Letter J: Pacific Gas and Electric Company (February 22, 2021)

Comment J-335: Attachment 3.

Revised Air Quality Analysis

Estrella Substation and Paso Robles Area Reinforcement Project PG&E Comments on Draft Environmental Impact Report
Attachment 3 Revised Air Quality Analysis

	со	ROG	NOx	ROG + NO _X	SOx	Fugitive Dust PM ₁₀	PM ₁₀	PM2.5	DPM
		Ma	ximum Da	ily Emissi	ons (lbs/c	lay)			
CalEEMod Sources (unmitigated)	77.59	11.89	110.48	122.37	0.28	8.47	12.38	7.38	3.91
Helicopter (unmitigated)	11.86	1.60	30.17	30.56	3.58	46.30	48.36	48.36	0.00
Total Maximum Daily (unmitigated)	79.88	11.89	110.48	122.37	3.83	47.78	52.66	51.37	3.91
CalEEMod Sources (mitigated)	77.59	11.89	110.48	122.37	0.28	4.05	7.96	5.28	3.91
Helicopter (mitigated)	11.86	1.60	30.17	30.56	3.58	46.30	48.36	48.36	0.00
Total Maximum Daily (mitigated)	79.88	11.89	110.48	122.37	3.83	47.78	52.66	51.37	3.91
Significance Thresholds	-	-	20	137	-	-	222	828	7
Significant?	-	-	-	No	-	1-1	-	-	No
		Maximu	m Quarter	ly Emissio	ons (tons	/quarter)			
CalEEMod Sources (unmitigated)		-	-	1.18	8	0.04	-	12	0.04
Helicopter (unmitigated)	-			0.09	-	0.12	-	-	-
Total Maximum Quarterly (unmitigated)		-	-	1.28	-	0.16	100	11=1	0.04
CalEEMod Sources (mitigated)	-	-	-	1.18	<u>(4</u>	0.03	-	-	0.04
Helicopter (mitigated)	-			0.09	-	0.12	-	-	-
Total Maximum Quarterly (mitigated)	-	: - .:		1.28	-	0.14	-	-	0.04
Significance Thresholds	-	1	-	Tier 1 2.5 Tier 2 26.3	E	2.5	-	-	0.13
Significant?	-	-	-	No	-	No	-	-	No

Proposed Project Construction Emissions

	со	ROG	NOx	ROG + NOx	SOx	Fugitive Dust PM ₁₀	PM ₁₀	PM2.5	DPM
	0		Total Proj	ect Emissi	ons (tons)			
CalEEMod Sources (unmitigated)	6.82	0.97	8.63	9.60	0.02	0.29	0.60	0.38	0.31
Helicopter (unmitigated)	0.04	0.01	0.15	0.16	0.02	0.21	0.22	0.22	1.72
Total Construction Project (unmitigated)	6.86	0.98	8.78	9.76	0.04	0.50	0.82	0.60	0.31
CalEEMod Sources (mitigated)	6.82	0.97	8.63	9.60	0.02	0.22	0.53	0.35	0.31
Helicopter (mitigated)	0.04	0.01	0.15	0.16	0.02	0.21	0.22	0.22	-
Total Construction Project (mitigated)	6.86	0.98	8.78	9.76	0.04	0.43	0.75	0.57	0.31

Note: Some totals may be off due to rounding.

Proposed Project GHG Emissions

Phase	GHG Emissions (Metric Tons CO ₂ e)
Ground-Based Construction Emissions (unmitigated)	2,206
Helicopter Emissions (unmitigated)	43.70
Total Construction Emissions (unmitigated)	2,250
Amortized Construction Emissions (unmitigated)	75.0
Ground-Based Construction Emissions (mitigated)	2,206
Helicopter Emissions (mitigated)	43.70
Total Construction Emissions (mitigated)	2,250
Amortized Construction Emissions (mitigated)	75.0
SF ₆ Gas Insulated Switches and Equipment	96
Total Annualized Emissions	187

Emissions	ted Weekly (to determine um Ib/day)					Tota	ıl Unmitiga	ited							Ta	tal Mitigate	-d			
Start of week	End of Week	Week	co	ROG	NOX	ROG + NOX	sox	Fugitive Dust PM10	PM10	PM2.S	DPM	co	ROG	NOX	ROG + NOX		Fugitive Dust PM10	PM10	PM2.5	DPM
6/1/202	6/7/2022	1	4.51	0.63	9.13 9.13	9.77 9.77	0.02	1.26	1.47	0.41	0.21	4.51	0.63	9.13 9.13	9.77 9.77	0.02	0.77	0.98	0.35	0.21
6/15/202		3	11.94 11.94	1.91	18.05	19.97 19.97	0.04	0.37	1.05	0.72	0.67	11.94 11.94	1.91	18.05 18.05	19.97 19.97	0.04	0.37	1.05	0.72	0.67
6/29/202	2 7/5/2022	5	11.94 11.94	1.91	18.05	19.97 19.97	0.04	0.37	1.05	0.72	0.67	11.94	1.91	18.05	19.97	0.04	0.37	1.05	0.72	0.67
7/13/202	2 7/19/2022	7	11.94	1.91	18.05	19.97	0.04	0.37	1.05	0.72	0.67	11.94	1.91	18.05	19.97	0.04	0.37	1.05	0.72	0.67
7/20/202		8	11.94 15.10	1.91 2.41	18.05 24.31	19.97 26.72	0.04	0.37	1.05	0.72	0.67	11.94 15.10	1.91 2.41	18.05 24.31	19.97 26.72	0.04	0.37	1.05	0.72	0.67 0.85
8/3/202	2 8/9/2022 2 8/16/2022	10	15.10 11.40	2.41	24.31	26.72 20.46	0.05	1.39	2.24	1.03	0.85	15.10	2.41	24.31 18.59	26.72 20.46	0.05	0.91	1.76	0.98	0.85
8/17/202		12	11.40 11.40	1.88	18.59	20.46	0.04	0.34	1.00	0.70	0.66	11.40	1.88	18.59	20.46	0.04	0.34	1.00	0.70	0.66
8/31/202	9/6/2022	14	23.80	3.41	32.27	35.68	0.08	0.55	1.69	1.20	1.14	23.80	3.41	32.27	35.68	0.08	0.55	1.69	1.20	1.14
9/7/202 9/14/202	9/20/2022	16	23.80 55.73	8.79	32.27 84.47	35.68 93.26	0,20	0.55 8.05	11.06	1.20 6.43	3.01	55.73	3.41 8.79	32.27 84.47	93.26	0.20	3.64	1.69 6.65	4.33	1.14 3.01
9/21/202 9/28/202	2 10/4/2022	17	55.73 55.73	8.79 8.79	84.47 84.47	93.26 93.26	0.20	8.05 8.05	11.06 11.06	6.43 6.43	3.01 3.01	55.73 55.73	8.79 8.79	84.47 84.47	93.26 93.26	0.20	3.64 3.64	6.65 6.65	4.33	3.01 3.01
10/5/202	2 10/11/2022	19 20	77.59 41.54	11.89 6.03	110.48 57.05	122.37 63.07	0.28	8.47	12.38 3.32	7.38	3.91 1.94	77.59	11.89 6.03	110.48 57.05	122.37 63.07	0.28	4.05	7.96	5.28 2.10	3.91 1.94
10/19/202 10/26/202	10/25/2022	21	39.91 49.49	5.89 6.89	54.52 64.50	60.40 71.39	0.14	1.24	3.16	2.06	1.92	39.91 49.49	5.89	54.52 64.50	60.40 71.39	0.14	1.08	3.00	2.04	1.92
11/2/202		23	49,49	6.89	64.50	71.39	0.17	1.30	3.74	2.61	2.45	49.49	6.89	64.50	71.39	0.17	1.30	3.74	2.61	2,45
11/16/202	11/22/2022	25	\$2.93	7.34	69.69	77.04	0.17	1.41	4.10	2.86	2.69	52.93	7.34	69.69	77.04	0.17	1.41	4.10	2.86	2.69
11/23/202 11/30/202	12/6/2022	26	47.19 47.19	6.65 6.65	61.61 61.61	68.26 68.26	0.16	121	3.66 3.66	2.59	2.45 2.45	47.19 47.19	6.65 6.65	61.61 61.61	68.26 68.26	0.16	1.21	3.66	2.59	2.45 2.45
12/7/202		28 29	48.80 48.80	6.85 6.85	62.78 62.78	69.63 69.63	0.17	1.22	3.59 3.59	2.51	2.36 2.36	48.80 48.80	6.85 6.85	62.78 62.78	69.63 69.63	0.17	1.22	3.59 3.59	2.51	2.36 2.36
12/21/202	2 12/27/2022	30 31	56.64 65.35	7.83	74.14	81.97 84.21	0.20	1.71	4.31 4.01	2.87	2.61	56.64 65.35	7.83	74.14	81.97 84.21	0.20	1.71	4.31	2.87	2.61
1/4/202 1/11/202	3 1/10/2023	32	62.17 57.81	8.58 8.13	72.76	81.34	0.23	1.56	3.98	2.67	2.43	62.17 57.81	8.58	72.76	81.34	0.23	1.56	3.98	2.67	2.43
1/18/202	3 1/24/2023	34	67.96	9.43	89.13 106.16	98.56	3.78	47.36	51.62	50.68	2.20	67.96	9.43	89.13 106.16	98.56 117.55	3.78	47.36	51.62 52.66	\$0.68	2.20
1/25/202 2/1/202	3 2/7/2023	36	79.88 43.10	6.12	53,44	59.56	0.16	1.40	52.66 3.16	51.37 2.01	2.82	43.10	6.12	53.44	59.56	0.16	1.40	3.16	51.37 2.01	2.82
2/8/202 2/15/202	3 2/21/2023	37 38	49.18 36.74	6.82 4.98	70.21 52.78	77.03 \$7.75	3.73 3.68	47.64 47.19	51.18 50.13	50.10 49.42	1.48 0.88	49.18 36.74	6.82 4.98	70.21 52.78	77.03 57.75	3.73 3.68	47.64 47.19	51.18 50.13	50.10 49.42	1.48 0.88
2/22/202 3/1/202	3 2/28/2023 3 3/7/2023	39 40	21.22 31.86	2.96	24.03	26.99 45.66	0.09	0.75	1.53	0.93	0.78	21.22 31.86	2.96	24.03 41.41	26.99 45.66	0.09	0.75	1.53	0.93	0.78
3/8/202 3/15/202	3/14/2023	41	36.17 19.92	4.62	46.94	51.56 24.69	0.14	3.99	5.37 1.61	2.05	1.38	36.17 19.92	4.62	46.94 22.21	51.56 24.69	0.14	2.78	4.16	1.92	1.38
3/22/202 3/29/202	3/28/2023	43 44	19.92 15.72	2.48	22.21	24.69 19.03	0.07	0.89	1.61	0.91	0.72	19.92 15.72	2.48	22.21	24.69 19.03	0.07	0.89	1.61	0.91	0.72
4/5/202	3 4/11/2023	45	15.72	2.13	16.90	19.03	0.06	0.54	1.12	0.69	0.59	15.72	2.13	16.90	19.03	0.06	0.54	1.12	0.69	0.59
4/12/202 4/19/202	4/25/2023	46 47	15.72 15.72	2.13	16.90 16.90	19.03 19.03	0.06	0.54	1.12	0.69	0.59	15.72	2.13	16.90 16.90	19.03 19.03	0.06	0.54	1.12	0.69	0.59
4/26/202 5/3/202		48 49	15.72 15.72	2.13	16.90 16.90	19.03 19.03	0.06	0.54	1.12	0.69	0.59	15.72 15.72	2.13	16.90 16.90	19.03 19.03	0.06	0.54	1.12	0.69	0.59
5/10/202 5/17/202		50	15.72	2.13	16.90 16.90	19.03 19.03	0.06	0.54	1.12	0.69	0.59	15.72	2.13	16.90 16.90	19.03 19.03	0.06	0.54	1.12	0.69	0.59
5/24/202	5/30/2023	52 53	15.72	2.13	16.90	19.03	0.06	0.54	1.12	0.69	0.59	15.72	2.13	16.90 16.65	19.03 18.74	0.06	0.54	1.12	0.69	0.59
6/7/202	6/13/2023	54	15.42 15.42	2.09	16.65 16.65	18.74 18.74	0.06	0.43	1.02	0.66	0.59	15.42	2.09	16.65 16.65	18.74 18.74	0.06	0.43	1.02	0.66	0.59
6/21/202	6/27/2023	56	15.42	2.09	16.65	18.74	0.06	0.43	1.02	0.66	0.59	15.42	2.09	16.65	18.74	0.06	0.43	1.02	0.66	0.59
6/28/202 7/5/202	3 7/11/2023	57 58	15.42 15.42	2.09	16.65 16.65	18.74 18.74	0.06	0.43	1.02 1.02	0.66	0.59	15.42 15.42	2.09	16.65 16.65	18.74 18.74	0.06	0.43	1.02	0.66	0.59
7/12/202 7/19/202		59 60	15.42 15.42	2.09	16.65 16.65	18.74 18.74	0.06	0.43	1.02	0.66	0.59	15.42 15.42	2.09	16.65 16.65	18.74 18.74	0.06	0.43	1.02	0.66	0.59
7/26/202 8/2/202	8/1/2023	61 62	15.42 15.42	2.09	16.65 16.65	18.74 18.74	0.06	0.43	1.02	0.66	0.59	15.42 15.42	2.09	16.65 16.65	18.74 18.74	0.06	0.43	1.02	0.66	0.59
8/9/202 8/16/202	8/15/2023	63	15.42 15.42	2.09	16.65	18.74	0.06	0.43	1.02	0.66	0.59	15.42	2.09	16.65	18.74 18.74	0.06	0.43	1.02	0.66	0.59
8/13/202 8/23/202 8/30/202	8/29/2023	65	15.42 15.42	2.09	16.65	18.74	0.06	0.43	1.02	0.66	0.59	15.42	2.09	16.65	18.74	0.06	0.43	1.02	0.66	0.59
9/6/202	9/12/2023	67	15.42	2.09	16.65	18.74	0.06	0.43	1.02	0.66	0.59	15.42	2.09	16.65	18.74	0.06	0.43	1.02	0.66	0.59
9/13/202 9/20/202	9/26/2023	68 69	15.42 15.42	2.09	16.65 16.65	18.74 18.74	0.06	0.43	1.02 1.02	0.66	0.59	15.42 15.42	2.09	16.65 16.65	18.74 18.74	0.06	0.43	1.02	0.66	0.59
	3 10/10/2023	70 71	15.42 15.42	2.09	16.65 16.65	18.74 18.74	0.06	0.43	1.02	0.66	0.59	15.42 15.42	2.09	16.65 16.65	18.74 18.74	0.06	0.43	1.02	0.66	0.59
10/11/202 10/18/202		72	15.42 15.42	2.09	16.65 16.65	18.74 18.74	0.06	0.43	1.02	0.66	0.59	15.42 15.42	2.09	16.65 16.65	18.74 18.74	0.06	0.43	1.02	0.66 0.66	0.59
	3 10/31/2023	74	15.42 32.88	2.09	16.65 38.90	18.74 43.58	0.06	0.43	1.02	0.66	0.59 1.46	15.42 32.88	2.09 4.68	16.65 38.90	18.74 43.58	0.06	0.43	1.02	0.66	0.59 1.46
11/8/202		76	32.88	4.68	38.90 38.90	43.58	0.12	0.76	2.22	1.55	1.46	32.88	4.68	38.90	43.58	0.12	0.76	2.22	1.55	1.46
11/22/202	3 11/28/2023	77	32.88 32.88	4.68	38.90	43.58	0.12	0.76	2.22	1.55	1.46	32.88	4.68	38.90	43.58	0.12	0.76	2.22	1.55	1.46
11/29/202	3 12/12/2023	79	17.45 17.45	2.59	22.24 22.24	24.83 24.83	0.06	0.33	1.20 1.20	0.89	0.87	17.45	2.59	22.24 22.24	24.83 24.83	0.06	0.33	1.20	0.89	0.87
12/20/202	3 12/19/2023 3 12/26/2023	81 82	17.45 17.45	2.59	22.24 22.24	24.83 24.83	0.06	0.33	1.20	0.89	0.87	17.45	2.59	22.24 22.24	24.83 24.83	0.06	0.33	1.20	0.89	0.87
12/27/202	3 1/2/2024	83 84	17.14 17.14	2.50	20.64	23.14	0.06	0.33	1.12	0.82	0.80	17.14	2.50	20.64	23.14	0.06	0.33	1.12	0.82	0.80
1/10/202	1/16/2024	85	17.14	2.50	20.64	23.14	0.06	0.33	1.12	0.82	0.80	17.14	2.50	20.64	23.14	0.06	0.33	1.12	0.82	0.80
1/24/202	1/30/2024	87	21.10	2.89	50.81	\$3.70	3.04	33.40	34.53	34.23	0.80	21.10	2.89	50.81	\$3.70	3.04	33.40	34.53	34.23	0.80
1/31/202	2/13/2024	88 89	6.85 2.90	0.80	34.79 4.62	35.59 5.03	2.99	33.66 0.59	34.14 0.73	33.63 0.22	0.14	6.85 2.90	0.80	34.79 4.62	35.59 5.03	2.99	33.42 0.35	33.89 0.49	33.60 0.20	0.14 0.14
	2/20/2024 Daily Emissions	90	0.00 79.88	0.00	0.00	0.00	0.00	0.00 47.78	0.00	0.00	0.00	0.00 79.88	0.00	0.00 110.48	0.00	0.00	0.00	0.00 52.66	0.00	0.00

	Preliminary	Construction A	Activity and Schee	dule for the Pro	posed Project		
Project Phase	Task	PEA Estimated Work Dates*	Data Request 5 Estimated Work Dates*	Revised Estimated Work Dates*	PEA Estimated Work Months	Data Request 5 Estimated Work Months	Revised Estimated Work Monti
Estrella Substation							
Substation Site	Site Work Area Preparation Grading Entrance Road Culverts Mobilization	November– December 2018		September– October 2022	Month 1–2 (2 months)		Month 4–5 (2 months)
	Access Roads	November 2018		September 2022	Month 1 (1 month)		Month 4 (1 month)
	Fence and Gate Installation	December 2018		October 2022	Month 2 (1 month)	_	Month 5 (1 month)
230 kV Substation	Foundation Construction	December– January 2019		October– November 2022	Month 2–3 (2 months)		Month 5–6 (2 months)
	Ground Grid / Conduit Installation	January– February 2019		November– December 2022	Month 3–4 (2 months)		Month 6–7 (2 months)
	Steel / Bus Erection	February 2019		December 2022–January 2023	Month 4 (1 month)		Month 7–8 (2 months)
	Install Yard Rock	February– March 2019		December 2022–January 2023	Month 4–5 (2 months)		Month 7–8 (2 months)
	Transformer and Equipment Delivery and Installation	February– March 2019		January– February 2023	Month 4–5 (2 months)	25.57	Month 8–9 (2 months)
	Control Enclosure Delivery and Install	March 2019		January 2023	Month 5 (1 month)	-	Month 8 (1 month)

Project Phase	Task	PEA Estimated Work Dates*	Data Request 5 Estimated Work Dates*	Revised Estimated Work Dates*	PEA Estimated Work Months	Data Request 5 Estimated Work Months	Revised Estimated Work Months
230 kV Substation (cont.)	Equipment Delivery and Install	March–April 2019	-	January- February 2023	Month 5–6 (2 months)		Month 8–9 (2 months)
	Cable Installation and Termination	March–April 2019		February 2023	Month 5–6 (2 months)		Month 9 (1 month)
	Testing and Commissioning	April–May 2019		February– March 2023	Month 6–7 (2 months)		Month 9–10 (2 months)
	Cable Installation and Termination	March–April 2019		February 2023	Month 5–6 (2 months)		Month 9 (1 month)
	Testing and Commissioning	April–May 2019		February– March 2023	Month 6–7 (2 months)		Month 9–10 (2 months)
	Cleanup and Restoration	May 2019	-	March 2023	Month 7 (1 month)		Month 10 (1 month)
70 kV Substation	Mobilization			October 2022		-	Month 5 (1 month)
	Foundation Construction	December– January 2019		November– December 2022	Month 2–3 (2 months)		Month 6–7 (2 months)
	Ground Grid / Conduit Installation	December– January 2019		November– December 2022	Month 2–3 (2 months)		Month 6–7 (2 months)
	Steel / Bus Erection	January– February 2019		January 2023	Month 3–4 (2 months)		Month 8 (1 month)

Preliminary Construction Activity and Schedule for the Proposed Project

Project Phase	Task	PEA Estimated Work Dates*	Data Request 5 Estimated Work Dates*	Revised Estimated Work Dates*	PEA Estimated Work Months	Data Request 5 Estimated Work Months	Revised Estimated Work Months
70 kV Substation (cont.)	Control Enclosure Delivery and Install	February 2019		February 2023	Month 4 (1 month)		Month 9 (1 month)
	Equipment Delivery and Installation	February 2019		February 2023	Month 4 (1 month)		Month 9 (1 month)
	Cable Installation and Termination	February– March 2019		February– March 2023	Month 4–5 (2 months)	<u>194</u> 1	Month 9–10 (2 months)
	Install Yard Rock	March 2019		March 2023	Month 5 (1 month)		Month 10 (1 month)
	Cleanup and Restoration	March 2019		March 2023	Month 5 (1 month)		Month 10 (1 month)
	Testing and Commissioning	April 2019		April–May 2023	Month 6 (1 month)		Month 11–12 (2 months)
230 kV Transmission Interconnection	Site Work Area Preparation Mobilization			June 2022			Month 1 (1 month)
	Foundation Tower Installation / Removal of One Tower	December– January 2019		June–August 2022	Month 2–3 (2 months)		Month 1–7 (3 months)
	Conductor	February 2019		January 2023	Month 4 (1 month)		Month 8 (1 month)
	Cleanup and Restoration	March 2019		February 2023	Month 5 (1 month)		Month 9 (1 month)

	Preliminary	Construction	Activity and Schee	dule for the Pro	posed Project		
Project Phase	Task	PEA Estimated Work Dates*	Data Request 5 Estimated Work Dates*	Revised Estimated Work Dates*	PEA Estimated Work Months	Data Request 5 Estimated Work Months	Revised Estimated Work Months
Power Line Route	9			.d	691		
New 70 kV Power Line Segment	Site Work Area Preparation Mobilization	November 2018	March 2023	March 2023	Month 1 (1 month)	Month 8 (1 month)	Month 10 (1 month)
	Pole Installation / Transfer / Distribution	December- February 2019	April– November 2023	March– November 2023	Month 2–4 (3 months)	Month 9–16 (8 months)	Month 10–18 (9 months)
	Conductor Installation	March–April 2019	December 2023– January 2024	November 2023–January 2024	Month 5–6 (2 months)	Month 17–18 (2 months)	Month 18–20 (3 months)
	Cleanup and Restoration	May 2019	February 2024	February 2024	Month 7 (1 month)	Month 19 (1 month)	Month 21 (1 month)
Reconductoring Segment	Site Work Area Preparation Mobilization	November 2018	August 2022	August 2022	Month 1 (1 month)	Month 1 (1 month)	Month 3 (1 month)
	Pole Installation / Transfer / Distribution / Removal	December– February 2019	September 2022– February 2023	August 2022– February 2023	Month 2–4 (3 months)	Month 2–7 (6 months)	Month 3–9 (7 months)
	Conductor Installation	March–April 2019	October 2022– February 2023	October 2022– February 2023	Month 5–6 (2 months)	Month 3–7 (6 months)	Month 5–9 (5 months)
	Cleanup and Restoration	May 2019	March 2023	March 2023	Month 7 (1 month)	Month 8 (1 month)	Month 10 (1 month)

Notes: This table is preliminary and subject to change based on CPUC requirements, final engineering, and other factors.

* Dates are provided for duration estimates.

	Ì		Activity			Emissions (Ib/day)							tons/project or VIT/project) ³					
Phase	Helicopter Type	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hours Per day (excluding LTOs) ¹	Number of LTOs per day	fuel kg/day	со	NOX	ROG ²	PM10/PM2.5	SOx	CO2	fuel use per project MT/project	со	NOX	ROG ²	PM10/PM2.5	SOx	CO2
Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Sikorsky S92A	5	2.1	14	1,385.30	11.86	24.85	1.60	2.06	3.58	9,635.57	6.93	0.03	0.06	0.00	0.01	0.009	21.85
70 kV Power Line Conductor Installation	MD 520N	6	4.0	10	1,153.89	3.96	30.17	0.39	0.34	2.98	8,025.95	6.92	0.01	0.09	0.00	0.0010	0.0089	21.84

¹ Hours operating per day excluding landing take off (LTOs) was derived by the project's projected total operating time minus the hovering time associated with planned activities. To be conservative, the climb out operating time is based on the total LTO mode operation times from FOCA data which is more in line with AEDT defaults. ² ROG is based on AEDT VOC emission factors. ³ Criteria pollutants are in terms of tons per project (CO, NOX, ROG, PM10 and PM2.5 and GHG pollutants (CO2 are in metric tons (MT)

Helicopter Type	Engine Name	Engine Max SHP	Number of Engines	Takoff shaft HP per engine ¹	Climbout Engine Power Percentage	bout Engine Climb Out Operating C	Climbout Fuel Consumption (kg/second) ¹		Climb	oout Emission Fa	actors (g/pollutant p	er kg fuel) ³		Cruising Fuel Consumption ³		c	Cruising Emis	sion Factors g/hou	,3	
				0.000				CO EF	NOX EF	VOC EF	PM EF	SOx	CO2 EF	kg/hr	CO EF	NOX EF	VOC EF	PM EF	SOx ⁴	CO2 EF
Sikorsky S92A	GE CT7-8A	2740	2	2329	85	810	0.07	3.91	8.10	0.52	0.40	1.17	3,155.00	263.09	1,009.53	2,157.52	139.08	290.88	308.14	830,061.2
62.		Tota	I LTO Cycle Values		- 69 - 69		60.11	235.13	486.75	31.41	23.83	70.40	189,654.40							
Helicopter Type	Engine Name	Engine Max SHP	Number of Engines	Takoff shaft HP per engine ¹	Climbout Engine Power Percentage	Climb Out Operating Time (seconds) ²	Climbout Fuel Consumption (kg/second) ¹		Climb	oout Emission Fa	actors (g/pollutant p	er kg fuel) ³		Cruising Fuel Consumption ³		(Cruising Emis	sion Factors g/hou	,3	
		-					(18) 5000110/	CO EF	NOX EF	VOC EF	PM EF	50x	CO2 EF	kg/hr	CO EF	NOX EF	VOC EF	PM EF	SOx ⁴	CO2 EF
							And	and the second se	and the second se	and the second se				and the second se		and the second se		and the second se		
MD 520N	DDA250-C20	400	1	340	85	810	0.05	1.59	11.76	0.15	0.18	1.17	3,155.00	184.12	283.47	2,193.89	28.31	19.31	215.64	580,888.4

¹ Takeoff shaft hp per engine is based on Takeoff% power equal to 85% to be consistent with AEDT default. Fuel consumption is based on FOCA data for TO_FF per engine in order to be consistent with AEDT guidance to use climbout emission factors based on 85% engine power.

² Based on the FOCA data for time in LTO modes (summed). This estimate is in line with AEDT default climbout operating time of 887 seconds.

³ Based on either AEDT results where available or the available FOCA data for the specific make/model of units. Note that the MD 520N Arrival/Departure profile is not available in AEDT 3c for Paso Robles Airport, so a similar sized, single-engine aircraft was modeled. PM10 emission factors are taken from FOCA data since AEDT results are zero.

Table 3: Fugitive Dust Emissions From Helicopters

Phase	Helicopter Type	Number of Days	Number of LTOs per day	PM Emission Factor (kg/LTO) ¹	Daily PM (lb/day)	Total Project PM (ton/yr)
Reconductoring Segment Pole Installation	24 4224 12			10000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	0. 30500
Transfer Distribution Pole Removal	Sikorsky S92A	5	14	1.5	46.30	0.12
70 kV Power Line Conductor Installation	MD 520N	6	10	1.5	33.07	0.10

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3. Response to Comments

California Public Utilities Commission

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3. Response to Comments

	AEDT Metho	dology
14 takeoff operations by Aerospatiale SA-350D A 520 model aircraft since the MD520. The Aerosp aircraft. The model input Airport as the landing/tai	a Sikorsky S-92A model a star (AS-350). The Aerosp AEDT does not have an op atial SA-350D is of similar s are based on departure/a	uality are based on running 14 arrivals and ircraft and 10 arrivals and 10 takeoffs by an atiale model was modeled in lieu of the MD- berational arrival and departure profiles for size and weight and is also a one-engine arrival at the helipad at the Paso Robles airport characteristics. This is used as a oject.
14 arrivals/14 departure SA-350D). In order to po kilograms (kg) per secon determine fuel usage du results. Similarly, each e emissions per kilogram	from Sikorsky S-92A and pulate the emissions for th d (kg/s) is derived from the ring full flight, the full flight mission factor is derived fo f fuel from the AEDT resul	emissions for each operation group (e.g., 10 arrivals/10 departures for the Aerospatial e landing take offs (LTOs), the fuel use in e climb ground phase of operation. To fuel use in kg/s was derived from the AEDT or the LTOs and full flight from the grams of ts based on the total emissions from each appropriate phase of operation.
kg/second multiplied by data). The fuel use per L factor during "ground clin thus the FOCA emission to the full flight fuel cons	an assumed climb out oper TO is then multiplied by th nb". Note that particulate m factors for PM were subst	T fuel use during "Ground climb phase" in rating time of 810 seconds (from FOCA e g/pollutant per kilogram fuel emission natter (PM) emissions in AEDT were zero, ituted to be conservative. This result is added tted from AEDT's "full flight" fuel use) flight for each pollutant.
emission results for arriv	als and departures for the	AEDT version 3c model fuel use and modeled units were applied to the Proposed .hment 4 (Helicopter Noise Analysis).
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	Es	trella Substation and Pasc	Robles Area Reir	nforcement Project - San Luis	Obispo County	, Summer	
		Estrella Substa	tion and Paso	Robles Area Reinforce	ment Projec	t	
				spo County, Summer			
1.0 Project	Characteristics	5					
1.1 Land Usa	age						
	and Uses	Size		Metric	Lot Acreage	Floor Surface Area	Population
	Light Industry	7,144.00		1000sqft	164.00	7,144,000.00	0
			i		2001/04/04/		
1.2 Other Pro	oject Characteri	stics					
Urbanization	Urban	Wind Speed (m/s)	3.2	Precipitation Freq (Day	's) 44		
Climate Zone	4			Operational Year	2024		
Jtility Company	Pacific Gas & Elect	ric Company					
CO2 Intensity Ib/MWhr)	641.35	CH4 Intensity (Ib/MWhr)	0.029	N2O Intensity (Ib/MWhr)	0.006		
1.3 User Ente	ered Comments	& Non-Default Data					
Project Charac	cteristics -						
		er line the easement width 164 acres or a 7,144,000 s		disturbance, areas for tempo	orary staging an	d access roads outside	e of the
	,	roject schedule and descri					
	•	construction schedule	•				
Off-road Equip	ment - Based on c	onstruction schedule					
Off-road Equip	ment - Based on c	onstruction schedule					
Off-road Equip	ment - Based on c	onstruction schedule					
Off-road Equip	ment - Based on c	onstruction schedule					
	101 100 B	onstruction schedule					

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		Reinforcement Project - San Luis Obispo County,	
Off-road Equipment -	Based on construction schedule		
Off-road Equipment -	Based on construction schedule Based on construction schedule		
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Off-road Equipment -	Based on construction schedule		
Off-road Equipment -	Based on equipment roster for the project.		
Off-road Equipment -	Based on construction schedule		
Off-road Equipment -	Based on construction schedule		
Off-road Equipment -	Based on construction schedule		
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Off-road Equipment -	Based on construction schedule		

alEEMod Version: CalEEMod	2016 3 2	Page 3 of 120	Date: 2/1
		Area Reinforcement Project - San	
		Area Neimorcement Project - Gan	Luis Obispo County, Summer
road Equipment - Based on c			
road Equipment - Based on c			
	nent roster and schedule provided	erian valorato interi cato val de literaturias	<u>ت</u>
oad Fugitive Dust - Per the u	ser guide 9.3% silt content should	l be used for the San Luis Obispo r	region
ding - Based on grading and r	material movement for the project.		
cle Trips - Unmanned operat	ion		
icle Emission Factors -			
cle Emission Factors -			
e Emission Factors -			
umer Products - No consum	er product utilization was assumed	I for the project	
Coating - No architectural co	pating is assumed for the project		
	tors scaled down to match the are ontrol Enclosure approximately 16	a occupied by the 230kV Substatio feet wide and 64 feet long.	n Control Enclosure approxima
ter And Wastewater - Unmanr	ned facility - No water use is expec	ted	
I Waste - No solid waste gen	eration is expected		
	Mitigation - At a minimum, the off M emissions are less than the SLC	-road equipment fleet shall meet th OCAPCD significance thresholds.	ne CARB off-road emissions av
	- Assumes monthly inspections an ustrial equipment with hp increased	id an annual maintenance on the s	ubstation components. Helicop
sented as Other general ind		1 (0 400	
t Mix -			
onary Sources - Emergency	Generators and Fire Pumps -		
Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	3572000	0
tblAreaCoating	Area_Nonresidential_Interior	10716000	0
		+	
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation tblConstEquipMitigation	NumberOfEquipmentMitigated NumberOfEquipmentMitigated	0.00	4.00

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E	strella Substation and Paso Robles Ar	rea Reinforcement Project - San	Luis Obispo County, Summer
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	50.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	19.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstructionPhase	NumDays	3,100.00	48.00
tblConstructionPhase	NumDays	3,100.00	24.00
tblConstructionPhase	NumDays	3,100.00	24.00
tblConstructionPhase	NumDays	3,100.00	18.00
tblConstructionPhase	NumDays	3,100.00	24.00
tblConstructionPhase	NumDays	3,100.00	30.00
tblConstructionPhase	NumDays	3,100.00	12.00
tblConstructionPhase	NumDays	3,100.00	24.00
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tblConstructionPhase	NumDays	3,100.00	6.00
tblConstructionPhase	NumDays	3,100.00	12.00

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tblConstructionPhase	NumDays	3,100.00	30.00
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tblConstructionPhase	NumDays	3,100.00	144.00
tblConstructionPhase	NumDays	3,100.00	12.00
tblConstructionPhase	NumDays	3,100.00	120.00
tblConstructionPhase	NumDays	3,100.00	36.00
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tblConstructionPhase	NumDays	120.00	12.00
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E	strella Substation and Paso Robles Area	a Reinforcement Project - Sa	n Luis Obispo County, Summer
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	LightingElect	3.08	0.01
tblEnergyUse	NT24E	3.70	0.01
tblEnergyUse	NT24NG	6.67	0.01
tblEnergyUse	T24E	1.48	0.01
tblEnergyUse	T24NG	19.71	0.01
tblGrading	AcresOfGrading	36.00	27.00
tblGrading	AcresOfGrading	4.50	9.00
tblGrading	AcresOfGrading	9.00	18.00
tblGrading	AcresOfGrading	4.50	9.00
tblGrading	MaterialExported	0.00	828.00
tblGrading	MaterialImported	0.00	3,140.00
tblOffRoadEquipment	HorsePower	63.00	62.00
tblOffRoadEquipment	HorsePower	63.00	62.00
tblOffRoadEquipment	HorsePower	63.00	62.00
tblOffRoadEquipment	HorsePower	63.00	62.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
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new or normalized and a state of the method of the state	 Construction of an operating of the second statement of the secon	100000 KG	ALCONTA

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E	strella Substation and Paso Robles Are	ea Reinforcement Project - San	Luis Obispo County, Summer
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
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E	strella Substation and Paso Robles A	rea Reinforcement Project - San	Luis Obispo County, Summer
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
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E	strella Substation and Paso Robles	Area Reinforcement Project	- San Luis Obispo County, Summer
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		230-kV Substation Steel Bus Erection
tblOffRoadEquipment	PhaseName		70-kV Substation Steel Bus Erection
tblOffRoadEquipment	PhaseName		70-kV Substation Equip Delivery & Installation
tblOffRoadEquipment	PhaseName		230-kV Substation Cable Installation and Termination
tblOffRoadEquipment	PhaseName		70-kV Substation Foundation Construction
tblOffRoadEquipment	PhaseName		230-kV Transmission Foundation Tower Installation Remove two towers
tblOffRoadEquipment	PhaseName		Reconductoring Segment Pole Installation Transfer Distribution Pole Removal
tblOffRoadEquipment	PhaseName		230-kV Substation Foundation Construction
tblOffRoadEquipment	PhaseName		70-kV Substation Mobilization
tblOffRoadEquipment	PhaseName		230-kV Transmission Site Clean-up and Restoration
tblOffRoadEquipment	PhaseName		70-kV Power Line Site Development Mobilization

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Estre	ella Substation and Paso Robles Area Reinfo	orcement Project - San Luis Obispo County, Summer
tblOffRoadEquipment	PhaseName	Reconductoring Segment Clean-up and Restoration
tblOffRoadEquipment	PhaseName	Reconductoring Segment Site Development Mobilization
tbIOffRoadEquipment	PhaseName	70-kV Power Line Clean-up and Restoration
tblOffRoadEquipment	PhaseName	230-kV Substation Steel Bus Erection
tblOffRoadEquipment	PhaseName	230-kV Substation Install Yard Rock
tblOffRoadEquipment	PhaseName	70-kV Substation Steel Bus Erection
tblOffRoadEquipment	PhaseName	230-KV Substation Transformer & Equip Delivery & Installation
tblOffRoadEquipment	PhaseName	230-kV Substation Transformer & Equip Delivery & Installation
tblOffRoadEquipment	PhaseName	230-kV Substation Remaining Equipment Delivery and Install
tblOffRoadEquipment	PhaseName	230-kV Transmission Foundation Tower Installation Remove two towers
tblOffRoadEquipment	PhaseName	230-kV Transmission Foundation Tower Installation Remove two towers
tblOffRoadEquipment	PhaseName	230-kV Transmission Foundation Tower Installation Remove two towers
tblOffRoadEquipment	PhaseName	230-kV Transmission Conductor
tblOffRoadEquipment	PhaseName	230-kV Transmission Conductor
tbIOffRoadEquipment	PhaseName	70-kV Substation Equip Delivery & Installation
tbIOffRoadEquipment	PhaseName	70-kV Substation Control Enclosure Delivery and Install
tblOffRoadEquipment	PhaseName	230-kV Substation Testing and Commissioning
tbIOffRoadEquipment	PhaseName	70-kV Substation Cable Installation and Termination
tblOffRoadEquipment	PhaseName	70-kV Power Line Pole Tower Installation
tblOffRoadEquipment	PhaseName	70-KV Power Line Pole Tower Installation
tblOffRoadEquipment	PhaseName	70-kV Substation Install Yard Rock
tblOffRoadEquipment	PhaseName	70-kV Cleanup and Restoration
tblOffRoadEquipment	PhaseName	70-kV Substation Testing and Commissioning

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Estre	Ila Substation and Paso Robles Area Reinfo	rcement Project - San Luis Obispo County, Summer
tblOffRoadEquipment	PhaseName	70-kV Power Line Conductor Installation
tblOffRoadEquipment	PhaseName	70-kV Power Line Conductor Installation
tbIOffRoadEquipment	PhaseName	70-kV Power Line Conductor Installation
tblOffRoadEquipment	PhaseName	Reconductoring Segment Pole Installation Transfer Distribution Pole Removal
tblOffRoadEquipment	PhaseName	Reconductoring Segment Pole Installation Transfer Distribution Pole Removal
tblOffRoadEquipment	PhaseName	230-kV Substation Access Roads
tblOffRoadEquipment	PhaseName	230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization
tblOffRoadEquipment	PhaseName	230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization
tblOffRoadEquipment	PhaseName	Reconductoring Segment Conductor Installation
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tblOffRoadEquipment	PhaseName	70-kV Power Line Conductor Installation
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tblOffRoadEquipment	PhaseName	230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization
tblOffRoadEquipment	PhaseName	230-kV Substation Install Yard Rock
tblOffRoadEquipment	PhaseName	70-kV Substation Install Yard Rock

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer bb/OffRoadEquipment PhaseName 230-kV Substation Fence and Gate Installation bb/OffRoadEquipment PhaseName 70-kV Substation Foundation Construction bb/OffRoadEquipment PhaseName 70-kV Substation Foundation Construction bb/OffRoadEquipment PhaseName 70-kV Substation Ground Grid Conduit Installation bb/OffRoadEquipment PhaseName 230-kV Substation Ground Grid Conduit Installation bb/OffRoadEquipment UsageHours 7.00 6.00 bb/OffRoadEquipment UsageHours 7.00 5.00 <t< th=""><th>· · · · · · · · · · · · · · · · · · ·</th></t<>	· · · · · · · · · · · · · · · · · · ·
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Est	trella Substation and Paso Robles A	Area Reinforcement Project - San	Luis Obispo County, Summer
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOnRoadDust	MaterialMoistureContent	0.50	0.10
tblOnRoadDust	MaterialMoistureContent	0.50	0.10
tblOnRoadDust	MaterialMoistureContent	0.50	0.10
tblOnRoadDust	MaterialMoistureContent	0.50	0.10
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tblOnRoadDust	MaterialMoistureContent	0.50	0.10
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tblOnRoadDust	MaterialMoistureContent	0.50	0.10
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E	Estrella Substation and Paso Robles A	rea Reinforcement Project - San	Luis Obispo County, Summer
tblOnRoadDust	MaterialMoistureContent	0.50	0.10
tblOnRoadDust	MaterialMoistureContent	0.50	0.10
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tblOnRoadDust	MaterialMoistureContent	0.50	0.10
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tblOnRoadDust	MaterialMoistureContent	0.50	0.10
tblOnRoadDust	MaterialSiltContent	8.50	9.30
tblOnRoadDust	MaterialSiltContent	8.50	9.30
tblOnRoadDust	MaterialSiltContent	8.50	9.30
tblOnRoadDust	MaterialSiltContent	8.50	9.30
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tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMeanVehicleSpeed40.0032.40tblOnRoadDustMeanVehicleSpeed40.0032.40	tblOnRoadDust	Contraction of the Contraction o	8.50	9.30	
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tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMeanVehicleSpeed40.0032.40tblOnRoadDustMeanVehicleSpeed40.0032.40tblOnRoadDustMeanVehicleSpeed40.0032.40	tblOnRoadDust		8.50	9.30	
tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMeanVehicleSpeed40.0032.40tblOnRoadDustMeanVehicleSpeed40.0032.40tblOnRoadDustMeanVehicleSpeed40.0032.40		MaterialSiltContent	8.50		
tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMeanVehicleSpeed40.0032.40tblOnRoadDustMeanVehicleSpeed40.0032.40tblOnRoadDustMeanVehicleSpeed40.0032.40			8.50		
tblOnRoadDust MaterialSiltContent 8.50 9.30 tblOnRoadDust MaterialSiltContent 8.50 9.30 tblOnRoadDust MeanVehicleSpeed 40.00 32.40 tblOnRoadDust MeanVehicleSpeed 40.00 32.40 tblOnRoadDust MeanVehicleSpeed 40.00 32.40 tblOnRoadDust MeanVehicleSpeed 40.00 32.40	tblOnRoadDust	MaterialSiltContent	8.50	9.30	
tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMaterialSiltContent8.509.30tblOnRoadDustMeanVehicleSpeed40.0032.40tblOnRoadDustMeanVehicleSpeed40.0032.40tblOnRoadDustMeanVehicleSpeed40.0032.40tblOnRoadDustMeanVehicleSpeed40.0032.40	tblOnRoadDust	•	8.50	9.30	
tblOnRoadDust MeanVehicleSpeed 40.00 32.40 tblOnRoadDust MeanVehicleSpeed 40.00 32.40 tblOnRoadDust MeanVehicleSpeed 40.00 32.40	tblOnRoadDust		8.50	9.30	
tblOnRoadDust MeanVehicleSpeed 40.00 32.40 tblOnRoadDust MeanVehicleSpeed 40.00 32.40	tblOnRoadDust	MaterialSiltContent	8.50	9.30	
tblOnRoadDust MeanVehicleSpeed 40.00 32.40 tblOnRoadDust MeanVehicleSpeed 40.00 32.40	tblOnRoadDust	MeanVehicleSpeed	40.00		
	tblOnRoadDust	MeanVehicleSpeed	40.00		
tblOnRoadDust MeanVehicleSpeed 40.00 32.40	tblOnRoadDust	MeanVehicleSpeed	40.00	32.40	
	tblOnRoadDust		40.00		
tblOnRoadDust MeanVehicleSpeed 40.00 32.40	tblOnRoadDust		40.00		

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E	strella Substation and Paso Robles A	rea Reinforcement Project - San	Luis Obispo County, Summer
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40

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Est	rella Substation and Paso Robles Ar	ea Reinforcement Project - San	Luis Obispo County, Summer
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
blOperationalOffRoadEquipment	OperDaysPerYear	260.00	13.00
olOperationalOffRoadEquipment	OperDaysPerYear	260.00	12.00
blOperationalOffRoadEquipment	OperDaysPerYear	260.00	2.00
blOperationalOffRoadEquipment	OperHorsePower	88.00	400.00
blOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
blOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
olOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
blOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
blOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblSolidWaste	SolidWasteGenerationRate	8,858.56	0.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	0.91
tblTripsAndVMT	VendorTripLength	5.00	1.20
tblTripsAndVMT	VendorTripLength	5.00	8.68
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	1.15
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	1.34
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
			·

Nod Version: CalEEMod		Page 19 of 120	Date: 2/11/2021 2:11 PM
Es	trella Substation and Paso Robles	Area Reinforcement Project - San	Luis Obispo County, Summer
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	1.90
tblTripsAndVMT	VendorTripLength	5.00	1.20
tblTripsAndVMT	VendorTripLength	5.00	1.85
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	1.85
tblTripsAndVMT	VendorTripNumber	0.00	11.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	1,171.00	13.00
tblTripsAndVMT	VendorTripNumber	1,171.00	9.00
tblTripsAndVMT	VendorTripNumber	1,171.00	29.00
tblTripsAndVMT	VendorTripNumber	1,171.00	30.00

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Es	trella Substation and Paso Robles	Area Reinforcement Project - San	Luis Obispo County, Summer
tblTripsAndVMT	VendorTripNumber	1,171.00	45.00
tblTripsAndVMT	VendorTripNumber	1,171.00	9.00
tblTripsAndVMT	VendorTripNumber	1,171.00	30.00
tblTripsAndVMT	VendorTripNumber	1,171.00	2.00
tblTripsAndVMT	VendorTripNumber	1,171.00	28.00
tblTripsAndVMT	VendorTripNumber	1,171.00	12.00
tblTripsAndVMT	VendorTripNumber	1,171.00	11.00
tblTripsAndVMT	VendorTripNumber	1,171.00	12.00
tblTripsAndVMT	VendorTripNumber	1,171.00	2.00
tblTripsAndVMT	VendorTripNumber	1,171.00	9.00
tblTripsAndVMT	VendorTripNumber	1,171.00	3.00
tblTripsAndVMT	VendorTripNumber	1,171.00	26.00
tblTripsAndVMT	VendorTripNumber	1,171.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	VendorTripNumber	1,171.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	1,171.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	29.00
tblTripsAndVMT	VendorTripNumber	1,171.00	2.00
tblTripsAndVMT	VendorTripNumber	1,171.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	7.00
tblTripsAndVMT	VendorTripNumber	1,171.00	13.00
tblTripsAndVMT	VendorTripNumber	0.00	33.00
tblTripsAndVMT	VendorTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripNumber	1,171.00	30.00
tblTripsAndVMT	VendorTripNumber	1,171.00	10.00

Estrella Substation and Pase tblTripsAndVMT VendorTripNumber tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength	13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00	an Luis Obispo County, Summer 31.00 10.00 7.68 8.45 8.45 9.15 9.56 8.97
tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength	13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00	10.00 7.68 8.45 8.45 9.15 9.56
tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength	13.00 13.00 13.00 13.00 13.00 13.00 13.00	7.68 8.45 8.45 9.15 9.56
tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength	13.00 13.00 13.00 13.00 13.00 13.00	8.45 8.45 9.15 9.56
tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength	13.00 13.00 13.00 13.00 13.00	8.45 8.45 9.15 9.56
tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength	13.00 13.00 13.00	9.15 9.56
tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength	13.00 13.00	9.56
tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength	13.00	
tblTripsAndVMT WorkerTripLength tblTripsAndVMT WorkerTripLength		8.97
tblTripsAndVMT WorkerTripLength	13.00	
		7.34
tblTripsAndVMT WorkerTripLength	13.00	8.52
	13.00	10.00
tblTripsAndVMT WorkerTripLength	13.00	7.68
tblTripsAndVMT WorkerTripLength	13.00	9.23
tblTripsAndVMT WorkerTripLength	13.00	10.00
tblTripsAndVMT WorkerTripLength	13.00	10.00
tblTripsAndVMT WorkerTripLength	13.00	6.79
tblTripsAndVMT WorkerTripLength	13.00	6.72
tblTripsAndVMT WorkerTripLength	13.00	8.68
tblTripsAndVMT WorkerTripLength	13.00	8.25
tblTripsAndVMT WorkerTripLength	13.00	8.15
tblTripsAndVMT WorkerTripLength	13.00	7.67
tblTripsAndVMT WorkerTripLength	13.00	10.00
tblTripsAndVMT WorkerTripLength	13.00	7.68
tblTripsAndVMT WorkerTripLength	13.00	8.14

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E	strella Substation and Paso Robles	Area Reinforcement Project - San	Luis Obispo County, Summer
tblTripsAndVMT	WorkerTripLength	13.00	8.45
tblTripsAndVMT	WorkerTripLength	13.00	8.56
tblTripsAndVMT	WorkerTripLength	13.00	9.18
tblTripsAndVMT	WorkerTripLength	13.00	6.32
tblTripsAndVMT	WorkerTripLength	13.00	8.45
tblTripsAndVMT	WorkerTripLength	13.00	7.85
tblTripsAndVMT	WorkerTripLength	13.00	5.87
tblTripsAndVMT	WorkerTripLength	13.00	7.50
tblTripsAndVMT	WorkerTripLength	13.00	8.38
tblTripsAndVMT	WorkerTripNumber	5.00	22.00
tblTripsAndVMT	WorkerTripNumber	5.00	16.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	22.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	18.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	14.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	18.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	9.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	30.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	38.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	16.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	14.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	10.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00

tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00	
tblTripsAndVMT	WorkerTripNumber	8.00	20.00	
tblTripsAndVMT	WorkerTripNumber	5.00	16.00	
tblTripsAndVMT	WorkerTripNumber	3,000.00	41.00	
tblTripsAndVMT	WorkerTripNumber	5.00	18.00	
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00	
tblTripsAndVMT	WorkerTripNumber	5.00	8.00	
tblTripsAndVMT	WorkerTripNumber	0.00	10.00	
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00	
tblTripsAndVMT	WorkerTripNumber	3,000.00	32.00	
tblTripsAndVMT	WorkerTripNumber	5.00	16.00	
tblTripsAndVMT	WorkerTripNumber	3,000.00	38.00	
tblTripsAndVMT	WorkerTripNumber	10.00	24.00	
tblTripsAndVMT	WorkerTripNumber	30.00	26.00	
tblTripsAndVMT	WorkerTripNumber	3,000.00	18.00	
tblTripsAndVMT	WorkerTripNumber	3,000.00	28.00	
tblTripsAndVMT	WorkerTripNumber	3,000.00	22.00	
tblVehicleTrips	ST_TR	1.32	0.00	
tblVehicleTrips	SU_TR	0.68	0.00	
tblVehicleTrips	WD_TR	6.97	0.00	
tblWater	IndoorWaterUseRate	1,652,050,000.00	0.00	
ssions Summary				

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	со	SO2	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/c	lay		
2022	11.8422	110.4933	77.2514	0.2800	8.4664	3.9120	12.3784	3.7790	3.6004	7.3794	0.0000	27,421.485 4	27,421.485 4	7.9074	0.0000	27,619.169 6
2023	9.7336	81.3116	67.7871	0.2547	3.9882	2.8194	5.3724	0.7733	2.6007	3.0068	0.0000	24,904.611 6	24,904.611 6	7.0316	0.0000	25,080.401 7
2024	2.4896	20.6289	17.1270	0.0597	0.5937	0.7958	1.1246	0.0968	0.7322	0.8221	0.0000	5,829.9182	5,829.9182	1.7066	0.0000	5,872.5819
Maximum	11.8422	110.4933	77.2514	0.2800	8.4664	3.9120	12.3784	3.7790	3.6004	7.3794	0.0000	27,421.485 4	27,421.485 4	7.9074	0.0000	27,619.169 6

Mitigated Construction

	ROG	NOx	со	SO2	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					l Ib/	day	<u>19 </u>					· · · · · · · · · · · · · · · · · · ·	lb/d	ay		
2022	11.8422	110.4933	77.2514	0.2800	4.0505	3.9120	7.9625	1.6790	3.6004	5.2794	0.0000	27,421.485 4	27,421.485 4	7.9074	0.0000	27,619.169
2023	9.7336	81.3116	67.7871	0.2547	2.7752	2.8194	4.3000	0.6423	2.6007	3.0068	0.0000	24,904.611 6	24,904.611 6	7.0316	0.0000	25,080.401 7
2024	2.4896	20.6289	17.1270	0.0597	0.3511	0.7958	1.1246	0.0899	0.7322	0.8221	0.0000	5,829.9182	5,829.9182	1.7066	0.0000	5,872.5818
Maximum	11.8422	110.4933	77.2514	0.2800	4.0505	3.9120	7.9625	1.6790	3.6004	5.2794	0.0000	27,421.485 4	27,421.485 4	7.9074	0.0000	27,619.169 6

CalEEMod	Version:	CalEEM	od.2016.	3.2			F	age 25 d	of 120				Da	te: 2/11/2	2021 2:1	1 PM
			Estrella	Substatio	n and Pa	aso Roble	es Area F	Reinforce	ment Pro	oject - Sa	n Luis O	oispo Cou	unty, Sur	nmer		
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	45.00	0.00	29.08	48.14	0.00	18.74	0.00	0.00	0.00	0.00	0.00	0.00
2 Overall	123															
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Tota	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb	/day							lb/	day		
Area	152.9488	6.6100e- 003	0.7282	5.0000e- 005		2.5900e- 003	2.5900e- 003		2.5900e- 003	2.5900e- 003		1.5635	1.5635	4.0800e- 003		1.6655
Energy	4.2200e- 003	0.0384	0.0322	2.3000e- 004		2.9200e- 003	2.9200e- 003		2.9200e- 003	2.9200e- 003		46.0532	46.0532	8.8000e- 004	8.4000e- 004	46.3269
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.8750	6.0932	5.9132	0.0250		0.2146	0.2146		0.1974	0.1974			2,414.7318			2,434.2562
Total	153.8280	6.1382	6.6737	0.0252	0.0000	0.2201	0.2201	0.0000	0.2029	0.2029		2,462.3485	2,462.3485	0.7859	8.4000e- 004	2,482.2486

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	co	SO2	Fugitiv PM10			Fugitive PM2.5	Exhau PM2		.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category						lb/day								lb	/day		
Area	152.9488	6.6100e- 003	0.7282	5.0000e- 005	1	2.5900e 003	e- 2.5900e- 003		2.590 003		900e- 003		1.5635	1.5635	4.0800e 003	•	1.6655
Energy	4.2200e- 003	0.0384	0.0322	2.3000e- 004		2.9200e 003	- 2.9200e- 003		2.920 003		200e- 003		46.0532	46.0532	8.8000e- 004	8.4000e- 004	46.3269
Mobile	0.0000	0.0000	0.0000	0.0000	0.000	0 0.0000	0.0000	0.0000	0.00	10 0.	0000		0.0000	0.0000	0.0000	1	0.0000
Offroad	0.8750	6.0932	5.9132	0.0250	1	0.2146	0.2146		0.19	4 0.	1974		2,414.7318	2,414.7318	0.7810	1	2,434.2562
Total	153.8280	6.1382	6.6737	0.0252	0.000	0 0.2201	0.2201	0.0000	0.20	:9 0.	2029		2,462.3485	2,462.3485	0.7859	8.4000e- 004	2,482.2486
	ROG		NOx	со	SO2				ugitive PM2.5	Exhaust PM2.5	PM2. Tota		CO2 NBio	-CO2 Tota	I CO2 0	CH4 N	20 CO
Percent Reduction	0.00		0.00	0.00	0.00	0.00	0.00 0	00	0.00	0.00	0.00	0.0	00 0.0	00 0.	00 0	0.00 0	.00 0.0
	struction	Detail		P	nase Type		Start Date		End Date	Nu	m Days	Num Da	avs	Phase D	Description		
umber				- 10		(II)					Neek						
	230-kV Transmis Area Preparation		on 🚦	Site Prepara			6/1/2022		/2022		e	5	12				
	230-kV Transmis Tower Installation		dation	Building Cor			6/15/2022	8/9/	2022		e	5	48				

8/13/2022

6

12

8/1/2022

Reconductoring Segment Site Development Mobilization Site Preparation

Call	EMod Version: CalEEMod.20			ige 27 of 120		Date: 2/11/2021 2
	Estrell	a Substation and Pase	o Robles Area Re	einforcement Proje	ect - San Luis Obi	spo County, Summer
	Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Building Construction	8/15/2022	2/18/2023	6 1	14
	230-kV Substation Access Roads	Site Preparation	9/1/2022	9/14/2022	6	12
	230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Grading	9/15/2022	10/12/2022	6	24
	230-kV Substation Fence and Gate Installation	Building Construction	10/8/2022	10/21/2022	6	2
	Reconductoring Segment Conductor Installation	Building Construction	10/10/2022	2/28/2023	6 12	20
Ċ.	230-kV Substation Foundation Construction	Building Construction	10/15/2022	11/25/2022	6	36
0	70-kV Substation Mobilization	Site Preparation	10/18/2022	10/30/2022	6	12
	70-kV Substation Foundation Construction	Building Construction	11/1/2022	12/31/2022	6	18
2	70-kV Substation Ground Grid Conduit Installation	Building Construction	11/1/2022	12/31/2022	6	18
3	230-kV Substation Ground Grid Conduit Installation	Building Construction	11/15/2022	12/12/2022	6	24
4	230-kV Substation Steel Bus Erection	Building Construction	12/9/2022	1/5/2023	6	24
5	230-kV Substation Install Yard Rock	Building Construction	12/23/2022	1/12/2023	6	18
6	70-kV Substation Steel Bus Erection	Building Construction	1/1/2023	1/31/2023	6	24
7	230-kV Substation Transformer & Equip Delivery & Installation	Building Construction	1/2/2023	2/4/2023	6	30
В	230-kV Substation Control Enclosure Delivery and Install	Building Construction	1/6/2023	1/19/2023	6	2
9	230-kV Substation Remaining Equipment Delivery and Install	Building Construction	1/13/2023	2/11/2023	6	24
0	230-kV Transmission Conductor	Building Construction	1/25/2023	1/31/2023	6	6
1	70-kV Substation Equip Delivery & Installation	Building Construction	2/1/2023	2/21/2023	6	18
2	70-kV Substation Control Enclosure Delivery and Install	Building Construction	2/1/2023	2/7/2023	6	6
3	230-kV Transmission Site Clean- up and Restoration	Building Construction	2/1/2023	2/7/2023	6	6
4	230-kV Substation Cable Installation and Termination	Building Construction	2/1/2023	2/14/2023	6	12

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	Estre	lla Substation and Paso	Robles Area Re	inforcement Project	t - San Lui	s Obispo	County, Summe	r	
	30-kV Substation Testing and commissioning	Building Construction	2/11/2023	3/17/2023	6	30			
6 7	0-kV Substation Cable Installation	n Building Construction	2/22/2023	3/14/2023	6	18			
7 7	0-kV Power Line Site Development Mobilization	Site Preparation	3/1/2023	3/14/2023	6	12			
8 R	Reconductoring Segment Clean-u	p Site Preparation	3/1/2023	3/14/2023	6	12			
9 7	0-kV Power Line Pole Tower	Building Construction	3/1/2023	11/30/2023	6	216			
	0-kV Substation Install Yard Roc	k Building Construction	3/1/2023	3/14/2023	6	12			
	30-kV Substation Cleanup and Restoration	Site Preparation	3/11/2023	3/31/2023	6	18			
	0-kV Cleanup and Restoration	Site Preparation	3/15/2023	3/28/2023	6	12			
	0-kV Substation Testing and commissioning	Building Construction	4/1/2023	5/31/2023	6	48			
	0-kV Power Line Conductor	Building Construction	11/1/2023	1/31/2024	6	72			
	nstallation	1	1						
5 7/ R	nstallation 10-kV Power Line Clean-up and Restoration Grading (Site Preparatic	Site Preparation	2/1/2024	2/14/2024	6	12			
Acres of C Acres of C Acres of F Residenti Coating –	0-kV Power Line Clean-up and Restoration Grading (Site Preparation Grading (Grading Phase Paving: 0 ial Indoor: 0; Residentia - sqft) Equipment	n Phase): 0): 0 I Outdoor: 0; Non-Resi	dential Indoor:	0; Non-Residenti	al Outdoor	r: 0; Strip		a: 0 (Architectu	ural
Acres of C Acres of C Acres of C Acres of F Residenti Coating –	0-kV Power Line Clean-up and Restoration Grading (Site Preparation Grading (Grading Phase Paving: 0 ial Indoor: 0; Residentia - sqft) Equipment Phase Name	n Phase): 0): 0 I Outdoor: 0; Non-Resi Offroad Equipment Type		0; Non-Residenti	al Outdoor	r: 0; Strip	Load Factor	a: 0 (Architecto	ural
Acres of C Acres of C Acres of F Acres of F Residenti Coating – DffRoad E	0-kV Power Line Clean-up and Restoration Grading (Site Preparatic Grading (Grading Phase Paving: 0 ial Indoor: 0; Residentia - sqft) Equipment Phase Name smission Site Work Area Mobilization	in Phase): 0): 0 I Outdoor: 0; Non-Resi Offroad Equipment Type ders	dential Indoor:	0; Non-Residenti	al Outdoor	r: 0; Strip	Load Factor 0.41	a: 0 (Architectu	ural
Acres of C Acres of C Acres of C Acres of F Residenti Coating – DffRoad E	0-kV Power Line Clean-up and Restoration Grading (Site Preparatic Grading (Grading Phase Paving: 0 ial Indoor: 0; Residentia - sqft) Equipment Phase Name smission Site Work Area Abbilization Tra	n Phase): 0): 0 I Outdoor: 0; Non-Resi Offroad Equipment Type ders	dential Indoor:	0; Non-Residenti	al Outdoor	Power 187	Load Factor 0.41 0.37	a: 0 (Architecto	ural
Acres of C Acres of C Acres of F Acres of F Residenti Coating – DffRoad E 30-kV Trans reparation M 30-kV Trans	0-kV Power Line Clean-up and Restoration Grading (Site Preparatic Grading (Grading Phase Paving: 0 ial Indoor: 0; Residentia - sqft) Equipment Phase Name smission Site Work Area Abbilization Tra	in Phase): 0): 0 I Outdoor: 0; Non-Resi Offroad Equipment Type ders	dential Indoor:	0; Non-Residenti	al Outdoor	r: 0; Strip	Load Factor 0.41	a: 0 (Architectu	ural

CalEEMod Version: CalEEMo	od.2016.3.2	Page 29 of 12	D		Date: 2/11/2021	2:11 P
E	Estrella Substation and Paso Ro	bles Area Reinforcemen	t Project - San L	uis Obispo Cou	nty, Summer	
30-kV Transmission Foundation Tower stallation Remove two towers	Forklifts	3	2.60	89	0.20	
30-kV Transmission Foundation Tower stallation Remove two towers	Off-Highway Trucks	2	3.50	402	0.38	
30-kV Transmission Foundation Tower stallation Remove two towers	Off-Highway Trucks	1	0.80	402	0.38	
30-kV Transmission Foundation Tower stallation Remove two towers	Off-Highway Trucks	2	2.60	402	0.38	
30-kV Transmission Foundation Tower stallation Remove two towers	Tractors/Loaders/Backhoes	1	0.50	97	0.37	
econductoring Segment Site evelopment Mobilization	Graders	1	6.00	187	0.41	
econductoring Segment Site evelopment Mobilization	Tractors/Loaders/Backhoes	1	4.00	97	0.37	
econductoring Segment Pole stallation Transfer Distribution Pole emoval	Bore/Drill Rigs	1	6.00	221	0.50	
econductoring Segment Pole stallation Transfer Distribution Pole emoval	Cranes	3	6.00	231	0.29	
econductoring Segment Pole stallation Transfer Distribution Pole emoval	Cranes	1	1.00	231	0.29	
econductoring Segment Pole stallation Transfer Distribution Pole emoval	Off-Highway Trucks	2	3.00	402	0.38	
econductoring Segment Pole stallation Transfer Distribution Pole emoval	Off-Highway Trucks	2	2.00	402	0.38	
30-kV Substation Access Roads	Off-Highway Trucks	2	8.00	402	0.38	
30-kV Substation Access Roads	Tractors/Loaders/Backhoes	2	8.00	97	0.37	
30-kV Substation Site Prep Grading ntrance Road Culverts Mobilization	Graders	1	8.00	187	0.41	
30-kV Substation Site Prep Grading ntrance Road Culverts Mobilization	Off-Highway Trucks	4	10.00	402	0.38	
30-kV Substation Site Prep Grading ntrance Road Culverts Mobilization	Off-Highway Trucks	2	10.00	402	0.38	
30-kV Substation Site Prep Grading ntrance Road Culverts Mobilization	Rollers	2	8.00	80	0.38	
30-kV Substation Site Prep Grading ntrance Road Culverts Mobilization	Rubber Tired Dozers	1	8.00	247	0.40	
30-kV Substation Site Prep Grading ntrance Road Culverts Mobilization	Rubber Tired Loaders	1	8.00	203	0.36	

CalEEMod Version: CalEEMo	d.2016.3.2	Page 30 of 120			Date: 2/11/2021 2:*	1 PM
E	strella Substation and Paso Robles	s Area Reinforcement F	Project - San L	uis Obispo Cou	nty, Summer	
30-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Scrapers	1	8.00	367	0.48	
30-kV Substation Fence and Gate nstallation	Skid Steer Loaders	1	4.00	65	0.37	
Reconductoring Segment Conductor Installation	Forklifts	1	3.00	89	0.20	
Reconductoring Segment Conductor Installation	Off-Highway Trucks	2	6.00	402	0.38	
Reconductoring Segment Conductor Installation	Off-Highway Trucks	2	6.00	402	0.38	
Reconductoring Segment Conductor Installation	Off-Highway Trucks	2	4.00	402	0.38	
Reconductoring Segment Conductor Installation	Off-Highway Trucks	1	6.00	402	0.38	
Reconductoring Segment Conductor nstallation	Other General Industrial Equipment	1	6.00	88	0.34	
Reconductoring Segment Conductor nstallation	Other General Industrial Equipment	1	6.00	88	0.34	
30-kV Substation Foundation	Bore/Drill Rigs	1	8.00	221	0.50	
30-kV Substation Foundation	Cranes	1	5.00	231	0.29	
30-kV Substation Foundation	Tractors/Loaders/Backhoes	1	5.00	97	0.37	
0-kV Substation Mobilization	Graders	1	4.00	187	0.41	
0-kV Substation Mobilization	Tractors/Loaders/Backhoes	1	4.00	97	0.37	
0-kV Substation Foundation	Bore/Drill Rigs	1	8.00	221	0.50	
0-kV Substation Foundation Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37	
0-kV Substation Foundation Construction	Trenchers	1	8.00	78	0.50	
0-kV Substation Ground Grid Conduit nstallation	Tractors/Loaders/Backhoes	1	6.00	97	0.37	
0-kV Substation Ground Grid Conduit nstallation	Trenchers	1	6.00	78	0.50	
30-kV Substation Ground Grid Conduit nstallation	Trenchers	1	8.00	78	0.50	
30-kV Substation Steel Bus Erection	Aerial Lifts	1	6.00	62	0.31	
30-kV Substation Steel Bus Erection	Off-Highway Trucks	1	8.00	402	0.38	
30-kV Substation Install Yard Rock	Off-Highway Trucks	1	10.00	402	0.38	

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E	strella Substation and Paso Rol	bles Area Reinforcemen	t Project - San L	uis Obispo Cou	inty, Summer	
30-kV Substation Install Yard Rock	Skid Steer Loaders	1	10.00	65	0.37	
0-kV Substation Steel Bus Erection	Aerial Lifts	2	8.00	62	0.31	
D-kV Substation Steel Bus Erection	Off-Highway Trucks	2	6.00	402	0.38	
30-kV Substation Transformer & Equip elivery & Installation	Generator Sets	1	5.00	84	0.74	
30-kV Substation Transformer & Equip elivery & Installation	Off-Highway Trucks	2	10.00	402	0.38	
30-kV Substation Transformer & Equip elivery & Installation	Off-Highway Trucks	1	4.80	402	0.38	
30-kV Substation Transformer & Equip elivery & Installation	Tractors/Loaders/Backhoes	1	4.00	97	0.37	
30-kV Substation Control Enclosure elivery and Install	Cranes	1	6.00	231	0.29	
30-kV Substation Remaining quipment Delivery and Install	Off-Highway Trucks	1	6.00	402	0.38	
30-kV Transmission Conductor	Cranes	3	6.00	231	0.29	
0-kV Transmission Conductor	Off-Highway Trucks	2	4.00	402	0.38	
80-kV Transmission Conductor	Off-Highway Trucks	2	4.00	402	0.38	
D-kV Substation Equip Delivery & stallation	Aerial Lifts	2	4.00	62	0.31	
D-kV Substation Equip Delivery & stallation	Off-Highway Trucks	1	5.30	402	0.38	
D-kV Substation Control Enclosure elivery and Install	Off-Highway Trucks	0	0.00	402	0.38	
30-kV Transmission Site Clean-up and estoration	Graders	1	8.00	187	0.41	
	Tractors/Loaders/Backhoes	1	4.00	97	0.37	
30-kV Substation Cable Installation and ermination	Aerial Lifts	1	8.00	62	0.31	
30-kV Substation Testing and ommissioning	Off-Highway Trucks	0	0.00	402	0.38	
D-kV Substation Cable Installation and ermination	Off-Highway Trucks	0	0.00	402	0.38	
D-kV Power Line Site Development obilization	Graders	2	6.00	187	0.41	
D-kV Power Line Site Development obilization	Tractors/Loaders/Backhoes	1	4.00	97	0.37	
econductoring Segment Clean-up and estoration	Graders	1	6.00	187	0.41	

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E	strella Substation and Paso Robles	Area Reinforcement P	oject - San L	uis Obispo Cou	nty, Summer	
Reconductoring Segment Clean-up and Restoration	Tractors/Loaders/Backhoes	1	4.00	97	0.37	
0-kV Power Line Pole Tower Installation	Cranes	1	4.00	231	0.29	
0-kV Power Line Pole Tower Installation	Off-Highway Trucks	3	4.00	402	0.38	
0-kV Power Line Pole Tower Installation	Off-Highway Trucks	3	4.00	402	0.38	
0-kV Power Line Pole Tower Installation	Tractors/Loaders/Backhoes	2	4.00	97	0.37	
0-kV Power Line Pole Tower Installation	Tractors/Loaders/Backhoes	1	4.00	97	0.37	
0-kV Substation Install Yard Rock	Off-Highway Trucks	1	8.00	402	0.38	
0-kV Substation Install Yard Rock	Skid Steer Loaders	1	8.00	65	0.37	
0-kV Substation Install Yard Rock	Tractors/Loaders/Backhoes	1	8.00	97	0.37	
30-kV Substation Cleanup and Restoration	Other General Industrial Equipment	1	6.00	88	0.34	
30-kV Substation Cleanup and Restoration	Tractors/Loaders/Backhoes	1	6.00	97	0.37	
0-kV Cleanup and Restoration	Off-Highway Trucks	0	0.00	402	0.38	
0-kV Substation Testing and commissioning	Off-Highway Trucks	0	0.00	402	0.38	
0-kV Power Line Conductor Installation	Cranes	3	6.00	231	0.29	
0-kV Power Line Conductor Installation	Forklifts	1	3.00	89	0.20	
0-kV Power Line Conductor Installation	Off-Highway Trucks	3	4.00	402	0.38	
0-kV Power Line Conductor Installation	Off-Highway Trucks	1	6.00	402	0.38	
0-kV Power Line Conductor Installation	Off-Highway Trucks	2	2.00	402	0.38	
0-kV Power Line Conductor Installation	Other General Industrial Equipment	1	6.00	88	0.34	
0-kV Power Line Conductor Installation	Other General Industrial Equipment	1	6.00	88	0.34	
0-kV Power Line Clean-up and Restoration	Graders	1	6.00	187	0.41	
0-kV Power Line Clean-up and Restoration	Tractors/Loaders/Backhoes	1	4.00	97	0.37	

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								bispo County, S		-
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
230-kV Transmission Site Mork Area Prepar	2	22.00	11.00	104.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Transmission	13	30.00	12.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Reconductoring	2	18.00	10.00	0.00	7.67	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Reconductoring	9	38.00	13.00	0.00	6.32	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation	4	24.00	33.00	0.00	8.45	1.90	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Site	12	26.00	30.00	393.00	7.85	1.20	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation	1	18.00	30.00	0.00	5.87	1.85	20.00	LD_Mix	HDT_Mix	HHDT
Reconductoring	10	28.00	10.00	0.00	7.50	13.00	20.00	LD_Mix	HDT_Mix	ннот
230-kV Substation	3	22.00	31.00	0.00	8.38	1.85	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation	2	16.00	6.00	0.00	7.68	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation	3	22.00	13.00	0.00	8.45	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation	2	12.00	9.00	0.00	8.45	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation	1	12.00	29.00	0.00	9.15	0.91	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation	2	12.00	30.00	0.00	9.56	1.20	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation	2	18.00	45.00	0.00	8.97	8.68	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Steel	4	14.00	9.00	0.00	7.34	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation	5	18.00	30.00	0.00	8.52	1.15	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation	1	12.00	2.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation	1	9.00	28.00	0.00	10.00	1.34	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Transmission	7	38.00	11.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation	3	16.00	12.00	0.00	7.68	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation	0	12.00	2.00	0.00	9.23	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Control Enclosure Deliv 230-kV Transmission Site Clean up and Rest	2	14.00	9.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	ннот
230-kV Substation	1	10.00	3.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	ннот
230-kV Substation	0	12.00	26.00	0.00	6.79	13.00	20.00	LD_Mix	HDT_Mix	HHDT

-kV Substation			0	12.00	3	3.00	0.00	6.7	2	13.00	20.00	LD_Mix	н	DT_Mix	HHDT	
-kV Power Line	Site		3	20.00	10	00.00	0.00	8.6	8	13.00	20.00	LD_Mix	ļн	DT_Mix	ннот	
econductoring			2	16.00	5	5.00	0.00	8.2	5	13.00	20.00	LD_Mix	н	DT_Mix	HHDT	
-kV Power Line	Pole		10	41.00	15	5.00	0.00	8.1	5	13.00	20.00	LD_Mix	н	DT_Mix	HHDT	
-kV Substation	1		3	12.00	16	3.00	0.00	10.0	0	13.00	20.00	LD_Mix	н	DT_Mix	HHDT	
0-kV Substatio	on 🚦		2	8.00	29	9.00	0.00	7.6	8	13.00	20.00	LD_Mix	н	DT_Mix	HHDT	
-kV Cleanup a			0	10.00	C	0.00	0.00	8.1	4	13.00	20.00	LD_Mix	н	DT_Mix	HHDT	
-kV Substation			0	12.00	2	2.00	0.00	8.4	5	13.00	20.00	LD_Mix	н	DT_Mix	HHDT	
-kV Power Line			12	32.00	10	00.00	0.00	8.5	6	13.00	20.00	LD_Mix	н	DT_Mix	HHDT	
		*******************		40.00		7.00	0.00	9.1	0	12.00	00.00	10.14				
Anductor Installa I Mitigatio Atter Expose 2 230-kV 1 2022 Inmitigated	on Meas ed Area Fransmi	ission S	ite Wor						5	13.00	20.00	LD_Mix		DT_Mix	HHDT	
Anductor Installa I Mitigatio Ater Expose 2 230-kV 1 2022	on Meas ed Area Fransmi	ission S	i onstruct	tion	Preparat			DN Fugitive	1	PM2.5 Total		NBio- CO2		CH4	HHDT N2O	CO2e
Anductor Installa I Mitigatio Ater Expose 2 230-kV 1 2022	on Meas ed Area Fransmi Constru	ission S ction Or	ite Wor	tion k Area I		tion Mo	bilizatio		1							CO2e
nduotoc loctalla -kV Power Line and Un and Bee 1 Mitigatio ater Expose 2 230-kV 1 2022	on Meas ed Area Fransmi Constru	ission S ction Or	ite Wor	tion k Area I	Preparat	tion Mo	bilizatio	DN Fugitive	Exhaust F					CH4		CO2e
nductor Installa -kV Power Line son un and Bas 1 Mitigatio /ater Expose 2 230-kV 1 2022 nmitigated	on Meas ed Area Fransmi Constru	ission S ction Or	ite Wor	tion k Area I	Preparal Fugilive PM10	tion Mo	bilizatio PM10 Total	DN Fugitive	Exhaust F				Total CO2	CH4		CO2e
Aductor Installa -kV Power Line 2011 Mitigatio dater Expose 2 230-kV 1 2022 mmitigated	on Meas ed Area Fransmi Constru	ission S ction Or	ite Wor	tion k Area I	Fugitive PM10 Ib/d	tion Mo Exhaust PM10 lay	bilizatio PM10 Total	Fugitive PM2.5	Exhaust F PM2.5	I PM2.5 Total			Total CO2	CH4		

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			Estrella S	Substatio	n and Pa	aso Roble	es Area F	Reinforce	ment Pr	oject - Sar	n Luis Ob	oispo Cou	unty, Sun	nmer		
2 230-kV 022	Transm	ission S	Site Wor	k Area	Prepara	ation Mo	bilizatio	on								
mitigated	l Constru	uction Of	ff-Site													
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					10.000	day	Total	1 112.0	1 102.0				lb/c	lav		
Calegory					10	uay							io/c	iay		
Hauling	0.0650	2.2878	0.5415	6.6800e- 003	0.1514	9.0900e- 003	0.1604	0.0415	8.7000e- 003	0.0502		722.6477	722.6477	0.0421		723.6996
Vendor	0.0533	1.5702	0.4231	4.8000e- 003	0.1324	5.9200e- 003	0.1383	0.0381	5.6700e- 003	0.0437		512.0216	512.0216	0.0218		512.5671
Worker	0.0683	0.0503	0.5220	1.4700e-	0.1674	1.0400e-	0.1684	0.0444	9.6000e-	0.0454		146.7023	146.7023	4.1800e-		146.8069
			1	003		003			004					003		
Total	0.1866	3.9083	1.4867	003 0.0130	0.4511	003	0.4671	0.1239	004 0.0153	0.1393		1,381.3716	1,381.3716	(08)5(9).		1,383.0736
Total	0.1866	3.9083	1.4867		0.4511		0.4671	0.1239		0.1393		1,381.3716	1,381.3716	(08)5(9).		1,383.0736
Total	0.1866	3.9083	1.4867		0.4511		0.4671	0.1239		0.1393		1,381.3716	1,381.3716	(08)5(9).		1,383.0736
					0.4511		0.4671	0.1239		0.1393		1,381.3716	1,381.3716	(08)5(9).		1,383.0736
Total					0.4511		0.4671	0.1239		0.1393		1,381.3716	1,381.3716	(08)5(9).		1,383.0736
					0.4511		0.4671	0.1239		0.1393		1,381.3716	1,381.3716	(08)5(9).		1,383.0736
	onstructi	on On-S	ite	0.0130		0.0161			0.0153		Bio- CO2		~	0.0681	N2Q	
					0.4511 Fugitive PM10		0.4671 PM10 Total	0.1239 Fugitive PM2.5		0.1393 PM2.5 Total	Bio- CO2		1,381.3716 Total CO2	(08)5(9).	N2O	1,383.0736 CO2e
	onstructi	on On-S	ite	0.0130	Fugitive PM10	0.0161 Exhaust	PM10	Fugitive	0.0153 Exhaust		Bio- CO2		~	0.0681 CH4	N2O	
tigated Co	onstructi	on On-S	ite	0.0130	Fugitive PM10	Exhaust PM10	PM10	Fugitive	0.0153 Exhaust		Bio- CO2		Total CO2	0.0681 CH4	N2O	
tiqated Co Category ugitive Dust	ROG	on On-S	ite	0.0130 SO2	Fugitive PM10 Ib/	0.0161 Exhaust PM10 day	PM10 Total 0.3152	Fugitive PM2.5	0.0153 Exhaust PM2.5	PM2.5 Total		NBio- CO2	Total CO2 Ib/c 0.0000	0.0681 CH4 Jay	N2O	CO2e
tigated Co	onstructi	on On-S	ite	0.0130	Fugitive PM10 Ib/	0.0161 Exhaust PM10 day	PM10 Total	Fugitive PM2.5	0.0153 Exhaust PM2.5	PM2.5 Total	Bio- CO2		Total CO2	0.0681 CH4	N2O	CO2e
tiqated Co Category ugitive Dust	ROG	on On-S	ite	0.0130 SO2	Fugitive PM10 Ib/	0.0161 Exhaust PM10 day	PM10 Total 0.3152	Fugitive PM2.5	0.0153 Exhaust PM2.5	PM2.5 Total		NBio- CO2	Total CO2 Ib/c 0.0000	0.0681 CH4 Jay	N20	CO2e

CalEEMod Version: CalEEMod.2016.3.2 Page 36 of 120 Date: 2/11/2021 2:11 PM Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer 3.2 230-kV Transmission Site Work Area Preparation Mobilization - 2022 Mitigated Construction Off-Site PM10 Total Exhaust PM2.5 PM2.5 Total Bio- CO2 NBio- CO2 Total CO2 CH4 N2O CO2e ROG NOx CO SO2 Fugitive PM10 Exhaust PM10 Fugitive PM2.5 Category lb/day lb/day 722.6477 0.0650 2.2878 0.5415 6.6800e-0.1514 9.0900e-0.1604 0.0415 8.7000e 0.0502 722.6477 0.0421 723.6996 Hauling 003 003 003 Vendor 0.0533 1.5702 0.4231 4.8000e-0.1324 5.9200e-0.1383 0.0381 5.6700e 0.0437 512.0216 512.0216 0.0218 512.5671 003 003 003 Worker 0.0683 0.0503 0.5220 1.4700e-0.1674 1.0400e-0.1684 0.0444 9.6000e 0.0454 146.7023 146.7023 4.1800e-146.8069 003 003 004 003 Total 0.1866 3.9083 1.4867 0.0130 0.4511 0.0161 0.4671 0.1239 0.0153 0.1393 1,381.3716 1,381.3716 0.0681 1,383.0736 3.3 230-kV Transmission Foundation Tower Installation Remove two towers - 2022 **Unmitigated Construction On-Site** PM2.5 Total ROG NOx со SO2 Fugitive PM10 Exhaust PM10 PM10 Total Fugitive PM2.5 Exhaust PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4 N2O CO2e Category lb/day lb/day Off-Road 1.7490 16.2551 10.7389 0.0358 0.6653 0.6653 0.6121 0.6121 3,466.3790 3,466.3790 1.1211 3,494.4065 0.0358 0.6653 0.6653 3,466.3790 3,466.3790 1.1211 3,494.4065 Total 1.7490 16.2551 10.7389 0.6121 0.6121

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			Estrella	Substatio	n and Pa	aso Roble	es Area F	Reinforce	ment Pr	oject - Sa	n Luis Ol	oispo Co	unty, Sur	nmer		
230-kV	Transm	ission F	oundat	ion Tow	er Inst	allation	Remov	e								
o towers			Junud		. Sr mote											
mitigated	d Constru	iction Of	ff-Site													
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust	PM10	Fugitive PM2.5	Exhaust	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					10000	PM10	Total	PM2.5	PM2.5				16.6	day		
Category					ID/	day							ID/0	uay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0581	1.7130	0.4616	5.2400e- 003	0.1444	6.4600e- 003	0.1508	0.0415	6.1800e- 003	0.0477		558.5690	558.5690	0.0238		559.1641
Worker	0.0932	0.0686	0.7118	2.0100e- 003	0.2282	1.4200e- 003	0.2296	0.0605	1.3000e- 003	0.0618		200.0486	200.0486	5.7100e- 003		200.1912
Total	0.1513	1.7815	1.1734	7.2500e- 003	0.3726	7.8800e- 003	0.3805	0.1021	7.4800e- 003	0.1096	İ	758.6176	758.6176	0.0295		759.3553
igated C	onstructi	on On-S	ite													
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	-	6			l Ib/	l day	,,		I			I	lb/e	day		
Off-Road	1,7490	16.2551	10,7389	0.0358		0.6653	0.6653	1	0.6121	0.6121	0.0000	3.466.3790	3,466.3790	1.1211		3,494.4065
													<u></u>			
	1.7490	16.2551	10.7389	0.0358		0.6653	0.6653		0.6121	0.6121	0.0000	3,466.3790	3,466.3790	1.1211		3,494.4065
Total																-
Total																

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			Estrella S	Substatio	n and Pa	aso Roble	es Area F	Reinforce	ment Pr	oject - Sa	n Luis Ot	oispo Co	unty, Sur	nmer		
220 14	Transer	icolon "	ounder	ion Tou	or last	lation	Domos	-								
230-KV towers	Transm - 2022	ISSION F	oundat		er insta	anation	Remov	8								
igated Co	onstructi	on Off-S	ite													
	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
					PM10	PM10	Total	PM2.5	PM2.5							
Category					lb/	day							Ib/	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0581	1.7130	0.4616	5.2400e- 003	0.1444	6.4600e- 003	0.1508	0.0415	6.1800e- 003	0.0477		558.5690	558.5690	0.0238		559.1641
Worker	0.0932	0.0686	0.7118	2.0100e- 003	0.2282	1.4200e- 003	0.2296	0.0605	1.3000e- 003	0.0618		200.0486	200.0486	5.7100e- 003		200.1912
	•:															
Total	0.1513	1.7815	1.1734	7.2500e- 003	0.3726	7.8800e- 003	0.3805	0.1021	7.4800e- 003	0.1096		758.6176	758.6176	0.0295		759.3553
Total	0.1513	1.7815	1.1734		0.3726	7.8800e-	0.3805	0.1021	7.4800e-	0.1096		758.6176	758.6176	0.0295		i 759.3553
Recond	0.1513 ductoring			003		7.8800e- 003		0.1021	7.4800e-	0.1096		758.6176	758.6176	0.0295		759.3553
Recond 22	ductoring	g Segm	ent Site	003		7.8800e- 003		0.1021	7.4800e-	0.1096		758.6176	758.6176	0.0295		: 759.3553
Recond 22		g Segm	ent Site	003		7.8800e- 003		0.1021	7.4800e-	0.1096		758.6176	758.6176	0.0295		: 759.3553
Recond 22	ductoring	g Segm	ent Site	003		7.8800e- 003		0.1021	7.4800e-	0.1096		758.6176	758.6176	0.0295		1 759.3553
Recond 22	ductoring	g Segm	ent Site	003		7.8800e- 003		0.1021 Fugitive PM2.5	7.4800e-	0.1096 PM2.5 Total	Bio- CO2	758.6176 NBio- CO2		0.0295 CH4	N2O	: 759.3553 CO2e
Recond 22	ductoring I Constru	g Segm	ent Site <u>n-Site</u>	003 Develo	Fugitive PM10	7.8800e- 003 Mobiliza	ation -	Fugitive	7.4800e- 003 Exhaust		Bio- CO2		Total CO2		N2O	
Reconce 22 mitigated	ductoring I Constru	g Segm	ent Site <u>n-Site</u>	003 Develo	Fugitive PM10	7.8800e- 003 Mobiliza Exhaust PM10 day	PM10 Total	Fugitive PM2.5	7.4800e- 003 Exhaust PM2.5	PM2.5 Total	Bio- CO2		Total CO2 Ib/	CH4	N20	CO2e
Reconc 22 mitigated Category	ductoring I Constru ROG	g Segm action O	ent Site	so2	Fugitive PM10	7.8800e- 003 Mobiliza Exhaust PM10 day	PM10 Total 0.7954	Fugitive	7.4800e- 003 Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2 Ib/	CH4 day	N2O	CO2e
Reconce 22 mitigated	ductoring I Constru	g Segm	ent Site <u>n-Site</u>	003 Develo	Fugitive PM10	7.8800e- 003 Mobiliza Exhaust PM10 day	PM10 Total	Fugitive PM2.5	7.4800e- 003 Exhaust PM2.5	PM2.5 Total	Bio- CO2		Total CO2 Ib/	CH4	N2O	CO2e
Reconc 22 mitigated Category	ductoring I Constru ROG	g Segm action O	ent Site	003 Develo SO2	Fugitive PM10	7.8800e- 003 Mobiliza Exhaust PM10 day	PM10 Total 0.7954	Fugitive PM2.5	7.4800e- 003 Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2 Ib/	CH4 day	N2O	CO2e

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			Estrella S	Substatio	n and Pa	aso Roble	es Area F	Reinforce	ment Pro	oject - Sar	n Luis Ob	oispo Cou	unty, Sun	nmer		
_		_		_												
Recond	ductoring	g Segm	ent Site	Develo	pment	Mobiliza	ation -									
nitigated	l Constru	ction Of	f-Site													
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					l	/day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	-	0.0000
	<u> </u>															
Vendor	0.0484	1.4275	0.3847	4.3700e- 003	0.1203	5.3900e- 003	0.1257	0.0346	5.1500e- 003	0.0398		465.4742	465.4742	0.0198		465.9701
Worker	0.0471	0.0330	0.3453	9.3000e-	0.1051	6.8000e-	0.1057	0.0279	6.2000e-	0.0285		92.9548	92.9548	2.7200e-		93.0228
		1	1	004		004			004					003		
Total	0.0955	1.4604	0.7300	004 5.3000e- 003	0.2254	004 6.0700e- 003	0.2314	0.0625	004 5.7700e- 003	0.0683		558.4290	558.4290	0.0226		558.9929
Total	0.0955	1.4604	0.7300	5.3000e-	0.2254	6.0700e-	0.2314	0.0625	5.7700e-	0.0683		558.4290	558.4290	(((0))))((0))		558.9929
Total	0.0955	1.4604	0.7300	5.3000e-	0.2254	6.0700e-	0.2314	0.0625	5.7700e-	0.0683		558.4290	558.4290	(((0))))((0))		558.9929
				5.3000e-	0.2254	6.0700e-	0.2314	0.0625	5.7700e-	0.0683		558.4290	558.4290	(((0))))((0))		558.9929
Total				5.3000e-	0.2254	6.0700e-	0.2314	0.0625	5.7700e-	0.0683		558.4290	558.4290	(((0))))((0))		558.9929
				5.3000e-	0.2254	6.0700e-	0.2314	0.0625	5.7700e-	0.0683		558.4290	558.4290	(((0))))((0))		558.9929
				5.3000e-	0.2254 Fugitive PM10	6.0700e-	0.2314 PM10 Total	0.0625 Fugitive PM2.5	5.7700e-	0.0683 PM2.5 Total	Bio- CO2	558.4290 NBio- CO2		(((0))))((0))	N2O	558.9929 CO2e
	onstructi	on On-S	ite	5.3000e- 003	Fugitive PM10	6.0700e- 003	PM10	Fugitive	5.7700e- 003		Bio- CO2			0.0226 CH4	N2O	
tigated Co	onstructi	on On-S	ite	5.3000e- 003	Fugitive PM10 Ib/	6.0700e- 003 Exhaust PM10 dday	PM10 Total	Fugitive PM2.5	5.7700e- 003 Exhaust PM2.5	PM2.5 Total	Bio- CO2		Total CO2	0.0226 CH4	N2O	CO2e
tigated Co	onstructi	on On-S	ite	5.3000e- 003	Fugitive PM10	6.0700e- 003 Exhaust PM10	PM10	Fugitive	5.7700e- 003		Bio- CO2		Total CO2	0.0226 CH4	N2O	
tigated Co	onstructi	on On-S	ite	5.3000e- 003	Fugitive PM10 Ib/	6.0700e- 003 Exhaust PM10 dday	PM10 Total	Fugitive PM2.5	5.7700e- 003 Exhaust PM2.5	PM2.5 Total	Bio- CO2		Total CO2	0.0226 CH4	N2O	CO2e
tigated Co Category	ROG	on On-S	ite	5.3000e- 003 SO2	Fugitive PM10 Ib/	6.0700e- 003 Exhaust PM10 Iday	PM10 Total 0.3102	Fugitive PM2.5	5.7700e- 003 Exhaust PM2.5	PM2.5 Total		NBio- CO2	Total CO2 Ib/ 0.0000	0.0226 CH4 Jay	N2O	CO2e

CalEEMod Version: CalEEMod.2016.3.2 Page 40 of 120 Date: 2/11/2021 2:11 PM Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer 3.4 Reconductoring Segment Site Development Mobilization -2022 Mitigated Construction Off-Site PM10 Total Exhaust PM2.5 PM2.5 Total Bio- CO2 NBio- CO2 Total CO2 CH4 N2O CO2e ROG NOx CO SO2 Fugitive PM10 Exhaust PM10 Fugitive PM2.5 Category lb/day lb/day 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 Hauling 0.0000 Vendor 0.0484 1.4275 0.3847 4.3700e-0.1203 5.3900e-003 0.1257 0.0346 5.1500e 0.0398 465.4742 465.4742 0.0198 465.9701 003 003 Worker 0.0471 0.0330 0.3453 9.3000e-0.1051 6.8000e-0.1057 0.0279 6.2000e 0.0285 92.9548 92.9548 2.7200e 93.0228 004 004 004 003 Total 0.0955 1.4604 0.7300 5.3000e-0.2254 6.0700e-0.2314 0.0625 5.7700e 0.0683 558.4290 558.4290 0.0226 558.9929 003 003 003 3.5 Reconductoring Segment Pole Installation Transfer **Distribution Pole Removal - 2022 Unmitigated Construction On-Site** PM2.5 Total ROG NOx со SO2 Fugitive PM10 Exhaust PM10 PM10 Total Fugitive PM2.5 Exhaust PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4 N2O CO2e Category lb/day lb/day Off-Road 1.7144 16.6546 10.2236 0.0373 0.6496 0.6496 0.5977 0.5977 3,611.1243 3,611.1243 1.1679 3,640.3221 10.2236 0.0373 0.6496 0.6496 3,611.1243 3,611.1243 1.1679 3,640.3221 Total 1.7144 16.6546 0.5977 0.5977

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			Estrella S	Substatio	n and Pa	iso Roble	es Area F	Reinforce	ment Pr	oject - Sa	n Luis Ol	oispo Co	unty, Sur	nmer		
Pecon	ductoring	a Soam	ont Pol	o Inctall	ation Tr	anefor										
	n Pole R			; mstan		ansiei										
mitigated	d Constru	ction Of	f-Site													
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category				L	lb/	day							lb/e	day		
										1						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0630	1.8557	0.5001	5.6800e- 003	0.1564	7.0000e- 003	0.1634	0.0450	6.7000e- 003	0.0517		605.1165	605.1165	0.0258		605.7611
Worker	0.0886	0.0596	0.6289	1.6400e- 003	0.1828	1.2200e- 003	0.1841	0.0485	1.1200e- 003	0.0496	1	163.1212	163.1212	4.8800e- 003		163.2433
Total	0.1516	1.9153	1.1289	7.3200e- 003	0.3392	8.2200e- 003	0.3475	0.0935	7.8200e- 003	0.1013		768.2377	768.2377	0.0307		769.0044
			L	L		I						<u> </u>				
igated C	onstructi	on On-S	ite													
	ROG	NOx	со	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	i i i i i i i i i i i i i i i i i i i	HOX	00	002	PM10	PM10	Total	PM2.5	PM2.5	T MELO TOLU	510 002	110/0 002	10101 002	ont	1120	0020
					lb/	day							lb/e	day		
Category			10.2236	0.0373		0.6496	0.6496		0.5977	0.5977	0.0000	3,611.1243	3,611.1243	1.1679		3,640.3221
Category Off-Road	1.7144	16.6546	•			0.6496	0.6496		0.5977	0.5977	0.0000	3,611.1243	3,611.1243	1.1679		3,640.3221
	1.7144 1.7144	16.6546 16.6546	10.2236	0.0373												
Off-Road			10.2236	0.0373												
Off-Road			10.2236	0.0373		-										

CalEEMo	d Version:	CalEEM	od.2016.	3.2			F	Page 42 d	of 120				Dat	e: 2/11/2	2021 2:1	1 PM
			Estrella S	Substatio	n and Pa	aso Roble	es Area F	Reinforce	ment Pro	oject - Sa	n Luis Ot	oispo Cou	unty, Sun	nmer		
_																
	ductoring n Pole R			e Install	ation Ti	ransfer										
tigated C	onstructi	on Off-S	ite													
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	l /day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
								L	6.7000e-	0.0517		605.1165	605.1165	0.0258		605.7611
Vendor	0.0630	1.8557	0.5001	5.6800e-	0.1564	7.0000e-	0.1634	0.0450		0.0517	1	005.1105	000.1100			005.7011
Vendor Worker	0.0630	1.8557 0.0596	0.5001	003 1.6400e-	0.1564	003 1.2200e-	0.1634 0.1841	0.0450	003 1.1200e-	0.0517		163.1212		4.8800e-		163.2433
				003 1.6400e- 003 7.3200e-		003 1.2200e- 003 8.2200e-			003 1.1200e- 003 7.8200e-							
Worker	0.0886	0.0596	0.6289	003 1.6400e- 003	0.1828	003 1.2200e- 003	0.1841	0.0485	003 1.1200e- 003	0.0496		163.1212	163.1212	4.8800e- 003		163.2433
Worker Total	0.0886 0.1516 ductoring	0.0596 1.9153 g Segm	0.6289 1.1289 ent Pole	003 1.6400e- 003 7.3200e- 003	0.1828 0.3392	003 1.2200e- 003 8.2200e- 003	0.1841	0.0485	003 1.1200e- 003 7.8200e-	0.0496		163.1212	163.1212	4.8800e- 003		163.2433
Worker Total 5 Recont stributio	0.0886 0.1516 ductoring n Pole R	0.0596 1.9153 g Segm emoval	0.6289 1.1289 ent Pole - 2023	003 1.6400e- 003 7.3200e- 003	0.1828 0.3392	003 1.2200e- 003 8.2200e- 003	0.1841	0.0485	003 1.1200e- 003 7.8200e-	0.0496		163.1212	163.1212	4.8800e- 003		163.2433
Worker Total	0.0886 0.1516 ductoring	0.0596 1.9153 g Segm emoval	0.6289 1.1289 ent Pole - 2023	003 1.6400e- 003 7.3200e- 003	0.1828 0.3392	003 1.2200e- 003 8.2200e- 003	0.1841	0.0485	003 1.1200e- 003 7.8200e-	0.0496		163.1212	163.1212	4.8800e- 003		163.2433
Worker Total 5 Recont stributio	0.0886 0.1516 ductoring n Pole R d Constru	0.0596 1.9153 g Segm emoval action Or	0.6289 1.1289 ent Pole - 2023 n-Site	003 1.6400e- 003 7.3200e- 003 e Install	0.1828 0.3392 ation Tr	003 1.2200e- 003 8.2200e- 003	0.1841	0.0485	003 1.1200e- 003 7.8200e- 003	0.0496		163.1212 768.2377	163.1212 768.2377	4.8800e- 003 0.0307		163.2433
Worker Total 5 Recont stributio	0.0886 0.1516 ductoring n Pole R	0.0596 1.9153 g Segm emoval	0.6289 1.1289 ent Pole - 2023	003 1.6400e- 003 7.3200e- 003	0.1828 0.3392	003 1.2200e- 003 8.2200e- 003	0.1841	0.0485	003 1.1200e- 003 7.8200e-	0.0496	Bio- CO2	163.1212	163.1212 768.2377	4.8800e- 003	N2O	163.2433
Worker Total 5 Recont stributio	0.0886 0.1516 ductoring n Pole R d Constru	0.0596 1.9153 g Segm emoval action Or	0.6289 1.1289 ent Pole - 2023 n-Site	003 1.6400e- 003 7.3200e- 003 e Install	0.1828 0.3392 ation Tr	003 1.2200e- 003 8.2200e- 003 ransfer	0.1841 0.3475 PM10	0.0485 0.0935 Fugitive	003 1.1200e- 003 7.8200e- 003 Exhaust	0.0496	Bio- CO2	163.1212 768.2377	163.1212 768.2377	4.8800e- 003 0.0307 CH4	N2O	163.2433
Worker Total 5 Recond stributio mitigated	0.0886 0.1516 ductoring n Pole R d Constru	0.0596 1.9153 g Segm emoval action Or	0.6289 1.1289 ent Pole - 2023 n-Site	003 1.6400e- 003 7.3200e- 003 e Install	0.1828 0.3392 ation Tr	003 1.2200e- 003 8.2200e- 003 ransfer Exhaust PM10	0.1841 0.3475 PM10	0.0485 0.0935 Fugitive	003 1.1200e- 003 7.8200e- 003 Exhaust	0.0496		163.1212 768.2377 NBio- CO2	163.1212 768.2377 Total CO2	4.8800e- 003 0.0307 CH4	N2O	163.2433
Worker Total 5 Reconstributio mitigated	ductoring n Pole R d Constru	0.0596 1.9153 g Segm emoval action Or	0.6289 1.1289 ent Pole - 2023 <u>n-Site</u>	003 1.6400e- 003 7.3200e- 003 e Install	0.1828 0.3392 ation Tr	003 1.2200e- 003 8.2200e- 003 ransfer Exhaust PM10 day	0.1841 0.3475 PM10 Total	0.0485 0.0935 Fugitive	003 1.1200e- 003 7.8200e- 003 Exhaust PM2.5	0.0496 0.1013 PM2.5 Total		163.1212 768.2377 NBio- CO2 3,613.6088	163.1212 768.2377 Total CO2	4.8800e- 003 0.0307 CH4 lay	N20	163.2433 769.0044 CO2e

	d Version:	CalEEM	lod.2016.	.3.2			F	age 43 o	of 120				Dat	te: 2/11/2	2021 2:1	1 PM
			Estrella	Substatio	n and Pa	iso Roble	es Area F	Reinforce	ment Pr	oject - Sar	n Luis Ol	oispo Co	unty, Sur	nmer		
Deser			ant Dal		-4' T.											
	ductorin n Pole R			e install	ation 11	anster										
mitigate	d Constru	ction Of	ff-Site													
	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
					PM10	PM10	Total	PM2.5	PM2.5							
Category					lb/	day							lb/e	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0474	1.4333	0.4421	5.5600e- 003	0.1564	3.3100e- 003	0.1598	0.0450	3.1700e- 003	0.0482		593.7102	593.7102	0.0239		594.3085
Worker	0.0829	0.0536	0.5744	1.5800e- 003	0.1828	1.1900e- 003	0.1840	0.0485	1.0900e- 003	0.0496		157.0149	157.0149	4.3600e- 003		157.1240
Total	0.1302	1.4868	1.0165	7.1400e- 003	0.3393	4.5000e- 003	0.3438	0.0935	4.2600e- 003	0.0978		750.7251	750.7251	0.0283		751.4325
igated C	onstructi	on On-S	ite													
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day	\$2. U			ů			lb/e	day		
Off-Road	1.6258	15.0514	9.9920	0.0373		0.5892	0.5892		0.5421	0.5421	0.0000	3,613.6088	3,613.6088	1.1687		3,642.8266
Oil-Roau	1.6258	15.0514	9.9920	0.0373		0.5892	0.5892		0.5421	0.5421	0.0000	3,613.6088	3,613.6088	1.1687		3,642.8266
Total										4						

CalEEMoo	Version:	CalEEM	od.2016.	3.2			F	Page 44 d	of 120				Dat	e: 2/11/2	2021 2:1	1 PM
			Estrella S	Substatio	n and Pa	aso Roble	es Area F	Reinforce	ment Pro	oject - Sa	n Luis Ob	oispo Cou	unty, Sun	nmer		
_		_														
	ductoring n Pole R			e Install	ation Ti	ransfer										
igated C	onstructi	on Off-S	ite													
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					100000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000	day	Total	1 112.0	1 112.0	-	-		lb/c	lay	-	
						-										
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
			0.4421	5.5600e-	0.1564	3.3100e-	0.1598	0.0450	3.1700e-	0.0482		593.7102	593.7102	0.0239		594.3085
Vendor	0.0474	1.4333	0.4421	003		003			003							
Vendor Worker	0.0474 0.0829	1.4333 0.0536	0.5744		0.1828	003 1.1900e- 003	0.1840	0.0485	003 1.0900e- 003	0.0496		157.0149	157.0149	4.3600e- 003		157.1240
				003 1.5800e-	0.1828 0.3393	1.1900e-	0.1840 0.3438	0.0485 0.0935	1.0900e-	0.0496		157.0149 750.7251	157.0149 750.7251	4.3600e- 003 0.0283		157.1240 751.4325
Worker Total	0.0829	0.0536	0.5744 1.0165	003 1.5800e- 003 7.1400e- 003	0.3393	1.1900e- 003 4.5000e-			1.0900e- 003 4.2600e-					003		
Worker Total 5 230-KV	0.0829 0.1302 Substat	0.0536 1.4868 tion Acc	0.5744 1.0165 cess Ro	003 1.5800e- 003 7.1400e- 003	0.3393	1.1900e- 003 4.5000e-			1.0900e- 003 4.2600e-					003		
Worker Total 5 230-KV	0.0829	0.0536 1.4868 tion Acc	0.5744 1.0165 cess Ro	003 1.5800e- 003 7.1400e- 003	0.3393	1.1900e- 003 4.5000e-			1.0900e- 003 4.2600e-					003		
Worker Total 5 230-KV	0.0829 0.1302 Substat	0.0536 1.4868 tion Acc	0.5744 1.0165 cess Ro	003 1.5800e- 003 7.1400e- 003	0.3393	1.1900e- 003 4.5000e-			1.0900e- 003 4.2600e-					003		
Worker Total 5 230-KV	0.0829 0.1302 Substat	0.0536 1.4868 tion Acc	0.5744 1.0165 cess Ro	003 1.5800e- 003 7.1400e- 003	0.3393	1.1900e- 003 4.5000e-			1.0900e- 003 4.2600e-		Bio- CO2		750.7251	003	N2O	
Worker Total 5 230-KV	0.0829 0.1302 Substat	0.0536 1.4868 tion Acc	0.5744 1.0165 cess Ro <u>n-Site</u>	003 1.5800e- 003 7.1400e- 003 ads - 20	0.3393 022 Fugitive PM10	1.1900e- 003 4.5000e- 003	0.3438 PM10	0.0935 Fugitive	1.0900e- 003 4.2600e- 003	0.0978	Bio- CO2	750.7251	750.7251	003 0.0283 CH4	N20	751.4325
Worker Total	0.0829 0.1302 Substat	0.0536 1.4868 tion Acc	0.5744 1.0165 cess Ro <u>n-Site</u>	003 1.5800e- 003 7.1400e- 003 ads - 20	0.3393 022 Fugitive PM10	1.1900e- 003 4.5000e- 003 Exhaust PM10	0.3438 PM10	0.0935 Fugitive	1.0900e- 003 4.2600e- 003	0.0978	Bio- CO2	750.7251	750.7251 Total CO2	003 0.0283 CH4	N2O	751.4325
Worker Total	0.0829 0.1302 Substat	0.0536 1.4868 tion Acc	0.5744 1.0165 cess Ro <u>n-Site</u>	003 1.5800e- 003 7.1400e- 003 ads - 20	0.3393 022 Fugitive PM10 Ib/	1.1900e- 003 4.5000e- 003 Exhaust PM10 day	0.3438 PM10 Total	0.0935 Fugitive PM2.5	1.0900e- 003 4.2600e- 003 Exhaust PM2.5	0.0978 PM2.5 Total		750.7251 NBio- CO2	750.7251 Total CO2 Ib/c	003 0.0283 CH4 lay	N2O	751.4325 CO2e
Worker Total 3 230-kV mitigated Category ugitive Dust	0.0829 0.1302 Substat Constru	0.0536 1.4868 tion Acc action Or	0.5744 1.0165 cess Ro n-Site	003 1.5800e- 003 7.1400e- 003 ads - 20	0.3393 022 Fugitive PM10 Ib/	1.1900e- 003 4.5000e- 003 Exhaust PM10 day	0.3438 PM10 Total	0.0935 Fugitive PM2.5	1.0900e- 003 4.2600e- 003 Exhaust PM2.5	0.0978 PM2.5 Total 0.0000		750.7251 NBio- CO2 3,160.4485	750.7251 Total CO2 Ib/c	003 0.0283 CH4 lay	N2O	751.4325 CO2e

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

3.6 230-kV Substation Access Roads - 2022

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	'day							lb/o	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0635	2.2904	0.6095	3.5200e- 003	0.0588	3.7800e- 003	0.0625	0.0170	3.6100e- 003	0.0206		376.1312	376.1312	0.0291		376.8573
Worker	0.0667	0.0476	0.4969	1.3700e- 003	0.1543	9.8000e- 004	0.1553	0.0409	9.0000e- 004	0.0418		136.0244	136.0244	3.9400e- 003		136.1229
Total	0.1303	2.3380	1.1063	4.8900e- 003	0.2131	4.7600e- 003	0.2178	0.0579	4.5100e- 003	0.0624		512.1556	512.1556	0.0330		512.9802

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day	<u>.</u>						lb/d	ay		
ugitive Dust				[0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.3863	11.3787	11.1933	0.0327		0.4721	0.4721	1	0.4344	0.4344	0.0000	3,160.4485	3,160.4485	1.0222		3,186.0023
Total	1.3863	11.3787	11.1933	0.0327	0.0000	0.4721	0.4721	0.0000	0.4344	0.4344	0.0000	3,160.4485	3,160.4485	1.0222		: 3,186.0023

CalEEMod Version: CalEEMod.2016.3.2 Page 46 of 120 Date: 2/11/2021 2:11 PM Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer 3.6 230-kV Substation Access Roads - 2022 Mitigated Construction Off-Site ROG PM10 Total Exhaust PM2.5 PM2.5 Total Bio- CO2 NBio- CO2 Total CO2 CH4 N2O CO2e NOx co SO2 Fugitive PM10 Exhaust PM10 Fugitive PM2.5 lb/day lb/day Category Hauling 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 3.5200e-003 0.0588 0.0625 0.0170 3.6100e-0.0206 376.1312 376.1312 0.0291 376.8573 Vendor 0.0635 2.2904 0.6095 3.7800e-003 003 Worker 0.0667 0.0476 0.4969 1.3700e-0.1543 9.8000e-0.1553 0.0409 9.0000e 0.0418 136.0244 136.0244 3.9400e-136.1229 003 004 004 003 Total 0.1303 2.3380 1.1063 4.8900e-0.2131 4.7600e 0.2178 0.0579 4.5100e 0.0624 512.1556 512.1556 0.0330 512.9802 003 003 003 3.7 230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization - 2022 **Unmitigated Construction On-Site** PM2.5 Total Bio- CO2 NBio- CO2 Total CO2 CH4 N2O ROG PM10 Total Exhaust PM2.5 CO2e NOx co SO2 Fugitive PM10 Exhaust PM10 Fugitive PM2.5 Category lb/day lb/day 3.4427 0.0000 Fugitive Dust 7.2392 0.0000 7.2392 3.4427 0.0000 0.0000 13,644.869 13,644.869 4.4130 6.6584 59.5744 42.1219 0.1410 2.3287 2.3287 2.1424 2.1424 13,755.195 Off-Road 8 8 5 Total 6.6584 59.5744 42.1219 0.1410 7.2392 2.3287 9.5680 3.4427 2.1424 5.5851 13,644.869 13,644.869 4.4130 13,755.195 8 8 5

	Version:	CalEEM	od.2016.	3.2			F	Page 47 o	of 120				Dat	te: 2/11/2	2021 2:1	1 PM
			Estrella	Substatio	n and Pa	aso Roble	es Area F	Reinforce	ement Pr	oject - Sa	n Luis Ol	bispo Co	unty, Sur	nmer		
	_			_	_											
7 230-kV obilizatio			e Prep (Grading	Entran	ce Road	d Culve	rts								
nmitigated			f-Site													
		-							-	-		-				
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					llb/	l							llb/e	lay		-
		1 0000	1 0000			0.0172	0.0004	0.0704		0.0040	ļ	14 005 0070	1,365.3872	0.0705		14 007 07 47
Hauling	0.1228	4.3226	1.0232	0.0126	0.2860		0.3031	0.0784	0.0164	0.0948						1,367.3747
Vendor	0.0523	1.9434	0.5162	2.5800e- 003	0.0340	2.6300e- 003	0.0367	9.8700e- 003	2.5100e- 003	0.0124		275.4384	275.4384	0.0243		276.0463
Worker	0.0690	0.0486	0.5079	1.3800e- 003	0.1553	1.0000e- 003	0.1563	0.0412	9.2000e- 004	0.0421		137.2892	137.2892	4.0100e- 003		137.3894
Total	0.2440	6.3146	2.0473	0.0166	0.4753	0.0208	0.4961	0.1294	0.0199	0.1493	i —	1 770 1140	1,778.1148	0.1078		
								0.12.04	0.0199	0.1493		1,110.1140	1,770.1140	0.1070		1,780.8104
								0.1254	0.0199	0.1493		1,770.1140	1,770.1140	0.1070		1,780.8104
								0.1204	0.0199	0.1495		1,770.1140	1,770.1140	0.1070		1,780.8104
	1							0.1234	0.0135	0.1493		1,770.1140	1,70.1140	0.1070		1,780.8104
itigated Co	onstructi	on On-S	ite					0.1254	0.0135	0.1493		1,770.1140	1,70.1140	0.1070		1,780.8104
itigated Co	onstructi	on On-S	ite					0.1204	0.0199	0.1493		1,776.1140		0.1070		1,780.8104
itigated Co	onstructi	on On-S	ite co	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5 Total	Bio- CO2	NBio- CO2	<u> </u>	CH4	N2O	1,780.8104
				SO2	PM10	Exhaust PM10					Bio- CO2		Total CO2	CH4	N2O	
itigated Co				SO2	PM10	Exhaust	PM10	Fugitive	Exhaust		Bio- CO2		<u> </u>	CH4	N2O	
				SO2	PM10	Exhaust PM10	PM10	Fugitive	Exhaust		Bio- CO2		Total CO2	CH4	N2O	
Category				SO2	PM10 lb/	Exhaust PM10 day	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2 Ib/ 0.0000 13,644.869	CH4 Jay	N20	CO2e 0.0000 13.755.195
Category Fugitive Dust Off-Road	ROG	NOx 59,5744	CO 42.1219	0.1410	PM10 lb/ 2.8233	Exhaust PM10 day 0.0000 2.3287	PM10 Total 2.8233 2.3287	Fugitive PM2.5	Exhaust PM2.5 0.0000	PM2.5 Total 1.3427 2.1424	0.0000	NBio- CO2	Total CO2 Ib/ 0.0000 13,644.869 8	CH4 Jay 4.4130	N2O	CO2e 0.0000 13,755.195 5
Category Fugitive Dust	ROG 6.6584	NOx	со		PM10 lb/	Exhaust PM10 day	PM10 Total 2.8233	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total		NBio- CO2	Total CO2 Ib/ 0.0000 13,644.869	CH4 Jay 4.4130	N2O	CO2e 0.0000 13.755.195

			Estrella s	Substatio	n and Pa	aso Roble	es Area F	Reinforce	ment Pr	oject - Sa	n Luis Ob	oispo Co	unty, Sur	nmer		
7 230-kV			e Prep (Grading	Entran	ce Road	d Culve	rts								
obilizatio tigated Co			ite													
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	/day					lb/e	lay		I		
Hauling	0.1228	4.3226	1.0232	0.0126	0.2860	0.0172	0.3031	0.0784	0.0164	0.0948		1,365.3872	1,365.3872	0.0795		1,367.3747
Vendor	0.0523	1.9434	0.5162	2.5800e- 003	0.0340	2.6300e- 003	0.0367	9.8700e- 003	2.5100e- 003	0.0124		275.4384	275.4384	0.0243		276.0463
Worker	0.0690	0.0486	0.5079	1.3800e-	0.1553	1.0000e-	0.1563	0.0412	9.2000e-	0.0421		137.2892	137.2892	4.0100e-		137.3894
Trontor			1	003		003			004					003		
Total	0.2440	6.3146	2.0473	003 0.0166	0.4753	003	0.4961	0.1294	004 0.0199	0.1493		1,778.1148	1,778.1148	003 0.1078		1,780.8104
					0.4753		0.4961	0.1294		0.1493		1,778.1148	1,778.1148	(Vitraine)		1,780.8104
	0.2440	6.3146	2.0473	0.0166		0.0208		0.1294		0.1493		1,778.1148	1,778.1148	(Vitraine)		1,780.8104
Total	0.2440 Substa	6.3146	2.0473 2.0473	0.0166		0.0208		0.1294		0.1493		1,778.1148	1,778.1148	(Vitraine)		1,780.8104
Total 8 230-kV	0.2440 Substa	6.3146	2.0473 2.0473	0.0166		0.0208		0.1294		0.1493		1,778.1148	1,778.1148	(Vitraine)		1,780.8104
Total 8 230-kV	0.2440 Substa	6.3146 tion Fer	2.0473 nce and n-Site	0.0166	stallati	0.0208	22		0.0199			2	2	0.1078		
Total 8 230-kV	0.2440 Substa	6.3146	2.0473 2.0473	0.0166		0.0208		0.1294 Fugitive PM2.5		0.1493 PM2.5 Total	Bio- CO2	1,778.1148 NBio- CO2	2	(Vitration)	N2O	1,780.8104
Total 8 230-kV	0.2440 Substa	6.3146 tion Fer	2.0473 nce and n-Site	0.0166	Fugitive PM10	0.0208 0n - 202	22 PM10	Fugitive	0.0199 Exhaust		Bio- CO2	2	Total CO2	0.1078	N2O	
Total 8 230-kV amitigated	0.2440 Substa	6.3146 tion Fer	2.0473 nce and n-Site	0.0166 Gate In SO2	Fugitive PM10	0.0208 0n - 202 Exhaust PM10	22 PM10	Fugitive	0.0199 Exhaust		Bio- CO2	2	Total CO2	0.1078 CH4	N2O	
Total 8 230-kV amitigated	0.2440 Substa d Constru	6.3146 tion Fer action Or	2.0473 nce and n-Site	0.0166 Gate In SO2	Fugitive PM10	0.0208 on - 202 Exhaust PM10 (day	PM10 Total	Fugitive	0.0199 Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	0.1078 CH4 Jay	N2O	CO2e

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

3.8 230-kV Substation Fence and Gate Installation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	-				lb/	day							lb/o	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0574	2.0722	0.5513	3.1600e- 003	0.0520	3.3700e- 003	0.0554	0.0150	3.2300e- 003	0.0183		337.1875	337.1875	0.0263		337.8439
Worker	0.0403	0.0267	0.2821	7.2000e- 004	0.0805	5.4000e- 004	0.0810	0.0214	5.0000e- 004	0.0219		72.0390	72.0390	2.1800e- 003		72.0934
Total	0.0976	2.0989	0.8334	3.8800e- 003	0.1325	3.9100e- 003	0.1364	0.0364	3.7300e- 003	0.0401		409.2265	409.2265	0.0284		409.9373

Category					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/o	day							lb/c	lay		
Off-Road 0.03	.0348	0.4643	0.6936	1.0400e- 003		0.0173	0.0173		0.0159	0.0159	0.0000	100.1956	100.1956	0.0324		101.0058
Total 0.03	.0348	0.4643	0.6936	1.0400e- 003		0.0173	0.0173		0.0159	0.0159	0.0000	100.1956	100.1956	0.0324		101.0058

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230-kV	Substat	tion Fer	nce and	Gate In	stallati	on - 202	2									
ated C	onstructi	on Off-S	ite													
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tegory					llb/	day							llb/e	day		
auling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	1	0.0000
endor	0.0574	2.0722	0.5513	3.1600e- 003	0.0520	3.3700e- 003	0.0554	0.0150	3.2300e- 003	0.0183		337.1875	337.1875	0.0263		337.8439
orker	0.0403	0.0267	0.2821	7.2000e- 004	0.0805	5.4000e- 004	0.0810	0.0214	5.0000e- 004	0.0219		72.0390	72.0390	2.1800e- 003		72.0934
			1			:			:							
lotal	0.0976	2.0989	0.8334	3.8800e- 003	0.1325	3.9100e- 003	0.1364	0.0364	3.7300e- 003	0.0401		409.2265	409.2265	0.0284		409.9373
Fotal				3.8800e- 003		003		0.0364		0.0401		409.2265	409.2265	0.0284		409.9373
Recond	ductoring	g Segm	ent Cor	3.8800e- 003		003		0.0364		0.0401		409.2265	409.2265	0.0284		409.9373
Recond		g Segm	ent Cor	3.8800e- 003		003		0.0364		0.0401		409.2265	409.2265	0.0284		409.9373
Recond	ductoring	g Segm	ent Cor	3.8800e- 003		003		0.0364		0.0401		409.2265	409.2265	0.0284		409.9373
Recond	ductoring	g Segm	ent Cor	3.8800e- 003		003		Fugitive PM2.5		0.0401	Bio- CO2	409.2265 NBio- CO2		0.0284 CH4	N2O	409.9373 409.2373 CO2e
Recond	ductoring I Constru	g Segm	ent Cor <u>n-Site</u>	3.8800e- 003	Installa Fugitive PM10	003 tion - 20	022 PM10	Fugitive	003 Exhaust	(1992)(973)	Bio- CO2		Total CO2	424933680237	N2O	
Recond	ductoring I Constru	g Segm	ent Cor <u>n-Site</u>	3.8800e- 003	Installa Fugitive PM10	003 tion - 20 Exhaust PM10	022 PM10	Fugitive	003 Exhaust	(1992)(973)		NBio- CO2	Total CO2	CH4	N2O	
Recond	ductoring I Constru ROG	g Segm action Or	ent Cor n-Site	3.8800e- 003 nductor	Installa Fugitive PM10	003 tion - 20 Exhaust PM10 Iday	PM10 Total	Fugitive	Exhaust PM2.5	PM2.5 Total		NBio- CO2 6,502.7190	Total CO2 Ib/a	CH4 day 2.1031	N2O	CO2e
Recond itigated itegory	ROG 2.8207	NOx 21.9934	ent Cor n-Site co	3.8800e- 003 nductor SO2	Installa Fugitive PM10	003 tion - 2C Exhaust PM10 day	PM10 Total 0.8771	Fugitive	003 Exhaust PM2.5 0.8069	PM2.5 Total		NBio- CO2 6,502.7190	Total CO2 Ib/	CH4 day 2.1031	N2O	CO2e 6,555.2967
Recond itigated itegory	ROG 2.8207	NOx 21.9934	ent Cor n-Site co	3.8800e- 003 nductor SO2	Installa Fugitive PM10	003 tion - 2C Exhaust PM10 day	PM10 Total 0.8771	Fugitive	003 Exhaust PM2.5 0.8069	PM2.5 Total		NBio- CO2 6,502.7190	Total CO2 Ib/	CH4 day 2.1031	N2O	CO2e 6,555.2967

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

3.9 Reconductoring Segment Conductor Installation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	-				lb/	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0484	1.4275	0.3847	4.3700e- 003	0.1203	5.3900e- 003	0.1257	0.0346	5.1500e- 003	0.0398		465.4742	465.4742	0.0198		465.9701
Worker	0.0722	0.0504	0.5278	1.4200e- 003	0.1598	1.0300e- 003	0.1609	0.0424	9.5000e- 004	0.0434		141.5235	141.5235	4.1500e- 003		141.6273
Total	0.1207	1.4778	0.9125	5.7900e- 003	0.2801	6.4200e- 003	0.2866	0.0770	6.1000e- 003	0.0831		606.9977	606.9977	0.0240		607.5974

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
ategory					lb/	day							lb/d	ay		
ff-Road	2.8207	21.9934	19.2902	0.0672		0.8771	0.8771		0.8069	0.8069	0.0000	6,502.7189	6,502.7189	2.1031		6,555.2967
Total	2.8207	21.9934	19.2902	0.0672		0.8771	0.8771		0.8069	0.8069	0.0000	6,502.7189	6,502.7189	2.1031		6,555.2967

CalEEMod Version: CalEEMod.2016.3.2 Page 52 of 120 Date: 2/11/2021 2:11 PM Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer 3.9 Reconductoring Segment Conductor Installation - 2022 **Mitigated Construction Off-Site** ROG NOx SO2 PM10 Total Exhaust PM2.5 PM2.5 Total Bio- CO2 NBio- CO2 Total CO2 CH4 N2O CO2e co Fugitive PM10 Exhaust PM10 Fugitive PM2.5 lb/day lb/day Category 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 Hauling 0.0484 0.3847 4.3700e-003 0.1203 5.3900e-003 0.1257 0.0346 5.1500e 0.0398 465.4742 465.4742 0.0198 465.9701 Vendor 1.4275 003 Worker 0.0722 0.0504 0.5278 1.4200e-0.1598 1.0300e-0.1609 0.0424 9.5000e 0.0434 141.5235 141.5235 4.1500e-141.6273 003 003 004 003 Total 0.1207 1.4778 0.9125 5.7900e-0.2801 6.4200e 0.2866 0.0770 6.1000e 0.0831 606.9977 606.9977 0.0240 607.5974 003 003 003 3.9 Reconductoring Segment Conductor Installation - 2023 **Unmitigated Construction On-Site** ROG PM10 Total Exhaust PM2.5 PM2.5 Total Bio- CO2 NBio- CO2 Total CO2 CH4 N20 CO2e NOx co SO2 Exhaust PM10 Fugitive PM2.5 Fugitive PM10 lb/day lb/day Category 2.1045 Off-Road 2.6753 19.6218 18.9364 0.0672 0.7684 0.7684 0.7069 6,507.0092 6,507.0092 6,559.6217 0.7069 Total 2.6753 19.6218 18.9364 0.0672 0.7684 0.7684 0.7069 0.7069 6,507.0092 6,507.0092 2.1045 6,559.6217

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

3.9 Reconductoring Segment Conductor Installation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/o	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0364	1.1025	0.3401	4.2800e- 003	0.1203	2.5500e- 003	0.1229	0.0346	2.4400e- 003	0.0371		456.7001	456.7001	0.0184		457.1604
Worker	0.0676	0.0453	0.4824	1.3700e- 003	0.1598	1.0100e- 003	0.1608	0.0424	9.3000e- 004	0.0433		136.2222	136.2222	3.7100e- 003		136.3150
Total	0.1040	1.1478	0.8224	5.6500e- 003	0.2802	3.5600e- 003	0.2837	0.0770	3.3700e- 003	0.0804		592.9224	592.9224	0.0221		593.4753

U	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
ategory					lb/	day							lb/d	lay		
ff-Road	2.6753	19.6218	18.9364	0.0672		0.7684	0.7684		0.7069	0.7069	0.0000	6,507.0092	6,507.0092	2.1045		6,559.6216
Total	2.6753	19.6218	18.9364	0.0672		0.7684	0.7684		0.7069	0.7069	0.0000	6,507.0092	6,507.0092	2.1045		6,559.6216

Pasan	ductoring									oject - Sar			,			
	onstructi			lucion	mətana	1011 - 20	25									
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0364	1.1025	0.3401	4.2800e- 003	0.1203	2.5500e- 003	0.1229	0.0346	2.4400e- 003	0.0371		456.7001	456.7001	0.0184		457.1604
Worker	0.0676	0.0453	0.4824	1.3700e- 003	0.1598	1.0100e- 003	0.1608	0.0424	9.3000e- 004	0.0433		136.2222	136.2222	3.7100e- 003		136.3150
Total	0.1040	1.1478	0.8224	5.6500e- 003	0.2802	3.5600e- 003	0.2837	0.0770	3.3700e- 003	0.0804		592.9224	592.9224	0.0221		593.4753
n 23n_k	V Subst	ation Fo	oundation	on Cons	structio	n - 2022										
	d Constru															
	ROG	NOx	n-Site	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
				SO2	PM10			Fugitive PM2.5		PM2.5 Total	Bio- CO2	NBio- CO2	Description	CH4 day	N2O	CO2e
nitigate				SO2 0.0150	PM10	PM10		Fugitive PM2.5		PM2.5 Total 0.2187	Bio- CO2		Description	day	N2O	CO2e
nitigated	ROG	NOx	со		PM10	PM10 day	Total	Fugitive PM2.5	PM2.5		Bio- CO2	1,451.1041	lb/	day	N2O	

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

3.10 230-kV Substation Foundation Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	'day							lb/e	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0593	2.1413	0.5697	3.2600e- 003	0.0538	3.4900e- 003	0.0573	0.0155	3.3300e- 003	0.0189		348.4271	348.4271	0.0271		349.1053
Worker	0.0608	0.0434	0.4525	1.2400e- 003	0.1403	8.9000e- 004	0.1412	0.0372	8.2000e- 004	0.0380		123.6949	123.6949	3.5900e- 003		123.7846
Total	0.1201	2.1847	1.0222	4.5000e- 003	0.1941	4.3800e- 003	0.1984	0.0528	4.1500e- 003	0.0569		472.1220	472.1220	0.0307		472.8899

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
ategory					lb/	day						<u> </u>	lb/c	lay		<u> </u>
ff-Road	0.5602	5.9289	4.6226	0.0150		0.2377	0.2377		0.2187	0.2187	0.0000	1,451.1041	1,451.1041	0.4693		1,462.8371
Total	0.5602	5.9289	4.6226	0.0150		0.2377	0.2377		0.2187	0.2187	0.0000	1,451.1041	1,451.1041	0.4693		1,462.8371

CalEEMod Version: CalEEMod.2016.3.2 Page 56 of 120 Date: 2/11/2021 2:11 PM Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer 3.10 230-kV Substation Foundation Construction - 2022 Mitigated Construction Off-Site ROG NOx SO2 PM10 Total Exhaust PM2.5 PM2.5 Total Bio- CO2 NBio- CO2 Total CO2 CH4 N2O CO2e co Fugitive PM10 Exhaust PM10 Fugitive PM2.5 lb/day lb/day Category 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 Hauling 3.2600e-003 0.0538 3.4900e-003 0.0573 0.0155 3.3300e 0.0189 348.4271 348.4271 0.0271 349.1053 Vendor 0.0593 2.1413 0.5697 003 Worker 0.0608 0.0434 0.4525 1.2400e-0.1403 8.9000e-0.1412 0.0372 8.2000e 0.0380 123.6949 123.6949 3.5900e-123.7846 003 004 004 003 Total 0.1201 2.1847 1.0222 4.5000e-0.1941 4.3800e 0.1984 0.0528 4.1500e 0.0569 472.1220 472.1220 0.0307 472.8899 003 003 003 3.11 70-kV Substation Mobilization - 2022 **Unmitigated Construction On-Site** ROG PM10 Total Exhaust PM2.5 PM2.5 Total Bio- CO2 NBio- CO2 Total CO2 CH4 N20 CO2e NOx SO2 Exhaust PM10 Fugitive PM2.5 co Fugitive PM10 lb/day lb/day Category 0.2651 0.0000 0.0286 0.0286 0.0000 Fugitive Dust 0.2651 0.0000 0.0000 Off-Road 0.2899 3.4666 1.9799 4.8700e-0.1287 0.1287 0.1184 0.1184 471.2589 471.2589 0.1524 475.0693 003 4.8700e-0.2651 0.0286 0.1470 471.2589 471.2589 0.1524 475.0693 Total 0.2899 3.4666 1.9799 0.1287 0.3938 0.1184 003

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

3.11 70-kV Substation Mobilization - 2022

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/e	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0291	0.8565	0.2308	2.6200e- 003	0.0722	3.2300e- 003	0.0754	0.0208	3.0900e- 003	0.0239		279.2845	279.2845	0.0119		279.5820
Worker	0.0419	0.0294	0.3072	8.3000e- 004	0.0935	6.0000e- 004	0.0941	0.0248	5.6000e- 004	0.0254		82.7298	82.7298	2.4200e- 003		82.7903
Total	0.0709	0.8858	0.5380	3.4500e- 003	0.1657	3.8300e- 003	0.1695	0.0456	3.6500e- 003	0.0492		362.0143	362.0143	0.0143		362.3723

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1034	0.0000	0.1034	0.0112	0.0000	0.0112			0.0000			0.0000		
Off-Road	0.2899	3.4666	1.9799	4.8700e- 003		0.1287	0.1287		0.1184	0.1184	0.0000	471.2589	471.2589	0.1524		475.0693		
Total	0.2899	3.4666	1.9799	4.8700e- 003	0.1034	0.1287	0.2321	0.0112	0.1184	0.1295	0.0000	471.2589	471.2589	0.1524		475.0693		

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

3.11 70-kV Substation Mobilization - 2022

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	-	lb/day									lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	
Vendor	0.0291	0.8565	0.2308	2.6200e- 003	0.0722	3.2300e- 003	0.0754	0.0208	3.0900e- 003	0.0239		279.2845	279.2845	0.0119		279.5820	
Worker	0.0419	0.0294	0.3072	8.3000e- 004	0.0935	6.0000e- 004	0.0941	0.0248	5.6000e- 004	0.0254		82.7298	82.7298	2.4200e- 003		82.7903	
Total	0.0709	0.8858	0.5380	3.4500e- 003	0.1657	3.8300e- 003	0.1695	0.0456	3.6500e- 003	0.0492		362.0143	362.0143	0.0143		362.3723	

3.12 70-kV Substation Foundation Construction - 2022

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	Ib/day									lb/day						
Off-Road	0.7527	7.3217	6.8781	0.0159		0.4023	0.4023		0.3702	0.3702		1,541.7492	1,541.7492	0.4986		1,554.2150
Total	0.7527	7.3217	6.8781	0.0159		0.4023	0.4023	3	0.3702	0.3702		1,541.7492	1,541.7492	0.4986		1,554.2150

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

3.12 70-kV Substation Foundation Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/o	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0630	1.8557	0.5001	5.6800e- 003	0.1564	7.0000e- 003	0.1634	0.0450	6.7000e- 003	0.0517		605.1165	605.1165	0.0258		605.7611
Worker	0.0612	0.0437	0.4555	1.2500e- 003	0.1415	9.0000e- 004	0.1424	0.0375	8.3000e- 004	0.0384		124.6891	124.6891	3.6100e- 003		124.7794
Total	0.1241	1.8994	0.9556	6.9300e- 003	0.2979	7.9000e- 003	0.3058	0.0825	7.5300e- 003	0.0900		729.8055	729.8055	0.0294		730.5405

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
ategory					lb/	day							lb/d	lay		
off-Road	0.7527	7.3217	6.8781	0.0159		0.4023	0.4023		0.3702	0.3702	0.0000	1,541.7492	1,541.7492	0.4986		1,554.2150
Total	0.7527	7.3217	6.8781	0.0159		0.4023	0.4023		0.3702	0.3702	0.0000	1,541.7492	1,541.7492	0.4986		1,554.2150

2 70-41	/ Substa	tion Fo	Indatio	n Const	ruction	- 2022										
	onstructi			il conot	lucton	LULL										
	-															
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	'day							lb/o	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0630	1.8557	0.5001	5.6800e- 003	0.1564	7.0000e- 003	0.1634	0.0450	6.7000e- 003	0.0517		605.1165	605.1165	0.0258		605.7611
Worker	0.0612	0.0437	0.4555	1.2500e- 003	0.1415	9.0000e- 004	0.1424	0.0375	8.3000e- 004	0.0384		124.6891	124.6891	3.6100e- 003		124.7794
Total	0.1241	1.8994	0.9556	6.9300e- 003	0.2979	7.9000e- 003	0.3058	0.0825	7.5300e- 003	0.0900	Ì	729.8055	729.8055	0.0294		730.5405
370-KV	/ Substa d Constru					anation	- 2022									
nitigate				-	-	-		-								
nitigate	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
mitigated Category	ROG	NOx	со	SO2	PM10	Exhaust PM10 day	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2		N2O	CO2e
	ROG 0.3964	NOx 3.7915	CO 3.6277	SO2 4.8600e- 003	PM10	PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2 471.1413			N2O	CO2e
Category				4.8600e-	PM10	PM10 /day	Total	Fugitive PM2.5	PM2.5		Bio- CO2		lb/c	lay	N2O	

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

3.13 70-kV Substation Ground Grid Conduit Installation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/o	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0436	1.2847	0.3462	3.9300e- 003	0.1083	4.8500e- 003	0.1131	0.0312	4.6400e- 003	0.0358		418.9268	418.9268	0.0179		419.3731
Worker	0.0334	0.0238	0.2485	6.8000e- 004	0.0772	4.9000e- 004	0.0776	0.0205	4.5000e- 004	0.0209		68.0122	68.0122	1.9700e- 003		68.0615
Total	0.0770	1.3085	0.5947	4.6100e- 003	0.1854	5.3400e- 003	0.1908	0.0516	5.0900e- 003	0.0567		486.9390	486.9390	0.0198		487.4345

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day	<u>.</u>						lb/c	lay		
off-Road	0.3964	3.7915	3.6277	4.8600e- 003		0.2472	0.2472		0.2274	0.2274	0.0000	471.1413	471.1413	0.1524		474.9507
Total	0.3964	3.7915	3.6277	4.8600e- 003		0.2472	0.2472		0.2274	0.2274	0.0000	471.1413	471.1413	0.1524		474.9507

			Estrella S	Substatio	n and Pa	aso Roble	es Area F	Reinforce	ment Pr	oject - Sar	n Luis Ob	oispo Cou	unty, Sun	nmer		
3 70_4\/	Substat	tion Gra	und Gr	id Conc	luit loct	allation	- 2022									
	onstructi					anation	LULL									
	ROG	NOx	со	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	NO0	NOX		002	PM10	PM10	Total	PM2.5	PM2.5	1 102.0 10141	510-002	11010-002	10101 002	CITY	NEO	0020
Category					lb/	day							lb/o	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0436	1.2847	0.3462	3.9300e- 003	0.1083	4.8500e- 003	0.1131	0.0312	4.6400e- 003	0.0358		418.9268	418.9268	0.0179		419.3731
			0.2485	6.8000e-	0.0772	4.9000e-	0.0776	0.0205	4.5000e-	0.0209		68.0122	68.0122	1.9700e- 003		68.0615
Worker	0.0334	0.0238	0.2465	004		004			004					003	:	
Worker Total	0.0334 0.0770	1.3085	0.2465		0.1854	004 5.3400e- 003	0.1908	0.0516	5.0900e-	0.0567		486.9390	486.9390	0.0198		487.4345
				004 4.6100e-	0.1854		0.1908	0.0516		0.0567		486.9390	486.9390			487.4345
Total 4 230-k	0.0770	1.3085 ation Gi	0.5947 round G	004 4.6100e- 003		5.3400e- 003			5.0900e-	0.0567		486.9390	486.9390			487.4345
Total 4 230-k	0.0770	1.3085 ation Gi	0.5947 round G	004 4.6100e- 003		5.3400e- 003			5.0900e-	0.0567		486.9390	486.9390			487.4345
Total 4 230-k	0.0770	1.3085 ation Gi	0.5947 round G	004 4.6100e- 003		5.3400e- 003			5.0900e-	0.0567		486.9390	486.9390			487.4345
Total 4 230-k	0.0770	1.3085 ation Gi	0.5947 round G	004 4.6100e- 003		5.3400e- 003			5.0900e-	0.0567 PM2.5 Total	Bio- CO2	486.9390 NBio- CO2	1858030078650		N2O	487.4345 CO2e
Total 4 230-k	0.0770 V Substa d Constru	1.3085 ation Gr	0.5947 round G	004 4.6100e- 003	Fugitive PM10	5.3400e- 003	n - 2022 PM10	2 Fugitive	5.0900e- 003	1446045339	Bio- CO2		1858030078650	0.0198 CH4	N2O	1999-30 Logors
Total 4 230-k nitigated	0.0770 V Substa d Constru	1.3085 ation Gr	0.5947 round G	004 4.6100e- 003 Grid Cor SO2	Fugitive PM10	5.3400e- 003 stallatio	n - 2022 PM10	2 Fugitive	5.0900e- 003	1446045339	Bio- CO2		Total CO2	0.0198 CH4 Jay	N2O	1999-30 Logors
Total 4 230-k mitiqated	0.0770 V Substa d Constru	1.3085 ation Gr action Or	0.5947 round G <u>n-Site</u>	004 4.6100e- 003 Grid Cor SO2 3.3700e- 003 3.3700e-	Fugitive PM10	5.3400e- 003 stallatio Exhaust PM10 day	PM10 Total	2 Fugitive	5.0900e- 003 Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	0.0198 CH4 Jay	N2O	CO2e
Total 4 230-k mitigated Category Off-Road	0.0770 V Subst d Constru ROG	1.3085 ation Gr action Or NOx 3.3797	0.5947 round C <u>n-Site</u> CO 2.5990	004 4.6100e- 003 Grid Cor SO2 3.3700e- 003	Fugitive PM10	5.3400e- 003 stallatio	PM10 Total	2 Fugitive	5.0900e- 003 Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2 326,9494	Total CO2 Ib/c 326.9494	0.0198 CH4 day 0.1057	N2O	CO2e
Total 4 230-k mitigated Category Off-Road	0.0770 V Subst d Constru ROG	1.3085 ation Gr action Or NOx 3.3797	0.5947 round C <u>n-Site</u> CO 2.5990	004 4.6100e- 003 Grid Cor SO2 3.3700e- 003 3.3700e-	Fugitive PM10	5.3400e- 003 stallatio	PM10 Total	2 Fugitive	5.0900e- 003 Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2 326,9494	Total CO2 Ib/c 326.9494	0.0198 CH4 day 0.1057	N2O	CO2e

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

3.14 230-kV Substation Ground Grid Conduit Installation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/e	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0483	1.8230	0.4839	2.2400e- 003	0.0251	2.2200e- 003	0.0274	7.3000e- 003	2.1200e- 003	9.4300e- 003		239.6258	239.6258	0.0227		240.1926
Worker	0.0351	0.0254	0.2648	7.4000e- 004	0.0835	5.2000e- 004	0.0841	0.0222	4.8000e- 004	0.0226		73.4348	73.4348	2.1100e- 003		73.4876
Total	0.0834	1.8485	0.7487	2.9800e- 003	0.1087	2.7400e- 003	0.1114	0.0295	2.6000e- 003	0.0321		313.0606	313.0606	0.0248		313.6802

		NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
ategory					lb/	day							lb/d	lay		
ff-Road	0.3639	3.3797	2.5990	3.3700e- 003		0.2395	0.2395		0.2203	0.2203	0.0000	326.9494	326.9494	0.1057		329.5930
Total	0.3639	3.3797	2.5990	3.3700e- 003		0.2395	0.2395		0.2203	0.2203	0.0000	326.9494	326.9494	0.1057		329.5930

CalEEMod Version: CalEEMod.2016.3.2 Page 64 of 120 Date: 2/11/2021 2:11 PM Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer 3.14 230-kV Substation Ground Grid Conduit Installation - 2022 Mitigated Construction Off-Site ROG PM10 Total Exhaust PM2.5 PM2.5 Total Bio- CO2 NBio- CO2 Total CO2 CH4 N2O CO2e NOx со SO2 Fugitive PM10 Exhaust PM10 Fugitive PM2.5 lb/day lb/day Category 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 Hauling 0.0483 0.4839 2.2400e-003 0.0251 2.2200e-003 0.0274 7.3000e 9.4300e 239.6258 239.6258 0.0227 240.1926 Vendor 1.8230 2.1200e 003 003 003 Worker 0.0351 0.0254 0.2648 7.4000e-0.0835 5.2000e-0.0841 0.0222 4.8000e 0.0226 73.4348 73.4348 2.1100e-73.4876 004 004 004 003 Total 0.0834 1.8485 0.7487 2.9800e-0.1087 2.7400e 0.1114 0.0295 2.6000e 0.0321 313.0606 313.0606 0.0248 313.6802 003 003 003 3.15 230-kV Substation Steel Bus Erection - 2022 **Unmitigated Construction On-Site** Exhaust PM2.5 PM2.5 Total Bio- CO2 NBio- CO2 Total CO2 CH4 N20 CO2e ROG SO2 Exhaust PM10 PM10 Total NOx CO Fugitive PM10 Fugitive PM2.5 lb/day lb/day Category Off-Road 0.5550 4.4273 4.1662 0.0145 0.1536 0.1413 1,399.0142 1,399.0142 0.4525 1,410.3260 0.1536 0.1413 Total 0.5550 4.4273 4.1662 0.0145 0.1536 0.1536 0.1413 0.1413 1,399.0142 1,399.0142 0.4525 1,410.3260

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

3.15 230-kV Substation Steel Bus Erection - 2022

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	-				lb/	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0523	1.9434	0.5162	2.5800e- 003	0.0340	2.6300e- 003	0.0367	9.8700e- 003	2.5100e- 003	0.0124		275.4384	275.4384	0.0243		276.0463
Worker	0.0362	0.0264	0.2744	7.7000e- 004	0.0873	5.4000e- 004	0.0878	0.0232	5.0000e- 004	0.0237		76.6109	76.6109	2.1900e- 003		76.6658
Total	0.0884	1.9698	0.7906	3.3500e- 003	0.1213	3.1700e- 003	0.1245	0.0330	3.0100e- 003	0.0360		352.0493	352.0493	0.0265		352.7121

		NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
ategory					lb/	day							lb/d	lay		
ff-Road	0.5550	4.4273	4.1662	0.0145		0.1536	0.1536		0.1413	0.1413	0.0000	1,399.0142	1,399.0142	0.4525		1,410.3260
Total	0.5550	4.4273	4.1662	0.0145		0.1536	0.1536		0.1413	0.1413	0.0000	1,399.0142	1,399.0142	0.4525		1,410.3260

			Estrella	Substatio	n and Pa	aso Roble		Page 66 c Reinforce		oject - Sar	n Luis Ot	oispo Col		te: 2/11/2 nmer		
			Lotrona	Jubolalio	in und i e			tonnoroo	montri	ojoot ou	Laio Ok		unity, our			
5 230-k	V Subst	ation St	eel Bus	Erectio	on - 202	2										
gated C	onstructi	on Off-S	ite													
	ROG	NOx	со	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
					PM10	PM10	Total	PM2.5	PM2.5							
ategory					ID/	day							ID/0	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
/endor	0.0523	1.9434	0.5162	2.5800e- 003	0.0340	2.6300e- 003	0.0367	9.8700e- 003	2.5100e- 003	0.0124		275.4384	275.4384	0.0243		276.0463
	0.0362	0.0264	0.2744	7.7000e-	0.0873	5.4000e- 004	0.0878	0.0232	5.0000e- 004	0.0237		76.6109	76.6109	2.1900e- 003		76.6658
Norker			1	004			82. E	:								
Worker Total	0.0884	1.9698	0.7906	3.3500e- 003	0.1213	3.1700e- 003	0.1245	0.0330	3.0100e- 003	0.0360		352.0493	352.0493	0.0265		352.7121
Total		20102200000		3.3500e- 003		3.1700e- 003	0.1245	0.0330	3.0100e-	0.0360		352.0493	352.0493	0.0265		352.7121
Total 5 230-k	V Subst	ation St	eel Bus	3.3500e- 003		3.1700e- 003	0.1245	0.0330	3.0100e-	0.0360		352.0493	352.0493	0.0265		352.7121
Total 5 230-k		ation St	eel Bus	3.3500e- 003		3.1700e- 003	0.1245	0.0330	3.0100e-	0.0360		352.0493	352.0493	0.0265		352.7121
Total 5 230-k	V Subst	ation St	eel Bus	3.3500e- 003		3.1700e- 003	0.1245	0.0330	3.0100e-	0.0360		352.0493	352.0493	0.0265		352.7121
Total 5 230-k	V Subst	ation St	eel Bus	3.3500e- 003		3.1700e- 003	0.1245 PM10 Total	6.0330 Fugitive PM2.5	3.0100e-	0.0360 PM2.5 Total	Bio- CO2	352.0493 NBio- CO2		0.0265 CH4	N2O	352.7121 CO2e
Total 5 230-k nitigated	V Subst	ation St	teel Bus n-Site	3.3500e- 003	Pn - 202 Fugitive PM10	3.1700e- 003	PM10	Fugitive	3.0100e- 003	1465/9512425	Bio- CO2		Total CO2	32**3.530 0016	N2O	
Total 5 230-k nitiqated	V Subst	ation St action Or	reel Bus n-Site	3.3500e- 003 s Erectio	Pn - 202 Fugitive PM10	3.1700e- 003 3 3 Exhaust PM10 day	PM10 Total	Fugitive	3.0100e- 003 Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4 day	N2O	CO2e
Total 5 230-k' nitigated	V Subst d Constru ROG 0.5294	ation St action On NOx 3.9615	co	3.3500e- 003 Erectic SO2	Pn - 202 Fugitive PM10	3.1700e- 003 3 Exhaust PM10 day 0.1358	PM10 Total 0.1358	Fugitive	3.0100e- 003 Exhaust PM2.5 0.1250	PM2.5 Total 0.1250	Bio- CO2	NBio- CO2	Total CO2 Ib/	CH4 Jay 0.4528	N2O	CO2e
Total 5 230-k nitiqated	V Subst	ation St action Or	reel Bus n-Site	3.3500e- 003 s Erectio	Pn - 202 Fugitive PM10	3.1700e- 003 3 3 Exhaust PM10 day	PM10 Total	Fugitive	3.0100e- 003 Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4 Jay 0.4528	N2O	CO2e
Total 5 230-k' nitigated	V Subst d Constru ROG 0.5294	ation St action On NOx 3.9615	co	3.3500e- 003 Erectic SO2	Pn - 202 Fugitive PM10	3.1700e- 003 3 Exhaust PM10 day 0.1358	PM10 Total 0.1358	Fugitive	3.0100e- 003 Exhaust PM2.5 0.1250	PM2.5 Total 0.1250	Bio- CO2	NBio- CO2	Total CO2 Ib/	CH4 Jay 0.4528	N2O	CO2e
Total 5 230-k' nitigated	V Subst d Constru ROG 0.5294	ation St action On NOx 3.9615	co	3.3500e- 003 Erectic SO2	Pn - 202 Fugitive PM10	3.1700e- 003 3 Exhaust PM10 day 0.1358	PM10 Total 0.1358	Fugitive	3.0100e- 003 Exhaust PM2.5 0.1250	PM2.5 Total 0.1250	Bio- CO2	NBio- CO2	Total CO2 Ib/	CH4 Jay 0.4528	N2O	CO2e

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

3.15 230-kV Substation Steel Bus Erection - 2023

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0406	1.7137	0.4549	2.5500e- 003	0.0340	1.1600e- 003	0.0352	9.8700e- 003	1.1100e- 003	0.0110		272.7425	272.7425	0.0206		273.2586
Worker	0.0339	0.0237	0.2510	7.4000e- 004	0.0873	5.3000e- 004	0.0878	0.0232	4.9000e- 004	0.0236		73.7389	73.7389	1.9600e- 003		73.7879
Total	0.0745	1.7375	0.7059	3.2900e- 003	0.1213	1.6900e- 003	0.1230	0.0330	1.6000e- 003	0.0346		346.4814	346.4814	0.0226		347.0465

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
ategory					lb/	day							lb/d	lay		
ff-Road	0.5294	3.9615	4.0945	0.0145		0.1358	0.1358		0.1250	0.1250	0.0000	1,399.9174	1,399.9174	0.4528		1,411.2365
Total	0.5294	3.9615	4.0945	0.0145		0.1358	0.1358		0.1250	0.1250	0.0000	1,399.9174	1,399.9174	0.4528		1,411.2365

			Estrella	Substatio	n and Pa	aso Roble		Page 68 c		oject - Sar	n Luis Oł	oispo Cou	unty Sur	nmer		
			Lotronu v	Jubolulio	in and i c			Centoroc	montri	ojeot ou	T Eulo OL		unty, our			
5 230-k	V Subst	ation St	eel Bus	Erectio	on - 202	3										
gated C	onstructi	on Off-S	ite													
	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
					PM10	PM10	Total	PM2.5	PM2.5							
ategory					lb/	day							lb/e	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0406	1.7137	0.4549	2.5500e- 003	0.0340	1.1600e- 003	0.0352	9.8700e- 003	1.1100e- 003	0.0110		272.7425	272.7425	0.0206		273.2586
	0.0339	0.0237	0.2510	7.4000e-	0.0873	5.3000e-	0.0878	0.0232	4.9000e- 004	0.0236		73.7389	73.7389	1.9600e- 003		73.7879
Norker	0.0000			004		004			004						;	1
Worker Total	0.0745	1.7375	0.7059	004 3.2900e- 003	0.1213	004 1.6900e- 003	0.1230	0.0330	1.6000e- 003	0.0346		346.4814	346.4814	0.0226		347.0465
Total	0.0745	1.7375		3.2900e- 003		1.6900e- 003	0.1230	0.0330	1.6000e-	0.0346		346.4814	346.4814			347.0465
Total 6 230-k	0.0745 V Subst	1.7375 ation In	stall Ya	3.2900e- 003		1.6900e- 003	0.1230	0.0330	1.6000e-	0.0346		346.4814	346.4814			347.0465
Total 6 230-k	0.0745	1.7375 ation In	stall Ya	3.2900e- 003		1.6900e- 003	0.1230	0.0330	1.6000e-	0.0346		346.4814	346.4814			347.0465
Total 6 230-k	0.0745 V Subst	1.7375 ation In	stall Ya	3.2900e- 003		1.6900e- 003	0.1230	0.0330	1.6000e-	0.0346		346.4814	346.4814			347.0465
Total 6 230-k	0.0745 V Subst	1.7375 ation In	stall Ya	3.2900e- 003		1.6900e- 003	0.1230 PM10 Total	Fugitive PM2.5	1.6000e-	0.0346 0.0346 PM2.5 Total	Bio- CO2	346.4814 NBio- CO2			N2O	347.0465 CO2e
Total 5 230-k nitigated	0.0745 V Subst	ation In	stall Ya <u>n-Site</u>	3.2900e- 003	- 2022 Fugitive PM10	1.6900e- 003	PM10	Fugitive	1.6000e- 003	1460,5551,233	Bio- CO2		Total CO2	0.0226	N2O	
Total 5 230-k nitigated	0.0745 V Subst	1.7375 ation In action O	stall Ya n-Site	3.2900e- 003 rd Rock	- 2022 Fugitive PM10	1.6900e- 003 Exhaust PM10 day	PM10 Total	Fugitive	1.6000e- 003 Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	0.0226 CH4 day	N2O	CO2e
Total 6 230-k' nitigated	0.0745 V Subst d Constru ROG 0.7475	1.7375 ation In action Of NOx 6.1779	stall Ya n-Site co	3.2900e- 003 rd Rock SO2	- 2022 Fugitive PM10	Licegological Documentation Exhaust PM10 day	PM10 Total 0.2256	Fugitive	1.6000e- 003 Exhaust PM2.5 0.2075	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2 Ib/	0.0226 CH4 Jay 0.5981	N2O	CO2e
Total 6 230-k nitigated	0.0745 V Subst	1.7375 ation In action O	stall Ya n-Site	3.2900e- 003 rd Rock	- 2022 Fugitive PM10	1.6900e- 003 Exhaust PM10 day	PM10 Total	Fugitive	1.6000e- 003 Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	0.0226 CH4 day	N2O	CO2e
Total 6 230-k' nitigated	0.0745 V Subst d Constru ROG 0.7475	1.7375 ation In action Of NOx 6.1779	stall Ya n-Site co	3.2900e- 003 rd Rock SO2	- 2022 Fugitive PM10	Licegological Documentation Exhaust PM10 day	PM10 Total 0.2256	Fugitive	1.6000e- 003 Exhaust PM2.5 0.2075	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2 Ib/	0.0226 CH4 Jay 0.5981	N2O	CO2e
Total 5 230-k' nitigated iategory Mf-Road	0.0745 V Subst d Constru ROG 0.7475	1.7375 ation In action Of NOx 6.1779	stall Ya n-Site co	3.2900e- 003 rd Rock SO2	- 2022 Fugitive PM10	Licegological Documentation Exhaust PM10 day	PM10 Total 0.2256	Fugitive	1.6000e- 003 Exhaust PM2.5 0.2075	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2 Ib/	0.0226 CH4 Jay 0.5981	N2O	CO2e

			Estrella s	Substatio	n and Pa	aso Roble	es Area F	Reinforce	ment Pr	oject - Sar	n Luis Ot	oispo Cou	unty, Sur	nmer		
	V Subst d Constru			rd Rocł	(- 2022											
iligated	<u>i constru</u>		II-Sile													
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
itegory					l Ib/	day							lb/	day		
auling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	1	0.0000
-																
endor	0.1668	5.1391	1.3808	0.0139	0.3619	0.0168	0.3787	0.1042	0.0161	0.1202			1,479.0425			1,480.7909
/orker	0.0520	0.0375	0.3909	1.0800e- 003	0.1228	7.7000e- 004	0.1236	0.0326	7.1000e- 004	0.0333		108.0607	108.0607	3.1100e- 003		108.1385
lotal	0.2188	5.1766	1.7717	0.0150	0.4847	0.0176	0.5023	0.1367	0.0168	0.1535		1,587.1032	1,587.1032	0.0730		1,588.9294
																10 M
atod C	onetructi	on On 6	ito													
ated C	onstructi	on On-S	ite													
ated C	onstructi	on On-S	<u>lite</u>													
ated C	ROG	on On-S	co	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
				SO2	PM10					PM2.5 Total	Bio- CO2	NBio- CO2		CH4 day	N20	CO2e
itegory	ROG	NOx	со		PM10	PM10 Iday	Total		PM2.5				lb/	day	N2O	
ategory f-Road	ROG 0.7475	NOx 6.1779	CO 5.9324	0.0191	PM10	PM10 /day 0.2256	Total 0.2256		PM2.5	0.2075	0.0000	1,849.2207	lb/ 1,849.2207	day 0.5981	N2O	1,864.1726
ategory	ROG	NOx	со		PM10	PM10 Iday	Total		PM2.5			1,849.2207	lb/	day 0.5981	N2O	
itegory I-Road	ROG 0.7475	NOx 6.1779	CO 5.9324	0.0191	PM10	PM10 /day 0.2256	Total 0.2256		PM2.5	0.2075	0.0000	1,849.2207	lb/ 1,849.2207	day 0.5981	N2O	1,864.1726

				Substatio			S Alca I	Centrolice		oject - Sa			unity, Sun	liner		
l6 230-k	V Subst	ation In	stall Ya	rd Rock	c - 2022											
tigated C	onstructi	on Off-S	ite													
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					l Ib/	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1668	5.1391	1.3808	0.0139	0.3619	0.0168	0.3787	0.1042	0.0161	0.1202		1,479.0425	1,479.0425	0.0699		1,480.7909
Worker	0.0520	0.0375	0.3909	1.0800e- 003	0.1228	7.7000e- 004	0.1236	0.0326	7.1000e- 004	0.0333		108.0607	108.0607	3.1100e- 003		108.1385
										1						1
Total	0.2188	5.1766	1.7717	0.0150	0.4847	0.0176	0.5023	0.1367	0.0168	0.1535		1,587.1032	1,587.1032	0.0730		1,588.9294
Total	0.2188	5.1766	1.7717	0.0150	0.4847	0.0176	0.5023	0.1367	0.0168	0.1535		1,587.1032	1,587.1032	0.0730		1,588.9294
	0.2188 V Subst	Series Series				0.0176	0.5023	0.1367	0.0168	0.1535		1,587.1032	1,587.1032	0.0730		1,588.9294
l6 230-k		ation In	stall Ya			0.0176	0.5023	0.1367	0.0168	0.1535		1,587.1032	1,587.1032	0.0730		1,588.9294
l6 230-k	V Subst	ation In	stall Ya			0.0176	0.5023	0.1367	0.0168	0.1535		1,587.1032	1,587.1032	0.0730		1,588.9294
l6 230-k	V Subst	ation In	stall Ya		c - 2023	Exhaust	PM10	Fugitive	Exhaust	0.1535 PM2.5 Total	Bio- CO2	1,587.1032 NBio- CO2		0.0730 CH4	N2O	1,588.9294 CO2e
l6 230-k mitigate	V Subst	ation In	stall Ya n <u>-Site</u>	rd Rock	Fugitive PM10	Exhaust PM10	Sharph 1 Soft N		29150-50-30-15	(Propysulate)	Bio- CO2		Total CO2	CH4	N2O	
l6 230-k	V Subst	ation In	stall Ya n <u>-Site</u>	rd Rock	Fugitive PM10	Exhaust	PM10	Fugitive	Exhaust	(Propysulate)	Bio- CO2			CH4	N2O	
l6 230-k mitigate	V Subst	ation In	stall Ya n <u>-Site</u>	rd Rock	Fugitive PM10	Exhaust PM10	PM10	Fugitive	Exhaust	(Propysulate)	Bio-CO2	NBio- CO2	Total CO2	CH4	N2O	
I6 230-k mitigated	V Substa d Constru ROG	ation In action O	stall Ya n-Site	rd Rock	Fugitive PM10	Exhaust PM10 day	PM10 Total	Fugitive	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2 Ib/o	CH4	N2O	CO2e
16 230-k mitigated Category Off-Road	V Subst d Constru ROG 0.7112	NOx 5.5407	stall Ya n-Site co	so2 0.0191	Fugitive PM10	Exhaust PM10 day 0.1978	PM10 Total	Fugitive	Exhaust PM2.5	PM2.5 Total 0.1820	Bio- CO2	NBio- CO2	Total CO2 Ib/c 1,850.4684	CH4 lay 0.5985	N2O	CO2e
16 230-k mitigated Category Off-Road	V Subst d Constru ROG 0.7112	NOx 5.5407	stall Ya n-Site co	so2 0.0191	Fugitive PM10	Exhaust PM10 day 0.1978	PM10 Total	Fugitive	Exhaust PM2.5	PM2.5 Total 0.1820	Bio- CO2	NBio- CO2	Total CO2 Ib/c 1,850.4684	CH4 lay 0.5985	N2O	CO2e

CalEEMod Version: CalEEMod.2016.3.2 Page 71 of 120 Date: 2/11/2021 2:11 PM Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer 3.16 230-kV Substation Install Yard Rock - 2023 **Unmitigated Construction Off-Site** ROG NOx PM10 Total Exhaust PM2.5 PM2.5 Total Bio- CO2 NBio- CO2 Total CO2 CH4 N2O CO2e co SO2 Fugitive PM10 Exhaust PM10 Fugitive PM2.5 lb/day lb/day Category 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 Hauling 0.1262 0.0136 0.3620 0.3699 0.1042 7.5600e 0.1117 1,452.5337 1,452.5337 0.0639 1,454.1300 Vendor 4.0860 1.2198 7.9100e-003 003 Worker 0.0487 0.0337 0.3574 1.0400e-0.1228 7.5000e-0.1236 0.0326 6.9000e 0.0333 104.0104 104.0104 2.7800e-104.0800 003 004 004 003 Total 0.1750 4.1198 1.5773 0.0146 0.4848 8.6600e 0.4935 0.1368 8.2500e 0.1450 1,556.5442 1,556.5442 0.0666 1,558.2099 003 003 **Mitigated Construction On-Site** ROG PM10 Total Exhaust PM2.5 PM2.5 Total Bio- CO2 NBio- CO2 Total CO2 CH4 N20 CO2e NOx co SO2 Exhaust PM10 Fugitive PM2.5 Fugitive PM10 lb/day lb/day Category Off-Road 5.5407 5.8424 0.0191 0.1978 0.1820 0.0000 ,850.4684 1,850.4684 0.5985 1,865.4304 0.7112 0.1978 0.1820 Total 0.7112 5.5407 5.8424 0.0191 0.1978 0.1978 0.1820 0.1820 0.0000 1,850.4684 1,850.4684 0.5985 1,865.4304

			Estrella s	Substatio	n and Pa	aso Roble	es Area F	Reinforce	ment Pr	oject - Sa	n Luis Ob	oispo Cou	unty, Sun	nmer		
										5			10			
	V Subst			rd Rock	c - 2023											
igated C	onstructi	on On-S	ite													
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					IIb/	l day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	1	0.0000
Vendor	0.1262	4.0860	1.2198	0.0136	0.3620	7.9100e-	0.3699	0.1042	7.5600e-	0.1117		1,452.5337	1,452.5337	0.0639		1,454.1300
Worker	0.0487	0.0337	0.3574	1.0400e-	0.1228	003 7.5000e-	0.1236	0.0326	003 6.9000e-	0.0333		104.0104	104.0104	2.7800e-		104.0800
				003		004			004					003		
	0.4750	4 4 4 9 9	4 6770		0.4949		0.4005	0.4000		0.4450		4 550 5440	4 550 5440	0.0000		4 550 0000
Total	0.1750	4.1198	1.5773	0.0146	0.4848	8.6600e- 003	0.4935	0.1368	8.2500e- 003	0.1450		1,556.5442	1,556.5442	0.0666		1,558.2099
Total				0.0146	102712360100	8.6600e- 003	0.4935	0.1368	8.2500e-	0.1450		1,556.5442	1,556.5442	0.0666		i 1,558.2099
Total 7 70-kV	0.1750 V Substat	tion Ste	el Bus	0.0146	102712360100	8.6600e- 003	0.4935	0.1368	8.2500e-	0.1450		1,556.5442	1,556.5442	0.0666		1,558.2099
Total 7 70-kV	/ Substat	tion Ste	el Bus	0.0146	102712360100	8.6600e- 003	0.4935	0.1368	8.2500e-	0.1450		1,556.5442	1,556.5442	0.0666		1,558.2099
Total 7 70-kV	/ Substat	tion Ste	el Bus I n-Site	erection	n - 2023	8.6600e- 003	9411032385	1000000000	8.2500e- 003	11995/00033	Bio. CO2			32295633694,0	N2O	
Total 7 70-kV	/ Substat	tion Ste	el Bus	0.0146	102712360100	8.6600e- 003	0.4935 PM10 Total	Fugitive PM2.5	8.2500e-	0.1450 PM2.5 Total	Bio- CO2	1,556.5442 NBio- CO2		0.0666 CH4	N2O	1,558.2099
Total 7 70-kV	/ Substat	tion Ste	el Bus I n-Site	erection	Fugitive PM10	8.6600e- 003	PM10	Fugitive	8.2500e- 003	11995/00033	Bio- CO2			CH4	N2O	
Total 7 70-kV mitigated	/ Substat	tion Ste	el Bus I n-Site	erection	Fugitive PM10	8.6600e- 003 Exhaust PM10	PM10	Fugitive	8.2500e- 003	11995/00033		NBio- CO2	Total CO2	CH4	N2O	
Total 7 70-kV mitigated	/ Substat d Constru	tion Ste	n-Site	0.0146 Erection	Fugitive PM10	8.6600e- 003 Exhaust PM10 day	PM10 Total	Fugitive	8.2500e- 003 Exhaust PM2.5	PM2.5 Total		NBio- CO2	Total CO2	CH4 Jay 0.7244	N2O	CO2e
Total 7 70-kV mitigated Category Off-Road	Constru Rog 0.8239	tion Ste inction Or NOx 6.4014	co 7.0821	0.0146 Erection SO2	Fugitive PM10	Exhaust PM10 day	PM10 Total 0.2117	Fugitive	8.2500e- 003 Exhaust PM2.5 0.1947	PM2.5 Total		NBio- CO2	Total CO2 Ib/c 2,239.9099	CH4 Jay 0.7244	N2O	CO2e
Total 7 70-kV mitigated Category Off-Road	Constru Rog 0.8239	tion Ste inction Or NOx 6.4014	co 7.0821	0.0146 Erection SO2	Fugitive PM10	Exhaust PM10 day	PM10 Total 0.2117	Fugitive	8.2500e- 003 Exhaust PM2.5 0.1947	PM2.5 Total		NBio- CO2	Total CO2 Ib/c 2,239.9099	CH4 Jay 0.7244	N2O	CO2e

CalEEMod Version: CalEEMod.2016.3.2 Page 73 of 120 Date: 2/11/2021 2:11 PM Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer 3.17 70-kV Substation Steel Bus Erection - 2023 **Unmitigated Construction Off-Site** ROG NOx SO2 PM10 Total Exhaust PM2.5 PM2.5 Total Bio- CO2 NBio- CO2 Total CO2 CH4 N2O CO2e co Fugitive PM10 Exhaust PM10 Fugitive PM2.5 lb/day lb/day Category 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 Hauling 0.0328 3.8500e-003 0.1083 2.2900e-003 0.1106 0.0312 2.1900e 0.0334 411.0301 411.0301 0.0166 411.4443 Vendor 0.9923 0.3061 003 Worker 0.0334 0.0222 0.2372 6.7000e-0.0782 4.9000e-0.0787 0.0208 4.6000e 0.0212 66.7194 66.7194 1.8200e-66.7650 004 004 004 003 Total 0.0662 1.0145 0.5432 4.5200e-0.1865 2.7800e 0.1893 0.0519 2.6500e 0.0546 477.7496 477.7496 0.0184 478.2093 003 003 003 **Mitigated Construction On-Site** ROG PM10 Total Exhaust PM2.5 PM2.5 Total Bio- CO2 NBio- CO2 Total CO2 CH4 N20 CO2e NOx co SO2 Exhaust PM10 Fugitive PM2.5 Fugitive PM10 lb/day lb/day Category Off-Road 0.8239 6.4014 7.0821 0.0231 0.2117 0.1947 0.0000 2,239.9099 2,239.9099 0.7244 2,258.0207 0.2117 0.1947 Total 0.8239 6.4014 7.0821 0.0231 0.2117 0.2117 0.1947 0.1947 0.0000 2,239.9099 2,239.9099 0.7244 2,258.0207

		6	Estrella S	Substatio	n and Pa	aso Roble	es Area F	Reinforce	ment Pr	oject - Sa	n Luis Ob	oispo Co	unty, Sun	nmer		
	Substa			Erectio	n - 2023	3										
igated C	onstructi	on Off-S	ite													
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lbi	/day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	1	0.0000
Vendor	0.0328	0.9923	0.3061	3.8500e-	0.1083	2.2900e-	0.1106	0.0312	2.1900e-	0.0334		411.0301	411.0301	0.0166		411.4443
	0.0334	0.0222	0.2372	003 6.7000e-	0.0782	003 4.9000e-	0.0787	0.0208	003 4.6000e-	0.0212		66.7194	66.7194	1.8200e-		66.7650
							0.0707			0.0212		00.7104	00.7104	003		00.7000
Worker				004		004			004							
Total	0.0662	1.0145	0.5432	004 4.5200e- 003	0.1865	004 2.7800e- 003	0.1893	0.0519	004 2.6500e- 003	0.0546		477.7496	477.7496	0.0184		478.2093
Total	0.0662	1.0145	0.5432	004 4.5200e- 003		2.7800e- 003		0.0519	2.6500e-	0.0546		477.7496	477.7496			478.2093
Total	0.0662	1.0145	0.5432	004 4.5200e- 003		2.7800e- 003		0.0519	2.6500e-	0.0546		477.7496	477.7496			478.2093
Total 8 230-k tallatior	0.0662	^{1.0145} ation Tr	0.5432	004 4.5200e- 003		2.7800e- 003		0.0519	2.6500e-	0.0546		477.7496	477.7496			478.2093
Total 8 230-k tallatior	0.0662 V Substa 1 - 2023	^{1.0145} ation Tr	0.5432	004 4.5200e- 003		2.7800e- 003		0.0519	2.6500e-	0.0546		477.7496	477.7496			478.2093
Total 8 230-k tallatior	0.0662 V Substa 1 - 2023 d Constru	1.0145 ation Tr	0.5432 ansforr 1-Site	004 4.5200e- 003 ner & E	quip De	2.7800e- 003			2.6500e- 003		Bio- CO2		18291103962201	0.0184	N2O	
Total 8 230-k tallatior	0.0662 V Substa 1 - 2023	^{1.0145} ation Tr	0.5432	004 4.5200e- 003	quip De	2.7800e- 003 Elivery &		Fugitive PM2.5	2.6500e-	0.0546 PM2.5 Total	Bio- CO2		Total CO2	0.0184 CH4	N2O	478.2093
Total 8 230-k tallatior	0.0662 V Substa 1 - 2023 d Constru	1.0145 ation Tr	0.5432 ansforr 1-Site	004 4.5200e- 003 ner & E	quip De	2.7800e- 003 elivery &	PM10	Fugitive	2.6500e- 003		Bio- CO2		18291103962201	0.0184 CH4	N2O	
Total 8 230-k tallatior mitigated	0.0662 V Substa 1 - 2023 d Constru	1.0145 ation Tr	0.5432 ansforr 1-Site	004 4.5200e- 003 ner & E	quip De	2.7800e- 003 Elivery &	PM10	Fugitive	2.6500e- 003		Bio- CO2	NBio- CO2	Total CO2	0.0184 CH4 Jay	N2O	
Total 8 230-ki tallatior mitigated	0.0662 V Subst. - 2023 d Constru	1.0145 ation Tr action Or	0.5432 ransforr n-Site	004 4.5200e- 003 ner & E	quip De	2.7800e- 003 elivery & Exhaust PM10 /day	PM10 Total	Fugitive	2.6500e- 003 Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2 Ib/c	0.0184 CH4 Jay	N2O	CO2e
Total 8 230-k tallatior mitigated Category Off-Road	0.0662 V Subst. 1 - 2023 d Constru ROG	1.0145 ation Tr iction Or NOx	0.5432 ansforr n-Site CO	004 4.5200e- 003 mer & E SO2	quip De	2.7800e- 003 elivery & Exhaust PM10 (day	PM10 Total 0.5180	Fugitive	2.6500e- 003 Exhaust PM2.5 0.4830	PM2.5 Total	Bio-CO2	NBio- CO2	Total CO2 Ib/c 4,507.8392	0.0184 CH4 Jay 1.3491	N2O	CO2e 4,541.5672
Total 8 230-k tallatior mitigated Category Off-Road	0.0662 V Subst. 1 - 2023 d Constru ROG	1.0145 ation Tr iction Or NOx	0.5432 ansforr n-Site CO	004 4.5200e- 003 mer & E SO2	quip De	2.7800e- 003 elivery & Exhaust PM10 (day	PM10 Total 0.5180	Fugitive	2.6500e- 003 Exhaust PM2.5 0.4830	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2 Ib/c 4,507.8392	0.0184 CH4 Jay 1.3491	N2O	CO2e 4,541.5672