9,441.7856	9,441.7856	1.9932	0.2411	9,563.4692
2023	6.0189	43.2927	51.1700	0.1059	5.1245	1.9294	7.0538	2.0324	1.7960	3.8283	0.0000	10,378.1491	10,378.1491	2.2085	0.2132	10,496.9070
Maximum	6.0189	54.7348	51.1700	0.1059	10.4965	2.4824	12.9789	4.8513	2.3020	7.1533	0.0000	10,378.1491	10,378.1491	2.2085	0.2411	10,496.9070

	ROG	NOx	CO	SO2	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	50.50	0.00	44.30	53.30	0.00	41.71	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	Site Preparation	6/1/2022	9/1/2022	5	67	a
2	Rough Grading	Grading	8/1/2022	9/1/2022	5	24	b
3	Building Construction (Site Preparation and Grading Overlap)	Building Construction	9/1/2022	9/1/2022	5	1	c
4	Building Construction	Building Construction	9/2/2022	6/1/2023	5	195	d
5	Utilities Trenching	Trenching	11/1/2022	3/1/2023	5	87	e
6	Fine Grading	Grading	4/1/2023	6/1/2023	5	44	f
7	Paving	Paving	4/1/2023	6/1/2023	5	44	g
8	Architectural Coating	Architectural Coating	4/1/2023	6/1/2023	5	44	h
9	Finishing/Landscaping	Trenching	5/1/2023	6/1/2023	5	24	i

Giant RV Development Project, 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

Acres of Grading (Site Preparation Phase): 100.5

Acres of Grading (Grading Phase): 12

Acres of Paving: 5.99

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 13,276; Non-Residential Outdoor: 1,264; Striped Parking Area: 627

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	1	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction (Site Preparation and Grading Overlap)	Cranes	1	7.00	231	0.29
Building Construction (Site Preparation and Grading Overlap)	Forklifts	3	8.00	89	0.20
Building Construction (Site Preparation and Grading Overlap)	Generator Sets	1	8.00	84	0.74
Building Construction (Site Preparation and Grading Overlap)	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction (Site Preparation and Grading Overlap)	Welders	1	8.00	46	0.45
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
Utilities Trenching	Excavators	1	8.00	158	0.38
Fine Grading	Excavators	1	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

Giant RV Development Project, 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

Fine Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Finishing/Landscaping	Excavators	1	8.00	158	0.38

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	2	5.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	118.00	47.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
(Site Preparation and Building Construction	9	118.00	47.00	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	3	8.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	24.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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

Giant RV Development Project, 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 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	19.6570	1.6126	21.2696	10.1025	1.4836	11.5860		3,686.0619	3,686.0619	1.1922		3,715.8655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0314	0.7882	0.2893	3.3600e-003	0.1153	9.3800e-003	0.1247	0.0332	8.9700e-003	0.0422		360.1239	360.1239	9.7300e-003	0.0533	376.2483
Worker	0.0762	0.0483	0.7405	1.8600e-003	0.2012	1.0500e-003	0.2023	0.0534	9.7000e-004	0.0543		187.7072	187.7072	4.9100e-003	4.7000e-003	189.2310
Total	0.1076	0.8365	1.0298	5.2200e-003	0.3165	0.0104	0.3270	0.0866	9.9400e-003	0.0965		547.8311	547.8311	0.0146	0.0580	565.4794

Giant RV Development Project, 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					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	8.4034	1.6126	10.0159	4.3188	1.4836	5.8024	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0314	0.7882	0.2893	3.3600e-003	0.1079	9.3800e-003	0.1173	0.0314	8.9700e-003	0.0404		360.1239	360.1239	9.7300e-003	0.0533	376.2483
Worker	0.0762	0.0483	0.7405	1.8600e-003	0.1855	1.0500e-003	0.1865	0.0495	9.7000e-004	0.0505		187.7072	187.7072	4.9100e-003	4.7000e-003	189.2310
Total	0.1076	0.8365	1.0298	5.2200e-003	0.2934	0.0104	0.3038	0.0809	9.9400e-003	0.0908		547.8311	547.8311	0.0146	0.0580	565.4794

Giant RV Development Project, 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 Rough Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6174	7.0346	4.9769	0.0118		0.2531	0.2531		0.2329	0.2329		1,141.2942	1,141.2942	0.3691		1,150.5222
Total	0.6174	7.0346	4.9769	0.0118	0.5303	0.2531	0.7834	0.0573	0.2329	0.2901		1,141.2942	1,141.2942	0.3691		1,150.5222

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9700e-003	0.1752	0.0643	7.5000e-004	0.0256	2.0800e-003	0.0277	7.3800e-003	1.9900e-003	9.3700e-003		80.0275	80.0275	2.1600e-003	0.0118	83.6107
Worker	0.0212	0.0134	0.2057	5.2000e-004	0.0559	2.9000e-004	0.0562	0.0148	2.7000e-004	0.0151		52.1409	52.1409	1.3600e-003	1.3100e-003	52.5642
Total	0.0281	0.1886	0.2700	1.2700e-003	0.0815	2.3700e-003	0.0839	0.0222	2.2600e-003	0.0245		132.1684	132.1684	3.5200e-003	0.0132	136.1749

Giant RV Development Project, 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					0.2267	0.0000	0.2267	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	0.6174	7.0346	4.9769	0.0118		0.2531	0.2531		0.2329	0.2329	0.0000	1,141.2942	1,141.2942	0.3691		1,150.5222
Total	0.6174	7.0346	4.9769	0.0118	0.2267	0.2531	0.4798	0.0245	0.2329	0.2574	0.0000	1,141.2942	1,141.2942	0.3691		1,150.5222

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9700e-003	0.1752	0.0643	7.5000e-004	0.0240	2.0800e-003	0.0261	6.9800e-003	1.9900e-003	8.9700e-003		80.0275	80.0275	2.1600e-003	0.0118	83.6107
Worker	0.0212	0.0134	0.2057	5.2000e-004	0.0515	2.9000e-004	0.0518	0.0138	2.7000e-004	0.0140		52.1409	52.1409	1.3600e-003	1.3100e-003	52.5642
Total	0.0281	0.1886	0.2700	1.2700e-003	0.0755	2.3700e-003	0.0779	0.0207	2.2600e-003	0.0230		132.1684	132.1684	3.5200e-003	0.0132	136.1749

Giant RV Development Project, 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 (Site Preparation and Grading Overlap) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2739	11.2171	10.4888	0.0188		0.5725	0.5725		0.5435	0.5435		1,763.5814	1,763.5814	0.3562		1,772.4863
Total	1.2739	11.2171	10.4888	0.0188		0.5725	0.5725		0.5435	0.5435		1,763.5814	1,763.5814	0.3562		1,772.4863

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0819	2.0581	0.7553	8.7700e-003	0.3011	0.0245	0.3256	0.0867	0.0234	0.1101		940.3235	940.3235	0.0254	0.1392	982.4262
Worker	0.4996	0.3164	4.8543	0.0122	1.3190	6.9100e-003	1.3259	0.3498	6.3600e-003	0.3562		1,230.5251	1,230.5251	0.0322	0.0308	1,240.5146
Total	0.5815	2.3745	5.6097	0.0209	1.6201	0.0314	1.6515	0.4365	0.0298	0.4663		2,170.8486	2,170.8486	0.0576	0.1700	2,222.9408

Giant RV Development Project, 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	1.2739	11.2171	10.4888	0.0188		0.5725	0.5725		0.5435	0.5435	0.0000	1,763.5813	1,763.5813	0.3562		1,772.4863
Total	1.2739	11.2171	10.4888	0.0188		0.5725	0.5725		0.5435	0.5435	0.0000	1,763.5813	1,763.5813	0.3562		1,772.4863

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0819	2.0581	0.7553	8.7700e-003	0.2818	0.0245	0.3063	0.0820	0.0234	0.1054		940.3235	940.3235	0.0254	0.1392	982.4262
Worker	0.4996	0.3164	4.8543	0.0122	1.2158	6.9100e-003	1.2227	0.3245	6.3600e-003	0.3308		1,230.5251	1,230.5251	0.0322	0.0308	1,240.5146
Total	0.5815	2.3745	5.6097	0.0209	1.4976	0.0314	1.5290	0.4064	0.0298	0.4362		2,170.8486	2,170.8486	0.0576	0.1700	2,222.9408

Giant RV Development Project, 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 Building Construction - 2022

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0819	2.0581	0.7553	8.7700e-003	0.3011	0.0245	0.3256	0.0867	0.0234	0.1101		940.3235	940.3235	0.0254	0.1392	982.4262
Worker	0.4996	0.3164	4.8543	0.0122	1.3190	6.9100e-003	1.3259	0.3498	6.3600e-003	0.3562		1,230.5251	1,230.5251	0.0322	0.0308	1,240.5146
Total	0.5815	2.3745	5.6097	0.0209	1.6201	0.0314	1.6515	0.4365	0.0298	0.4663		2,170.8486	2,170.8486	0.0576	0.1700	2,222.9408

Giant RV Development Project, 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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0819	2.0581	0.7553	8.7700e-003	0.2818	0.0245	0.3063	0.0820	0.0234	0.1054		940.3235	940.3235	0.0254	0.1392	982.4262
Worker	0.4996	0.3164	4.8543	0.0122	1.2158	6.9100e-003	1.2227	0.3245	6.3600e-003	0.3308		1,230.5251	1,230.5251	0.0322	0.0308	1,240.5146
Total	0.5815	2.3745	5.6097	0.0209	1.4976	0.0314	1.5290	0.4064	0.0298	0.4362		2,170.8486	2,170.8486	0.0576	0.1700	2,222.9408

Giant RV Development Project, 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 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079			2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079			2,570.4061

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0550	1.6486	0.6918	8.4100e-003	0.3011	0.0124	0.3135	0.0867	0.0119	0.0986		902.0155	902.0155	0.0236	0.1332	942.2993
Worker	0.4611	0.2782	4.4379	0.0118	1.3190	6.5000e-003	1.3255	0.3498	5.9800e-003	0.3558		1,190.6333	1,190.6333	0.0288	0.0284	1,199.8012
Total	0.5161	1.9268	5.1297	0.0202	1.6201	0.0189	1.6390	0.4365	0.0178	0.4543		2,092.6487	2,092.6487	0.0524	0.1616	2,142.1005

Giant RV Development Project, 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0550	1.6486	0.6918	8.4100e-003	0.2818	0.0124	0.2942	0.0820	0.0119	0.0938		902.0155	902.0155	0.0236	0.1332	942.2993
Worker	0.4611	0.2782	4.4379	0.0118	1.2158	6.5000e-003	1.2223	0.3245	5.9800e-003	0.3304		1,190.6333	1,190.6333	0.0288	0.0284	1,199.8012
Total	0.5161	1.9268	5.1297	0.0202	1.4976	0.0189	1.5165	0.4064	0.0178	0.4243		2,092.6487	2,092.6487	0.0524	0.1616	2,142.1005

Giant RV Development Project, 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 Utilities Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2024	1.7770	3.2551	5.1700e-003		0.0859	0.0859		0.0790	0.0790		500.0153	500.0153	0.1617		504.0582
Total	0.2024	1.7770	3.2551	5.1700e-003		0.0859	0.0859		0.0790	0.0790		500.0153	500.0153	0.1617		504.0582

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0127	8.0400e-003	0.1234	3.1000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.6000e-004	9.0500e-003		31.2845	31.2845	8.2000e-004	7.8000e-004	31.5385
Total	0.0127	8.0400e-003	0.1234	3.1000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.6000e-004	9.0500e-003		31.2845	31.2845	8.2000e-004	7.8000e-004	31.5385

Giant RV Development Project, 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	0.2024	1.7770	3.2551	5.1700e-003		0.0859	0.0859		0.0790	0.0790	0.0000	500.0153	500.0153	0.1617		504.0582
Total	0.2024	1.7770	3.2551	5.1700e-003		0.0859	0.0859		0.0790	0.0790	0.0000	500.0153	500.0153	0.1617		504.0582

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0127	8.0400e-003	0.1234	3.1000e-004	0.0309	1.8000e-004	0.0311	8.2500e-003	1.6000e-004	8.4100e-003		31.2845	31.2845	8.2000e-004	7.8000e-004	31.5385
Total	0.0127	8.0400e-003	0.1234	3.1000e-004	0.0309	1.8000e-004	0.0311	8.2500e-003	1.6000e-004	8.4100e-003		31.2845	31.2845	8.2000e-004	7.8000e-004	31.5385

Giant RV Development Project, 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 Utilities Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1887	1.5486	3.2578	5.1700e-003		0.0758	0.0758		0.0697	0.0697		500.1056	500.1056	0.1617		504.1492
Total	0.1887	1.5486	3.2578	5.1700e-003		0.0758	0.0758		0.0697	0.0697		500.1056	500.1056	0.1617		504.1492

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0117	7.0700e-003	0.1128	3.0000e-004	0.0335	1.7000e-004	0.0337	8.8900e-003	1.5000e-004	9.0500e-003		30.2703	30.2703	7.3000e-004	7.2000e-004	30.5034
Total	0.0117	7.0700e-003	0.1128	3.0000e-004	0.0335	1.7000e-004	0.0337	8.8900e-003	1.5000e-004	9.0500e-003		30.2703	30.2703	7.3000e-004	7.2000e-004	30.5034

Giant RV Development Project, 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	0.1887	1.5486	3.2578	5.1700e-003		0.0758	0.0758		0.0697	0.0697	0.0000	500.1056	500.1056	0.1617		504.1492
Total	0.1887	1.5486	3.2578	5.1700e-003		0.0758	0.0758		0.0697	0.0697	0.0000	500.1056	500.1056	0.1617		504.1492

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0117	7.0700e-003	0.1128	3.0000e-004	0.0309	1.7000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		30.2703	30.2703	7.3000e-004	7.2000e-004	30.5034
Total	0.0117	7.0700e-003	0.1128	3.0000e-004	0.0309	1.7000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		30.2703	30.2703	7.3000e-004	7.2000e-004	30.5034

Giant RV Development Project, 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 Fine Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.2568	13.3288	8.0567	0.0203		0.5475	0.5475		0.5037	0.5037		1,967.9615	1,967.9615	0.6365		1,983.8735
Total	1.2568	13.3288	8.0567	0.0203	7.0826	0.5475	7.6301	3.4247	0.5037	3.9284		1,967.9615	1,967.9615	0.6365		1,983.8735

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0164	0.4911	0.2061	2.5100e-003	0.0897	3.6900e-003	0.0934	0.0258	3.5300e-003	0.0294		268.6855	268.6855	7.0200e-003	0.0397	280.6849
Worker	0.0313	0.0189	0.3009	8.0000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.1000e-004	0.0241		80.7209	80.7209	1.9500e-003	1.9200e-003	81.3425
Total	0.0477	0.5099	0.5069	3.3100e-003	0.1791	4.1300e-003	0.1833	0.0495	3.9400e-003	0.0535		349.4064	349.4064	8.9700e-003	0.0416	362.0274

Giant RV Development Project, 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					3.0278	0.0000	3.0278	1.4641	0.0000	1.4641			0.0000			0.0000
Off-Road	1.2568	13.3288	8.0567	0.0203		0.5475	0.5475		0.5037	0.5037	0.0000	1,967.9615	1,967.9615	0.6365		1,983.8735
Total	1.2568	13.3288	8.0567	0.0203	3.0278	0.5475	3.5753	1.4641	0.5037	1.9678	0.0000	1,967.9615	1,967.9615	0.6365		1,983.8735

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0164	0.4911	0.2061	2.5100e-003	0.0840	3.6900e-003	0.0876	0.0244	3.5300e-003	0.0280		268.6855	268.6855	7.0200e-003	0.0397	280.6849
Worker	0.0313	0.0189	0.3009	8.0000e-004	0.0824	4.4000e-004	0.0829	0.0220	4.1000e-004	0.0224		80.7209	80.7209	1.9500e-003	1.9200e-003	81.3425
Total	0.0477	0.5099	0.5069	3.3100e-003	0.1664	4.1300e-003	0.1705	0.0464	3.9400e-003	0.0504		349.4064	349.4064	8.9700e-003	0.0416	362.0274

Giant RV Development Project, 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 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.2495					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2822	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0586	0.0354	0.5641	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		151.3517	151.3517	3.6600e-003	3.6000e-003	152.5171
Total	0.0586	0.0354	0.5641	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		151.3517	151.3517	3.6600e-003	3.6000e-003	152.5171

Giant RV Development Project, 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.2495					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2822	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0586	0.0354	0.5641	1.5000e-003	0.1546	8.3000e-004	0.1554	0.0413	7.6000e-004	0.0420		151.3517	151.3517	3.6600e-003	3.6000e-003	152.5171
Total	0.0586	0.0354	0.5641	1.5000e-003	0.1546	8.3000e-004	0.1554	0.0413	7.6000e-004	0.0420		151.3517	151.3517	3.6600e-003	3.6000e-003	152.5171

Giant RV Development Project, 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

3.9 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.7989					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	0.9905	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0938	0.0566	0.9026	2.4000e-003	0.2683	1.3200e-003	0.2696	0.0711	1.2200e-003	0.0724		242.1627	242.1627	5.8600e-003	5.7700e-003	244.0274
Total	0.0938	0.0566	0.9026	2.4000e-003	0.2683	1.3200e-003	0.2696	0.0711	1.2200e-003	0.0724		242.1627	242.1627	5.8600e-003	5.7700e-003	244.0274

Giant RV Development Project, 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	0.7989					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	0.9905	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0938	0.0566	0.9026	2.4000e-003	0.2473	1.3200e-003	0.2486	0.0660	1.2200e-003	0.0672		242.1627	242.1627	5.8600e-003	5.7700e-003	244.0274
Total	0.0938	0.0566	0.9026	2.4000e-003	0.2473	1.3200e-003	0.2486	0.0660	1.2200e-003	0.0672		242.1627	242.1627	5.8600e-003	5.7700e-003	244.0274

Giant RV Development Project, 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

3.10 Finishing/Landscaping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1887	1.5486	3.2578	5.1700e-003		0.0758	0.0758		0.0697	0.0697		500.1056	500.1056	0.1617		504.1492
Total	0.1887	1.5486	3.2578	5.1700e-003		0.0758	0.0758		0.0697	0.0697		500.1056	500.1056	0.1617		504.1492

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0117	7.0700e-003	0.1128	3.0000e-004	0.0335	1.7000e-004	0.0337	8.8900e-003	1.5000e-004	9.0500e-003		30.2703	30.2703	7.3000e-004	7.2000e-004	30.5034
Total	0.0117	7.0700e-003	0.1128	3.0000e-004	0.0335	1.7000e-004	0.0337	8.8900e-003	1.5000e-004	9.0500e-003		30.2703	30.2703	7.3000e-004	7.2000e-004	30.5034

Giant RV Development Project, 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	0.1887	1.5486	3.2578	5.1700e-003		0.0758	0.0758		0.0697	0.0697	0.0000	500.1056	500.1056	0.1617		504.1492
Total	0.1887	1.5486	3.2578	5.1700e-003		0.0758	0.0758		0.0697	0.0697	0.0000	500.1056	500.1056	0.1617		504.1492

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0117	7.0700e-003	0.1128	3.0000e-004	0.0309	1.7000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		30.2703	30.2703	7.3000e-004	7.2000e-004	30.5034
Total	0.0117	7.0700e-003	0.1128	3.0000e-004	0.0309	1.7000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		30.2703	30.2703	7.3000e-004	7.2000e-004	30.5034

Giant RV Development Project, 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
Giant RV Development Project, 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
Other Asphalt Surfaces	172.14	1000sqft	3.95	172,136.00	0
Other Non-Asphalt Surfaces	78.46	1000sqft	1.80	78,458.00	0
Parking Lot	10.45	1000sqft	0.24	10,450.00	0
Automobile Care Center	25.94	1000sqft	0.51	25,940.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2023
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	619.5	CH4 Intensity (lb/MW hr)	0.129	N2O Intensity (lb/MW hr)	0.016

1.3 User Entered Comments & Non-Default Data

Project Characteristics - based on Colton Electric Utility 2020 power content label and 2019 eGRID data

Land Use - based on info from client

Construction Phase - based on schedule provided by applicant

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - removed equipment overlapping with rough grading and site prep

Off-road Equipment - Removed equipment overlapping with Building Construction

Off-road Equipment - assumes 1 excavator, based on projects of similar size

Giant RV Development Project, 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

Off-road Equipment -

Off-road Equipment - removed equipment overlapping with Site Prep

Off-road Equipment -

Off-road Equipment - assumes 1 excavator based on projects of similar size

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

Grading -

Architectural Coating - based on 35% exterior an 10% interior coating provided by client

Construction Off-road Equipment Mitigation - South Coast AQMD Rule 403 and Rule 1186

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	12,970.00	1,264.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	38,910.00	13,276.00
tblArchitecturalCoating	ConstArea_Parking	15,663.00	627.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	67.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	230.00	1.00
tblConstructionPhase	NumDays	230.00	195.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	44.00
tblLandUse	LandUseSquareFeet	172,140.00	172,136.00
tblLandUse	LandUseSquareFeet	78,460.00	78,458.00
tblLandUse	LotAcreage	0.60	0.51
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Giant RV Development Project, 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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.129
tblProjectCharacteristics	CO2IntensityFactor	0	619.5
tblProjectCharacteristics	N2OIntensityFactor	0	0.016
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	5.7505	54.9048	41.0761	0.0947	22.2054	2.4825	24.6878	10.7050	2.3021	13.0070	0.0000	9,304.6493	9,304.6493	1.9929	0.2427	9,426.7865
2023	5.9898	43.4334	50.0797	0.1043	9.3512	1.9294	11.2807	4.0353	1.7960	5.8313	0.0000	10,221.6108	10,221.6108	2.2083	0.2151	10,340.9106
Maximum	5.9898	54.9048	50.0797	0.1043	22.2054	2.4825	24.6878	10.7050	2.3021	13.0070	0.0000	10,221.6108	10,221.6108	2.2083	0.2427	10,340.9106

Giant RV Development Project, 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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	5.7505	54.9048	41.0761	0.0947	10.4965	2.4825	12.9790	4.8513	2.3021	7.1534	0.0000	9,304.6493	9,304.6493	1.9929	0.2427	9,426.7865
2023	5.9898	43.4334	50.0797	0.1043	5.1245	1.9294	7.0539	2.0324	1.7960	3.8284	0.0000	10,221.6108	10,221.6108	2.2083	0.2151	10,340.9106
Maximum	5.9898	54.9048	50.0797	0.1043	10.4965	2.4825	12.9790	4.8513	2.3021	7.1534	0.0000	10,221.6108	10,221.6108	2.2083	0.2427	10,340.9106

	ROG	NOx	CO	SO2	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	50.50	0.00	44.30	53.30	0.00	41.71	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	Site Preparation	6/1/2022	9/1/2022	5	67	a
2	Rough Grading	Grading	8/1/2022	9/1/2022	5	24	b
3	Building Construction (Site Preparation and Grading Overlaid)	Building Construction	9/1/2022	9/1/2022	5	1	c
4	Building Construction	Building Construction	9/2/2022	6/1/2023	5	195	d
5	Utilities Trenching	Trenching	11/1/2022	3/1/2023	5	87	e
6	Fine Grading	Grading	4/1/2023	6/1/2023	5	44	f
7	Paving	Paving	4/1/2023	6/1/2023	5	44	g
8	Architectural Coating	Architectural Coating	4/1/2023	6/1/2023	5	44	h
9	Finishing/Landscaping	Trenching	5/1/2023	6/1/2023	5	24	i

Giant RV Development Project, 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

Acres of Grading (Site Preparation Phase): 100.5

Acres of Grading (Grading Phase): 12

Acres of Paving: 5.99

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 13,276; Non-Residential Outdoor: 1,264; Striped Parking Area: 627

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	1	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction (Site Preparation and Grading Overlap)	Cranes	1	7.00	231	0.29
Building Construction (Site Preparation and Grading Overlap)	Forklifts	3	8.00	89	0.20
Building Construction (Site Preparation and Grading Overlap)	Generator Sets	1	8.00	84	0.74
Building Construction (Site Preparation and Grading Overlap)	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction (Site Preparation and Grading Overlap)	Welders	1	8.00	46	0.45
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
Utilities Trenching	Excavators	1	8.00	158	0.38
Fine Grading	Excavators	1	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

Giant RV Development Project, 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

Fine Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Finishing/Landscaping	Excavators	1	8.00	158	0.38

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	2	5.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	118.00	47.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
(Site Preparation and Building Construction	9	118.00	47.00	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	3	8.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	24.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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

**Giant RV Development Project, 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 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	19.6570	1.6126	21.2696	10.1025	1.4836	11.5860		3,686.0619	3,686.0619	1.1922		3,715.8655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0301	0.8275	0.2995	3.3600e-003	0.1153	9.4100e-003	0.1247	0.0332	9.0000e-003	0.0422		360.5211	360.5211	9.6700e-003	0.0534	376.6716
Worker	0.0732	0.0508	0.6083	1.6800e-003	0.2012	1.0500e-003	0.2023	0.0534	9.7000e-004	0.0543		170.0061	170.0061	4.9000e-003	4.8500e-003	171.5751
Total	0.1034	0.8782	0.9077	5.0400e-003	0.3165	0.0105	0.3270	0.0866	9.9700e-003	0.0965		530.5272	530.5272	0.0146	0.0582	548.2467

**Giant RV Development Project, 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					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	8.4034	1.6126	10.0159	4.3188	1.4836	5.8024	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0301	0.8275	0.2995	3.3600e-003	0.1079	9.4100e-003	0.1173	0.0314	9.0000e-003	0.0404		360.5211	360.5211	9.6700e-003	0.0534	376.6716
Worker	0.0732	0.0508	0.6083	1.6800e-003	0.1855	1.0500e-003	0.1865	0.0495	9.7000e-004	0.0505		170.0061	170.0061	4.9000e-003	4.8500e-003	171.5751
Total	0.1034	0.8782	0.9077	5.0400e-003	0.2934	0.0105	0.3039	0.0809	9.9700e-003	0.0909		530.5272	530.5272	0.0146	0.0582	548.2467

Giant RV Development Project, 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 Rough Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6174	7.0346	4.9769	0.0118		0.2531	0.2531		0.2329	0.2329		1,141.2942	1,141.2942	0.3691		1,150.5222
Total	0.6174	7.0346	4.9769	0.0118	0.5303	0.2531	0.7834	0.0573	0.2329	0.2901		1,141.2942	1,141.2942	0.3691		1,150.5222

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7000e-003	0.1839	0.0666	7.5000e-004	0.0256	2.0900e-003	0.0277	7.3800e-003	2.0000e-003	9.3800e-003		80.1158	80.1158	2.1500e-003	0.0119	83.7048
Worker	0.0203	0.0141	0.1690	4.7000e-004	0.0559	2.9000e-004	0.0562	0.0148	2.7000e-004	0.0151		47.2239	47.2239	1.3600e-003	1.3500e-003	47.6597
Total	0.0270	0.1980	0.2355	1.2200e-003	0.0815	2.3800e-003	0.0839	0.0222	2.2700e-003	0.0245		127.3397	127.3397	3.5100e-003	0.0132	131.3645

**Giant RV Development Project, 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					0.2267	0.0000	0.2267	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	0.6174	7.0346	4.9769	0.0118		0.2531	0.2531		0.2329	0.2329	0.0000	1,141.2942	1,141.2942	0.3691		1,150.5222
Total	0.6174	7.0346	4.9769	0.0118	0.2267	0.2531	0.4798	0.0245	0.2329	0.2574	0.0000	1,141.2942	1,141.2942	0.3691		1,150.5222

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7000e-003	0.1839	0.0666	7.5000e-004	0.0240	2.0900e-003	0.0261	6.9800e-003	2.0000e-003	8.9800e-003		80.1158	80.1158	2.1500e-003	0.0119	83.7048
Worker	0.0203	0.0141	0.1690	4.7000e-004	0.0515	2.9000e-004	0.0518	0.0138	2.7000e-004	0.0140		47.2239	47.2239	1.3600e-003	1.3500e-003	47.6597
Total	0.0270	0.1980	0.2355	1.2200e-003	0.0755	2.3800e-003	0.0779	0.0207	2.2700e-003	0.0230		127.3397	127.3397	3.5100e-003	0.0132	131.3645

Giant RV Development Project, 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 (Site Preparation and Grading Overlap) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2739	11.2171	10.4888	0.0188		0.5725	0.5725		0.5435	0.5435		1,763.5814	1,763.5814	0.3562		1,772.4863
Total	1.2739	11.2171	10.4888	0.0188		0.5725	0.5725		0.5435	0.5435		1,763.5814	1,763.5814	0.3562		1,772.4863

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0787	2.1606	0.7819	8.7800e-003	0.3011	0.0246	0.3257	0.0867	0.0235	0.1102		941.3607	941.3607	0.0253	0.1394	983.5314
Worker	0.4799	0.3328	3.9875	0.0110	1.3190	6.9100e-003	1.3259	0.3498	6.3600e-003	0.3562		1,114.4843	1,114.4843	0.0321	0.0318	1,124.7699
Total	0.5586	2.4934	4.7694	0.0198	1.6201	0.0315	1.6516	0.4365	0.0299	0.4664		2,055.8450	2,055.8450	0.0574	0.1712	2,108.3013

Giant RV Development Project, 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	1.2739	11.2171	10.4888	0.0188		0.5725	0.5725		0.5435	0.5435	0.0000	1,763.5813	1,763.5813	0.3562		1,772.4863
Total	1.2739	11.2171	10.4888	0.0188		0.5725	0.5725		0.5435	0.5435	0.0000	1,763.5813	1,763.5813	0.3562		1,772.4863

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0787	2.1606	0.7819	8.7800e-003	0.2818	0.0246	0.3064	0.0820	0.0235	0.1055		941.3607	941.3607	0.0253	0.1394	983.5314
Worker	0.4799	0.3328	3.9875	0.0110	1.2158	6.9100e-003	1.2227	0.3245	6.3600e-003	0.3308		1,114.4843	1,114.4843	0.0321	0.0318	1,124.7699
Total	0.5586	2.4934	4.7694	0.0198	1.4976	0.0315	1.5291	0.4064	0.0299	0.4363		2,055.8450	2,055.8450	0.0574	0.1712	2,108.3013

Giant RV Development Project, 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 Building Construction - 2022

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0787	2.1606	0.7819	8.7800e-003	0.3011	0.0246	0.3257	0.0867	0.0235	0.1102		941.3607	941.3607	0.0253	0.1394	983.5314
Worker	0.4799	0.3328	3.9875	0.0110	1.3190	6.9100e-003	1.3259	0.3498	6.3600e-003	0.3562		1,114.4843	1,114.4843	0.0321	0.0318	1,124.7699
Total	0.5586	2.4934	4.7694	0.0198	1.6201	0.0315	1.6516	0.4365	0.0299	0.4664		2,055.8450	2,055.8450	0.0574	0.1712	2,108.3013

Giant RV Development Project, 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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0787	2.1606	0.7819	8.7800e-003	0.2818	0.0246	0.3064	0.0820	0.0235	0.1055		941.3607	941.3607	0.0253	0.1394	983.5314
Worker	0.4799	0.3328	3.9875	0.0110	1.2158	6.9100e-003	1.2227	0.3245	6.3600e-003	0.3308		1,114.4843	1,114.4843	0.0321	0.0318	1,124.7699
Total	0.5586	2.4934	4.7694	0.0198	1.4976	0.0315	1.5291	0.4064	0.0299	0.4363		2,055.8450	2,055.8450	0.0574	0.1712	2,108.3013

Giant RV Development Project, 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 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079			2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079			2,570.4061

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0512	1.7413	0.7131	8.4300e-003	0.3011	0.0124	0.3136	0.0867	0.0119	0.0986		904.2029	904.2029	0.0234	0.1336	944.6054
Worker	0.4442	0.2925	3.6527	0.0107	1.3190	6.5000e-003	1.3255	0.3498	5.9800e-003	0.3558		1,078.6897	1,078.6897	0.0288	0.0293	1,088.1300
Total	0.4954	2.0338	4.3658	0.0191	1.6201	0.0189	1.6390	0.4365	0.0179	0.4544		1,982.8926	1,982.8926	0.0522	0.1629	2,032.7354

Giant RV Development Project, 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0512	1.7413	0.7131	8.4300e-003	0.2818	0.0124	0.2943	0.0820	0.0119	0.0939		904.2029	904.2029	0.0234	0.1336	944.6054
Worker	0.4442	0.2925	3.6527	0.0107	1.2158	6.5000e-003	1.2223	0.3245	5.9800e-003	0.3304		1,078.6897	1,078.6897	0.0288	0.0293	1,088.1300
Total	0.4954	2.0338	4.3658	0.0191	1.4976	0.0189	1.5165	0.4064	0.0179	0.4243		1,982.8926	1,982.8926	0.0522	0.1629	2,032.7354

Giant RV Development Project, 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 Utilities Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2024	1.7770	3.2551	5.1700e-003		0.0859	0.0859		0.0790	0.0790		500.0153	500.0153	0.1617		504.0582
Total	0.2024	1.7770	3.2551	5.1700e-003		0.0859	0.0859		0.0790	0.0790		500.0153	500.0153	0.1617		504.0582

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0122	8.4600e-003	0.1014	2.8000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.6000e-004	9.0500e-003		28.3344	28.3344	8.2000e-004	8.1000e-004	28.5958
Total	0.0122	8.4600e-003	0.1014	2.8000e-004	0.0335	1.8000e-004	0.0337	8.8900e-003	1.6000e-004	9.0500e-003		28.3344	28.3344	8.2000e-004	8.1000e-004	28.5958

Giant RV Development Project, 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	0.2024	1.7770	3.2551	5.1700e-003		0.0859	0.0859		0.0790	0.0790	0.0000	500.0153	500.0153	0.1617		504.0582
Total	0.2024	1.7770	3.2551	5.1700e-003		0.0859	0.0859		0.0790	0.0790	0.0000	500.0153	500.0153	0.1617		504.0582

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0122	8.4600e-003	0.1014	2.8000e-004	0.0309	1.8000e-004	0.0311	8.2500e-003	1.6000e-004	8.4100e-003		28.3344	28.3344	8.2000e-004	8.1000e-004	28.5958
Total	0.0122	8.4600e-003	0.1014	2.8000e-004	0.0309	1.8000e-004	0.0311	8.2500e-003	1.6000e-004	8.4100e-003		28.3344	28.3344	8.2000e-004	8.1000e-004	28.5958

Giant RV Development Project, 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 Utilities Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1887	1.5486	3.2578	5.1700e-003		0.0758	0.0758		0.0697	0.0697		500.1056	500.1056	0.1617		504.1492
Total	0.1887	1.5486	3.2578	5.1700e-003		0.0758	0.0758		0.0697	0.0697		500.1056	500.1056	0.1617		504.1492

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0113	7.4400e-003	0.0929	2.7000e-004	0.0335	1.7000e-004	0.0337	8.8900e-003	1.5000e-004	9.0500e-003		27.4243	27.4243	7.3000e-004	7.4000e-004	27.6643
Total	0.0113	7.4400e-003	0.0929	2.7000e-004	0.0335	1.7000e-004	0.0337	8.8900e-003	1.5000e-004	9.0500e-003		27.4243	27.4243	7.3000e-004	7.4000e-004	27.6643

Giant RV Development Project, 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	0.1887	1.5486	3.2578	5.1700e-003		0.0758	0.0758		0.0697	0.0697	0.0000	500.1056	500.1056	0.1617		504.1492
Total	0.1887	1.5486	3.2578	5.1700e-003		0.0758	0.0758		0.0697	0.0697	0.0000	500.1056	500.1056	0.1617		504.1492

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0113	7.4400e-003	0.0929	2.7000e-004	0.0309	1.7000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		27.4243	27.4243	7.3000e-004	7.4000e-004	27.6643
Total	0.0113	7.4400e-003	0.0929	2.7000e-004	0.0309	1.7000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		27.4243	27.4243	7.3000e-004	7.4000e-004	27.6643

Giant RV Development Project, 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 Fine Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.2568	13.3288	8.0567	0.0203		0.5475	0.5475		0.5037	0.5037		1,967.9615	1,967.9615	0.6365		1,983.8735
Total	1.2568	13.3288	8.0567	0.0203	7.0826	0.5475	7.6301	3.4247	0.5037	3.9284		1,967.9615	1,967.9615	0.6365		1,983.8735

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0153	0.5187	0.2124	2.5100e-003	0.0897	3.7100e-003	0.0934	0.0258	3.5400e-003	0.0294		269.3370	269.3370	6.9700e-003	0.0398	281.3718
Worker	0.0301	0.0198	0.2476	7.2000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.1000e-004	0.0241		73.1315	73.1315	1.9500e-003	1.9800e-003	73.7715
Total	0.0454	0.5385	0.4601	3.2300e-003	0.1791	4.1500e-003	0.1833	0.0495	3.9500e-003	0.0535		342.4685	342.4685	8.9200e-003	0.0418	355.1434

**Giant RV Development Project, 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					3.0278	0.0000	3.0278	1.4641	0.0000	1.4641			0.0000			0.0000
Off-Road	1.2568	13.3288	8.0567	0.0203		0.5475	0.5475		0.5037	0.5037	0.0000	1,967.9615	1,967.9615	0.6365		1,983.8735
Total	1.2568	13.3288	8.0567	0.0203	3.0278	0.5475	3.5753	1.4641	0.5037	1.9678	0.0000	1,967.9615	1,967.9615	0.6365		1,983.8735

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0153	0.5187	0.2124	2.5100e-003	0.0840	3.7100e-003	0.0877	0.0244	3.5400e-003	0.0280		269.3370	269.3370	6.9700e-003	0.0398	281.3718
Worker	0.0301	0.0198	0.2476	7.2000e-004	0.0824	4.4000e-004	0.0829	0.0220	4.1000e-004	0.0224		73.1315	73.1315	1.9500e-003	1.9800e-003	73.7715
Total	0.0454	0.5385	0.4601	3.2300e-003	0.1664	4.1500e-003	0.1705	0.0464	3.9500e-003	0.0504		342.4685	342.4685	8.9200e-003	0.0418	355.1434

Giant RV Development Project, 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 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.2495					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2822	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0565	0.0372	0.4643	1.3600e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		137.1216	137.1216	3.6600e-003	3.7200e-003	138.3216
Total	0.0565	0.0372	0.4643	1.3600e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		137.1216	137.1216	3.6600e-003	3.7200e-003	138.3216

**Giant RV Development Project, 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.2495					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2822	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0565	0.0372	0.4643	1.3600e-003	0.1546	8.3000e-004	0.1554	0.0413	7.6000e-004	0.0420		137.1216	137.1216	3.6600e-003	3.7200e-003	138.3216
Total	0.0565	0.0372	0.4643	1.3600e-003	0.1546	8.3000e-004	0.1554	0.0413	7.6000e-004	0.0420		137.1216	137.1216	3.6600e-003	3.7200e-003	138.3216

Giant RV Development Project, 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

3.9 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.7989					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	0.9905	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0903	0.0595	0.7429	2.1700e-003	0.2683	1.3200e-003	0.2696	0.0711	1.2200e-003	0.0724		219.3945	219.3945	5.8600e-003	5.9500e-003	221.3146
Total	0.0903	0.0595	0.7429	2.1700e-003	0.2683	1.3200e-003	0.2696	0.0711	1.2200e-003	0.0724		219.3945	219.3945	5.8600e-003	5.9500e-003	221.3146

**Giant RV Development Project, 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	0.7989					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	0.9905	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0903	0.0595	0.7429	2.1700e-003	0.2473	1.3200e-003	0.2486	0.0660	1.2200e-003	0.0672		219.3945	219.3945	5.8600e-003	5.9500e-003	221.3146
Total	0.0903	0.0595	0.7429	2.1700e-003	0.2473	1.3200e-003	0.2486	0.0660	1.2200e-003	0.0672		219.3945	219.3945	5.8600e-003	5.9500e-003	221.3146

Giant RV Development Project, 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

3.10 Finishing/Landscaping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1887	1.5486	3.2578	5.1700e-003		0.0758	0.0758		0.0697	0.0697		500.1056	500.1056	0.1617		504.1492
Total	0.1887	1.5486	3.2578	5.1700e-003		0.0758	0.0758		0.0697	0.0697		500.1056	500.1056	0.1617		504.1492

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0113	7.4400e-003	0.0929	2.7000e-004	0.0335	1.7000e-004	0.0337	8.8900e-003	1.5000e-004	9.0500e-003		27.4243	27.4243	7.3000e-004	7.4000e-004	27.6643
Total	0.0113	7.4400e-003	0.0929	2.7000e-004	0.0335	1.7000e-004	0.0337	8.8900e-003	1.5000e-004	9.0500e-003		27.4243	27.4243	7.3000e-004	7.4000e-004	27.6643

Giant RV Development Project, 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	0.1887	1.5486	3.2578	5.1700e-003		0.0758	0.0758		0.0697	0.0697	0.0000	500.1056	500.1056	0.1617		504.1492
Total	0.1887	1.5486	3.2578	5.1700e-003		0.0758	0.0758		0.0697	0.0697	0.0000	500.1056	500.1056	0.1617		504.1492

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.0113	7.4400e-003	0.0929	2.7000e-004	0.0309	1.7000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		27.4243	27.4243	7.3000e-004	7.4000e-004	27.6643
Total	0.0113	7.4400e-003	0.0929	2.7000e-004	0.0309	1.7000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		27.4243	27.4243	7.3000e-004	7.4000e-004	27.6643

CalEEMod Operations Model

Giant RV Development 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 Applied

Giant RV Development 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
Other Asphalt Surfaces	172.14	1000sqft	3.95	172,140.00	0
Other Non-Asphalt Surfaces	78.46	1000sqft	1.80	78,460.00	0
Parking Lot	10.45	1000sqft	0.24	10,450.00	0
Automobile Care Center	25.94	1000sqft	0.51	25,940.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2023
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	608.12	CH4 Intensity (lb/MWhr)	0.074	N2O Intensity (lb/MWhr)	0.009

1.3 User Entered Comments & Non-Default Data

Project Characteristics - based on Colton Electric Utility 2020 power content label and 2019 eGRID data

Land Use - based on information from applicant

Construction Phase -

Vehicle Trips - Based on information from client. Proposed operations would occur from Monday through Thursday only.

Area Coating - South Coast AQMD Rule 1113, based on architectural coating information provided by the client

Water And Wastewater - see USS section for water assumptions. Assumes 100% aerobic treatment.

Water Mitigation -

Operational Off-Road Equipment - assumes 1 air compressor for paint booth use

Fleet Mix - adjusted fleet mix based on 31 passenger car trips to project site and 40 truck trips per day to deliver 5-10 RVs

Giant RV Development 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 Applied

Stationary Sources - User Defined -

Solid Waste - see Utilities and Service System for solid waste calculations

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_Nonresidential_Exterior	12970	1297
tblAreaCoating	Area_Nonresidential_Interior	38910	13619
tblAreaCoating	Area_Parking	15663	627
tblFleetMix	HHD	0.02	0.17
tblFleetMix	LDA	0.54	0.29
tblFleetMix	LDT1	0.06	0.03
tblFleetMix	LDT2	0.17	0.09
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.1960e-003	0.00
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MDV	0.14	0.28
tblFleetMix	MH	5.0710e-003	0.00
tblFleetMix	MHD	0.01	0.11
tblFleetMix	OBUS	5.5900e-004	0.00
tblFleetMix	SBUS	9.5400e-004	0.00
tblFleetMix	UBUS	2.5400e-004	0.00
tblLandUse	LotAcreage	0.60	0.51
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.074
tblProjectCharacteristics	CO2IntensityFactor	0	608.12
tblProjectCharacteristics	N2OIntensityFactor	0	0.009
tblSolidWaste	SolidWasteGenerationRate	99.09	39.24
tblVehicleTrips	DV_TP	51.00	0.00
tblVehicleTrips	PB_TP	28.00	0.00

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

tblVehicleTrips	PR_TP	21.00	100.00
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	WD_TR	23.72	2.74
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	2,440,463.93	2,438,930.00
tblWater	OutdoorWaterUseRate	1,495,768.21	621,960.00
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	0.1128	3.0000e-005	3.6600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1200e-003	7.1200e-003	2.0000e-005	0.0000	7.5900e-003
Energy	4.5200e-003	0.0411	0.0345	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003	0.0000	116.7420	116.7420	9.6200e-003	1.8900e-003	117.5445
Mobile	0.0327	0.1664	0.3528	1.2400e-003	0.0786	1.4600e-003	0.0801	0.0213	1.3900e-003	0.0227	0.0000	118.3326	118.3326	5.5700e-003	0.0124	122.1786
Offroad	0.0332	0.2259	0.3139	5.2000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	44.2564	44.2564	2.6500e-003	0.0000	44.3225
Waste						0.0000	0.0000		0.0000	0.0000	7.9654	0.0000	7.9654	0.4707	0.0000	19.7339
Water						0.0000	0.0000		0.0000	0.0000	0.8629	10.6659	11.5288	4.2700e-003	2.0300e-003	12.2418
Total	0.1833	0.4334	0.7049	2.0100e-003	0.0786	0.0169	0.0955	0.0213	0.0168	0.0381	8.8283	290.0040	298.8323	0.4929	0.0164	316.0288

**Giant RV Development 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 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	0.1128	3.0000e-005	3.6600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1200e-003	7.1200e-003	2.0000e-005	0.0000	7.5900e-003
Energy	4.5200e-003	0.0411	0.0345	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003	0.0000	116.7420	116.7420	9.6200e-003	1.8900e-003	117.5445
Mobile	0.0327	0.1664	0.3528	1.2400e-003	0.0786	1.4600e-003	0.0801	0.0213	1.3900e-003	0.0227	0.0000	118.3326	118.3326	5.5700e-003	0.0124	122.1786
Offroad	0.0332	0.2259	0.3139	5.2000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	44.2564	44.2564	2.6500e-003	0.0000	44.3225
Waste						0.0000	0.0000		0.0000	0.0000	7.9654	0.0000	7.9654	0.4707	0.0000	19.7339
Water						0.0000	0.0000		0.0000	0.0000	0.8629	10.6659	11.5288	4.2700e-003	2.0300e-003	12.2418
Total	0.1833	0.4334	0.7049	2.0100e-003	0.0786	0.0169	0.0955	0.0213	0.0168	0.0381	8.8283	290.0040	298.8323	0.4929	0.0164	316.0288

	ROG	NOx	CO	SO2	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	0.0327	0.1664	0.3528	1.2400e-003	0.0786	1.4600e-003	0.0801	0.0213	1.3900e-003	0.0227	0.0000	118.3326	118.3326	5.5700e-003	0.0124	122.1786
Unmitigated	0.0327	0.1664	0.3528	1.2400e-003	0.0786	1.4600e-003	0.0801	0.0213	1.3900e-003	0.0227	0.0000	118.3326	118.3326	5.5700e-003	0.0124	122.1786

Giant RV Development 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 Applied

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Automobile Care Center	71.08	0.00	0.00	199,968	199,968
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	71.08	0.00	0.00	199,968	199,968

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
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	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
Automobile Care Center	0.285391	0.029834	0.091896	0.281690	0.000000	0.000000	0.106715	0.174975	0.000000	0.000000	0.029499	0.000000	0.000000
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Other Non-Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Parking Lot	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

**Giant RV Development Project, Operational Run - San Bernardino-South Coast County, Annual
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	71.9890	71.9890	8.7600e-003	1.0700e-003	72.5255
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	71.9890	71.9890	8.7600e-003	1.0700e-003	72.5255
NaturalGas Mitigated	4.5200e-003	0.0411	0.0345	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003	0.0000	44.7530	44.7530	8.6000e-004	8.2000e-004	45.0190
NaturalGas Unmitigated	4.5200e-003	0.0411	0.0345	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003	0.0000	44.7530	44.7530	8.6000e-004	8.2000e-004	45.0190

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					
Automobile Care Center	838640	4.5200e-003	0.0411	0.0345	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003	0.0000	44.7530	44.7530	8.6000e-004	8.2000e-004	45.0190
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		4.5200e-003	0.0411	0.0345	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003	0.0000	44.7530	44.7530	8.6000e-004	8.2000e-004	45.0190

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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					
Automobile Care Center	838640	4.5200e-003	0.0411	0.0345	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003	0.0000	44.7530	44.7530	8.6000e-004	8.2000e-004	45.0190
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		4.5200e-003	0.0411	0.0345	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003	0.0000	44.7530	44.7530	8.6000e-004	8.2000e-004	45.0190

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	257325	70.9801	8.6400e-003	1.0500e-003	71.5091
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	3657.5	1.0089	1.2000e-004	1.0000e-005	1.0164
Total		71.9890	8.7600e-003	1.0600e-003	72.5255

**Giant RV Development Project, Operational Run - San Bernardino-South Coast County, Annual
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Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	257325	70.9801	8.6400e-003	1.0500e-003	71.5091
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	3657.5	1.0089	1.2000e-004	1.0000e-005	1.0164
Total		71.9890	8.7600e-003	1.0600e-003	72.5255

6.0 Area Detail

6.1 Mitigation Measures Area

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Mitigated	0.1128	3.0000e-005	3.6600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1200e-003	7.1200e-003	2.0000e-005	0.0000	7.5900e-003
Unmitigated	0.1128	3.0000e-005	3.6600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1200e-003	7.1200e-003	2.0000e-005	0.0000	7.5900e-003

Giant RV Development Project, Operational Run - San Bernardino-South Coast County, Annual

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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	1.8700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1106					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.6600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1200e-003	7.1200e-003	2.0000e-005	0.0000	7.5900e-003
Total	0.1128	3.0000e-005	3.6600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1200e-003	7.1200e-003	2.0000e-005	0.0000	7.5900e-003

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	1.8700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1106					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.6600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1200e-003	7.1200e-003	2.0000e-005	0.0000	7.5900e-003
Total	0.1128	3.0000e-005	3.6600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.1200e-003	7.1200e-003	2.0000e-005	0.0000	7.5900e-003

Giant RV Development 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 Applied

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	11.5288	4.2700e-003	2.0300e-003	12.2418
Unmitigated	11.5288	4.2700e-003	2.0300e-003	12.2418

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	2.43893 / 0.62196	11.5288	4.2700e-003	2.0300e-003	12.2418
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		11.5288	4.2700e-003	2.0300e-003	12.2418

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

Giant RV Development 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 Applied

Automobile Care Center	2.43893 / 0.62196	11.5288	4.2700e-003	2.0300e-003	12.2418
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		11.5288	4.2700e-003	2.0300e-003	12.2418

Giant RV Development 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 Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.9654	0.4707	0.0000	19.7339
Unmitigated	7.9654	0.4707	0.0000	19.7339

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	39.24	7.9654	0.4707	0.0000	19.7339
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		7.9654	0.4707	0.0000	19.7339

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Mitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
		MT/yr			
Automobile Care Center	39.24	7.9654	0.4707	0.0000	19.7339
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		7.9654	0.4707	0.0000	19.7339

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Air Compressors	1	8.00	260	78	0.48	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
	tons/yr										MT/yr					
Air Compressors	0.0332	0.2259	0.3139	5.2000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	44.2564	44.2564	2.6500e-003	0.0000	44.3225
Total	0.0332	0.2259	0.3139	5.2000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	44.2564	44.2564	2.6500e-003	0.0000	44.3225

Giant RV Development 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 Applied

**Giant RV Development 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
Other Asphalt Surfaces	172.14	1000sqft	3.95	172,140.00	0
Other Non-Asphalt Surfaces	78.46	1000sqft	1.80	78,460.00	0
Parking Lot	10.45	1000sqft	0.24	10,450.00	0
Automobile Care Center	25.94	1000sqft	0.51	25,940.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2023
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	608.12	CH4 Intensity (lb/MW hr)	0.074	N2O Intensity (lb/MW hr)	0.009

1.3 User Entered Comments & Non-Default Data

Project Characteristics - based on Colton Electric Utility 2020 power content label and 2019 eGRID data

Land Use - based on information from applicant

Construction Phase -

Vehicle Trips - Based on information from client. Proposed operations would occur from Monday through Thursday only.

Area Coating - South Coast AQMD Rule 1113, based on architectural coating information provided by the client

Water And Wastewater - see USS section for water assumptions. Assumes 100% aerobic treatment.

Water Mitigation -

Operational Off-Road Equipment - assumes 1 air compressor for paint booth use

Giant RV Development 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 Applied

Fleet Mix - adjusted fleet mix based on 31 passenger car trips to project site and 40 truck trips per day to deliver 5-10 RVs

Stationary Sources - User Defined -

Solid Waste - see Utilities and Service System for solid waste calculations

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_Nonresidential_Exterior	12970	1297
tblAreaCoating	Area_Nonresidential_Interior	38910	13619
tblAreaCoating	Area_Parking	15663	627
tblFleetMix	HHD	0.02	0.17
tblFleetMix	LDA	0.54	0.29
tblFleetMix	LDT1	0.06	0.03
tblFleetMix	LDT2	0.17	0.09
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.1960e-003	0.00
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MDV	0.14	0.28
tblFleetMix	MH	5.0710e-003	0.00
tblFleetMix	MHD	0.01	0.11
tblFleetMix	OBUS	5.5900e-004	0.00
tblFleetMix	SBUS	9.5400e-004	0.00
tblFleetMix	UBUS	2.5400e-004	0.00
tblLandUse	LotAcreage	0.60	0.51
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.074
tblProjectCharacteristics	CO2IntensityFactor	0	608.12
tblProjectCharacteristics	N2OIntensityFactor	0	0.009
tblSolidWaste	SolidWasteGenerationRate	99.09	39.24

Giant RV Development 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 Applied

tblVehicleTrips	DV_TP	51.00	0.00
tblVehicleTrips	PB_TP	28.00	0.00
tblVehicleTrips	PR_TP	21.00	100.00
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	WD_TR	23.72	2.74
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	2,440,463.93	2,438,930.00
tblWater	OutdoorWaterUseRate	1,495,768.21	621,960.00
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	0.6191	2.7000e-004	0.0293	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0628	0.0628	1.6000e-004		0.0669
Energy	0.0248	0.2253	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171		270.3111	270.3111	5.1800e-003	4.9600e-003	271.9174
Mobile	0.2827	1.2049	2.8848	9.7900e-003	0.6160	0.0112	0.6272	0.1669	0.0107	0.1776		1,032.3359	1,032.3359	0.0464	0.1045	1,064.6250
Offroad	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
Total	1.1821	3.1677	5.5181	0.0151	0.6160	0.1229	0.7389	0.1669	0.1223	0.2892	0.0000	1,677.9739	1,677.9739	0.0742	0.1094	1,712.4347

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

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6191	2.7000e-004	0.0293	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0628	0.0628	1.6000e-004		0.0669
Energy	0.0248	0.2253	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171		270.3111	270.3111	5.1800e-003	4.9600e-003	271.9174
Mobile	0.2827	1.2049	2.8848	9.7900e-003	0.6160	0.0112	0.6272	0.1669	0.0107	0.1776		1,032.3359	1,032.3359	0.0464	0.1045	1,064.6250
Offroad	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
Total	1.1821	3.1677	5.5181	0.0151	0.6160	0.1229	0.7389	0.1669	0.1223	0.2892	0.0000	1,677.9739	1,677.9739	0.0742	0.1094	1,712.4347

	ROG	NOx	CO	SO2	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	0.2827	1.2049	2.8848	9.7900e-003	0.6160	0.0112	0.6272	0.1669	0.0107	0.1776		1,032.3359	1,032.3359	0.0464	0.1045	1,064.6250
Unmitigated	0.2827	1.2049	2.8848	9.7900e-003	0.6160	0.0112	0.6272	0.1669	0.0107	0.1776		1,032.3359	1,032.3359	0.0464	0.1045	1,064.6250

Giant RV Development 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 Applied

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	71.08	0.00	0.00	199,968	199,968
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	71.08	0.00	0.00	199,968	199,968

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
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	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
Automobile Care Center	0.285391	0.029834	0.091896	0.281690	0.000000	0.000000	0.106715	0.174975	0.000000	0.000000	0.029499	0.000000	0.000000
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Other Non-Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Parking Lot	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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					
Natural Gas Mitigated	0.0248	0.2253	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171		270.3111	270.3111	5.1800e-003	4.9600e-003	271.9174
Natural Gas Unmitigated	0.0248	0.2253	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171		270.3111	270.3111	5.1800e-003	4.9600e-003	271.9174

Giant RV Development 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 Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	2297.64	0.0248	0.2253	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171		270.3111	270.3111	5.1800e-003	4.9600e-003	271.9174
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		0.0248	0.2253	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171		270.3111	270.3111	5.1800e-003	4.9600e-003	271.9174

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					
Automobile Care Center	2.29764	0.0248	0.2253	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171		270.3111	270.3111	5.1800e-003	4.9600e-003	271.9174
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		0.0248	0.2253	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171		270.3111	270.3111	5.1800e-003	4.9600e-003	271.9174

Giant RV Development 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 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	0.6191	2.7000e-004	0.0293	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0628	0.0628	1.6000e-004		0.0669
Unmitigated	0.6191	2.7000e-004	0.0293	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0628	0.0628	1.6000e-004		0.0669

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	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6061					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.7100e-003	2.7000e-004	0.0293	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0628	0.0628	1.6000e-004		0.0669
Total	0.6191	2.7000e-004	0.0293	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0628	0.0628	1.6000e-004		0.0669

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	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6061					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.7100e-003	2.7000e-004	0.0293	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0628	0.0628	1.6000e-004		0.0669
Total	0.6191	2.7000e-004	0.0293	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0628	0.0628	1.6000e-004		0.0669

Giant RV Development 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 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
Air Compressors	1	8.00	260	78	0.48	Diesel

UnMitigated/Mitigated

Equipment Type	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10 Total	Fugitive	Exhaust	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Air Compressors	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
Total	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253

Giant RV Development 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 Applied

Giant RV Development 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
Other Asphalt Surfaces	172.14	1000sqft	3.95	172,140.00	0
Other Non-Asphalt Surfaces	78.46	1000sqft	1.80	78,460.00	0
Parking Lot	10.45	1000sqft	0.24	10,450.00	0
Automobile Care Center	25.94	1000sqft	0.51	25,940.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2023
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	608.12	CH4 Intensity (lb/MW hr)	0.074	N2O Intensity (lb/MW hr)	0.009

1.3 User Entered Comments & Non-Default Data

Project Characteristics - based on Colton Electric Utility 2020 power content label and 2019 eGRID data

Land Use - based on information from applicant

Construction Phase -

Vehicle Trips - Based on information from client. Proposed operations would occur from Monday through Thursday only.

Area Coating - South Coast AQMD Rule 1113, based on architectural coating information provided by the client

Water And Wastewater - see USS section for water assumptions. Assumes 100% aerobic treatment.

Water Mitigation -

Operational Off-Road Equipment - assumes 1 air compressor for paint booth use

Giant RV Development 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 Applied

Fleet Mix - adjusted fleet mix based on 31 passenger car trips to project site and 40 truck trips per day to deliver 5-10 RVs

Stationary Sources - User Defined -

Solid Waste - see Utilities and Service System for solid waste calculations

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_Nonresidential_Exterior	12970	1297
tblAreaCoating	Area_Nonresidential_Interior	38910	13619
tblAreaCoating	Area_Parking	15663	627
tblFleetMix	HHD	0.02	0.17
tblFleetMix	LDA	0.54	0.29
tblFleetMix	LDT1	0.06	0.03
tblFleetMix	LDT2	0.17	0.09
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.1960e-003	0.00
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MDV	0.14	0.28
tblFleetMix	MH	5.0710e-003	0.00
tblFleetMix	MHD	0.01	0.11
tblFleetMix	OBUS	5.5900e-004	0.00
tblFleetMix	SBUS	9.5400e-004	0.00
tblFleetMix	UBUS	2.5400e-004	0.00
tblLandUse	LotAcreage	0.60	0.51
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.074
tblProjectCharacteristics	CO2IntensityFactor	0	608.12
tblProjectCharacteristics	N2OIntensityFactor	0	0.009
tblSolidWaste	SolidWasteGenerationRate	99.09	39.24

Giant RV Development 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 Applied

tblVehicleTrips	DV_TP	51.00	0.00
tblVehicleTrips	PB_TP	28.00	0.00
tblVehicleTrips	PR_TP	21.00	100.00
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	WD_TR	23.72	2.74
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	2,440,463.93	2,438,930.00
tblWater	OutdoorWaterUseRate	1,495,768.21	621,960.00
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	0.6191	2.7000e-004	0.0293	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0628	0.0628	1.6000e-004		0.0669
Energy	0.0248	0.2253	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171		270.3111	270.3111	5.1800e-003	4.9600e-003	271.9174
Mobile	0.2512	1.2750	2.6183	9.4600e-003	0.6160	0.0113	0.6272	0.1669	0.0107	0.1776		998.4628	998.4628	0.0468	0.1053	1,031.0088
Offroad	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
Total	1.1506	3.2379	5.2517	0.0148	0.6160	0.1229	0.7389	0.1669	0.1224	0.2893	0.0000	1,644.1007	1,644.1007	0.0746	0.1103	1,678.8185

Giant RV Development 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 Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6191	2.7000e-004	0.0293	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0628	0.0628	1.6000e-004		0.0669
Energy	0.0248	0.2253	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171		270.3111	270.3111	5.1800e-003	4.9600e-003	271.9174
Mobile	0.2512	1.2750	2.6183	9.4600e-003	0.6160	0.0113	0.6272	0.1669	0.0107	0.1776		998.4628	998.4628	0.0468	0.1053	1,031.0088
Offroad	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
Total	1.1506	3.2379	5.2517	0.0148	0.6160	0.1229	0.7389	0.1669	0.1224	0.2893	0.0000	1,644.1007	1,644.1007	0.0746	0.1103	1,678.8185

	ROG	NOx	CO	SO2	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	0.2512	1.2750	2.6183	9.4600e-003	0.6160	0.0113	0.6272	0.1669	0.0107	0.1776		998.4628	998.4628	0.0468	0.1053	1,031.0088
Unmitigated	0.2512	1.2750	2.6183	9.4600e-003	0.6160	0.0113	0.6272	0.1669	0.0107	0.1776		998.4628	998.4628	0.0468	0.1053	1,031.0088

Giant RV Development 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 Applied

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	71.08	0.00	0.00	199,968	199,968
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	71.08	0.00	0.00	199,968	199,968

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
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	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
Automobile Care Center	0.285391	0.029834	0.091896	0.281690	0.000000	0.000000	0.106715	0.174975	0.000000	0.000000	0.029499	0.000000	0.000000
Other Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Other Non-Asphalt Surfaces	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071
Parking Lot	0.537785	0.055838	0.172353	0.139003	0.027005	0.007196	0.011392	0.017285	0.000559	0.000254	0.025303	0.000954	0.005071

Giant RV Development 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 Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0248	0.2253	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171		270.3111	270.3111	5.1800e-003	4.9600e-003	271.9174
NaturalGas Unmitigated	0.0248	0.2253	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171		270.3111	270.3111	5.1800e-003	4.9600e-003	271.9174

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					
Automobile Care Center	2297.64	0.0248	0.2253	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171		270.3111	270.3111	5.1800e-003	4.9600e-003	271.9174
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		0.0248	0.2253	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171		270.3111	270.3111	5.1800e-003	4.9600e-003	271.9174

**Giant RV Development 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 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					
Automobile Care Center	2.29764	0.0248	0.2253	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171		270.3111	270.3111	5.1800e-003	4.9600e-003	271.9174
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		0.0248	0.2253	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171		270.3111	270.3111	5.1800e-003	4.9600e-003	271.9174

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	0.6191	2.7000e-004	0.0293	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0628	0.0628	1.6000e-004		0.0669
Unmitigated	0.6191	2.7000e-004	0.0293	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0628	0.0628	1.6000e-004		0.0669

Giant RV Development 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 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	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6061					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.7100e-003	2.7000e-004	0.0293	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0628	0.0628	1.6000e-004		0.0669
Total	0.6191	2.7000e-004	0.0293	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0628	0.0628	1.6000e-004		0.0669

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	0.0103					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6061					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.7100e-003	2.7000e-004	0.0293	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0628	0.0628	1.6000e-004		0.0669
Total	0.6191	2.7000e-004	0.0293	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0628	0.0628	1.6000e-004		0.0669

Giant RV Development 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 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
Air Compressors	1	8.00	260	78	0.48	Diesel

UnMitigated/Mitigated

Equipment Type	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10 Total	Fugitive	Exhaust	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Air Compressors	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
Total	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253

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	25	82	6.50
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	10.49	Dozers	0.5	0.0625	8	1.5
PM2.5	6.00	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	4.00	25	82	25	82	6.50

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	4
NOx	237	Tractors	0.5	0.0625		2
CO	1,488	Graders	0.5	0.0625	8	1
PM10	11.66	Dozers	0.5	0.0625	8	3
PM2.5	6.67	Scrapers	1	0.125		0
						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: Site Preparation, Rough Grading, 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	4.00	25	82	25	82	6.50
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	4
NOx	237	Tractors	0.5	0.0625		0
CO	1,488	Graders	0.5	0.0625	8	1
PM10	11.66	Dozers	0.5	0.0625	8	3
PM2.5	6.67	Scrapers	1	0.125		0
					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: 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	25	82	6.50	
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	4.93	Dozers	0.5	0.0625			0
PM2.5	3.31	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 and Utility 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	1.31	25	82	25	82	6.50	
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	4.93	Dozers	0.5	0.0625			0
PM2.5	3.31	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, Fine Grading, 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	2.31	25	82	25	82	6.50
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	180	Tractors	0.5	0.0625		1.3125
CO	1,052	Graders	0.5	0.0625	8	0
PM10	7.72	Dozers	0.5	0.0625	8	0.5
PM2.5	4.42	Scrapers	1	0.125		0.5
						0
						2.31
	Acres	25	50	100	200	500
NOx	2	170	200	263	378	684
	3	203	234	301	414	715
		180	211	275	389	694
CO	2	972	1463	2738	6346	23304
	3	1230	1774	3206	7075	24763
		1053	1560	2884	6574	23760
PM10	2	7	22	42	83	205
	3	9	29	50	91	213
		8	24	44	85	208
PM2.5	2	4	6	12	26	104
	3	5	7	14	29	109
		4	6	13	27	106
Central San Bernardino Valley	2.31 Acres					
	25	50	100	200	500	
NOx	180	211	275	389	694	
CO	1053	1560	2884	6574	23760	
PM10	8	24	44	85	208	
PM2.5	4	6	13	27	106	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
34	2	34	3
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction, Fine Grading, Paving, Architectural Coating, and Finishing and Landscaping

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	2.31	25	82	25	82	6.50
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	180	Tractors	0.5	0.0625		1.3125
CO	1,052	Graders	0.5	0.0625	8	0
PM10	7.72	Dozers	0.5	0.0625	8	0.5
PM2.5	4.42	Scrapers	1	0.125		0.5
						0
						2.31
	Acres	25	50	100	200	500
NOx	2	170	200	263	378	684
	3	203	234	301	414	715
		180	211	275	389	694
CO	2	972	1463	2738	6346	23304
	3	1230	1774	3206	7075	24763
		1053	1560	2884	6574	23760
PM10	2	7	22	42	83	205
	3	9	29	50	91	213
		8	24	44	85	208
PM2.5	2	4	6	12	26	104
	3	5	7	14	29	109
		4	6	13	27	106
Central San Bernardino Valley						
2.31 Acres						
	25	50	100	200	500	
NOx	180	211	275	389	694	
CO	1053	1560	2884	6574	23760	
PM10	8	24	44	85	208	
PM2.5	4	6	13	27	106	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
34	2	34	3
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 Distance (meters)	Central San Bernardino Valley
	25
NOx	270
CO	1,746
PM10	4.00
PM2.5	2.00

	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	4	11	16	26	55
	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
	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