Appendix A: Air Quality, Greenhouse Gas Emissions, and Energy Supporting Information

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Appendix A: Air Quality, GHG Emissions, and Energy Supporting Information

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Hercules Skelly Road Residential Project CalEEMod Notes

Note 1. Land uses and sizes associated with development of the proposed project are drawn from correspondence with the Project Applicant as well as the following site plans:

- Cbg, LOTTING PLAN, dated November 2021
- Cbg, PRELIMINARY DEVELOPMENT PLAN, dated January 2022

The following land uses represent the described project features:

Parking > Parking Lot > 62.32 x 1000sqft = Proposed interior streets on Parcels A and C.

Recreational > City Park > 0.51 x acre = Proposed landscaping on Parcels B and D. As provided by the Project Applicant, 25 percent of Parcel D would be graded while only 12.5 percent would be landscaped. Therefore, the project's construction models reflect a total City Park land use of 0.51 acre while the project's operational models reflect a total City Park land use of 0.45 acre.

Parking > Other Non-Asphalt Surfaces > 0.09 x acre = Proposed grading and resurfacing of Parcel G within the public utility easement. As provided by the Project Applicant, Parcel F would also involve grading activities but would not involve any landscaping or resurfacing. Therefore, the project's construction models reflect a total Other Non-Asphalt Surfaces land use of 0.09 acre while the project's operational models reflect a total Other Non-Asphalt Surfaces land use of 0.08 acre.

Residential > Single Family Housing > 40 x Dwelling Unit = Proposed housing development, adjusted to reflect a gross building square footage of 74,740 square feet and lot acreage of 4.86 acres. As provided by the Project Applicant, the proposed project would be constructed in several phases. Please refer to the Construction Phasing and Schedule sheet contained in this appendix for more information for how the 40 proposed homes are assigned to their respective construction phases.

Note 2. According to information provided by the Project Applicant, the proposed project is anticipated to be constructed in 5 phases starting in October 2023. Each phase is anticipated to occur for 4 to 4.5 months, and each phase is anticipated to begin 1 month after the previous phase begins. Construction activity dates and durations were adjusted to reflect the phasing information provided by the Project Applicant. Where applicable, construction equipment was also adjusted in the model to reflect applicant-provided information. As the Project Applicant has provided, the equipment utilized in the modeling will be shared across all construction phases. Therefore, the CalEEMod construction phases were consolidated to avoid erroneously duplicating the use of construction equipment. Please refer to the Construction Phasing and Schedule sheet contained in this appendix for more information.

Note 3. According to information provided by the Project Applicant, cut and fill grading activities will balance on-site and no soil will need to be imported or exported. In addition, according to aerial imagery of the project site utilizing Google Earth, approximately 40,000 square feet of existing pavement and approximately 17,000 square feet of building space would be removed during demolition activities. As such, an estimated 2,266 cubic yards of demolition

debris would be removed from the project site during demolition activities. Please refer to the Demolition Calculations sheet contained in this appendix for more information.

Note 4. Because project construction needed to be separated into two separate models (one representing construction activity occurring before the introduction of on-site receptors and one representing construction activity occurring after the introduction of on-site receptors) for purposes of use in the air dispersion modeling for the construction health risk assessment, the architectural coating surface square footage associated "Residential Interior" and "Residential Exterior" were adjusted to match the proportional coating activity occurring within each model and within each construction phase. Please refer to the Architectural Coating Building Surface Area Adjustments sheet in this appendix for a more detail on how surface area square footage was broken down between the two models.

Note 5. For all construction models, all operational emission factors were reduced to zero to isolate the construction emission results in the modeling output files. For the operational models, all construction details were reduced to zero to isolate the operational emissions in the modeling output files.

Note 6. BAAQMD *Basic Construction Mitigation Measures Recommended For All Proposed Projects* were applied the model, which would be required under MM AIR-1 to ensure that the proposed project would result in a less-than-significant impact related to fugitive dust emissions during construction. To represent this in the modeling, the model was adjusted to include watering of exposed areas at minimum twice per day and limiting construction vehicle speeds to 15 miles per hour on unpaved roads.

Note 7. [Removed]

Note 8. The TIA estimated that the proposed project would generate 9.43 trips per dwelling unit for a total of 377 daily weekday vehicle trips during project operation.[1] As such, the model was adjusted to ensure that the proposed project would generate 9.43 vehicle trips per unit and at least 377 vehicle trips per day.

Note 9. In addition, the proposed project would be required to comply with BAAQMD District Regulation 6, Rule 3, which prohibits any person or builder from installing a wood-burning device in new building construction. Therefore, no wood-burning hearths are included in the project modeling.

Note 10. According to information provided by the Project Applicant, the proposed project would include rooftop solar, as required by the 2019 California Building Code (CBC). It should be noted that the solar requirement contained in the CBC pertain only to residential buildings containing three habitable stories or less. Therefore, all the proposed single-family houses in the proposed project would be subject to the rooftop solar requirements in the CBC. According to the California Code of Regulations, Title 24, Part 6, Subchapter 8 – Low-Rise Residential Building – Performance and Prescriptive Compliance Approaches, Section 150.1(c)14, "[a]ll low-rise residential buildings shall have a photovoltaic (PV) system meeting the minimum qualification requirements as specified in Joint Appendix JA11, with annual

[1] Ibid.

electrical output equal or greater than the dwelling's annual electrical usage as determined by Equation 150.1-C:"

Equation 150.1-C Annual Photovoltaic Electrical Output

$$\mathbf{kW_{PV} = (CFA \times A)/1{,}000 + (NDwell \times B)}$$

Where:

kW_{PV} = kWdc size of the PV system

CFA = conditioned floor area

NDwell = number of dwelling units

A = Adjustment factor from Table 150.1-C

B = Dwelling adjustment factor from Table 150.1-C

The proposed project is located in climate zone 3,[2] and the total conditioned floor area of the proposed project is 74,740 square feet. As identified in Table 150.1-C of the above referenced section, the appropriate A adjustment factor is 0.628 and B adjustment factor is as 1.12.

Therefore:

$$\mathbf{kW_{PV} = (74{,}740 \times 0.628)/1{,}000 + (40 \times 1.12) = 91.7\ kW_{PV}}$$

While this accounts for the entire project's kW PV system, it does not provide the annual production rate that would be generated by this size of system. Since there are 40 dwelling units within the proposed project, the averaged PV output is 2.3 kW per dwelling unit. According to TheEcoExperts.com, a 2 kW PV system has an average annual production rate of 1,700 kWh/year.[3] The below equation applies the same average annual production rate to the calculated 2.3 kW system.

$$\mathbf{(2.3/2) * 1{,}700\ kWh/year = 1{,}955\ kWh/year}$$

Therefore, the proposed project is expected to result in an average on-site electricity generation rate of 1,955 kWh per year per dwelling unit, which equates to 78,200 kWh per year given there are 40 dwelling units.

[2] California Energy Commission (CEC). 2018. California Building Climate Zones. Website: https://cecgis-caenergy.opendata.arcgis.com/datasets/549017ee96e341d2bbb3dd0c291a9112_0/explore?location=37.790922%2C-121.947109%2C9.21. Accessed March 10, 2022.

[3] TheEcoExperts. 2020. Solar Panel Output. Website: http://www.theecoexperts.com/solar-panel-output/. Accessed March 8, 2022.

Single-Family Home Construction Phasing

Model Homes

Lot No.	Lot SF	Bldg SF	Phase
3	4,592	1,583	-
4	4,000	1,859	-
Model Home Totals	**8,592**	**3,442**	

Phase 1 Construction

Lot No.	Lot SF	Bldg SF	Phase
27	6,399	1,583	1
28	6,565	1,859	1
29	6,387	1,583	1
30	6,391	2,311	1
25	5,375	1,583	1
26	5,720	1,859	1
31	3,915	1,859	1
32	5,033	2,311	1
Phase 1 Totals	**45,785**	**14,948**	

Phase 2 Construction

Lot No.	Lot SF	Bldg SF	Phase
22	5,375	1,859	2
23	5,375	1,583	2
24	5,375	1,859	2
33	3,836	1,859	2
18	5,375	1,859	2
19	5,375	1,583	2
20	5,375	1,859	2
21	5,375	1,583	2
Phase 2 Totals	**41,461**	**14,044**	

Development Phasing Schedule

Construction Activity	Phase Start Date	Phase End Date	Working Days per Week	Total Number of Working Days
Demolition	10/11/2023	2/1/2024	5	82
Site Preparation (Site-Wide)	10/11/2023	2/1/2024	5	82
Grading (Site-Wide)	10/11/2023	12/6/2023	5	41
Building Construction (Model Homes Only)	1/19/2024	2/1/2024	5	10
Paving (Interior Roadways & Foundations)	12/1/2023	2/1/2024	5	45
Architectural Coating (Pavement & Model Homes)	1/19/2024	2/1/2024	5	10

Phase 1 Construction

Construction Activity	Phase Start Date	Phase End Date	Working Days per Week	Total Number of Working Days
Building Construction	2/2/2024	6/5/2024	5	89
Architectural Coating	2/16/2024	6/5/2024	5	79

Phase 2 Construction

Construction Activity	Phase Start Date	Phase End Date	Working Days per Week	Total Number of Working Days
Building Construction	3/2/2024	7/1/2024	5	86
Architectural Coating	3/16/2024	7/1/2024	5	76

Phase 3 Construction

Lot No.	Lot SF	Bldg SF	Phase
15	6,806	1,583	3
16	6,705	2,311	3
17	5,375	1,583	3
34	4,806	1,859	3
13	4,005	1,583	3
14	4,519	1,859	3
35	4,352	1,583	3
36	4,352	1,859	3
Phase 3 Totals	**40,920**	**14,220**	

Construction Activity	Phase Start Date	Phase End Date	Working Days per Week	Total Number of Working Days
Building Construction	4/2/2024	8/11/2024	5	94
Architectural Coating	4/17/2024	8/11/2024	5	83

Phase 4 Construction

Lot No.	Lot SF	Bldg SF	Phase
10	5,040	1,583	4
11	5,040	2,311	4
12	6,882	2,311	4
37	4,861	1,583	4
8	4,388	1,859	4
9	5,797	2,311	4
38	3,939	1,583	4
39	4,538	1,859	4
Totals	**40,485**	**15,400**	

Construction Activity	Phase Start Date	Phase End Date	Working Days per Week	Total Number of Working Days
Building Construction	5/2/2024	9/1/2024	5	87
Architectural Coating	5/16/2024	9/1/2024	5	77

Phase 5 Construction

Lot No.	Lot SF	Bldg SF	Phase
5	5,000	2,311	5
6	5,625	1,859	5
7	5,163	1,583	5
40	6,421	2,311	5
1	6,877	2,311	5
2	5,422	2,311	5
Totals	**34,508**	**12,686**	

Construction Activity	Phase Start Date	Phase End Date	Working Days per Week	Total Number of Working Days
Building Construction	6/2/2024	10/30/2024	5	108
Architectural Coating	6/19/2024	10/30/2024	5	96

CalEEMod Modeling Breakdown for Purposes of Air Dispersion Modeling

Pre-Sensitive Receptor Development
(First introduction of sensitive receptors upon completion of Phase 1 on 6/5/2024)

Lot No.	Lot SF	Bldg SF	Phase
3	4,592	1,583	-
4	4,000	1,859	-
27	6,399	1,583	1
28	6,565	1,859	1
29	6,387	1,583	1
30	6,391	2,311	1
25	5,375	1,583	1
26	5,720	1,859	1
31	3,915	1,859	1
32	5,033	2,311	1
22	5,375	1,859	2
23	5,375	1,583	2
24	5,375	1,859	2
33	3,836	1,859	2
18	5,375	1,859	2
19	5,375	1,583	2
20	5,375	1,859	2
21	5,375	1,583	2
15	6,806	1,583	3
16	6,705	2,311	3
17	5,375	1,583	3
34	4,806	1,859	3
13	4,005	1,583	3
14	4,519	1,859	3
35	4,352	1,583	3
36	4,352	1,859	3
10	5,040	1,583	4
11	5,040	2,311	4
12	6,882	2,311	4
37	4,861	1,583	4
8	4,388	1,859	4
9	5,797	2,311	4
38	3,939	1,583	4
39	4,538	1,859	4
5	5,000	2,311	5
6	5,625	1,859	5
7	5,163	1,583	5
40	6,421	2,311	5
1	6,877	2,311	5
2	5,422	2,311	5
Totals	**211,751**	**74,740**	

Construction Activity	Phase Start Date	Phase End Date	Working Days per Week	Total Number of Working Days
Demolition	10/11/2023	2/1/2024	5	82
Site Preparation (Site-Wide)	10/11/2023	2/1/2024	5	82
Grading (Site-Wide)	10/11/2023	12/6/2023	5	41
Building Construction (Model Homes Only)	1/19/2024	2/1/2024	5	10
Paving (Interior Roadways & Foundations)	12/1/2023	2/1/2024	5	45
Architectural Coating (Pavement & Model Homes)	1/19/2024	2/1/2024	5	10
Building Construction (Phase 1)	2/2/2024	6/5/2024	5	89
Architectural Coating (Phase 1)	2/16/2024	6/5/2024	5	79
Building Construction (Phase 2)	3/2/2024	6/5/2024	5	68
Architectural Coating (Phase 2)	3/16/2024	6/5/2024	5	58
Building Construction (Phase 3)	4/2/2024	6/5/2024	5	47
Architectural Coating (Phase 3)	4/17/2024	6/5/2024	5	36
Building Construction (Phase 4)	5/2/2024	6/5/2024	5	25
Architectural Coating (Phase 4)	5/16/2024	6/5/2024	5	15
Building Construction (Phase 5)	6/2/2024	6/5/2024	5	3
As Modeled in CalEEMod (Equipment is Shared Across Phases)				
Demolition	10/11/2023	2/1/2024	5	82
Site Preparation (Site-Wide)	10/11/2023	2/1/2024	5	82
Grading (Site-Wide)	10/11/2023	12/6/2023	5	41
Building Construction (Model Homes)	1/19/2024	2/1/2024	5	10
Paving (Interior Roadways & Foundations)	12/1/2023	2/1/2024	5	45
Architectural Coating (Pavement & Model Homes)	1/19/2024	2/1/2024	5	10
Building Construction (Pre-Receptors)	2/2/2024	6/5/2024	5	89
Architectural Coating (Pre-Receptors)	2/16/2024	6/5/2024	5	79

Post-Sensitive Receptor Development
(All development occurring after 6/5/2024)

Lot No.	Lot SF	Bldg SF	Phase
22	5,375	1,859	2
23	5,375	1,583	2
24	5,375	1,859	2
33	3,836	1,859	2
18	5,375	1,859	2
19	5,375	1,583	2
20	5,375	1,859	2
21	5,375	1,583	2
15	6,806	1,583	3
16	6,705	2,311	3
17	5,375	1,583	3
34	4,806	1,859	3
13	4,005	1,583	3
14	4,519	1,859	3
35	4,352	1,583	3
36	4,352	1,859	3
10	5,040	1,583	4
11	5,040	2,311	4
12	6,882	2,311	4
37	4,861	1,583	4
8	4,388	1,859	4
9	5,797	2,311	4
38	3,939	1,583	4
39	4,538	1,859	4
5	5,000	2,311	5
6	5,625	1,859	5
7	5,163	1,583	5
40	6,421	2,311	5
1	6,877	2,311	5
2	5,422	2,311	5
Totals	**157,374**	**56,350**	

Construction Activity	Phase Start Date	Phase End Date	Working Days per Week	Total Number of Working Days
Building Construction (Phase 2)	6/6/2024	7/1/2024	5	18
Architectural Coating (Phase 2)	6/6/2024	7/1/2024	5	18
Building Construction (Phase 3)	6/6/2024	8/11/2024	5	47
Architectural Coating (Phase 3)	6/6/2024	8/11/2024	5	47
Building Construction (Phase 4)	6/6/2024	9/1/2024	5	62
Architectural Coating (Phase 4)	6/6/2024	9/1/2024	5	62
Building Construction (Phase 5)	6/6/2024	10/30/2024	5	105
Architectural Coating (Phase 5)	6/19/2024	10/30/2024	5	96
As Modeled in CalEEMod (Equipment is Shared Across Phases)				
Building Construction (Post-Receptors)	6/6/2024	10/30/2024	5	105
Architectural Coating (Post-Receptors)	6/6/2024	10/30/2024	5	105

Architectural Coating Building Surface Area Adjustments

Construction Activity	Total Building Area (SF)	Proportional Share
Architectural Coating (Pavement & Model Homes)	3,442	5%
Architectural Coating (Phase 1)	14,948	20%
Architectural Coating (Phase 2)	14,044	19%
Architectural Coating (Phase 3)	14,220	19%
Architectural Coating (Phase 4)	15,400	21%
Architectural Coating (Phase 5)	12,686	17%
Total	74,740	100%

Construction Activity	Number of Working Days		Total Working Days	Proportional Share	
	Before Receptors	After Receptors		Before Receptors	After Receptors
Architectural Coating (Pavement & Model Homes)	10	0	10	100%	0%
Architectural Coating (Phase 1)	79	0	79	100%	0%
Architectural Coating (Phase 2)	58	18	76	76%	24%
Architectural Coating (Phase 3)	36	47	83	43%	57%
Architectural Coating (Phase 4)	15	62	77	19%	81%
Architectural Coating (Phase 5)	0	96	96	0%	100%

Construction Activity	Total Residential Interior (SF)	Total Residential Exterior (SF)	Proportional Interior Area (SF)		Proportional Exterior Area (SF)	
			Before Receptors	After Receptors	Before Receptors	After Receptors
Architectural Coating (Pavement & Model Homes)	151,349	50,450	**6,970**	-	**2,323**	-
Architectural Coating (Phase 1)	151,349	50,450	**30,270**	-	**10,090**	-
Architectural Coating (Phase 2)	151,349	50,450	**21,704**	**6,736**	**7,235**	**2,245**
Architectural Coating (Phase 3)	151,349	50,450	**12,490**	**16,306**	**4,163**	**5,435**
Architectural Coating (Phase 4)	151,349	50,450	**6,075**	**25,110**	**2,025**	**8,370**
Architectural Coating (Phase 5)	151,349	50,450	-	**25,689**	-	**8,563**
Totals	**151,349**	**50,450**	**77,508**	**73,841**	**25,836**	**24,614**

Demolition Debris Calculations

Parameters[1]			
1	building sq ft	10	cf building volume
1	cf building volume	0.25	cf waste volume
1	cf	0.037	cy
1	cy waste volume	0.5	ton waste weight
1	**sf**	**0.04625**	**ton waste material**

Description	square feet[2]	height/ depth (ft)[3]	density (lbs/cf)[4]	Demolition Weight (pounds)	Demolition Weight (tons)
Buildings	17,000	-	-	-	786.25
Pavement	40,000	0.5	148	2,960,000	1,480.00
Totals	**57,000**	-	-	-	**2,266**

Notes:
cy = cubic yard
gsf = gross square feet
sf = square feet
cf = cubic feet

[1] Source: California Air Pollution Control Officers Association (CAPCOA). 2017. Appendix A Calculation Details for CalEEMod.

[2] Source: Google Earth Aerial Imagery. Accessed March 23, 2022.

[3] Source: DC Construction Services. 2017. How Thick Is Parking Lot Asphalt? Website: https://dccpaving.com/how-thick-is-parking-lot-asphalt/. Accessed March 23, 2022.

[4] Source: SFGate. 2021. How to Calculate Asphalt Weight Per Yard. Website: https://homeguides.sfgate.com/calculate-asphalt-weight-per-yard-81825.html. Accessed March 23, 2022.

Project Construction Emissions

Construction Emissions (tons)

Construction Activity	ROG	NO_X	PM_{10} (Exhaust)	$PM_{2.5}$ (Exhaust)
on site	0.02112	0.16570	0.00808	0.00783
off site	0.00076	0.01542	0.00014	0.00012
Demolition	**0.02188**	**0.18112**	**0.00822**	**0.00795**
on site	0.00612	0.06190	0.00300	0.00275
off site	0.00032	0.00022	0.00000	0.00000
Site Preparation (Site-Wide)	**0.00644**	**0.06212**	**0.00300**	**0.00275**
on site	0.02500	0.27300	0.01120	0.01030
off site	0.00043	0.00029	0.00001	0.00001
Grading (Site-Wide)	**0.02543**	**0.27329**	**0.01121**	**0.01031**
on site	0.00398	0.03880	0.00174	0.00164
off site	0.00074	0.00466	0.00004	0.00003
Building Construction (Model Homes)	**0.00472**	**0.04346**	**0.00178**	**0.00167**
on site	0.01322	0.11070	0.00549	0.00505
off site	0.00045	0.00030	0.00000	0.00000
Paving (Roadways & Model Homes)	**0.01367**	**0.11100**	**0.00549**	**0.00505**
on site	0.01470	0.00609	0.00030	0.00030
off site	0.00024	0.00016	0.00000	0.00000
Architectural Coating (Pavement & Model Homes)	**0.01494**	**0.00625**	**0.00030**	**0.00030**
on site	0.03540	0.34540	0.01550	0.01460
off site	0.00659	0.04140	0.00031	0.00029
Building Construction (Pre-Receptors)	**0.04199**	**0.38680**	**0.01581**	**0.01489**
on site	0.27660	0.04810	0.00241	0.00241
off site	0.00096	0.00063	0.00002	0.00001
Architectural Coating (Pre-Receptors)	**0.27756**	**0.04873**	**0.00243**	**0.00242**
on site	0.04180	0.40750	0.01820	0.01730
off site	0.00159	0.00794	0.00006	0.00006
Building Construction (Post-Receptors)	**0.04339**	**0.41544**	**0.01826**	**0.01736**
on site	0.26620	0.06400	0.00320	0.00320
off site	0.00026	0.00017	0.00000	0.00000
Architectural Coating (Post-Receptors)	**0.26646**	**0.06417**	**0.00320**	**0.00320**
Total On site	**0.70414**	**1.52119**	**0.06912**	**0.06538**
Total Off site	**0.01234**	**0.07119**	**0.00058**	**0.00052**
Total Construction Emissions	**0.71648**	**1.59238**	**0.06970**	**0.06590**

Note: The application of MM AIR-1 (BAAQMD Dust Control Measures) would reduce the generation of fugitive dust emissions and would not affect ROG, NOx, PM10 Exhaust, or PM2.5 Exhaust emission estimates.

Average Daily Construction Emissions

Metric	ROG	NO_X	PM_{10} (Exhaust)	$PM_{2.5}$ (Exhaust)
Total Emissions (tons)	0.72	1.59	0.07	0.07
Total Emissions (lbs)	1,432.96	3,184.76	139.40	131.80
Average Daily Emissions (lbs/workday)	**5.19**	**11.54**	**0.51**	**0.48**
Significance Thresholds (lbs/day)	*54.00*	*54.00*	*82.00*	*54.00*

Construction Phase	Workdays
Demolition	82
Site Preparation (Site-Wide)	82
Grading (Site-Wide)	41
Building Construction (Model Homes)	10
Paving (Roadways & Model Homes)	45
Architectural Coating (Pavement & Model Homes)	10
Building Construction (Pre-Receptors)	89
Architectural Coating (Pre-Receptors)	79
Building Construction (Post-Receptors)	105
Architectural Coating (Post-Receptors)	105
Net Working Days	**276**

Mitigation Applied	Mitigation Description
MM AIR-1	BAAQMD Construction Dust Control Measures

Modeling Files:

Name: Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual
Date: 4/12/2022 1:32 PM

Name: Skelly Rd Construction (After New Receptors) - Contra Costa County, Annual
Date: 4/12/2022 1:35 PM

Project Operational Emissions Summary

215 Skelly Hercules Residential Project 2024 Operation - Contra Costa County, Annual
CalEEMod Run: Annual Date: 4/11/2022 1:42 PM

Emissions Source	ROG	NO_x	PM_{10} (Total)	$PM_{2.5}$ (Total)
	Tons per Year			
Area	0.37	0.01	0.02	0.02
Energy	0.01	0.07	0.01	0.01
Mobile	0.16	0.18	0.32	0.09
Waste	0.00	0.00	0.00	0.00
Water	0.00	0.00	0.00	0.00
Total	**0.79**	**0.60**	**0.46**	**0.11**
BAAQMD Significance Thresholds	10	10	15	10
Exceeds Threshold?	**No**	**No**	**No**	**No**

Average Daily Construction Emissions (lbs/day)

	ROG	NO_x	PM_{10} (Total)	$PM_{2.5}$ (Total)
Total Emissions (tons)	0.79	0.60	0.46	0.11
Total Emissions (lbs)	1,586	1,203	917	222
Average Daily Emissions (lbs/day)	**4.34**	**3.30**	**2.51**	**0.61**
BAAQMD Significance Thresholds	54	54	82	54
Project Exceeds Threshold?	**No**	**No**	**No**	**No**

Project Operational GHG Emissions Summary

Construction - GHG Emissions

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

CalEEMod Run: Annual Date: 4/12/2022 1:32 PM

Skelly Rd Construction (After New Receptors) - Contra Costa County, Annual

CalEEMod Run: Annual Date: 4/12/2022 1:35 PM

Emissions Source	CO_2e Metric Tons per Year
Demolition	49
Site Preparation (Site-Wide)	12
Grading (Site-Wide)	34
Paving (Roadways & Foundations)	24
Building Construction (Model Homes)	10
Architectural Coating (Pavement & Model Homes)	2
Building Construction (Pre-Receptors)	93
Architectural Coating (Pre-receptors)	12
Building Construction (Post-Receptors)	80
Architectural Coating (Post-Receptors)	14
Total	**331**
Amortized Over 30 Years	11

Operations - GHG Emissions

215 Skelly Hercules Residential Project 2024 Operation - Contra Costa County, Annual

CalEEMod Run: Annual Date: 4/11/2022 1:42 PM

Emissions Source	Year 2024 CO_2e (Metric Tons/Year)
Amortized Construction	11
Area	4
Energy	107
Mobile	282
Waste	24
Water	6
Total	**434**
Applicable Threshold (MT CO_2e/year)	**660**
Exceeds Threshold?	**No**

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Skelly Rd Construction (Before New Receptors)

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	0.09	Acre	0.09	3,920.40	0
Parking Lot	62.32	1000sqft	1.43	62,320.00	0
City Park	0.51	Acre	0.51	22,215.60	0
Single Family Housing	40.00	Dwelling Unit	4.86	74,740.00	114

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment - Note 2

Off-road Equipment -

Off-road Equipment - Note 2

Off-road Equipment - Note 2

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Off-road Equipment - Note 2

Off-road Equipment - Note 2

Off-road Equipment - Note 2

Trips and VMT -

Demolition - Note 3

Grading - Note 3

Architectural Coating - Note 4

Vehicle Trips - Note 5

Woodstoves - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Landscape Equipment - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation - Note 6

Off-road Equipment - Note 2

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2.00	0.00
tblArchitecturalCoating	ConstArea_Parking	3,974.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	50,450.00	25,836.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	50,450.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	151,349.00	77,508.00
tblArchitecturalCoating	ConstArea_Residential_Interior	151,349.00	0.00
tblAreaCoating	ReapplicationRatePercent	10	0

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	82.00
tblConstructionPhase	NumDays	10.00	82.00
tblConstructionPhase	NumDays	20.00	41.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	230.00	10.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	230.00	89.00
tblConstructionPhase	NumDays	20.00	79.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	2,615.00	0.00
tblEnergyUse	T24E	45.71	0.00
tblEnergyUse	T24NG	35,976.14	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LandUseSquareFeet	72,000.00	74,740.00
tblLandUse	LotAcreage	12.99	4.86
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.04	0.00
tblSolidWaste	SolidWasteGenerationRate	47.88	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,606,161.02	0.00
tblWater	OutdoorWaterUseRate	607,655.49	0.00
tblWater	OutdoorWaterUseRate	1,643,014.56	0.00
tblWoodstoves	WoodstoveDayYear	21.06	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0523	0.5024	0.4992	1.0000e-003	0.1675	0.0221	0.1896	0.0742	0.0207	0.0948	0.0000	87.7880	87.7880	0.0219	8.3000e-004	88.5829
2024	0.3543	0.6104	0.7721	1.6500e-003	0.0404	0.0261	0.0665	0.0101	0.0248	0.0348	0.0000	146.9710	146.9710	0.0229	3.5200e-003	148.5904
Maximum	**0.3543**	**0.6104**	**0.7721**	**1.6500e-003**	**0.1675**	**0.0261**	**0.1896**	**0.0742**	**0.0248**	**0.0948**	**0.0000**	**146.9710**	**146.9710**	**0.0229**	**3.5200e-003**	**148.5904**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0523	0.5024	0.4992	1.0000e-003	0.0782	0.0221	0.1003	0.0341	0.0207	0.0548	0.0000	87.7879	87.7879	0.0219	8.3000e-004	88.5828
2024	0.3543	0.6104	0.7721	1.6500e-003	0.0365	0.0261	0.0626	9.4700e-003	0.0248	0.0342	0.0000	146.9708	146.9708	0.0229	3.5200e-003	148.5903
Maximum	**0.3543**	**0.6104**	**0.7721**	**1.6500e-003**	**0.0782**	**0.0261**	**0.1003**	**0.0341**	**0.0248**	**0.0548**	**0.0000**	**146.9708**	**146.9708**	**0.0229**	**3.5200e-003**	**148.5903**

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**44.83**	**0.02**	**36.39**	**48.24**	**0.00**	**31.33**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
7	**10-7-2023**	**1-6-2024**	0.5832	0.5832
8	**1-7-2024**	**4-6-2024**	0.5531	0.5531
9	**4-7-2024**	**7-6-2024**	0.3830	0.3830
		Highest	0.5832	0.5832

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/11/2023	2/1/2024	5	82	
2	Site Preparation (Site-Wide)	Site Preparation	10/11/2023	2/1/2024	5	82	
3	Grading (Site-Wide)	Grading	10/11/2023	12/6/2023	5	41	

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

4	Paving (Roadways & Foundations)	Paving	12/1/2023	2/1/2024	5	45	
5	Building Construction (Model Homes	Building Construction	1/19/2024	2/1/2024	5	10	
6	Architectural Coating (Pavement & Model Homes)	Architectural Coating	1/19/2024	2/1/2024	5	10	
7	Building Construction (Pre-Receptors)	Building Construction	2/2/2024	6/5/2024	5	89	
8	Architectural Coating (Pre-Receptors)	Architectural Coating	2/16/2024	6/5/2024	5	79	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 41

Acres of Paving: 1.52

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2; Non-Residential Outdoor: 1; Striped Parking Area: 3,974 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	1	8.00	158	0.38
Site Preparation (Site-Wide)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading (Site-Wide)	Graders	1	8.00	187	0.41
Grading (Site-Wide)	Rubber Tired Dozers	1	8.00	247	0.40
Grading (Site-Wide)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving (Roadways & Foundations)	Pavers	1	8.00	130	0.42
Paving (Roadways & Foundations)	Paving Equipment	1	8.00	132	0.36
Paving (Roadways & Foundations)	Rollers	1	8.00	80	0.38
Building Construction (Model Homes)	Cranes	1	7.00	231	0.29
Building Construction (Model Homes)	Forklifts	1	8.00	89	0.20
Building Construction (Model Homes)	Generator Sets	1	8.00	84	0.74
Building Construction (Model Homes)	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating (Pavement & Model Homes)	Air Compressors	1	6.00	78	0.48
Building Construction (Pre-Receptors)	Cranes	1	7.00	231	0.29

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Building Construction (Pre-Receptors)	Forklifts	1	8.00	89	0.20
Building Construction (Pre-Receptors)	Generator Sets	1	8.00	84	0.74
Building Construction (Pre-Receptors)	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating (Pre-Receptors)	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading (Site-Wide)	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation (Site-Wide)	Rubber Tired Dozers	0	8.00	247	0.40
Building Construction (Model Homes)	Welders	0	8.00	46	0.45
Building Construction (Pre-Receptors)	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	2	5.00	0.00	224.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation (Site-Wide)	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading (Site-Wide)	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving (Roadways & Foundations)	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Model Homes)	4	52.00	19.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (Pavement & Model	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (Pavement & Model	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Pre-Receptors)	4	52.00	19.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (Pre-Receptors)	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0172	0.0000	0.0172	2.6000e-003	0.0000	2.6000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0152	0.1199	0.2005	3.3000e-004		5.9200e-003	5.9200e-003		5.7400e-003	5.7400e-003	0.0000	28.7490	28.7490	5.0200e-003	0.0000	28.8746
Total	**0.0152**	**0.1199**	**0.2005**	**3.3000e-004**	**0.0172**	**5.9200e-003**	**0.0231**	**2.6000e-003**	**5.7400e-003**	**8.3400e-003**	**0.0000**	**28.7490**	**28.7490**	**5.0200e-003**	**0.0000**	**28.8746**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	0.0107	2.5000e-003	5.0000e-005	1.3400e-003	9.0000e-005	1.4300e-003	3.7000e-004	8.0000e-005	4.5000e-004	0.0000	4.7233	4.7233	1.5000e-004	7.5000e-004	4.9503
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.6000e-004	3.2500e-003	1.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.8945	0.8945	3.0000e-005	3.0000e-005	0.9027
Total	**5.4000e-004**	**0.0109**	**5.7500e-003**	**6.0000e-005**	**2.4900e-003**	**1.0000e-004**	**2.5900e-003**	**6.8000e-004**	**9.0000e-005**	**7.6000e-004**	**0.0000**	**5.6177**	**5.6177**	**1.8000e-004**	**7.8000e-004**	**5.8529**

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.7200e-003	0.0000	7.7200e-003	1.1700e-003	0.0000	1.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0152	0.1199	0.2005	3.3000e-004		5.9200e-003	5.9200e-003		5.7400e-003	5.7400e-003	0.0000	28.7490	28.7490	5.0200e-003	0.0000	28.8746
Total	**0.0152**	**0.1199**	**0.2005**	**3.3000e-004**	**7.7200e-003**	**5.9200e-003**	**0.0136**	**1.1700e-003**	**5.7400e-003**	**6.9100e-003**	**0.0000**	**28.7490**	**28.7490**	**5.0200e-003**	**0.0000**	**28.8746**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	0.0107	2.5000e-003	5.0000e-005	1.3400e-003	9.0000e-005	1.4300e-003	3.7000e-004	8.0000e-005	4.5000e-004	0.0000	4.7233	4.7233	1.5000e-004	7.5000e-004	4.9503
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.6000e-004	3.2500e-003	1.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.8945	0.8945	3.0000e-005	3.0000e-005	0.9027
Total	**5.4000e-004**	**0.0109**	**5.7500e-003**	**6.0000e-005**	**2.4900e-003**	**1.0000e-004**	**2.5900e-003**	**6.8000e-004**	**9.0000e-005**	**7.6000e-004**	**0.0000**	**5.6177**	**5.6177**	**1.8000e-004**	**7.8000e-004**	**5.8529**

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

3.2 Demolition - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.1000e-003	0.0000	7.1000e-003	1.0700e-003	0.0000	1.0700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9200e-003	0.0458	0.0830	1.4000e-004		2.1600e-003	2.1600e-003		2.0900e-003	2.0900e-003	0.0000	11.8979	11.8979	2.0700e-003	0.0000	11.9496
Total	**5.9200e-003**	**0.0458**	**0.0830**	**1.4000e-004**	**7.1000e-003**	**2.1600e-003**	**9.2600e-003**	**1.0700e-003**	**2.0900e-003**	**3.1600e-003**	**0.0000**	**11.8979**	**11.8979**	**2.0700e-003**	**0.0000**	**11.9496**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	4.4200e-003	1.0400e-003	2.0000e-005	5.6000e-004	4.0000e-005	5.9000e-004	1.5000e-004	3.0000e-005	1.9000e-004	0.0000	1.9241	1.9241	6.0000e-005	3.1000e-004	2.0166
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.2500e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3581	0.3581	1.0000e-005	1.0000e-005	0.3612

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Total	**2.2000e-004**	**4.5200e-003**	**2.2900e-003**	**2.0000e-005**	**1.0400e-003**	**4.0000e-005**	**1.0700e-003**	**2.8000e-004**	**3.0000e-005**	**3.2000e-004**	**0.0000**	**2.2822**	**2.2822**	**7.0000e-005**	**3.2000e-004**	**2.3778**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.1900e-003	0.0000	3.1900e-003	4.8000e-004	0.0000	4.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9200e-003	0.0458	0.0830	1.4000e-004		2.1600e-003	2.1600e-003		2.0900e-003	2.0900e-003	0.0000	11.8979	11.8979	2.0700e-003	0.0000	11.9496
Total	**5.9200e-003**	**0.0458**	**0.0830**	**1.4000e-004**	**3.1900e-003**	**2.1600e-003**	**5.3500e-003**	**4.8000e-004**	**2.0900e-003**	**2.5700e-003**	**0.0000**	**11.8979**	**11.8979**	**2.0700e-003**	**0.0000**	**11.9496**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	4.4200e-003	1.0400e-003	2.0000e-005	5.6000e-004	4.0000e-005	5.9000e-004	1.5000e-004	3.0000e-005	1.9000e-004	0.0000	1.9241	1.9241	6.0000e-005	3.1000e-004	2.0166
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Worker	1.5000e-004	1.0000e-004	1.2500e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3581	0.3581	1.0000e-005	1.0000e-005	0.3612
Total	**2.2000e-004**	**4.5200e-003**	**2.2900e-003**	**2.0000e-005**	**1.0400e-003**	**4.0000e-005**	**1.0700e-003**	**2.8000e-004**	**3.0000e-005**	**3.2000e-004**	**0.0000**	**2.2822**	**2.2822**	**7.0000e-005**	**3.2000e-004**	**2.3778**

3.3 Site Preparation (Site-Wide) - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3900e-003	0.0445	0.0647	9.0000e-005		2.2000e-003	2.2000e-003		2.0200e-003	2.0200e-003	0.0000	7.9340	7.9340	2.5700e-003	0.0000	7.9981
Total	**4.3900e-003**	**0.0445**	**0.0647**	**9.0000e-005**	**0.0000**	**2.2000e-003**	**2.2000e-003**	**0.0000**	**2.0200e-003**	**2.0200e-003**	**0.0000**	**7.9340**	**7.9340**	**2.5700e-003**	**0.0000**	**7.9981**

Unmitigated Construction Off-Site

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

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.6000e-004	1.9500e-003	1.0000e-005	6.9000e-004	0.0000	6.9000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5367	0.5367	2.0000e-005	2.0000e-005	0.5416
Total	**2.3000e-004**	**1.6000e-004**	**1.9500e-003**	**1.0000e-005**	**6.9000e-004**	**0.0000**	**6.9000e-004**	**1.8000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5367**	**0.5367**	**2.0000e-005**	**2.0000e-005**	**0.5416**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3900e-003	0.0445	0.0647	9.0000e-005		2.2000e-003	2.2000e-003		2.0200e-003	2.0200e-003	0.0000	7.9340	7.9340	2.5700e-003	0.0000	7.9981
Total	**4.3900e-003**	**0.0445**	**0.0647**	**9.0000e-005**	**0.0000**	**2.2000e-003**	**2.2000e-003**	**0.0000**	**2.0200e-003**	**2.0200e-003**	**0.0000**	**7.9340**	**7.9340**	**2.5700e-003**	**0.0000**	**7.9981**

Mitigated Construction Off-Site

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

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.6000e-004	1.9500e-003	1.0000e-005	6.9000e-004	0.0000	6.9000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5367	0.5367	2.0000e-005	2.0000e-005	0.5416
Total	**2.3000e-004**	**1.6000e-004**	**1.9500e-003**	**1.0000e-005**	**6.9000e-004**	**0.0000**	**6.9000e-004**	**1.8000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5367**	**0.5367**	**2.0000e-005**	**2.0000e-005**	**0.5416**

3.3 Site Preparation (Site-Wide) - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7300e-003	0.0174	0.0268	4.0000e-005		8.0000e-004	8.0000e-004		7.3000e-004	7.3000e-004	0.0000	3.2851	3.2851	1.0600e-003	0.0000	3.3117
Total	**1.7300e-003**	**0.0174**	**0.0268**	**4.0000e-005**	**0.0000**	**8.0000e-004**	**8.0000e-004**	**0.0000**	**7.3000e-004**	**7.3000e-004**	**0.0000**	**3.2851**	**3.2851**	**1.0600e-003**	**0.0000**	**3.3117**

Unmitigated Construction Off-Site

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

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	7.5000e-004	0.0000	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2148	0.2148	1.0000e-005	1.0000e-005	0.2167
Total	**9.0000e-005**	**6.0000e-005**	**7.5000e-004**	**0.0000**	**2.9000e-004**	**0.0000**	**2.9000e-004**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.2148**	**0.2148**	**1.0000e-005**	**1.0000e-005**	**0.2167**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7300e-003	0.0174	0.0268	4.0000e-005		8.0000e-004	8.0000e-004		7.3000e-004	7.3000e-004	0.0000	3.2851	3.2851	1.0600e-003	0.0000	3.3117
Total	**1.7300e-003**	**0.0174**	**0.0268**	**4.0000e-005**	**0.0000**	**8.0000e-004**	**8.0000e-004**	**0.0000**	**7.3000e-004**	**7.3000e-004**	**0.0000**	**3.2851**	**3.2851**	**1.0600e-003**	**0.0000**	**3.3117**

Mitigated Construction Off-Site

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	7.5000e-004	0.0000	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2148	0.2148	1.0000e-005	1.0000e-005	0.2167
Total	**9.0000e-005**	**6.0000e-005**	**7.5000e-004**	**0.0000**	**2.9000e-004**	**0.0000**	**2.9000e-004**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.2148**	**0.2148**	**1.0000e-005**	**1.0000e-005**	**0.2167**

3.4 Grading (Site-Wide) - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1452	0.0000	0.1452	0.0702	0.0000	0.0702	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0250	0.2730	0.1441	3.7000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	32.9066	32.9066	0.0106	0.0000	33.1727
Total	**0.0250**	**0.2730**	**0.1441**	**3.7000e-004**	**0.1452**	**0.0112**	**0.1564**	**0.0702**	**0.0103**	**0.0805**	**0.0000**	**32.9066**	**32.9066**	**0.0106**	**0.0000**	**33.1727**

Unmitigated Construction Off-Site

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.9000e-004	3.6800e-003	1.0000e-005	1.3000e-003	1.0000e-005	1.3100e-003	3.5000e-004	1.0000e-005	3.5000e-004	0.0000	1.0117	1.0117	3.0000e-005	3.0000e-005	1.0209
Total	**4.3000e-004**	**2.9000e-004**	**3.6800e-003**	**1.0000e-005**	**1.3000e-003**	**1.0000e-005**	**1.3100e-003**	**3.5000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.0117**	**1.0117**	**3.0000e-005**	**3.0000e-005**	**1.0209**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0653	0.0000	0.0653	0.0316	0.0000	0.0316	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0250	0.2730	0.1441	3.7000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	32.9066	32.9066	0.0106	0.0000	33.1727
Total	**0.0250**	**0.2730**	**0.1441**	**3.7000e-004**	**0.0653**	**0.0112**	**0.0766**	**0.0316**	**0.0103**	**0.0419**	**0.0000**	**32.9066**	**32.9066**	**0.0106**	**0.0000**	**33.1727**

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.9000e-004	3.6800e-003	1.0000e-005	1.3000e-003	1.0000e-005	1.3100e-003	3.5000e-004	1.0000e-005	3.5000e-004	0.0000	1.0117	1.0117	3.0000e-005	3.0000e-005	1.0209
Total	**4.3000e-004**	**2.9000e-004**	**3.6800e-003**	**1.0000e-005**	**1.3000e-003**	**1.0000e-005**	**1.3100e-003**	**3.5000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.0117**	**1.0117**	**3.0000e-005**	**3.0000e-005**	**1.0209**

3.5 Paving (Roadways & Foundations) - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4200e-003	0.0535	0.0766	1.2000e-004		2.6800e-003	2.6800e-003		2.4600e-003	2.4600e-003	0.0000	10.5141	10.5141	3.4000e-003	0.0000	10.5991
Paving	8.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.2900e-003**	**0.0535**	**0.0766**	**1.2000e-004**		**2.6800e-003**	**2.6800e-003**		**2.4600e-003**	**2.4600e-003**	**0.0000**	**10.5141**	**10.5141**	**3.4000e-003**	**0.0000**	**10.5991**

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.5000e-004	1.8800e-003	1.0000e-005	6.7000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5182	0.5182	2.0000e-005	1.0000e-005	0.5229
Total	**2.2000e-004**	**1.5000e-004**	**1.8800e-003**	**1.0000e-005**	**6.7000e-004**	**0.0000**	**6.7000e-004**	**1.8000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.5182**	**0.5182**	**2.0000e-005**	**1.0000e-005**	**0.5229**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4200e-003	0.0535	0.0766	1.2000e-004		2.6800e-003	2.6800e-003		2.4600e-003	2.4600e-003	0.0000	10.5141	10.5141	3.4000e-003	0.0000	10.5991
Paving	8.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.2900e-003**	**0.0535**	**0.0766**	**1.2000e-004**		**2.6800e-003**	**2.6800e-003**		**2.4600e-003**	**2.4600e-003**	**0.0000**	**10.5141**	**10.5141**	**3.4000e-003**	**0.0000**	**10.5991**

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.5000e-004	1.8800e-003	1.0000e-005	6.7000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5182	0.5182	2.0000e-005	1.0000e-005	0.5229
Total	**2.2000e-004**	**1.5000e-004**	**1.8800e-003**	**1.0000e-005**	**6.7000e-004**	**0.0000**	**6.7000e-004**	**1.8000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.5182**	**0.5182**	**2.0000e-005**	**1.0000e-005**	**0.5229**

3.5 Paving (Roadways & Foundations) - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.9300e-003	0.0572	0.0878	1.4000e-004		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	12.0159	12.0159	3.8900e-003	0.0000	12.1131
Paving	1.0000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.9300e-003**	**0.0572**	**0.0878**	**1.4000e-004**		**2.8100e-003**	**2.8100e-003**		**2.5900e-003**	**2.5900e-003**	**0.0000**	**12.0159**	**12.0159**	**3.8900e-003**	**0.0000**	**12.1131**

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.5000e-004	2.0100e-003	1.0000e-005	7.6000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.5729	0.5729	2.0000e-005	2.0000e-005	0.5779
Total	**2.3000e-004**	**1.5000e-004**	**2.0100e-003**	**1.0000e-005**	**7.6000e-004**	**0.0000**	**7.7000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.5729**	**0.5729**	**2.0000e-005**	**2.0000e-005**	**0.5779**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.9300e-003	0.0572	0.0878	1.4000e-004		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	12.0159	12.0159	3.8900e-003	0.0000	12.1131
Paving	1.0000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.9300e-003**	**0.0572**	**0.0878**	**1.4000e-004**		**2.8100e-003**	**2.8100e-003**		**2.5900e-003**	**2.5900e-003**	**0.0000**	**12.0159**	**12.0159**	**3.8900e-003**	**0.0000**	**12.1131**

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.5000e-004	2.0100e-003	1.0000e-005	7.6000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.5729	0.5729	2.0000e-005	2.0000e-005	0.5779
Total	**2.3000e-004**	**1.5000e-004**	**2.0100e-003**	**1.0000e-005**	**7.6000e-004**	**0.0000**	**7.7000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.5729**	**0.5729**	**2.0000e-005**	**2.0000e-005**	**0.5779**

3.6 Building Construction (Model Homes) - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9800e-003	0.0388	0.0416	8.0000e-005		1.7400e-003	1.7400e-003		1.6400e-003	1.6400e-003	0.0000	6.9131	6.9131	1.4400e-003	0.0000	6.9490
Total	**3.9800e-003**	**0.0388**	**0.0416**	**8.0000e-005**		**1.7400e-003**	**1.7400e-003**		**1.6400e-003**	**1.6400e-003**	**0.0000**	**6.9131**	**6.9131**	**1.4400e-003**	**0.0000**	**6.9490**

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	4.2400e-003	1.3500e-003	2.0000e-005	6.3000e-004	3.0000e-005	6.5000e-004	1.8000e-004	2.0000e-005	2.0000e-004	0.0000	1.8774	1.8774	4.0000e-005	2.7000e-004	1.9591
Worker	6.3000e-004	4.2000e-004	5.4300e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.5516	1.5516	4.0000e-005	4.0000e-005	1.5652
Total	**7.4000e-004**	**4.6600e-003**	**6.7800e-003**	**4.0000e-005**	**2.6900e-003**	**4.0000e-005**	**2.7200e-003**	**7.3000e-004**	**3.0000e-005**	**7.6000e-004**	**0.0000**	**3.4290**	**3.4290**	**8.0000e-005**	**3.1000e-004**	**3.5243**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9800e-003	0.0388	0.0416	8.0000e-005		1.7400e-003	1.7400e-003		1.6400e-003	1.6400e-003	0.0000	6.9131	6.9131	1.4400e-003	0.0000	6.9490
Total	**3.9800e-003**	**0.0388**	**0.0416**	**8.0000e-005**		**1.7400e-003**	**1.7400e-003**		**1.6400e-003**	**1.6400e-003**	**0.0000**	**6.9131**	**6.9131**	**1.4400e-003**	**0.0000**	**6.9490**

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	4.2400e-003	1.3500e-003	2.0000e-005	6.3000e-004	3.0000e-005	6.5000e-004	1.8000e-004	2.0000e-005	2.0000e-004	0.0000	1.8774	1.8774	4.0000e-005	2.7000e-004	1.9591
Worker	6.3000e-004	4.2000e-004	5.4300e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.5516	1.5516	4.0000e-005	4.0000e-005	1.5652
Total	**7.4000e-004**	**4.6600e-003**	**6.7800e-003**	**4.0000e-005**	**2.6900e-003**	**4.0000e-005**	**2.7200e-003**	**7.3000e-004**	**3.0000e-005**	**7.6000e-004**	**0.0000**	**3.4290**	**3.4290**	**8.0000e-005**	**3.1000e-004**	**3.5243**

3.7 Architectural Coating (Pavement & Model Homes) - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0138					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-004	6.0900e-003	9.0500e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784

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

Total	**0.0147**	**6.0900e-003**	**9.0500e-003**	**1.0000e-005**		**3.0000e-004**	**3.0000e-004**		**3.0000e-004**	**3.0000e-004**	**0.0000**	**1.2766**	**1.2766**	**7.0000e-005**	**0.0000**	**1.2784**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.6000e-004	2.0900e-003	1.0000e-005	1.4800e-003	0.0000	1.4800e-003	3.8000e-004	0.0000	3.8000e-004	0.0000	0.5968	0.5968	2.0000e-005	2.0000e-005	0.6020
Total	**2.4000e-004**	**1.6000e-004**	**2.0900e-003**	**1.0000e-005**	**1.4800e-003**	**0.0000**	**1.4800e-003**	**3.8000e-004**	**0.0000**	**3.8000e-004**	**0.0000**	**0.5968**	**0.5968**	**2.0000e-005**	**2.0000e-005**	**0.6020**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0138					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Off-Road	9.0000e-004	6.0900e-003	9.0500e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
Total	**0.0147**	**6.0900e-003**	**9.0500e-003**	**1.0000e-005**		**3.0000e-004**	**3.0000e-004**		**3.0000e-004**	**3.0000e-004**	**0.0000**	**1.2766**	**1.2766**	**7.0000e-005**	**0.0000**	**1.2784**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.6000e-004	2.0900e-003	1.0000e-005	1.4800e-003	0.0000	1.4800e-003	3.8000e-004	0.0000	3.8000e-004	0.0000	0.5968	0.5968	2.0000e-005	2.0000e-005	0.6020
Total	**2.4000e-004**	**1.6000e-004**	**2.0900e-003**	**1.0000e-005**	**1.4800e-003**	**0.0000**	**1.4800e-003**	**3.8000e-004**	**0.0000**	**3.8000e-004**	**0.0000**	**0.5968**	**0.5968**	**2.0000e-005**	**2.0000e-005**	**0.6020**

3.8 Building Construction (Pre-Receptors) - 2024

Unmitigated Construction On-Site

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

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

Off-Road	0.0354	0.3454	0.3699	7.1000e-004		0.0155	0.0155		0.0146	0.0146	0.0000	61.5262	61.5262	0.0128	0.0000	61.8457
Total	**0.0354**	**0.3454**	**0.3699**	**7.1000e-004**		**0.0155**	**0.0155**		**0.0146**	**0.0146**	**0.0000**	**61.5262**	**61.5262**	**0.0128**	**0.0000**	**61.8457**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.4000e-004	0.0377	0.0120	1.7000e-004	5.5600e-003	2.2000e-004	5.7900e-003	1.6100e-003	2.1000e-004	1.8200e-003	0.0000	16.7092	16.7092	3.4000e-004	2.4100e-003	17.4361
Worker	5.6500e-003	3.7000e-003	0.0483	1.5000e-004	0.0184	9.0000e-005	0.0184	4.8800e-003	8.0000e-005	4.9600e-003	0.0000	13.8088	13.8088	3.9000e-004	3.8000e-004	13.9306
Total	**6.5900e-003**	**0.0414**	**0.0604**	**3.2000e-004**	**0.0239**	**3.1000e-004**	**0.0242**	**6.4900e-003**	**2.9000e-004**	**6.7800e-003**	**0.0000**	**30.5180**	**30.5180**	**7.3000e-004**	**2.7900e-003**	**31.3666**

Mitigated Construction On-Site

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

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

Off-Road	0.0354	0.3454	0.3699	7.1000e-004		0.0155	0.0155		0.0146	0.0146	0.0000	61.5261	61.5261	0.0128	0.0000	61.8457
Total	**0.0354**	**0.3454**	**0.3699**	**7.1000e-004**		**0.0155**	**0.0155**		**0.0146**	**0.0146**	**0.0000**	**61.5261**	**61.5261**	**0.0128**	**0.0000**	**61.8457**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.4000e-004	0.0377	0.0120	1.7000e-004	5.5600e-003	2.2000e-004	5.7900e-003	1.6100e-003	2.1000e-004	1.8200e-003	0.0000	16.7092	16.7092	3.4000e-004	2.4100e-003	17.4361
Worker	5.6500e-003	3.7000e-003	0.0483	1.5000e-004	0.0184	9.0000e-005	0.0184	4.8800e-003	8.0000e-005	4.9600e-003	0.0000	13.8088	13.8088	3.9000e-004	3.8000e-004	13.9306
Total	**6.5900e-003**	**0.0414**	**0.0604**	**3.2000e-004**	**0.0239**	**3.1000e-004**	**0.0242**	**6.4900e-003**	**2.9000e-004**	**6.7800e-003**	**0.0000**	**30.5180**	**30.5180**	**7.3000e-004**	**2.7900e-003**	**31.3666**

3.9 Architectural Coating (Pre-Receptors) - 2024

Unmitigated Construction On-Site

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

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Archit. Coating	0.2694					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1400e-003	0.0481	0.0715	1.2000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	10.0854	10.0854	5.7000e-004	0.0000	10.0996
Total	**0.2766**	**0.0481**	**0.0715**	**1.2000e-004**		**2.4100e-003**	**2.4100e-003**		**2.4100e-003**	**2.4100e-003**	**0.0000**	**10.0854**	**10.0854**	**5.7000e-004**	**0.0000**	**10.0996**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6000e-004	6.3000e-004	8.2500e-003	3.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.3000e-004	1.0000e-005	8.5000e-004	0.0000	2.3572	2.3572	7.0000e-005	6.0000e-005	2.3780
Total	**9.6000e-004**	**6.3000e-004**	**8.2500e-003**	**3.0000e-005**	**3.1300e-003**	**2.0000e-005**	**3.1500e-003**	**8.3000e-004**	**1.0000e-005**	**8.5000e-004**	**0.0000**	**2.3572**	**2.3572**	**7.0000e-005**	**6.0000e-005**	**2.3780**

Mitigated Construction On-Site

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

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Category	tons/yr										MT/yr					
Archit. Coating	0.2694					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1400e-003	0.0481	0.0715	1.2000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	10.0853	10.0853	5.7000e-004	0.0000	10.0995
Total	**0.2766**	**0.0481**	**0.0715**	**1.2000e-004**		**2.4100e-003**	**2.4100e-003**		**2.4100e-003**	**2.4100e-003**	**0.0000**	**10.0853**	**10.0853**	**5.7000e-004**	**0.0000**	**10.0995**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6000e-004	6.3000e-004	8.2500e-003	3.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.3000e-004	1.0000e-005	8.5000e-004	0.0000	2.3572	2.3572	7.0000e-005	6.0000e-005	2.3780
Total	**9.6000e-004**	**6.3000e-004**	**8.2500e-003**	**3.0000e-005**	**3.1300e-003**	**2.0000e-005**	**3.1500e-003**	**8.3000e-004**	**1.0000e-005**	**8.5000e-004**	**0.0000**	**2.3572**	**2.3572**	**7.0000e-005**	**6.0000e-005**	**2.3780**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.561700	0.056037	0.179622	0.127612	0.023848	0.005501	0.007131	0.007135	0.000546	0.000337	0.025847	0.001311	0.003372
Other Non-Asphalt Surfaces	0.561700	0.056037	0.179622	0.127612	0.023848	0.005501	0.007131	0.007135	0.000546	0.000337	0.025847	0.001311	0.003372
Parking Lot	0.561700	0.056037	0.179622	0.127612	0.023848	0.005501	0.007131	0.007135	0.000546	0.000337	0.025847	0.001311	0.003372
Single Family Housing	0.561700	0.056037	0.179622	0.127612	0.023848	0.005501	0.007131	0.007135	0.000546	0.000337	0.025847	0.001311	0.003372

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
	Appendix				

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

City Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

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

6.2 Area by SubCategory

Unmitigated

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.0 Water Detail

7.1 Mitigation Measures Water

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000

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

Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Category/Year

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Skelly Rd Construction (After New Receptors) - Contra Costa County, Annual

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

Skelly Rd Construction (After New Receptors)

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	30.00	Dwelling Unit	3.61	56,350.00	86

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment - Note 2

Off-road Equipment -

Off-road Equipment - Note 2

Trips and VMT -

Demolition -

Grading -

Architectural Coating - Note 4

Skelly Rd Construction (After New Receptors) - Contra Costa County, Annual

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

Vehicle Trips - Note 5

Woodstoves - Note 5

Consumer Products - Note 5

Area Coating - Note 5

Landscape Equipment - Note 5

Energy Use - Note 5

Water And Wastewater - Note 5

Solid Waste - Note 5

Construction Off-road Equipment Mitigation - Note 6

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	38,036.00	24,614.00
tblArchitecturalCoating	ConstArea_Residential_Interior	114,109.00	73,841.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	105.00
tblConstructionPhase	NumDays	230.00	105.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	2,615.00	0.00
tblEnergyUse	T24E	45.71	0.00
tblEnergyUse	T24NG	35,976.14	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00

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

tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LandUseSquareFeet	54,000.00	56,350.00
tblLandUse	LotAcreage	9.74	3.61
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblSolidWaste	SolidWasteGenerationRate	36.12	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	1,954,620.77	0.00
tblWater	OutdoorWaterUseRate	1,232,260.92	0.00
tblWoodstoves	WoodstoveDayYear	21.06	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.3098	0.4796	0.5479	1.0700e-003	6.4500e-003	0.0215	0.0280	1.7400e-003	0.0205	0.0223	0.0000	93.1771	93.1771	0.0160	5.6000e-004	93.7443
Maximum	**0.3098**	**0.4796**	**0.5479**	**1.0700e-003**	**6.4500e-003**	**0.0215**	**0.0280**	**1.7400e-003**	**0.0205**	**0.0223**	**0.0000**	**93.1771**	**93.1771**	**0.0160**	**5.6000e-004**	**93.7443**

Skelly Rd Construction (After New Receptors) - Contra Costa County, Annual

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

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.3098	0.4796	0.5479	1.0700e-003	6.4500e-003	0.0215	0.0280	1.7400e-003	0.0205	0.0223	0.0000	93.1770	93.1770	0.0160	5.6000e-004	93.7442
Maximum	**0.3098**	**0.4796**	**0.5479**	**1.0700e-003**	**6.4500e-003**	**0.0215**	**0.0280**	**1.7400e-003**	**0.0205**	**0.0223**	**0.0000**	**93.1770**	**93.1770**	**0.0160**	**5.6000e-004**	**93.7442**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-6-2024**	**9-5-2024**	0.4939	0.4939
2	**9-6-2024**	**9-30-2024**	0.1342	0.1342
		Highest	0.4939	0.4939

2.2 Overall Operational

Unmitigated Operational

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

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

Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction (Post-Receptors)	Building Construction	6/6/2024	10/30/2024	5	105	
2	Architectural Coating (Post-Receptors)	Architectural Coating	6/6/2024	10/30/2024	5	105	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 73,841; Residential Outdoor: 24,614; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction (Post-Receptors)	Cranes	1	7.00	231	0.29
Building Construction (Post-Receptors)	Forklifts	1	8.00	89	0.20
Building Construction (Post-Receptors)	Generator Sets	1	8.00	84	0.74
Building Construction (Post-Receptors)	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction (Post-Receptors)	Welders	0	8.00	46	0.45
Architectural Coating (Post-Receptors)	Air Compressors	1	6.00	78	0.48

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction (Post-Receptors)	4	11.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (Post-Receptors)	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction (Post-Receptors) - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0418	0.4075	0.4364	8.3000e-004		0.0182	0.0182		0.0173	0.0173	0.0000	72.5871	72.5871	0.0151	0.0000	72.9641
Total	**0.0418**	**0.4075**	**0.4364**	**8.3000e-004**		**0.0182**	**0.0182**		**0.0173**	**0.0173**	**0.0000**	**72.5871**	**72.5871**	**0.0151**	**0.0000**	**72.9641**

Unmitigated Construction Off-Site

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

Skelly Rd Construction (After New Receptors) - Contra Costa County, Annual

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

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	7.0200e-003	2.2400e-003	3.0000e-005	1.0400e-003	4.0000e-005	1.0800e-003	3.0000e-004	4.0000e-005	3.4000e-004	0.0000	3.1126	3.1126	6.0000e-005	4.5000e-004	3.2480
Worker	1.4100e-003	9.2000e-004	0.0121	4.0000e-005	4.5800e-003	2.0000e-005	4.6000e-003	1.2200e-003	2.0000e-005	1.2400e-003	0.0000	3.4462	3.4462	1.0000e-004	9.0000e-005	3.4766
Total	**1.5900e-003**	**7.9400e-003**	**0.0143**	**7.0000e-005**	**5.6200e-003**	**6.0000e-005**	**5.6800e-003**	**1.5200e-003**	**6.0000e-005**	**1.5800e-003**	**0.0000**	**6.5588**	**6.5588**	**1.6000e-004**	**5.4000e-004**	**6.7246**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0418	0.4075	0.4364	8.3000e-004		0.0182	0.0182		0.0173	0.0173	0.0000	72.5870	72.5870	0.0151	0.0000	72.9640
Total	**0.0418**	**0.4075**	**0.4364**	**8.3000e-004**		**0.0182**	**0.0182**		**0.0173**	**0.0173**	**0.0000**	**72.5870**	**72.5870**	**0.0151**	**0.0000**	**72.9640**

Mitigated Construction Off-Site

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

Skelly Rd Construction (After New Receptors) - Contra Costa County, Annual

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

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	7.0200e-003	2.2400e-003	3.0000e-005	1.0400e-003	4.0000e-005	1.0800e-003	3.0000e-004	4.0000e-005	3.4000e-004	0.0000	3.1126	3.1126	6.0000e-005	4.5000e-004	3.2480
Worker	1.4100e-003	9.2000e-004	0.0121	4.0000e-005	4.5800e-003	2.0000e-005	4.6000e-003	1.2200e-003	2.0000e-005	1.2400e-003	0.0000	3.4462	3.4462	1.0000e-004	9.0000e-005	3.4766
Total	**1.5900e-003**	**7.9400e-003**	**0.0143**	**7.0000e-005**	**5.6200e-003**	**6.0000e-005**	**5.6800e-003**	**1.5200e-003**	**6.0000e-005**	**1.5800e-003**	**0.0000**	**6.5588**	**6.5588**	**1.6000e-004**	**5.4000e-004**	**6.7246**

3.3 Architectural Coating (Post-Receptors) - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4900e-003	0.0640	0.0950	1.6000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	13.4046	13.4046	7.5000e-004	0.0000	13.4235
Total	**0.2662**	**0.0640**	**0.0950**	**1.6000e-004**		**3.2000e-003**	**3.2000e-003**		**3.2000e-003**	**3.2000e-003**	**0.0000**	**13.4046**	**13.4046**	**7.5000e-004**	**0.0000**	**13.4235**

Unmitigated Construction Off-Site

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.7000e-004	2.1900e-003	1.0000e-005	8.3000e-004	0.0000	8.4000e-004	2.2000e-004	0.0000	2.3000e-004	0.0000	0.6266	0.6266	2.0000e-005	2.0000e-005	0.6321
Total	**2.6000e-004**	**1.7000e-004**	**2.1900e-003**	**1.0000e-005**	**8.3000e-004**	**0.0000**	**8.4000e-004**	**2.2000e-004**	**0.0000**	**2.3000e-004**	**0.0000**	**0.6266**	**0.6266**	**2.0000e-005**	**2.0000e-005**	**0.6321**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4900e-003	0.0640	0.0950	1.6000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	13.4046	13.4046	7.5000e-004	0.0000	13.4234
Total	**0.2662**	**0.0640**	**0.0950**	**1.6000e-004**		**3.2000e-003**	**3.2000e-003**		**3.2000e-003**	**3.2000e-003**	**0.0000**	**13.4046**	**13.4046**	**7.5000e-004**	**0.0000**	**13.4234**

Mitigated Construction Off-Site

Skelly Rd Construction (After New Receptors) - Contra Costa County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.7000e-004	2.1900e-003	1.0000e-005	8.3000e-004	0.0000	8.4000e-004	2.2000e-004	0.0000	2.3000e-004	0.0000	0.6266	0.6266	2.0000e-005	2.0000e-005	0.6321
Total	**2.6000e-004**	**1.7000e-004**	**2.1900e-003**	**1.0000e-005**	**8.3000e-004**	**0.0000**	**8.4000e-004**	**2.2000e-004**	**0.0000**	**2.3000e-004**	**0.0000**	**0.6266**	**0.6266**	**2.0000e-005**	**2.0000e-005**	**0.6321**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.561700	0.056037	0.179622	0.127612	0.023848	0.005501	0.007131	0.007135	0.000546	0.000337	0.025847	0.001311	0.003372

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

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

Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					

Skelly Rd Construction (After New Receptors) - Contra Costa County, Annual

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

Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Appendix A

Skelly Rd Construction (After New Receptors) - Contra Costa County, Annual

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

6.0 Area Detail

6.1 Mitigation Measures Area

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.0 Water Detail

7.1 Mitigation Measures Water

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

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

Skelly Rd Construction (After New Receptors) - Contra Costa County, Annual

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

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

8.2 Waste by Land Use

Unmitigated

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

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

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

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	0.08	Acre	0.08	3,430.00	0
Parking Lot	62.32	1000sqft	1.43	62,320.00	0
City Park	0.45	Acre	0.45	19,602.00	0
Single Family Housing	40	Dwelling Unit	4.86	74,740.00	114

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Note 1

Land Use - Note 1

Construction Phase - Note 5

Off-road Equipment - Note 5

Trips and VMT - Note 5

Demolition -

Grading -

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

Architectural Coating -

Vehicle Trips - Note 5, Note 8

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - Note 9

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Note 9

Energy Mitigation - Note 10

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20	0
tblFireplaces	NumberWood	17.2	0
tblLandUse	LandUseSquareFeet	3,484.80	3,430.00
tblLandUse	LandUseSquareFeet	72,000.00	74,740.00
tblLandUse	LotAcreage	12.99	4.86
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1	0
tblTripsAndVMT	WorkerTripNumber	10	0
tblVehicleTrips	ST_TR	1.96	0
tblVehicleTrips	ST_TR	9.54	9.43
tblVehicleTrips	SU_TR	2.19	0
tblVehicleTrips	SU_TR	8.55	9.43
tblVehicleTrips	WD_TR	0.78	0

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

tblVehicleTrips	WD_TR	9.44	9.43

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3698	6.03E-03	0.3918	3.30E-04		0.017	0.017		0.017	0.017	2.0499	1.7347	3.7845	0.0101	2.00E-05	4.0432
Energy	8.32E-03	0.0711	0.0303	4.50E-04		5.75E-03	5.75E-03		5.75E-03	5.75E-03	0	113.2993	113.2993	6.58E-03	2.12E-03	114.0946
Mobile	0.1605	0.1772	1.4647	3.00E-03	0.3223	2.26E-03	0.3246	0.0861	2.10E-03	0.0882	0	277.0634	277.0634	0.0184	0.0134	281.518
Waste						0	0		0	0	9.7273	0	9.7273	0.5749	0	24.099
Water						0	0		0	0	0.8268	2.0105	2.8373	0.0853	2.04E-03	5.5777
Total	**0.5386**	**0.2544**	**1.8867**	**3.78E-03**	**0.3223**	**0.0251**	**0.3474**	**0.0861**	**0.0249**	**0.111**	**12.604**	**394.1078**	**406.7118**	**0.6952**	**0.0176**	**429.3326**

Mitigated Operational

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3698	6.03E-03	0.3918	3.30E-04		0.017	0.017		0.017	0.017	2.0499	1.7347	3.7845	0.0101	2.00E-05	4.0432
Energy	8.32E-03	0.0711	0.0303	4.50E-04		5.75E-03	5.75E-03		5.75E-03	5.75E-03	0	106.0639	106.0639	5.41E-03	1.97E-03	106.7877
Mobile	0.1605	0.1772	1.4647	3.00E-03	0.3223	2.26E-03	0.3246	0.0861	2.10E-03	0.0882	0	277.0634	277.0634	0.0184	0.0134	281.518
Waste						0	0		0	0	9.7273	0	9.7273	0.5749	0	24.099
Water						0	0		0	0	0.8268	2.0105	2.8373	0.0853	2.04E-03	5.5777
Total	**0.5386**	**0.2544**	**1.8867**	**3.78E-03**	**0.3223**	**0.0251**	**0.3474**	**0.0861**	**0.0249**	**0.111**	**12.604**	**386.8725**	**399.4765**	**0.6941**	**0.0174**	**422.0257**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1.84**	**1.78**	**0.17**	**0.85**	**1.7**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	3/23/2022	3/22/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.51

Residential Indoor: 151,349; Residential Outdoor: 50,450; Non-Residential Indoor: 2; Non-Residential Outdoor: 1; Striped Parking Area: 3,945

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	0	0	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-Road	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-Road	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

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

Mitigated	0.1605	0.1772	1.4647	3.00E-03	0.3223	2.26E-03	0.3246	0.0861	2.10E-03	0.0882	0	277.0634	277.0634	0.0184	0.0134	281.518
Unmitigated	0.1605	0.1772	1.4647	3.00E-03	0.3223	2.26E-03	0.3246	0.0861	2.10E-03	0.0882	0	277.0634	277.0634	0.0184	0.0134	281.518

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	377.20	377.20	377.20	871,184	871,184
Total	377.20	377.20	377.20	871,184	871,184

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.5617	0.056037	0.179622	0.127612	0.023848	0.005501	0.007131	0.007135	0.000546	0.000337	0.025847	0.001311	0.003372
Other Non-Asphalt Surfaces	0.5617	0.056037	0.179622	0.127612	0.023848	0.005501	0.007131	0.007135	0.000546	0.000337	0.025847	0.001311	0.003372
Parking Lot	0.5617	0.056037	0.179622	0.127612	0.023848	0.005501	0.007131	0.007135	0.000546	0.000337	0.025847	0.001311	0.003372
Single Family Housing	0.5617	0.056037	0.179622	0.127612	0.023848	0.005501	0.007131	0.007135	0.000546	0.000337	0.025847	0.001311	0.003372

5.0 Energy Detail

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0	0		0	0	0	23.6891	23.6891	3.83E-03	4.60E-04	23.9234
Electricity Unmitigated						0	0		0	0	0	30.9245	30.9245	5.00E-03	6.10E-04	31.2303
NaturalGas Mitigated	8.32E-03	0.0711	0.0303	4.50E-04		5.75E-03	5.75E-03		5.75E-03	5.75E-03	0	82.3748	82.3748	1.58E-03	1.51E-03	82.8643
NaturalGas Unmitigated	8.32E-03	0.0711	0.0303	4.50E-04		5.75E-03	5.75E-03		5.75E-03	5.75E-03	0	82.3748	82.3748	1.58E-03	1.51E-03	82.8643

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0

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

Other Non-Asphalt Surfaces	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0
Parking Lot	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0
Single Family Housing	1.54E+06	8.32E-03	0.0711	0.0303	4.50E-04		5.75E-03	5.75E-03		5.75E-03	5.75E-03	0	82.3748	82.3748	1.58E-03	1.51E-03	82.8643
Total		**8.32E-03**	**0.0711**	**0.0303**	**4.50E-04**		**5.75E-03**	**5.75E-03**		**5.75E-03**	**5.75E-03**	**0**	**82.3748**	**82.3748**	**1.58E-03**	**1.51E-03**	**82.8643**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0
Parking Lot	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0
Single Family Housing	1.54E+06	8.32E-03	0.0711	0.0303	4.50E-04		5.75E-03	5.75E-03		5.75E-03	5.75E-03	0	82.3748	82.3748	1.58E-03	1.51E-03	82.8643
Total		**8.32E-03**	**0.0711**	**0.0303**	**4.50E-04**		**5.75E-03**	**5.75E-03**		**5.75E-03**	**5.75E-03**	**0**	**82.3748**	**82.3748**	**1.58E-03**	**1.51E-03**	**82.8643**

5.3 Energy by Land Use - Electricity

Unmitigated

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0
Parking Lot	21812	2.0181	3.30E-04	4.00E-05	2.0381
Single Family Housing	312421	28.9064	4.68E-03	5.70E-04	29.1922
Total		**30.9245**	**5.01E-03**	**6.10E-04**	**31.2303**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	-19550	-1.8088	-0.0003	0	-1.8267
Other Non-Asphalt Surfaces	-19550	-1.8088	-0.0003	0	-1.8267
Parking Lot	2262	0.2093	3.00E-05	0	0.2114
Single Family Housing	292871	27.0975	4.38E-03	5.30E-04	27.3655

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Total		**23.6891**	**3.83E-03**	**4.50E-04**	**23.9234**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3698	6.03E-03	0.3918	3.30E-04		0.017	0.017		0.017	0.017	2.0499	1.7347	3.7845	0.0101	2.00E-05	4.0432
Unmitigated	0.3698	6.03E-03	0.3918	3.30E-04		0.017	0.017		0.017	0.017	2.0499	1.7347	3.7845	0.0101	2.00E-05	4.0432

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.054					0	0		0	0	0	0	0	0	0	0

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Consumer Products	0.2963					0	0		0	0	0	0	0	0	0	0
Hearth	0.0105	2.61E-03	0.0943	3.10E-04		0.0154	0.0154		0.0154	0.0154	2.0499	1.2484	3.2983	9.61E-03	2.00E-05	3.5452
Landscaping	8.98E-03	3.43E-03	0.2975	2.00E-05		1.65E-03	1.65E-03		1.65E-03	1.65E-03	0	0.4863	0.4863	4.70E-04	0	0.498
Total	**0.3698**	**6.04E-03**	**0.3918**	**3.30E-04**		**0.0171**	**0.0171**		**0.0171**	**0.0171**	**2.0499**	**1.7347**	**3.7845**	**0.0101**	**2.00E-05**	**4.0432**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.054					0	0		0	0	0	0	0	0	0	0
Consumer Products	0.2963					0	0		0	0	0	0	0	0	0	0
Hearth	0.0105	2.61E-03	0.0943	3.10E-04		0.0154	0.0154		0.0154	0.0154	2.0499	1.2484	3.2983	9.61E-03	2.00E-05	3.5452
Landscaping	8.98E-03	3.43E-03	0.2975	2.00E-05		1.65E-03	1.65E-03		1.65E-03	1.65E-03	0	0.4863	0.4863	4.70E-04	0	0.498
Total	**0.3698**	**6.04E-03**	**0.3918**	**3.30E-04**		**0.0171**	**0.0171**		**0.0171**	**0.0171**	**2.0499**	**1.7347**	**3.7845**	**0.0101**	**2.00E-05**	**4.0432**

7.0 Water Detail

7.1 Mitigation Measures Water

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.8373	0.0853	2.04E-03	5.5777
Unmitigated	2.8373	0.0853	2.04E-03	5.5777

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.536167	0.1736	3.00E-05	0	0.1754
Other Non-Asphalt Surfaces	0 / 0	0	0	0	0
Parking Lot	0 / 0	0	0	0	0
Single Family Housing	2.60616 / 1.64301	2.6636	0.0852	2.04E-03	5.4024
Total		**2.8373**	**0.0853**	**2.04E-03**	**5.5778**

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

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.536167	0.1736	3.00E-05	0	0.1754
Other Non-Asphalt Surfaces	0 / 0	0	0	0	0
Parking Lot	0 / 0	0	0	0	0
Single Family Housing	2.60616 / 1.64301	2.6636	0.0852	2.04E-03	5.4024
Total		**2.8373**	**0.0853**	**2.04E-03**	**5.5778**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			

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

Mitigated	9.7273	0.5749	0	24.099
Unmitigated	9.7273	0.5749	0	24.099

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.04	8.12E-03	4.80E-04	0	0.0201
Other Non-Asphalt Surfaces	0	0	0	0	0
Parking Lot	0	0	0	0	0
Single Family Housing	47.88	9.7192	0.5744	0	24.0789
Total		**9.7273**	**0.5749**	**0**	**24.099**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e

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

Land Use	tons	MT/yr			
City Park	0.04	8.12E-03	4.80E-04	0	0.0201
Other Non-Asphalt Surfaces	0	0	0	0	0
Parking Lot	0	0	0	0	0
Single Family Housing	47.88	9.7192	0.5744	0	24.0789
Total		**9.7273**	**0.5749**	**0**	**24.099**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Typical Construction Trailer - Contra Costa County, Annual

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

Typical Construction Trailer

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	0.72	1000sqft	0.02	720.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Typical construction trailer for estimate of energy usage

CO2 Intensity Factor adjusted to reflect SCE's GHG Emissions Factors

Land Use - 12'x60' single-wide unit (720 sq ft)

Construction Phase - Typical construction trailer for energy use estimates - estimates are included in the operational component of the results

Off-road Equipment - Zeroed out construction equipment

Trips and VMT -

Architectural Coating -

Vehicle Trips - Zeroed out off-site trips

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Typical Construction Trailer - Contra Costa County, Annual

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

Consumer Products -

Area Coating -

Landscape Equipment -

Energy Use -

Water And Wastewater -

Area Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	4.2300e-003	3.2600e-003	4.5300e-003	1.0000e-005	0.0000	1.8000e-004	1.8000e-004	0.0000	1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393
Maximum	**4.2300e-003**	**3.2600e-003**	**4.5300e-003**	**1.0000e-005**	**0.0000**	**1.8000e-004**	**1.8000e-004**	**0.0000**	**1.8000e-004**	**1.8000e-004**	**0.0000**	**0.6383**	**0.6383**	**4.0000e-005**	**0.0000**	**0.6393**

Mitigated Construction

Typical Construction Trailer - Contra Costa County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	4.2300e-003	3.2600e-003	4.5300e-003	1.0000e-005	0.0000	1.8000e-004	1.8000e-004	0.0000	1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393
Maximum	**4.2300e-003**	**3.2600e-003**	**4.5300e-003**	**1.0000e-005**	**0.0000**	**1.8000e-004**	**1.8000e-004**	**0.0000**	**1.8000e-004**	**1.8000e-004**	**0.0000**	**0.6383**	**0.6383**	**4.0000e-005**	**0.0000**	**0.6393**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	7.0000e-005	6.8000e-004	5.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	1.5379	1.5379	1.4000e-004	3.0000e-005	1.5502
Mobile	2.2900e-003	2.5600e-003	0.0211	4.0000e-005	4.6900e-003	3.0000e-005	4.7300e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	4.0302	4.0302	2.6000e-004	1.9000e-004	4.0944
Waste						0.0000	0.0000		0.0000	0.0000	0.1360	0.0000	0.1360	8.0400e-003	0.0000	0.3369

Typical Construction Trailer - Contra Costa County, Annual

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

Water						0.0000	0.0000		0.0000	0.0000	0.0406	0.0895	0.1301	4.1800e-003	1.0000e-004	0.2645
Total	**5.5500e-003**	**3.2400e-003**	**0.0217**	**4.0000e-005**	**4.6900e-003**	**8.0000e-005**	**4.7800e-003**	**1.2500e-003**	**8.0000e-005**	**1.3300e-003**	**0.1766**	**5.6575**	**5.8341**	**0.0126**	**3.2000e-004**	**6.2460**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	7.0000e-005	6.8000e-004	5.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	1.5379	1.5379	1.4000e-004	3.0000e-005	1.5502
Mobile	2.2900e-003	2.5600e-003	0.0211	4.0000e-005	4.6900e-003	3.0000e-005	4.7300e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	4.0302	4.0302	2.6000e-004	1.9000e-004	4.0944
Waste						0.0000	0.0000		0.0000	0.0000	0.1360	0.0000	0.1360	8.0400e-003	0.0000	0.3369
Water						0.0000	0.0000		0.0000	0.0000	0.0406	0.0895	0.1301	4.1800e-003	1.0000e-004	0.2645
Total	**5.5500e-003**	**3.2400e-003**	**0.0217**	**4.0000e-005**	**4.6900e-003**	**8.0000e-005**	**4.7800e-003**	**1.2500e-003**	**8.0000e-005**	**1.3300e-003**	**0.1766**	**5.6575**	**5.8341**	**0.0126**	**3.2000e-004**	**6.2460**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Typical Construction Trailer - Contra Costa County, Annual

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

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	10/2/2023	10/6/2023	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,080; Non-Residential Outdoor: 360; Striped Parking Area: 0 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2023

Unmitigated Construction On-Site

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

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Category	tons/yr										MT/yr					
Archit. Coating	3.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e-004	3.2600e-003	4.5300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393
Total	**4.2300e-003**	**3.2600e-003**	**4.5300e-003**	**1.0000e-005**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**	**0.0000**	**0.6383**	**0.6383**	**4.0000e-005**	**0.0000**	**0.6393**

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

Typical Construction Trailer - Contra Costa County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e-004	3.2600e-003	4.5300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393
Total	**4.2300e-003**	**3.2600e-003**	**4.5300e-003**	**1.0000e-005**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**	**0.0000**	**0.6383**	**0.6383**	**4.0000e-005**	**0.0000**	**0.6393**

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Typical Construction Trailer - Contra Costa County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.2900e-003	2.5600e-003	0.0211	4.0000e-005	4.6900e-003	3.0000e-005	4.7300e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	4.0302	4.0302	2.6000e-004	1.9000e-004	4.0944
Unmitigated	2.2900e-003	2.5600e-003	0.0211	4.0000e-005	4.6900e-003	3.0000e-005	4.7300e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	4.0302	4.0302	2.6000e-004	1.9000e-004	4.0944

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	7.01	1.59	0.50	12,686	12,686
Total	7.01	1.59	0.50	12,686	12,686

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.561700	0.056037	0.179622	0.127612	0.023848	0.005501	0.007131	0.007135	0.000546	0.000337	0.025847	0.001311	0.003372

5.0 Energy Detail

Typical Construction Trailer - Contra Costa County, Annual

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.8021	0.8021	1.3000e-004	2.0000e-005	0.8100
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.8021	0.8021	1.3000e-004	2.0000e-005	0.8100
NaturalGas Mitigated	7.0000e-005	6.8000e-004	5.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7358	0.7358	1.0000e-005	1.0000e-005	0.7402
NaturalGas Unmitigated	7.0000e-005	6.8000e-004	5.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7358	0.7358	1.0000e-005	1.0000e-005	0.7402

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	13788	7.0000e-005	6.8000e-004	5.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7358	0.7358	1.0000e-005	1.0000e-005	0.7402

Typical Construction Trailer - Contra Costa County, Annual

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

Total		**7.0000e-005**	**6.8000e-004**	**5.7000e-004**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.7358**	**0.7358**	**1.0000e-005**	**1.0000e-005**	**0.7402**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	13788	7.0000e-005	6.8000e-004	5.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7358	0.7358	1.0000e-005	1.0000e-005	0.7402
Total		**7.0000e-005**	**6.8000e-004**	**5.7000e-004**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.7358**	**0.7358**	**1.0000e-005**	**1.0000e-005**	**0.7402**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	8668.8	0.8021	1.3000e-004	2.0000e-005	0.8100
Total		**0.8021**	**1.3000e-004**	**2.0000e-005**	**0.8100**

Typical Construction Trailer - Contra Costa County, Annual

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

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	8668.8	0.8021	1.3000e-004	2.0000e-005	0.8100
Total		**0.8021**	**1.3000e-004**	**2.0000e-005**	**0.8100**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.1900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Unmitigated	3.1900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

Typical Construction Trailer - Contra Costa County, Annual

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**3.1900e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**3.1900e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

Typical Construction Trailer - Contra Costa County, Annual

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

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.1301	4.1800e-003	1.0000e-004	0.2645
Unmitigated	0.1301	4.1800e-003	1.0000e-004	0.2645

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.127968 / 0.0784322	0.1301	4.1800e-003	1.0000e-004	0.2645
Total		**0.1301**	**4.1800e-003**	**1.0000e-004**	**0.2645**

Typical Construction Trailer - Contra Costa County, Annual

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

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.127968 / 0.0784322	0.1301	4.1800e-003	1.0000e-004	0.2645
Total		**0.1301**	**4.1800e-003**	**1.0000e-004**	**0.2645**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.1360	8.0400e-003	0.0000	0.3369
Unmitigated	0.1360	8.0400e-003	0.0000	0.3369

Typical Construction Trailer - Contra Costa County, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0.67	0.1360	8.0400e-003	0.0000	0.3369
Total		**0.1360**	**8.0400e-003**	**0.0000**	**0.3369**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0.67	0.1360	8.0400e-003	0.0000	0.3369
Total		**0.1360**	**8.0400e-003**	**0.0000**	**0.3369**

9.0 Operational Offroad

Typical Construction Trailer - Contra Costa County, Annual

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

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Project Construction DPM Emissions
(Development Before On-Site Receptors [10/11/23 - 6/5/24])

Annual Construction Emissions (tons)

Construction Activity	PM2.5 (Exhaust)
on site	0.00783
off site	0.00012
Demolition	**0.00795**
on site	0.00275
off site	0.00000
Site Preparation (Site-Wide)	**0.00275**
on site	0.01030
off site	0.00001
Grading (Site-Wide)	**0.01031**
on site	0.00164
off site	0.00003
Building Construction (Model Homes)	**0.00167**
on site	0.00505
off site	0.00000
Paving (Roadways & Model Homes)	**0.00505**
on site	0.00030
off site	0.00000
Architectural Coating (Pavement & Model Homes)	**0.00030**
on site	0.01460
off site	0.00029
Building Construction (Pre-Receptors)	**0.01489**
on site	0.00241
off site	0.00001
Architectural Coating (Pre-Receptors)	**0.00242**
Total On site	0.04488
Total Off site	0.00046
Total Construction Emissions	**0.04534**

Exhaust PM2.5 AERMOD Inputs

Construction Hours	**1,368**	**(8 hours/day, 171 workdays)**
Elapsed Hours	**5,746**	**(24 hours/day, 239 calendar days)**
Variable Factor	**4.20**	
On-Site Emissions	**89.76**	**pounds**
	40,714.42	**grams**
	7.086E+00	**grams/hours**
	1.968E-03	**grams/sec**
	6.350E-04	**grams/sec**
Off-Site Emissions	**0.92**	**pounds**
	417.30	**grams**
	7.263E-02	**grams/hour**
	2.018E-05	**grams/sec**

Mitigation Applied	Mitigation Description
MM AIR-1	BAAQMD Construction Dust Control Measures

Off-Site AERMOD Input Adjustments

Roadway Segment	Length (Miles)	Proportion of Total	$PM_{2.5}$ (Exhaust) Emission Rate (g/sec)
Skelly Road	0.2	100.00%	**4.664E-07**
Totals	*0.2*	*100.00%*	*4.664E-07*

Notes:

[1] Conversion factor of 453.592 grams/pound was used to convert daily emissions expressed in pounds to daily emissions expressed in grams.

[2] Off-site emissions used in the AERMOD air dispersion model were reduced to account for the proportion of emissions occurring within 1,000 feet of the project site.

Off-Site Emission Adjustment for 1,000-foot Radius of Project Sit

Phase Name	Days	Daily Vendor Truck Trips	Total Vendor Truck Trips	Total Hauling Truck Trips	Vendor Trip Length	Hauling Trip Length
Demolition	82	-	-	224	7.3	20.0
Site Preparation (Site-Wide)	82	-	-	-	7.3	20.0
Grading (Site-Wide)	41	-	-	-	7.3	20.0
Building Construction (Model Homes)	10	19	190	-	7.3	20.0
Paving (Roadways & Model Homes)	45	-	-	-	7.3	20.0
Architectural Coating (Pavement & Model Homes)	10	-	-	-	7.3	20.0
Building Construction (Pre-Receptors)	89	19	1,691	-	7.3	20.0
Architectural Coating (Pre-Receptors)	79	-	-	-	7.3	20.0
		Totals	**1,881**	**224**		

Diesel-Fueled Vehicle Results		
	Total Vehicle Trips	Vehicle Miles Traveled (VMT)
Vendor Trucks	1,881.00	13,731.30
Hauling Trucks	224	4,480
	Total VMT	**18,211**

AERMOD 1,000-ft Radius Adjustment		
	Total Vehicle Trips	Vehicle Miles Traveled (VMT)
Vendor Trucks	1,881.00	376.20
Hauling Trucks	224	45
	Total VMT	**421.00**

Proportion of off-site emissions occuring within 1,000 of project site:	**2.3118%**

Project Construction DPM Emissions
(Development After On-Site Receptors [6/6/24 - 10/30/24])

Annual Construction Emissions (tons)

Construction Activity	PM2.5 (Exhaust)
on site	0.01730
off site	0.00006
Building Construction (Post-Receptors)	**0.01736**
on site	0.00320
off site	0.00000
Architectural Coating (Post-Receptors)	**0.00320**
Total On site	**0.02050**
Total Off site	**0.00006**
Total Construction Emissions	**0.02056**

Exhaust PM2.5 AERMOD Inputs

Construction Hours	**840**	**(8 hours/day, 105 workdays)**
Elapsed Hours	**3,528**	**(24 hours/day, 147 calendar days)**
Variable Factor	**4.20**	
On-Site Emissions	**41.00**	**pounds**
	18,597.27	**grams**
	5.271E+00	**grams/hours**
	1.464E-03	**grams/sec**
	4.723E-04	**grams/sec**
Off-Site Emissions	**0.12**	**pounds**
	54.43	**grams**
	1.543E-02	**grams/hour**
	4.286E-06	**grams/sec**

Mitigation Applied	Mitigation Description
MM AIR-1	BAAQMD Construction Dust Control Measures

Off-Site AERMOD Input Adjustments

Roadway Segment	Length (Miles)	Proportion of Total	$PM_{2.5}$ (Exhaust) Emission Rate (g/sec)
Skelly Road	0.2	100.00%	**1.174E-07**
Totals	*0.2*	*100.00%*	*1.174E-07*

Notes:

[1] Conversion factor of 453.592 grams/pound was used to convert daily emissions expressed in pounds to daily emissions expressed in grams.

[2] Off-site emissions used in the AERMOD air dispersion model were reduced to account for the proportion of emissions occurring within 1,000 feet of the project site.

Off-Site Emission Adjustment for 1,000-foot Radius of Project Site

Phase Name	Days	Daily Vendor Truck Trips	Total Vendor Truck Trips	Total Hauling Truck Trips	Vendor Trip Length	Hauling Trip Length
Building Construction (Post-Receptors)	18	19	342	-	7.3	20.0
Architectural Coating (Post-Receptors)	96	-	-	-	7.3	20.0
		Totals	**342**	**-**		

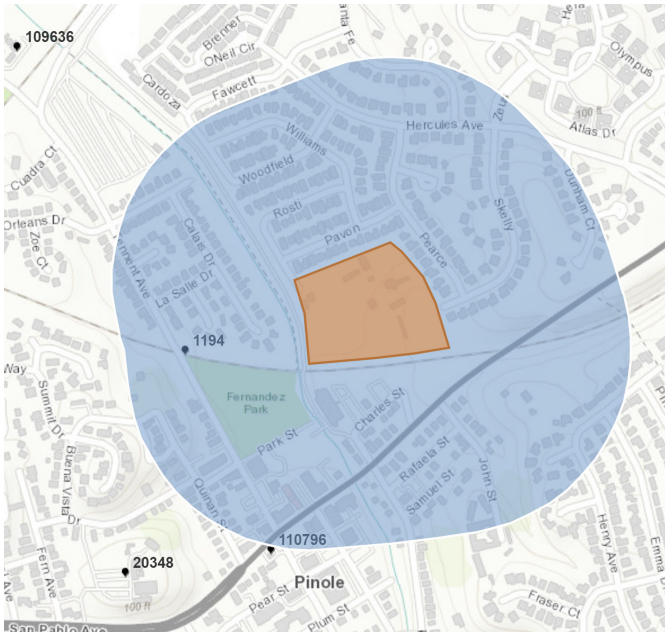
Diesel-Fueled Vehicle Results		
	Total Vehicle Trips	Vehicle Miles Traveled (VMT)
Vendor Trucks	342.00	2,496.60
Hauling Trucks	-	-
	Total VMT	**2,497**

AERMOD 1,000-ft Radius Adjustment		
	Total Vehicle Trips	Vehicle Miles Traveled (VMT)
Vendor Trucks	342.00	68.40
Hauling Trucks	-	-
	Total VMT	**68.40**

Proportion of off-site emissions occuring within 1,000 of project site:	**2.7397%**

Existing Stationary Sources within 1,000 Feet of the Project

Lat, Long Project Site: 38.008381, -122.288325



Permitted Stationary Sources within 1,000 feet of the Project Site:

Facility ID	Name	Address	City	St	Zip	County	Cancer (per million)	Hazard	PM_2.5 (ug/m3)	Type	Latitude	Longitude
1194*	Pinole-Hercules Wastewater Treatment Plant	11 Tennent Avenue	Pinole	CA	94564	Contra Costa	41.37	0.08	0.22	Contact BAAQMD	38.008	-122.293
110796	The Pump House	700 Tennent Ave	Pinole	CA	94564	Contra Costa	16.27	0.07	0	Gas Dispensing Facility	38.005	-122.291

Notes:

* This facility is misrepresented on the map shown above and is instead over 2,000 feet from the project site. Therefore, this facility was not included in the cumulative health impact analysis.

Facility ID **110796**

Distance to Off-Site MIR (feet):	1,835
Distance to On-Site MIR (feet):	1,415

Data provided by BAAQMD:		**Data adjusted for distance:**	
Cancer Risk	16.27	Cancer Risk	0.24
Hazard	0	Hazard	0
PM2.5 (ug/m3)	0	PM2.5 (ug/m3)	0
Source Type	Gas Dispensing Facility	Source Type	Gas Dispensing Facility

Facility ID **110796**

Gas Station				
Distance (meters)	Distance (feet)	Distance adjustment multiplier	Enter Risk or Hazard	Adjusted Risk or Hazard
0	0.0	1.000		0.0000
5	16.4	1.000		0.0000
295	967.8	0.015		0.0000
300	984.3	0.015	16.27	0.2435

Skelly Road Residential Project - Off-Site Residential Cancer Risks
Unmitigated Construction - Cancer Risk Calculations

Residential MIR Coordinates: 562,470.86 meters easting and 4,207,142.06 meters northing.

Residential - Infant (AERMOD Receptor ID: R-18)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Risk (risk/million)	
3rd Trimester	Site-Wide & Phase 1	0.04431	1.1	361	0.25	350	25550	1	10	0.60	95th Percentile DBR
0 to 1	Phases 2 through 5	0.04431	1.1	1090	0.25	350	25550	1	10	1.82	
0 to 1	Phases 2 through 5	0.04616	1.1	1090	0.50	350	25550	1	10	3.79	
									Total	**6.21**	

Residential - Child (AERMOD Receptor ID: R-18)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Risk (risk/million)	
3 to 4	Site-Wide & Phase 1	0.04431	1.1	631	0.50	350	25550	1	3	0.63	80th Percentile DBR
3 to 4	Phases 2 through 5	0.04616	1.1	631	0.50	350	25550	1	3	0.66	
									Total	**1.29**	

Residential - Adult (AERMOD Receptor ID: R-18)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Risk (risk/million)	
16 to 17	Site-Wide & Phase 1	0.04431	1.1	261	0.50	350	25550	0.73	1	0.06	80th Percentile DBR
16 to 17	Phases 2 through 5	0.04616	1.1	261	0.50	350	25550	0.73	1	0.07	
									Total	**0.13**	

Maximum Total **6.21**

Skelly Road Residential Project - On-Site Residential Cancer Risks
Unmitigated Construction - Cancer Risk Calculations

Residential MIR Coordinates: 562,414.89 meters easting and 4,207,033.80 meters northing.

Residential - Infant (AERMOD Receptor ID: OSR-1)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
3rd Trimester	Phases 2 through 5	0.06321	1.1	361	0.25	350	25550	1	10	0.86	95th Percentile DBR
0 to 1	Phases 2 through 5	0.06321	1.1	1090	0.25	350	25550	1	10	2.60	
									Total	**3.46**	

Residential - Child (AERMOD Receptor ID: OSR-1)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
3 to 4	Phases 2 through 5	0.06321	1.1	631	0.50	350	25550	1	3	0.90	80th Percentile DBR
									Total	**0.90**	

Residential - Adult (AERMOD Receptor ID: OSR-1)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
16 to 17	Phases 2 through 5	0.06321	1.1	261	0.50	350	25550	0.73	1	0.09	80th Percentile DBR
									Total	**0.09**	

Maximum Total **3.46**

Skelly Road Residential Project - Daycare Cancer Risks (Loving Arms Family Daycare)
<u>Unmitigated</u> Construction - Cancer Risk Calculations

Daycare MIR Coordinates: 562,235.26 meters easting and 4,207,149.71 meters northing.

Daycare - Infant (AERMOD Receptor ID: LAFD-3)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
3rd Trimester	Site-Wide & Phase 1	0.00341	1.1	361	0.25	350	25550	1	10	0.05	95th Percentile DBR
0 to 1	Phases 2 through 5	0.00341	1.1	1090	0.25	350	25550	1	10	0.14	
0 to 1	Phases 2 through 5	0.00253	1.1	1090	0.50	350	25550	1	10	0.21	
									Total	**0.39**	

Daycare - Child (AERMOD Receptor ID: LAFD-3)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
3 to 4	Site-Wide & Phase 1	0.00341	1.1	631	0.50	350	25550	1	3	0.05	80th Percentile DBR
3 to 4	Phases 2 through 5	0.00253	1.1	631	0.50	350	25550	1	3	0.04	
									Total	**0.08**	

Daycare - Adult (AERMOD Receptor ID: LAFD-3)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
16 to 17	Site-Wide & Phase 1	0.00341	1.1	261	0.50	350	25550	1	1	0.01	80th Percentile DBR
16 to 17	Phases 2 through 5	0.00253	1.1	261	0.50	350	25550	1	1	0.00	
									Total	**0.01**	

Maximum Total **0.39**

Skelly Road Residential Project - School Cancer Risks (La Casitas Bilingual Montessori School [ages 2.5+])
Unmitigated Construction - Cancer Risk Calculations

School MIR Coordinates: 562,279.18 meters easting and 4,206,860.34 meters northing.

School - Infant (AERMOD Receptor ID: LCBMS-5)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
2 to 3	Site-Wide & Phase 1	0.00109	1.1	1090	0.50	250	25550	1	10	0.06	95th Percentile DBR
3 to 4	Phases 2 through 5	0.00103	1.1	1090	0.50	250	25550	1	10	0.06	
									Total	**0.12**	

School - Child (AERMOD Receptor ID: LCBMS-5)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
3 to 4	Site-Wide & Phase 1	0.00109	1.1	861	0.50	250	25550	1	3	0.02	95th Percentile DBR
3 to 4	Phases 2 through 5	0.00103	1.1	861	0.50	250	25550	1	3	0.01	
									Total	**0.03**	

School - Adult (AERMOD Receptor ID: LCBMS-5)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
16 to 17	Site-Wide & Phase 1	0.00109	1.1	335	0.50	250	25550	1	1	0.00	95th Percentile DBR
16 to 17	Phases 2 through 5	0.00103	1.1	335	0.50	250	25550	1	1	0.00	
									Total	**0.00**	

Maximum Total **0.12**

Skelly Road Residential Project - Community Center Cancer Risks (Pinole Community Players [ages 6+])

Unmitigated Construction - Cancer Risk Calculations

Community Center MIR Coordinates: 562,320.28 meters easting and 4,206,816.04 meters northing.

Community Center - Child (AERMOD Receptor ID: PCP-49)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
6 to 7	Site-Wide & Phase 1	0.00130	1.1	861	0.50	350	25550	1	3	0.03	95th Percentile DBR
6 to 7	Phases 2 through 5	0.00126	1.1	861	0.50	350	25550	1	3	0.02	
									Total	**0.05**	

Community Center - Adult (AERMOD Receptor ID: PCP-49)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
16 to 17	Site-Wide & Phase 1	0.00130	1.1	335	0.50	350	25550	1	1	0.00	95th Percentile DBR
16 to 17	Phases 2 through 5	0.00126	1.1	335	0.50	350	25550	1	1	0.00	
									Total	**0.01**	
									Maximum Total	**0.05**	

Skelly Road Residential Project - Community Center Cancer Risks (Pinole Senior Center [ages 55+])

Unmitigated Construction - Cancer Risk Calculations

Community Center MIR Coordinates: 562,330.42 meters easting and 4,206,909.56 meters northing.

Community Center - Adult (AERMOD Receptor ID: PSC-2)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
55 to 56	Site-Wide & Phase 1	0.00313	1.1	290	0.50	350	25550	1	1	0.01	95th Percentile DBR
55 to 56	Phases 2 through 5	0.00364	1.1	290	0.50	350	25550	1	1	0.01	
									Total	**0.01**	
									Maximum Total	**0.01**	

Bay Area Air Quality Management District

Roadway Screening Analysis Calculator

County specific tables containing estimates of risk and hazard impacts from roadways in the Bay Area.

INSTRUCTIONS:

Input the site-specific characteristics of your project by using the drop down menu in the "Search Parameter" box. We recommend that this analysis be used for roadways with 10,000 AADT and above.

• County: Select the County where the project is located. The calculator is only applicable for projects within the nine Bay Area counties.

• Roadway Direction: Select the orientation that best matches the roadway. If the roadway orientation is neither clearly north-south nor east-west, use the highest values predicted from either orientation.

• Side of the Roadway: Identify on which side of the roadway the project is located.

• Distance from Roadway: Enter the distance in feet from the nearest edge of the roadway to the project site. The calculator estimates values for distances greater than 10 feet and less than 1000 feet. For distances greater than 1000 feet, the user can choose to extrapolate values using a distribution curve or apply 1000 feet values for greater distances.

• Annual Average Daily Traffic (ADT): Enter the annual average daily traffic on the roadway. These data may be collected from the city or the county (if the area is unincorporated).

When the user has completed the data entries, the screening level PM2.5 annual average concentration and the cancer risk results will appear in the Results Box on the right. Please note that the roadway tool is not applicable for California State Highways and the District refers the user to the Highway Screening Analysis Tool at: http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GUIDELINES/Tools-and-Methodology.aspx

Notes and References listed below the Search Boxes

Search Parameters

County	Contra Costa
Roadway Direction	East-West
Side of the Roadway	South
Distance from Roadway	270 feet
Annual Average Daily Traffic (ADT)	20,900

Results

Contra Costa County

EAST-WEST DIRECTIONAL ROADWAY

PM2.5 annual average

0.052 ($\mu g/m^3$)

Cancer Risk

2.07 (per million)

Data for Contra Costa County based on meteorological data collected from Chevron Refinery in 2005

Notes and References:

1. Emissions were developed using EMFAC2011 for fleet mix in 2014 assuming 10,000 AADT and includes impacts from diesel and gasoline vehicle exhaust, brake and tire wear, and resuspended dust.
2. Roadways were modeled using CALINE4 air dispersion model assuming a source length of one kilometer. Meteorological data used to estimate the screening values are noted at the bottom of the "Re
3. Cancer risks were estimated for 70 year lifetime exposure starting in 2014 that includes sensitivity values for early life exposures and OEHHA toxicity values adopted in 2013.

Adjustment factor to account for updated OEHHA Guidance: 1.3744

Adjusted Cancer Risk: 2.84

Control Pathway

Dispersion Options

Titles

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

Dispersion Options

☐ Regulatory Default ☑ Non-Default Options

☑ Flat & Elevated Terrain
☐ No Stack-Tip Downwash (NOSTD)
☐ Run in Screening Mode
☐ Conversion of NOx to NO2 (OLM or PVMRM)
☐ No Checks for Non-Sequential Met Data
☑ Fast All Sources (FASTALL)
☐ Fast Area Sources (FASTAREA)
☐ Optimized Area Source Plume Depletion
☐ Gas Deposition

BETA Options:

☐ Capped and Horizontal Stack Releases
☐ Adjusted Friction Velocity (u*) in AERMET (ADJ_U*)
☐ Low Wind Options

☐ SCIM (Sampled Chronological Input Model)
☐ Ignore Urban Night / Daytime Transition (NOURBTRAN)

Dispersion Coefficient

Urban
Population:
Name (Optional):
Roughness Length:

Output Type

☑ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM2.5

Averaging Time Options

Hours ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 24

☐ Month ☑ Period ☐ Annual

Exponential Decay

☐ Yes ☑ No

Terrain Height Options

☐ Flat ☑ Elevated
SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☑ Yes ☐ No

Default Height = 1.50 m

Control Pathway

Optional Files

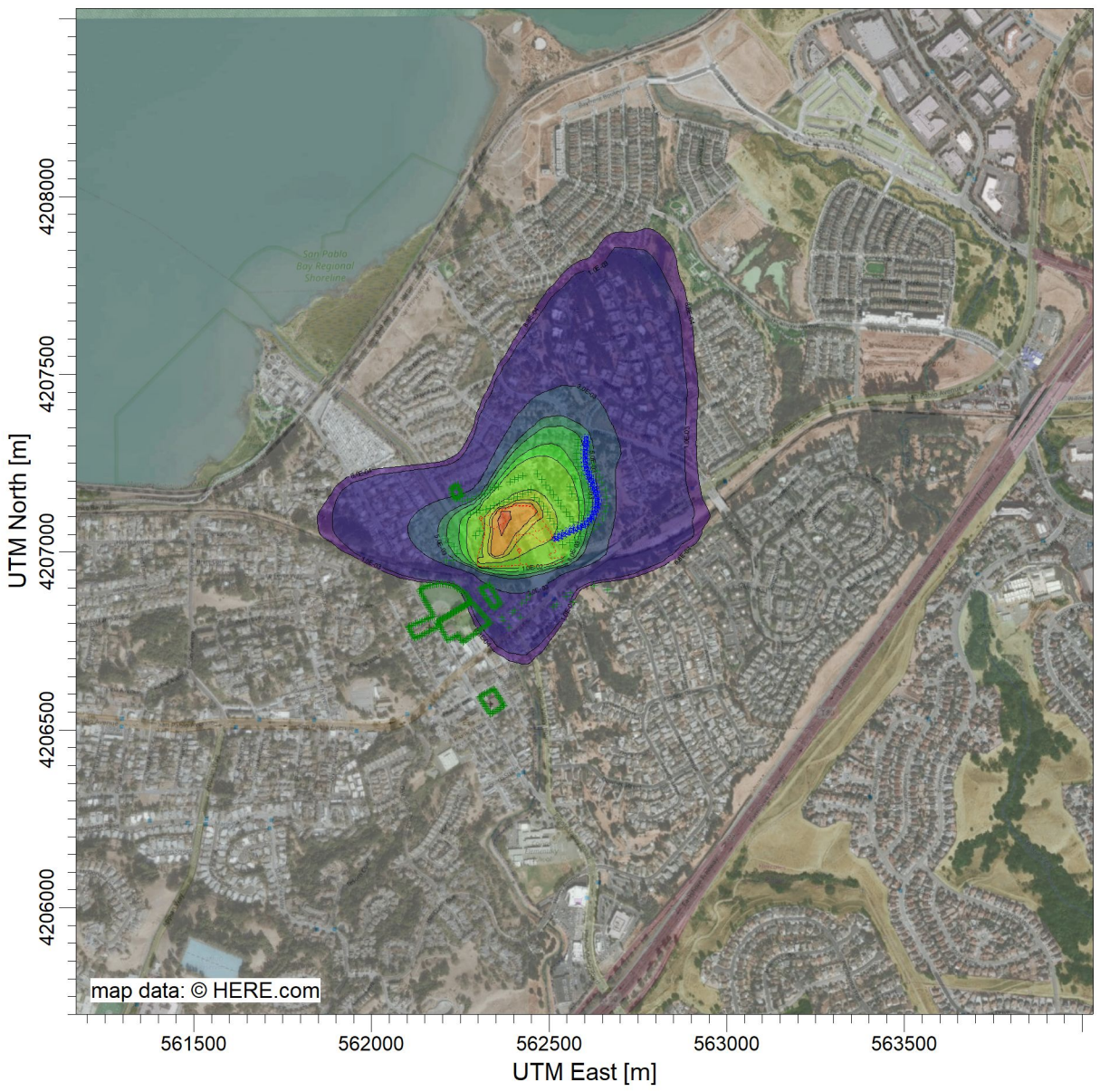
Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

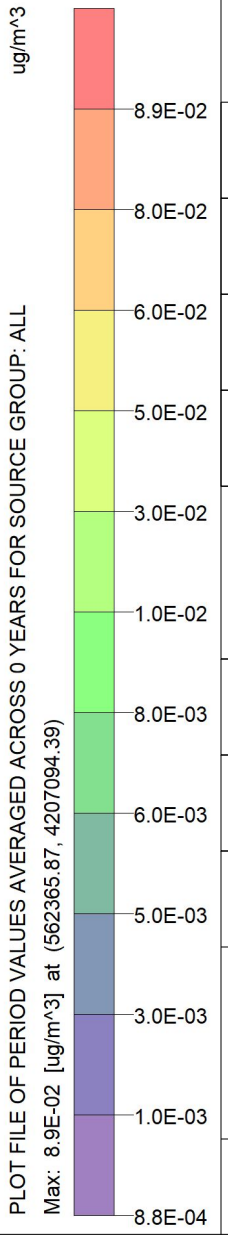
Detailed Error Listing File

Filename: 21180006 Skelly Residential_Phase 1.err

PROJECT TITLE:

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development





COMMENTS:

SOURCES:
3

RECEPTORS:
2291

OUTPUT TYPE:
Concentration

MAX:
8.9E-02 ug/m^3

COMPANY NAME:

MODELER:

DATE:
4/12/2022

SCALE: 1:19,268
0 0.5 km

PROJECT NO.:

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: C:\Users\lpark\OneDrive - ADEC Solutions USA, Inc\Desktop\01. Project Files\2118.0006 Skelly Rd Residenti
Format Type: Default AERMET format

Profile Met Data

Filename: C:\Users\lpark\OneDrive - ADEC Solutions USA, Inc\Desktop\01. Project Files\2118.0006 Skelly Rd Residenti
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 4.30 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2009			Napa County Airport
Upper Air		2009			OAKLAND/WSO AP

Data Period

Data Period to Process

Start Date: 1/1/2009 Start Hour: 1 End Date: 1/2/2014 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	562293.81	4207045.66	Res	2.33	1.50
2	562305.03	4207059.24	Res	2.40	1.50
3	562279.13	4207106.06	Res	2.44	1.50
4	562296.00	4207111.74	Res	2.39	1.50
5	562304.79	4207117.42	Res	2.80	1.50
6	562322.17	4207119.32	Res	3.52	1.50
7	562333.83	4207123.38	Res	3.89	1.50
8	562346.05	4207130.57	Res	4.17	1.50
9	562359.62	4207135.24	Res	4.36	1.50
10	562372.97	4207141.03	Res	4.53	1.50
11	562386.19	4207148.75	Res	4.70	1.50
12	562400.36	4207152.13	Res	4.82	1.50
13	562410.20	4207156.25	Res	4.91	1.50
14	562425.95	4207163.76	Res	5.16	1.50
15	562439.64	4207168.84	Res	5.52	1.50
16	562448.45	4207177.65	Res	6.40	1.50
17	562457.39	4207154.50	Res	5.95	1.50
18	562470.86	4207142.06	Res	6.55	1.50
19	562483.62	4207129.91	Res	7.26	1.50
20	562494.77	4207113.09	Res	8.05	1.50
21	562502.01	4207095.70	Res	9.33	1.50
22	562513.36	4207078.68	Res	10.75	1.50
23	562522.88	4207065.10	Res	12.32	1.50
24	562538.46	4207021.31	Res	15.95	1.50
25	562556.90	4207027.02	Res	17.04	1.50
26	562572.28	4207035.22	Res	17.67	1.50
27	562588.97	4207044.15	Res	20.29	1.50
28	562607.12	4207051.62	Res	24.74	1.50
29	562625.42	4207064.35	Res	26.31	1.50
30	562637.06	4207077.67	Res	26.83	1.50

AERMOD

31	562649.81	4207092.83	Res	27.36	1.50
32	562656.70	4207112.98	Res	27.08	1.50
33	562662.56	4207131.75	Res	27.73	1.50
34	562660.84	4207155.40	Res	28.13	1.50
35	562656.88	4207175.55	Res	28.69	1.50
36	562647.75	4207194.67	Res	28.39	1.50
37	562640.08	4207211.01	Res	27.82	1.50
38	562633.98	4207228.74	Res	27.25	1.50
39	562625.49	4207246.31	Res	26.26	1.50
40	562566.88	4207085.38	Res	14.28	1.50
41	562557.55	4207100.07	Res	12.93	1.50
42	562548.46	4207113.39	Res	12.76	1.50
43	562533.15	4207129.32	Res	12.53	1.50
44	562592.52	4207103.18	Res	19.23	1.50
45	562607.46	4207116.87	Res	20.81	1.50
46	562611.64	4207140.35	Res	21.80	1.50
47	562582.97	4207146.17	Res	18.36	1.50
48	562609.42	4207160.03	Res	22.13	1.50
49	562564.52	4207164.03	Res	16.81	1.50
50	562559.40	4207183.06	Res	16.77	1.50
51	562572.72	4207206.93	Res	18.65	1.50
52	562591.23	4207215.76	Res	21.15	1.50
53	562580.09	4207241.29	Res	21.94	1.50
54	562576.40	4207260.81	Res	21.15	1.50
55	562577.58	4207278.68	Res	19.68	1.50
56	562579.59	4207299.32	Res	15.88	1.50
57	562582.23	4207316.96	Res	14.03	1.50
58	562524.48	4207146.24	Res	12.34	1.50
59	562512.14	4207161.68	Res	11.32	1.50
60	562502.60	4207175.99	Res	10.94	1.50
61	562490.25	4207188.62	Res	11.09	1.50
62	562479.59	4207204.05	Res	11.34	1.50
63	562465.56	4207221.02	Res	10.64	1.50
64	562425.96	4207214.34	Res	5.86	1.50
65	562412.61	4207209.09	Res	5.16	1.50
66	562402.35	4207205.04	Res	4.97	1.50
67	562389.23	4207197.88	Res	4.73	1.50
68	562357.51	4207185.00	Res	4.28	1.50

69	562347.73	4207180.94	Res	4.13	1.50
70	562333.42	4207174.50	Res	3.85	1.50
71	562319.56	4207165.77	Res	3.47	1.50
72	562307.80	4207162.73	Res	3.03	1.50
73	562295.23	4207156.45	Res	2.48	1.50
74	562281.85	4207150.97	Res	2.35	1.50
75	562269.68	4207148.13	Res	2.43	1.50
76	562255.69	4207142.05	Res	2.58	1.50
77	562230.12	4206977.87	Res	4.33	1.50
78	562241.11	4206995.30	Res	4.08	1.50
79	562233.34	4207015.08	Res	4.02	1.50
80	562216.64	4207027.09	Res	4.14	1.50
81	562208.44	4207038.37	Res	4.13	1.50
82	562211.07	4206975.81	Res	4.60	1.50
83	562444.86	4206878.58	Res	10.34	1.50
84	562434.77	4206866.25	Res	9.91	1.50
85	562423.69	4206856.66	Res	9.42	1.50
86	562419.10	4206817.49	Res	8.63	1.50
87	562404.28	4206836.97	Res	8.51	1.50
88	562395.83	4206830.42	Res	8.11	1.50
89	562387.09	4206788.03	Res	6.39	1.50
90	562371.27	4206807.34	Res	5.70	1.50
91	562366.91	4206816.18	Res	5.86	1.50
92	562559.49	4206885.66	Res	16.49	1.50
93	562548.04	4206874.69	Res	14.22	1.50
94	562626.84	4206905.90	Res	29.57	1.50
95	562663.83	4206894.92	Res	32.30	1.50
96	562567.19	4206858.13	Res	16.23	1.50
97	562521.71	4206853.33	Res	12.07	1.50
98	562510.24	4206845.68	Res	11.70	1.50
99	562103.04	4206790.15	School	10.69	1.50
100	562122.03	4206757.18	School	6.68	1.50
101	562190.19	4206791.82	School	6.10	1.50
102	562183.24	4206803.74	School	6.14	1.50
103	562279.18	4206860.34	School	4.74	1.50
104	562263.31	4206884.83	School	4.63	1.50
105	562230.89	4206906.39	School	4.94	1.50
106	562192.97	4206912.57	School	5.30	1.50

107	562157.64	4206906.27	School	5.52	1.50
108	562134.18	4206893.22	School	6.06	1.50
109	562174.91	4206820.05	School	6.14	1.50
110	562105.41	4206786.03	School	9.69	1.50
111	562107.79	4206781.91	School	8.83	1.50
112	562110.16	4206777.79	School	8.11	1.50
113	562112.54	4206773.67	School	7.60	1.50
114	562114.91	4206769.54	School	7.28	1.50
115	562117.28	4206765.42	School	7.03	1.50
116	562119.66	4206761.30	School	6.82	1.50
117	562126.29	4206759.35	School	6.60	1.50
118	562130.55	4206761.51	School	6.57	1.50
119	562134.81	4206763.68	School	6.54	1.50
120	562139.07	4206765.84	School	6.51	1.50
121	562143.33	4206768.01	School	6.48	1.50
122	562147.59	4206770.17	School	6.44	1.50
123	562151.85	4206772.34	School	6.40	1.50
124	562156.11	4206774.50	School	6.36	1.50
125	562160.37	4206776.67	School	6.32	1.50
126	562164.63	4206778.83	School	6.28	1.50
127	562168.89	4206781.00	School	6.23	1.50
128	562173.15	4206783.16	School	6.19	1.50
129	562177.41	4206785.33	School	6.17	1.50
130	562181.67	4206787.49	School	6.15	1.50
131	562185.93	4206789.66	School	6.12	1.50
132	562187.87	4206795.79	School	6.11	1.50
133	562185.56	4206799.77	School	6.12	1.50
134	562187.41	4206806.20	School	6.11	1.50
135	562191.58	4206808.66	School	6.07	1.50
136	562195.75	4206811.12	School	6.02	1.50
137	562199.93	4206813.58	School	5.98	1.50
138	562204.10	4206816.04	School	5.95	1.50
139	562208.27	4206818.51	School	5.91	1.50
140	562212.44	4206820.97	School	5.88	1.50
141	562216.61	4206823.43	School	5.85	1.50
142	562220.78	4206825.89	School	5.83	1.50
143	562224.95	4206828.35	School	5.79	1.50
144	562229.12	4206830.81	School	5.76	1.50

145	562233.30	4206833.27	School	5.73	1.50
146	562237.47	4206835.73	School	5.70	1.50
147	562241.64	4206838.19	School	5.67	1.50
148	562245.81	4206840.65	School	5.62	1.50
149	562249.98	4206843.11	School	5.57	1.50
150	562254.15	4206845.58	School	5.51	1.50
151	562258.32	4206848.04	School	5.43	1.50
152	562262.49	4206850.50	School	5.35	1.50
153	562266.67	4206852.96	School	5.25	1.50
154	562270.84	4206855.42	School	5.13	1.50
155	562275.01	4206857.88	School	4.95	1.50
156	562276.54	4206864.42	School	4.72	1.50
157	562273.89	4206868.50	School	4.72	1.50
158	562271.25	4206872.59	School	4.73	1.50
159	562268.60	4206876.67	School	4.71	1.50
160	562265.96	4206880.75	School	4.67	1.50
161	562259.26	4206887.53	School	4.66	1.50
162	562255.21	4206890.22	School	4.71	1.50
163	562251.15	4206892.92	School	4.76	1.50
164	562247.10	4206895.61	School	4.81	1.50
165	562243.05	4206898.31	School	4.84	1.50
166	562239.00	4206901.00	School	4.86	1.50
167	562234.94	4206903.70	School	4.90	1.50
168	562226.15	4206907.16	School	5.02	1.50
169	562221.41	4206907.94	School	5.10	1.50
170	562216.67	4206908.71	School	5.14	1.50
171	562211.93	4206909.48	School	5.18	1.50
172	562207.19	4206910.25	School	5.21	1.50
173	562202.45	4206911.03	School	5.24	1.50
174	562197.71	4206911.80	School	5.27	1.50
175	562188.55	4206911.78	School	5.32	1.50
176	562184.14	4206911.00	School	5.34	1.50
177	562179.72	4206910.21	School	5.36	1.50
178	562175.31	4206909.42	School	5.38	1.50
179	562170.89	4206908.63	School	5.41	1.50
180	562166.47	4206907.85	School	5.44	1.50
181	562162.06	4206907.06	School	5.48	1.50
182	562153.73	4206904.10	School	5.57	1.50

183	562149.82	4206901.92	School	5.63	1.50
184	562145.91	4206899.75	School	5.70	1.50
185	562142.00	4206897.57	School	5.82	1.50
186	562138.09	4206895.40	School	5.94	1.50
187	562136.58	4206888.92	School	6.07	1.50
188	562138.97	4206884.61	School	6.08	1.50
189	562141.37	4206880.31	School	6.10	1.50
190	562143.76	4206876.00	School	6.12	1.50
191	562146.16	4206871.70	School	6.14	1.50
192	562148.56	4206867.40	School	6.16	1.50
193	562150.95	4206863.09	School	6.17	1.50
194	562153.35	4206858.79	School	6.18	1.50
195	562155.74	4206854.48	School	6.19	1.50
196	562158.14	4206850.18	School	6.20	1.50
197	562160.53	4206845.88	School	6.20	1.50
198	562162.93	4206841.57	School	6.21	1.50
199	562165.33	4206837.27	School	6.21	1.50
200	562167.72	4206832.96	School	6.19	1.50
201	562170.12	4206828.66	School	6.16	1.50
202	562172.51	4206824.35	School	6.14	1.50
203	562170.42	4206818.18	School	6.19	1.50
204	562165.93	4206816.31	School	6.27	1.50
205	562161.43	4206814.44	School	6.34	1.50
206	562156.94	4206812.58	School	6.41	1.50
207	562152.45	4206810.71	School	6.48	1.50
208	562147.96	4206808.84	School	6.55	1.50
209	562143.47	4206806.97	School	6.59	1.50
210	562138.98	4206805.10	School	6.62	1.50
211	562134.48	4206803.23	School	6.65	1.50
212	562129.99	4206801.36	School	6.68	1.50
213	562125.50	4206799.49	School	6.71	1.50
214	562121.01	4206797.63	School	7.34	1.50
215	562116.52	4206795.76	School	8.35	1.50
216	562112.02	4206793.89	School	9.25	1.50
217	562107.53	4206792.02	School	10.03	1.50
218	562242.15	4207189.12	Daycare	2.45	1.50
219	562255.39	4207158.50	Daycare	2.50	1.50
220	562235.26	4207149.71	Daycare	2.74	1.50

221	562227.31	4207163.59	Daycare	2.73	1.50
222	562225.09	4207175.24	Daycare	2.68	1.50
223	562229.54	4207184.67	Daycare	2.58	1.50
224	562244.04	4207184.75	Daycare	2.46	1.50
225	562245.93	4207180.37	Daycare	2.46	1.50
226	562247.82	4207176.00	Daycare	2.47	1.50
227	562249.72	4207171.62	Daycare	2.48	1.50
228	562251.61	4207167.25	Daycare	2.49	1.50
229	562253.50	4207162.87	Daycare	2.50	1.50
230	562251.36	4207156.74	Daycare	2.55	1.50
231	562247.34	4207154.98	Daycare	2.59	1.50
232	562243.31	4207153.23	Daycare	2.64	1.50
233	562239.29	4207151.47	Daycare	2.69	1.50
234	562233.27	4207153.18	Daycare	2.74	1.50
235	562231.29	4207156.65	Daycare	2.74	1.50
236	562229.30	4207160.12	Daycare	2.73	1.50
237	562226.57	4207167.47	Daycare	2.71	1.50
238	562225.83	4207171.36	Daycare	2.70	1.50
239	562226.57	4207178.38	Daycare	2.64	1.50
240	562228.06	4207181.53	Daycare	2.61	1.50
241	562233.74	4207186.15	Daycare	2.54	1.50
242	562237.95	4207187.64	Daycare	2.49	1.50
243	562185.94	4206803.18	School	6.12	1.50
244	562213.54	4206752.30	School	6.24	1.50
245	562243.21	4206767.30	School	6.11	1.50
246	562256.49	4206746.43	School	6.42	1.50
247	562333.43	4206801.29	School	4.81	1.50
248	562280.82	4206860.28	School	4.69	1.50
249	562188.24	4206798.94	School	6.11	1.50
250	562190.54	4206794.70	School	6.10	1.50
251	562192.84	4206790.46	School	6.09	1.50
252	562195.14	4206786.22	School	6.08	1.50
253	562197.44	4206781.98	School	6.07	1.50
254	562199.74	4206777.74	School	6.08	1.50
255	562202.04	4206773.50	School	6.10	1.50
256	562204.34	4206769.26	School	6.13	1.50
257	562206.64	4206765.02	School	6.16	1.50
258	562208.94	4206760.78	School	6.19	1.50

259	562211.24	4206756.54	School	6.21	1.50
260	562217.78	4206754.44	School	6.23	1.50
261	562222.02	4206756.59	School	6.22	1.50
262	562226.26	4206758.73	School	6.20	1.50
263	562230.49	4206760.87	School	6.19	1.50
264	562234.73	4206763.01	School	6.16	1.50
265	562238.97	4206765.16	School	6.14	1.50
266	562245.87	4206763.13	School	6.16	1.50
267	562248.52	4206758.95	School	6.22	1.50
268	562251.18	4206754.78	School	6.28	1.50
269	562253.83	4206750.60	School	6.35	1.50
270	562260.54	4206749.32	School	6.39	1.50
271	562264.59	4206752.21	School	6.36	1.50
272	562268.64	4206755.09	School	6.33	1.50
273	562272.69	4206757.98	School	6.30	1.50
274	562276.74	4206760.87	School	6.27	1.50
275	562280.79	4206763.75	School	6.24	1.50
276	562284.84	4206766.64	School	6.20	1.50
277	562288.89	4206769.53	School	6.17	1.50
278	562292.94	4206772.42	School	6.14	1.50
279	562296.98	4206775.30	School	6.10	1.50
280	562301.03	4206778.19	School	6.04	1.50
281	562305.08	4206781.08	School	5.98	1.50
282	562309.13	4206783.97	School	5.92	1.50
283	562313.18	4206786.85	School	5.85	1.50
284	562317.23	4206789.74	School	5.78	1.50
285	562321.28	4206792.63	School	5.62	1.50
286	562325.33	4206795.52	School	5.39	1.50
287	562329.38	4206798.40	School	5.12	1.50
288	562330.14	4206804.98	School	4.82	1.50
289	562326.85	4206808.66	School	4.87	1.50
290	562323.57	4206812.35	School	4.93	1.50
291	562320.28	4206816.04	School	4.92	1.50
292	562316.99	4206819.72	School	4.83	1.50
293	562313.70	4206823.41	School	4.76	1.50
294	562310.41	4206827.10	School	4.73	1.50
295	562307.13	4206830.79	School	4.74	1.50
296	562303.84	4206834.47	School	4.79	1.50

297	562300.55	4206838.16	School	4.87	1.50
298	562297.26	4206841.85	School	4.93	1.50
299	562293.97	4206845.53	School	4.92	1.50
300	562290.68	4206849.22	School	4.83	1.50
301	562287.40	4206852.91	School	4.76	1.50
302	562284.11	4206856.59	School	4.71	1.50
303	562276.69	4206857.80	School	4.90	1.50
304	562272.57	4206855.32	School	5.08	1.50
305	562268.44	4206852.83	School	5.23	1.50
306	562264.32	4206850.35	School	5.33	1.50
307	562260.19	4206847.87	School	5.41	1.50
308	562256.07	4206845.38	School	5.49	1.50
309	562251.94	4206842.90	School	5.56	1.50
310	562247.82	4206840.42	School	5.61	1.50
311	562243.69	4206837.94	School	5.66	1.50
312	562239.57	4206835.45	School	5.69	1.50
313	562235.44	4206832.97	School	5.72	1.50
314	562231.32	4206830.49	School	5.75	1.50
315	562227.19	4206828.01	School	5.78	1.50
316	562223.07	4206825.52	School	5.82	1.50
317	562218.94	4206823.04	School	5.85	1.50
318	562214.82	4206820.56	School	5.87	1.50
319	562210.69	4206818.08	School	5.91	1.50
320	562206.57	4206815.59	School	5.94	1.50
321	562202.44	4206813.11	School	5.97	1.50
322	562198.32	4206810.63	School	6.01	1.50
323	562194.19	4206808.15	School	6.05	1.50
324	562190.07	4206805.66	School	6.09	1.50
325	562305.93	4206897.31		5.25	1.50
326	562330.42	4206909.56		7.31	1.50
327	562362.85	4206855.73		7.44	1.50
328	562343.02	4206842.45		5.25	1.50
329	562310.01	4206899.35		5.80	1.50
330	562314.09	4206901.39		6.34	1.50
331	562318.18	4206903.44		6.82	1.50
332	562322.26	4206905.48		7.00	1.50
333	562326.34	4206907.52		7.16	1.50
334	562332.91	4206905.42		7.36	1.50

AERMOD

335	562335.41	4206901.28	7.44	1.50
336	562337.90	4206897.14	7.45	1.50
337	562340.40	4206893.00	7.49	1.50
338	562342.89	4206888.86	7.55	1.50
339	562345.39	4206884.72	7.57	1.50
340	562347.88	4206880.58	7.58	1.50
341	562350.38	4206876.43	7.59	1.50
342	562352.87	4206872.29	7.60	1.50
343	562355.37	4206868.15	7.56	1.50
344	562357.86	4206864.01	7.47	1.50
345	562360.36	4206859.87	7.43	1.50
346	562358.88	4206853.07	7.09	1.50
347	562354.92	4206850.42	6.71	1.50
348	562350.95	4206847.76	6.27	1.50
349	562346.99	4206845.11	5.79	1.50
350	562340.37	4206846.37	5.38	1.50
351	562337.72	4206850.29	5.48	1.50
352	562335.07	4206854.21	5.53	1.50
353	562332.42	4206858.12	5.53	1.50
354	562329.77	4206862.04	5.50	1.50
355	562327.12	4206865.96	5.41	1.50
356	562324.48	4206869.88	5.29	1.50
357	562321.83	4206873.80	5.25	1.50
358	562319.18	4206877.72	5.26	1.50
359	562316.53	4206881.64	5.34	1.50
360	562313.88	4206885.55	5.40	1.50
361	562311.23	4206889.47	5.41	1.50
362	562308.58	4206893.39	5.36	1.50
363	562303.47	4206592.57	9.32	1.50
364	562344.28	4206615.31	8.59	1.50
365	562373.32	4206568.00	8.40	1.50
366	562334.13	4206544.65	9.25	1.50
367	562307.55	4206594.84	9.25	1.50
368	562311.63	4206597.12	9.18	1.50
369	562315.71	4206599.39	9.11	1.50
370	562319.79	4206601.67	9.04	1.50
371	562323.88	4206603.94	8.96	1.50
372	562327.96	4206606.21	8.88	1.50

AERMOD

373	562332.04	4206608.49	8.80	1.50
374	562336.12	4206610.76	8.73	1.50
375	562340.20	4206613.04	8.66	1.50
376	562346.70	4206611.37	8.59	1.50
377	562349.12	4206607.43	8.59	1.50
378	562351.54	4206603.48	8.58	1.50
379	562353.96	4206599.54	8.58	1.50
380	562356.38	4206595.60	8.57	1.50
381	562358.80	4206591.66	8.56	1.50
382	562361.22	4206587.71	8.54	1.50
383	562363.64	4206583.77	8.52	1.50
384	562366.06	4206579.83	8.49	1.50
385	562368.48	4206575.89	8.46	1.50
386	562370.90	4206571.94	8.43	1.50
387	562369.40	4206565.67	8.49	1.50
388	562365.48	4206563.33	8.58	1.50
389	562361.56	4206561.00	8.67	1.50
390	562357.64	4206558.66	8.76	1.50
391	562353.73	4206556.33	8.84	1.50
392	562349.81	4206553.99	8.93	1.50
393	562345.89	4206551.66	9.01	1.50
394	562341.97	4206549.32	9.09	1.50
395	562338.05	4206546.99	9.17	1.50
396	562331.58	4206548.64	9.28	1.50
397	562329.02	4206552.64	9.31	1.50
398	562326.47	4206556.63	9.34	1.50
399	562323.91	4206560.62	9.36	1.50
400	562321.36	4206564.62	9.38	1.50
401	562318.80	4206568.61	9.38	1.50
402	562316.25	4206572.60	9.38	1.50
403	562313.69	4206576.60	9.37	1.50
404	562311.14	4206580.59	9.36	1.50
405	562308.58	4206584.58	9.35	1.50
406	562306.03	4206588.58	9.34	1.50

Plant Boundary Receptors

Receptor Pathway

Receptor Groups

Record Number	Group ID	Group Description
1	FENCEPRI	Cartesian plant boundary Primary Receptors
2	FENCEINT	Cartesian plant boundary Intermediate Receptors
3	Res	
4	School	
5	Daycare	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.01444	ug/m^3	R-1	562293.81	4207045.66	2.33	1.50	2.33	
PERIOD		0.01762	ug/m^3	R-2	562305.03	4207059.24	2.40	1.50	2.40	
PERIOD		0.00946	ug/m^3	R-3	562279.13	4207106.06	2.44	1.50	2.44	
PERIOD		0.01054	ug/m^3	R-4	562296.00	4207111.74	2.39	1.50	2.39	
PERIOD		0.01107	ug/m^3	R-5	562304.79	4207117.42	2.80	1.50	2.80	
PERIOD		0.01947	ug/m^3	R-6	562322.17	4207119.32	3.52	1.50	3.52	
PERIOD		0.02536	ug/m^3	R-7	562333.83	4207123.38	3.89	1.50	3.89	
PERIOD		0.02793	ug/m^3	R-8	562346.05	4207130.57	4.17	1.50	4.17	
PERIOD		0.03219	ug/m^3	R-9	562359.62	4207135.24	4.36	1.50	4.36	
PERIOD		0.03439	ug/m^3	R-10	562372.97	4207141.03	4.53	1.50	4.53	
PERIOD		0.03376	ug/m^3	R-11	562386.19	4207148.75	4.70	1.50	4.70	
PERIOD		0.03757	ug/m^3	R-12	562400.36	4207152.13	4.82	1.50	4.82	
PERIOD		0.03732	ug/m^3	R-13	562410.20	4207156.25	4.91	1.50	30.41	
PERIOD		0.03502	ug/m^3	R-14	562425.95	4207163.76	5.16	1.50	32.38	
PERIOD		0.03327	ug/m^3	R-15	562439.64	4207168.84	5.52	1.50	32.49	
PERIOD		0.02876	ug/m^3	R-16	562448.45	4207177.65	6.40	1.50	32.49	
PERIOD		0.04165	ug/m^3	R-17	562457.39	4207154.50	5.95	1.50	32.49	
PERIOD		0.04431	ug/m^3	R-18	562470.86	4207142.06	6.55	1.50	32.49	
PERIOD		0.04235	ug/m^3	R-19	562483.62	4207129.91	7.26	1.50	32.49	
PERIOD		0.04172	ug/m^3	R-20	562494.77	4207113.09	8.05	1.50	32.49	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.04033	ug/m^3	R-21	562502.01	4207095.70	9.33	1.50	32.49	
PERIOD		0.03526	ug/m^3	R-22	562513.36	4207078.68	10.75	1.50	32.38	
PERIOD		0.02911	ug/m^3	R-23	562522.88	4207065.10	12.32	1.50	31.59	
PERIOD		0.01498	ug/m^3	R-24	562538.46	4207021.31	15.95	1.50	31.53	
PERIOD		0.01109	ug/m^3	R-25	562556.90	4207027.02	17.04	1.50	27.75	
PERIOD		0.00914	ug/m^3	R-26	562572.28	4207035.22	17.67	1.50	30.32	
PERIOD		0.00725	ug/m^3	R-27	562588.97	4207044.15	20.29	1.50	27.75	
PERIOD		0.00556	ug/m^3	R-28	562607.12	4207051.62	24.74	1.50	25.65	
PERIOD		0.00476	ug/m^3	R-29	562625.42	4207064.35	26.31	1.50	26.31	
PERIOD		0.00442	ug/m^3	R-30	562637.06	4207077.67	26.83	1.50	26.83	
PERIOD		0.00406	ug/m^3	R-31	562649.81	4207092.83	27.36	1.50	27.36	
PERIOD		0.00396	ug/m^3	R-32	562656.70	4207112.98	27.08	1.50	27.08	
PERIOD		0.00379	ug/m^3	R-33	562662.56	4207131.75	27.73	1.50	30.36	
PERIOD		0.00386	ug/m^3	R-34	562660.84	4207155.39	28.13	1.50	31.48	
PERIOD		0.00396	ug/m^3	R-35	562656.88	4207175.55	28.69	1.50	31.48	
PERIOD		0.00428	ug/m^3	R-36	562647.75	4207194.67	28.39	1.50	32.38	
PERIOD		0.00456	ug/m^3	R-37	562640.08	4207211.01	27.82	1.50	32.38	
PERIOD		0.00476	ug/m^3	R-38	562633.98	4207228.74	27.25	1.50	32.38	
PERIOD		0.00504	ug/m^3	R-39	562625.49	4207246.31	26.26	1.50	32.37	
PERIOD		0.01347	ug/m^3	R-40	562566.88	4207085.38	14.28	1.50	32.49	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.01616	ug/m^3	R-41	562557.55	4207100.07	12.93	1.50	32.49	
PERIOD		0.01813	ug/m^3	R-42	562548.46	4207113.39	12.76	1.50	32.49	
PERIOD		0.02101	ug/m^3	R-43	562533.15	4207129.32	12.53	1.50	32.49	
PERIOD		0.00863	ug/m^3	R-44	562592.52	4207103.18	19.23	1.50	31.64	
PERIOD		0.00711	ug/m^3	R-45	562607.46	4207116.87	20.81	1.50	31.64	
PERIOD		0.00669	ug/m^3	R-46	562611.64	4207140.35	21.80	1.50	32.49	
PERIOD		0.00968	ug/m^3	R-47	562582.97	4207146.17	18.36	1.50	32.49	
PERIOD		0.00673	ug/m^3	R-48	562609.42	4207160.03	22.13	1.50	32.49	
PERIOD		0.01174	ug/m^3	R-49	562564.52	4207164.03	16.81	1.50	32.49	
PERIOD		0.01162	ug/m^3	R-50	562559.40	4207183.06	16.77	1.50	32.49	
PERIOD		0.00925	ug/m^3	R-51	562572.72	4207206.93	18.65	1.50	32.49	
PERIOD		0.00744	ug/m^3	R-52	562591.23	4207215.76	21.15	1.50	32.38	
PERIOD		0.00746	ug/m^3	R-53	562580.09	4207241.29	21.94	1.50	32.37	
PERIOD		0.00724	ug/m^3	R-54	562576.40	4207260.81	21.15	1.50	32.37	
PERIOD		0.00688	ug/m^3	R-55	562577.58	4207278.68	19.68	1.50	32.38	
PERIOD		0.00660	ug/m^3	R-56	562579.59	4207299.32	15.88	1.50	32.39	
PERIOD		0.00622	ug/m^3	R-57	562582.23	4207316.96	14.03	1.50	32.49	
PERIOD		0.02122	ug/m^3	R-58	562524.48	4207146.24	12.34	1.50	32.49	
PERIOD		0.02207	ug/m^3	R-59	562512.14	4207161.68	11.32	1.50	32.49	
PERIOD		0.02158	ug/m^3	R-60	562502.60	4207175.99	10.94	1.50	32.49	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.02080	ug/m^3	R-61	562490.25	4207188.62	11.09	1.50	32.38	
PERIOD		0.01856	ug/m^3	R-62	562479.59	4207204.05	11.34	1.50	32.38	
PERIOD		0.01598	ug/m^3	R-63	562465.56	4207221.02	10.64	1.50	32.38	
PERIOD		0.01604	ug/m^3	R-64	562425.96	4207214.34	5.87	1.50	32.38	
PERIOD		0.01550	ug/m^3	R-65	562412.61	4207209.09	5.16	1.50	32.38	
PERIOD		0.01475	ug/m^3	R-66	562402.35	4207205.04	4.97	1.50	14.10	
PERIOD		0.01392	ug/m^3	R-67	562389.23	4207197.88	4.73	1.50	4.73	
PERIOD		0.01044	ug/m^3	R-68	562357.51	4207185.00	4.28	1.50	4.28	
PERIOD		0.00923	ug/m^3	R-69	562347.73	4207180.94	4.13	1.50	4.13	
PERIOD		0.00750	ug/m^3	R-70	562333.42	4207174.50	3.85	1.50	3.85	
PERIOD		0.00628	ug/m^3	R-71	562319.56	4207165.77	3.47	1.50	3.47	
PERIOD		0.00514	ug/m^3	R-72	562307.80	4207162.73	3.03	1.50	3.03	
PERIOD		0.00465	ug/m^3	R-73	562295.23	4207156.45	2.48	1.50	2.48	
PERIOD		0.00437	ug/m^3	R-74	562281.85	4207150.97	2.35	1.50	2.35	
PERIOD		0.00417	ug/m^3	R-75	562269.68	4207148.13	2.43	1.50	2.43	
PERIOD		0.00425	ug/m^3	R-76	562255.69	4207142.05	2.58	1.50	2.58	
PERIOD		0.00473	ug/m^3	R-77	562230.12	4206977.87	4.33	1.50	40.66	
PERIOD		0.00661	ug/m^3	R-78	562241.11	4206995.30	4.08	1.50	40.66	
PERIOD		0.00680	ug/m^3	R-79	562233.34	4207015.08	4.02	1.50	40.66	
PERIOD		0.00607	ug/m^3	R-80	562216.64	4207027.09	4.14	1.50	40.66	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00580	ug/m^3	R-81	562208.44	4207038.37	4.13	1.50	40.66	
PERIOD		0.00381	ug/m^3	R-82	562211.07	4206975.81	4.60	1.50	40.66	
PERIOD		0.00273	ug/m^3	R-83	562444.86	4206878.58	10.34	1.50	43.84	
PERIOD		0.00251	ug/m^3	R-84	562434.77	4206866.25	9.91	1.50	43.84	
PERIOD		0.00237	ug/m^3	R-85	562423.69	4206856.66	9.42	1.50	43.84	
PERIOD		0.00181	ug/m^3	R-86	562419.10	4206817.49	8.63	1.50	44.03	
PERIOD		0.00207	ug/m^3	R-87	562404.28	4206836.97	8.51	1.50	43.84	
PERIOD		0.00197	ug/m^3	R-88	562395.83	4206830.42	8.11	1.50	43.84	
PERIOD		0.00150	ug/m^3	R-89	562387.09	4206788.03	6.39	1.50	43.84	
PERIOD		0.00166	ug/m^3	R-90	562371.27	4206807.34	5.70	1.50	43.84	
PERIOD		0.00173	ug/m^3	R-91	562366.91	4206816.18	5.86	1.50	34.43	
PERIOD		0.00115	ug/m^3	R-92	562559.49	4206885.66	16.49	1.50	44.57	
PERIOD		0.00125	ug/m^3	R-93	562548.04	4206874.68	14.22	1.50	44.57	
PERIOD		0.00081	ug/m^3	R-94	562626.84	4206905.90	29.57	1.50	31.53	
PERIOD		0.00063	ug/m^3	R-95	562663.83	4206894.92	32.30	1.50	32.30	
PERIOD		0.00088	ug/m^3	R-96	562567.19	4206858.13	16.23	1.50	44.57	
PERIOD		0.00146	ug/m^3	R-97	562521.71	4206853.33	12.07	1.50	44.57	
PERIOD		0.00153	ug/m^3	R-98	562510.24	4206845.68	11.70	1.50	44.57	
PERIOD		0.00017	ug/m^3	LCBMS-1	562103.04	4206790.15	10.69	1.50	50.63	
PERIOD		0.00017	ug/m^3	LCBMS-2	562122.03	4206757.18	6.68	1.50	50.63	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00030	ug/m^3	LCBMS-3	562190.19	4206791.82	6.10	1.50	50.63	
PERIOD		0.00030	ug/m^3	LCBMS-4	562183.24	4206803.74	6.14	1.50	50.63	
PERIOD		0.00109	ug/m^3	LCBMS-5	562279.18	4206860.34	4.74	1.50	40.66	
PERIOD		0.00102	ug/m^3	LCBMS-6	562263.31	4206884.83	4.63	1.50	40.66	
PERIOD		0.00092	ug/m^3	LCBMS-7	562230.89	4206906.39	4.94	1.50	40.66	
PERIOD		0.00091	ug/m^3	LCBMS-8	562192.97	4206912.57	5.30	1.50	40.66	
PERIOD		0.00076	ug/m^3	LCBMS-9	562157.64	4206906.27	5.52	1.50	50.63	
PERIOD		0.00059	ug/m^3	LCBMS-10	562134.18	4206893.22	6.06	1.50	50.63	
PERIOD		0.00030	ug/m^3	LCBMS-11	562174.91	4206820.05	6.14	1.50	50.63	
PERIOD		0.00017	ug/m^3	LCBMS-12	562105.41	4206786.03	9.69	1.50	50.63	
PERIOD		0.00017	ug/m^3	LCBMS-13	562107.79	4206781.91	8.83	1.50	50.63	
PERIOD		0.00017	ug/m^3	LCBMS-14	562110.16	4206777.79	8.11	1.50	50.63	
PERIOD		0.00017	ug/m^3	LCBMS-15	562112.54	4206773.67	7.60	1.50	50.63	
PERIOD		0.00017	ug/m^3	LCBMS-16	562114.91	4206769.54	7.28	1.50	50.63	
PERIOD		0.00017	ug/m^3	LCBMS-17	562117.28	4206765.42	7.03	1.50	50.63	
PERIOD		0.00017	ug/m^3	LCBMS-18	562119.66	4206761.30	6.82	1.50	50.63	
PERIOD		0.00018	ug/m^3	LCBMS-19	562126.29	4206759.35	6.60	1.50	50.63	
PERIOD		0.00018	ug/m^3	LCBMS-20	562130.55	4206761.51	6.57	1.50	50.63	
PERIOD		0.00019	ug/m^3	LCBMS-21	562134.81	4206763.68	6.54	1.50	50.63	
PERIOD		0.00019	ug/m^3	LCBMS-22	562139.07	4206765.84	6.51	1.50	50.63	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00020	ug/m^3	LCBMS-23	562143.33	4206768.01	6.48	1.50	50.63	
PERIOD		0.00020	ug/m^3	LCBMS-24	562147.59	4206770.17	6.44	1.50	50.63	
PERIOD		0.00021	ug/m^3	LCBMS-25	562151.85	4206772.34	6.40	1.50	50.63	
PERIOD		0.00022	ug/m^3	LCBMS-26	562156.11	4206774.50	6.36	1.50	50.63	
PERIOD		0.00023	ug/m^3	LCBMS-27	562160.37	4206776.67	6.32	1.50	50.63	
PERIOD		0.00023	ug/m^3	LCBMS-28	562164.63	4206778.83	6.28	1.50	50.63	
PERIOD		0.00024	ug/m^3	LCBMS-29	562168.89	4206781.00	6.23	1.50	50.63	
PERIOD		0.00025	ug/m^3	LCBMS-30	562173.15	4206783.16	6.19	1.50	50.63	
PERIOD		0.00027	ug/m^3	LCBMS-31	562177.41	4206785.33	6.17	1.50	50.63	
PERIOD		0.00028	ug/m^3	LCBMS-32	562181.67	4206787.49	6.15	1.50	50.63	
PERIOD		0.00029	ug/m^3	LCBMS-33	562185.93	4206789.66	6.12	1.50	50.63	
PERIOD		0.00030	ug/m^3	LCBMS-34	562187.87	4206795.79	6.11	1.50	50.63	
PERIOD		0.00030	ug/m^3	LCBMS-35	562185.56	4206799.77	6.12	1.50	50.63	
PERIOD		0.00031	ug/m^3	LCBMS-36	562187.41	4206806.20	6.11	1.50	50.63	
PERIOD		0.00032	ug/m^3	LCBMS-37	562191.58	4206808.66	6.07	1.50	50.63	
PERIOD		0.00034	ug/m^3	LCBMS-38	562195.75	4206811.12	6.02	1.50	40.66	
PERIOD		0.00035	ug/m^3	LCBMS-39	562199.93	4206813.58	5.98	1.50	40.66	
PERIOD		0.00037	ug/m^3	LCBMS-40	562204.10	4206816.04	5.95	1.50	40.66	
PERIOD		0.00039	ug/m^3	LCBMS-41	562208.27	4206818.51	5.91	1.50	40.66	
PERIOD		0.00040	ug/m^3	LCBMS-42	562212.44	4206820.97	5.88	1.50	40.66	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00043	ug/m^3	LCBMS-43	562216.61	4206823.43	5.85	1.50	40.66	
PERIOD		0.00045	ug/m^3	LCBMS-44	562220.78	4206825.89	5.83	1.50	40.66	
PERIOD		0.00047	ug/m^3	LCBMS-45	562224.95	4206828.35	5.79	1.50	40.66	
PERIOD		0.00050	ug/m^3	LCBMS-46	562229.12	4206830.81	5.76	1.50	40.66	
PERIOD		0.00053	ug/m^3	LCBMS-47	562233.30	4206833.27	5.73	1.50	40.66	
PERIOD		0.00056	ug/m^3	LCBMS-48	562237.47	4206835.73	5.70	1.50	40.66	
PERIOD		0.00059	ug/m^3	LCBMS-49	562241.64	4206838.19	5.67	1.50	40.66	
PERIOD		0.00063	ug/m^3	LCBMS-50	562245.81	4206840.65	5.62	1.50	40.66	
PERIOD		0.00067	ug/m^3	LCBMS-51	562249.98	4206843.11	5.57	1.50	40.66	
PERIOD		0.00071	ug/m^3	LCBMS-52	562254.15	4206845.58	5.51	1.50	40.66	
PERIOD		0.00076	ug/m^3	LCBMS-53	562258.32	4206848.04	5.43	1.50	40.66	
PERIOD		0.00081	ug/m^3	LCBMS-54	562262.49	4206850.50	5.35	1.50	40.66	
PERIOD		0.00087	ug/m^3	LCBMS-55	562266.67	4206852.96	5.25	1.50	40.66	
PERIOD		0.00094	ug/m^3	LCBMS-56	562270.84	4206855.42	5.13	1.50	40.66	
PERIOD		0.00101	ug/m^3	LCBMS-57	562275.01	4206857.88	4.95	1.50	40.66	
PERIOD		0.00108	ug/m^3	LCBMS-58	562276.54	4206864.42	4.72	1.50	40.66	
PERIOD		0.00106	ug/m^3	LCBMS-59	562273.89	4206868.50	4.72	1.50	40.66	
PERIOD		0.00105	ug/m^3	LCBMS-60	562271.25	4206872.59	4.73	1.50	40.66	
PERIOD		0.00104	ug/m^3	LCBMS-61	562268.60	4206876.67	4.71	1.50	40.66	
PERIOD		0.00102	ug/m^3	LCBMS-62	562265.95	4206880.75	4.67	1.50	40.66	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00098	ug/m^3	LCBMS-63	562259.26	4206887.53	4.66	1.50	40.66	
PERIOD		0.00095	ug/m^3	LCBMS-64	562255.20	4206890.22	4.71	1.50	40.66	
PERIOD		0.00093	ug/m^3	LCBMS-65	562251.15	4206892.92	4.76	1.50	40.66	
PERIOD		0.00091	ug/m^3	LCBMS-66	562247.10	4206895.61	4.81	1.50	40.66	
PERIOD		0.00090	ug/m^3	LCBMS-67	562243.05	4206898.31	4.84	1.50	40.66	
PERIOD		0.00090	ug/m^3	LCBMS-68	562239.00	4206901.00	4.86	1.50	40.66	
PERIOD		0.00091	ug/m^3	LCBMS-69	562234.94	4206903.70	4.90	1.50	40.66	
PERIOD		0.00091	ug/m^3	LCBMS-70	562226.15	4206907.16	5.02	1.50	40.66	
PERIOD		0.00090	ug/m^3	LCBMS-71	562221.41	4206907.93	5.10	1.50	40.66	
PERIOD		0.00090	ug/m^3	LCBMS-72	562216.67	4206908.71	5.14	1.50	40.66	
PERIOD		0.00090	ug/m^3	LCBMS-73	562211.93	4206909.48	5.18	1.50	40.66	
PERIOD		0.00090	ug/m^3	LCBMS-74	562207.19	4206910.25	5.21	1.50	40.66	
PERIOD		0.00090	ug/m^3	LCBMS-75	562202.45	4206911.03	5.24	1.50	40.66	
PERIOD		0.00090	ug/m^3	LCBMS-76	562197.71	4206911.80	5.27	1.50	40.66	
PERIOD		0.00089	ug/m^3	LCBMS-77	562188.55	4206911.78	5.32	1.50	40.66	
PERIOD		0.00086	ug/m^3	LCBMS-78	562184.14	4206911.00	5.34	1.50	40.66	
PERIOD		0.00085	ug/m^3	LCBMS-79	562179.72	4206910.21	5.36	1.50	40.66	
PERIOD		0.00083	ug/m^3	LCBMS-80	562175.31	4206909.42	5.38	1.50	40.66	
PERIOD		0.00081	ug/m^3	LCBMS-81	562170.89	4206908.63	5.41	1.50	40.66	
PERIOD		0.00079	ug/m^3	LCBMS-82	562166.47	4206907.85	5.44	1.50	40.66	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00077	ug/m^3	LCBMS-83	562162.06	4206907.06	5.48	1.50	50.63	
PERIOD		0.00072	ug/m^3	LCBMS-84	562153.73	4206904.10	5.57	1.50	50.63	
PERIOD		0.00069	ug/m^3	LCBMS-85	562149.82	4206901.92	5.63	1.50	50.63	
PERIOD		0.00066	ug/m^3	LCBMS-86	562145.91	4206899.75	5.70	1.50	50.63	
PERIOD		0.00064	ug/m^3	LCBMS-87	562142.00	4206897.57	5.82	1.50	50.63	
PERIOD		0.00061	ug/m^3	LCBMS-88	562138.09	4206895.39	5.94	1.50	50.63	
PERIOD		0.00055	ug/m^3	LCBMS-89	562136.58	4206888.92	6.07	1.50	50.63	
PERIOD		0.00052	ug/m^3	LCBMS-90	562138.97	4206884.61	6.08	1.50	50.63	
PERIOD		0.00049	ug/m^3	LCBMS-91	562141.37	4206880.31	6.10	1.50	50.63	
PERIOD		0.00046	ug/m^3	LCBMS-92	562143.76	4206876.00	6.12	1.50	50.63	
PERIOD		0.00044	ug/m^3	LCBMS-93	562146.16	4206871.70	6.14	1.50	50.63	
PERIOD		0.00041	ug/m^3	LCBMS-94	562148.56	4206867.39	6.16	1.50	50.63	
PERIOD		0.00039	ug/m^3	LCBMS-95	562150.95	4206863.09	6.17	1.50	50.63	
PERIOD		0.00038	ug/m^3	LCBMS-96	562153.35	4206858.79	6.18	1.50	50.63	
PERIOD		0.00035	ug/m^3	LCBMS-97	562155.74	4206854.48	6.19	1.50	50.63	
PERIOD		0.00034	ug/m^3	LCBMS-98	562158.14	4206850.18	6.20	1.50	50.63	
PERIOD		0.00033	ug/m^3	LCBMS-99	562160.53	4206845.88	6.20	1.50	50.63	
PERIOD		0.00032	ug/m^3	LCBMS-100	562162.93	4206841.57	6.21	1.50	50.63	
PERIOD		0.00031	ug/m^3	LCBMS-101	562165.33	4206837.27	6.21	1.50	50.63	
PERIOD		0.00030	ug/m^3	LCBMS-102	562167.72	4206832.96	6.19	1.50	50.63	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00031	ug/m^3	LCBMS-103	562170.12	4206828.66	6.16	1.50	50.63	
PERIOD		0.00030	ug/m^3	LCBMS-104	562172.51	4206824.35	6.14	1.50	50.63	
PERIOD		0.00028	ug/m^3	LCBMS-105	562170.42	4206818.18	6.19	1.50	50.63	
PERIOD		0.00027	ug/m^3	LCBMS-106	562165.93	4206816.31	6.27	1.50	50.63	
PERIOD		0.00026	ug/m^3	LCBMS-107	562161.43	4206814.44	6.34	1.50	50.63	
PERIOD		0.00026	ug/m^3	LCBMS-108	562156.94	4206812.58	6.41	1.50	50.63	
PERIOD		0.00025	ug/m^3	LCBMS-109	562152.45	4206810.71	6.48	1.50	50.63	
PERIOD		0.00024	ug/m^3	LCBMS-110	562147.96	4206808.84	6.55	1.50	50.63	
PERIOD		0.00023	ug/m^3	LCBMS-111	562143.47	4206806.97	6.59	1.50	50.63	
PERIOD		0.00023	ug/m^3	LCBMS-112	562138.98	4206805.10	6.62	1.50	50.63	
PERIOD		0.00022	ug/m^3	LCBMS-113	562134.48	4206803.23	6.65	1.50	50.63	
PERIOD		0.00021	ug/m^3	LCBMS-114	562129.99	4206801.36	6.68	1.50	50.63	
PERIOD		0.00021	ug/m^3	LCBMS-115	562125.50	4206799.49	6.71	1.50	50.63	
PERIOD		0.00020	ug/m^3	LCBMS-116	562121.01	4206797.63	7.34	1.50	50.63	
PERIOD		0.00019	ug/m^3	LCBMS-117	562116.52	4206795.76	8.35	1.50	50.63	
PERIOD		0.00018	ug/m^3	LCBMS-118	562112.02	4206793.89	9.25	1.50	50.63	
PERIOD		0.00018	ug/m^3	LCBMS-119	562107.53	4206792.02	10.03	1.50	50.63	
PERIOD		0.00199	ug/m^3	LAFD-1	562242.15	4207189.12	2.45	1.50	2.45	
PERIOD		0.00326	ug/m^3	LAFD-2	562255.39	4207158.50	2.50	1.50	2.50	
PERIOD		0.00341	ug/m^3	LAFD-3	562235.26	4207149.71	2.74	1.50	2.74	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00270	ug/m^3	LAFD-4	562227.31	4207163.59	2.73	1.50	2.73	
PERIOD		0.00227	ug/m^3	LAFD-5	562225.09	4207175.24	2.68	1.50	2.68	
PERIOD		0.00203	ug/m^3	LAFD-6	562229.54	4207184.67	2.58	1.50	2.58	
PERIOD		0.00212	ug/m^3	LAFD-7	562244.04	4207184.75	2.46	1.50	2.46	
PERIOD		0.00227	ug/m^3	LAFD-8	562245.93	4207180.37	2.46	1.50	2.46	
PERIOD		0.00243	ug/m^3	LAFD-9	562247.82	4207176.00	2.47	1.50	2.47	
PERIOD		0.00261	ug/m^3	LAFD-10	562249.72	4207171.62	2.48	1.50	2.48	
PERIOD		0.00280	ug/m^3	LAFD-11	562251.61	4207167.25	2.49	1.50	2.49	
PERIOD		0.00302	ug/m^3	LAFD-12	562253.50	4207162.87	2.50	1.50	2.50	
PERIOD		0.00329	ug/m^3	LAFD-13	562251.36	4207156.74	2.55	1.50	2.55	
PERIOD		0.00332	ug/m^3	LAFD-14	562247.34	4207154.98	2.59	1.50	2.59	
PERIOD		0.00335	ug/m^3	LAFD-15	562243.31	4207153.23	2.64	1.50	2.64	
PERIOD		0.00338	ug/m^3	LAFD-16	562239.29	4207151.47	2.69	1.50	2.69	
PERIOD		0.00321	ug/m^3	LAFD-17	562233.27	4207153.18	2.74	1.50	2.74	
PERIOD		0.00303	ug/m^3	LAFD-18	562231.29	4207156.65	2.74	1.50	2.74	
PERIOD		0.00286	ug/m^3	LAFD-19	562229.30	4207160.12	2.73	1.50	2.73	
PERIOD		0.00255	ug/m^3	LAFD-20	562226.57	4207167.47	2.71	1.50	2.71	
PERIOD		0.00241	ug/m^3	LAFD-21	562225.83	4207171.36	2.70	1.50	2.70	
PERIOD		0.00219	ug/m^3	LAFD-22	562226.57	4207178.38	2.64	1.50	2.64	
PERIOD		0.00210	ug/m^3	LAFD-23	562228.06	4207181.53	2.61	1.50	2.61	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00201	ug/m^3	LAFD-24	562233.74	4207186.15	2.54	1.50	2.54	
PERIOD		0.00200	ug/m^3	LAFD-25	562237.95	4207187.64	2.49	1.50	2.49	
PERIOD		0.00030	ug/m^3	PCP-1	562185.94	4206803.18	6.12	1.50	50.63	
PERIOD		0.00034	ug/m^3	PCP-2	562213.54	4206752.30	6.24	1.50	40.66	
PERIOD		0.00049	ug/m^3	PCP-3	562243.21	4206767.30	6.11	1.50	40.66	
PERIOD		0.00052	ug/m^3	PCP-4	562256.49	4206746.43	6.42	1.50	40.66	
PERIOD		0.00131	ug/m^3	PCP-5	562333.43	4206801.29	4.81	1.50	40.66	
PERIOD		0.00111	ug/m^3	PCP-6	562280.82	4206860.28	4.69	1.50	40.66	
PERIOD		0.00030	ug/m^3	PCP-7	562188.24	4206798.94	6.11	1.50	50.63	
PERIOD		0.00031	ug/m^3	PCP-8	562190.54	4206794.70	6.10	1.50	50.63	
PERIOD		0.00031	ug/m^3	PCP-9	562192.84	4206790.46	6.09	1.50	50.63	
PERIOD		0.00031	ug/m^3	PCP-10	562195.14	4206786.22	6.08	1.50	50.63	
PERIOD		0.00032	ug/m^3	PCP-11	562197.44	4206781.98	6.07	1.50	50.63	
PERIOD		0.00032	ug/m^3	PCP-12	562199.74	4206777.74	6.08	1.50	40.66	
PERIOD		0.00032	ug/m^3	PCP-13	562202.04	4206773.50	6.10	1.50	40.66	
PERIOD		0.00033	ug/m^3	PCP-14	562204.34	4206769.26	6.13	1.50	40.66	
PERIOD		0.00033	ug/m^3	PCP-15	562206.64	4206765.02	6.16	1.50	40.66	
PERIOD		0.00033	ug/m^3	PCP-16	562208.94	4206760.78	6.19	1.50	40.66	
PERIOD		0.00034	ug/m^3	PCP-17	562211.24	4206756.54	6.21	1.50	40.66	
PERIOD		0.00036	ug/m^3	PCP-18	562217.78	4206754.44	6.23	1.50	40.66	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00038	ug/m^3	PCP-19	562222.02	4206756.59	6.22	1.50	40.66	
PERIOD		0.00039	ug/m^3	PCP-20	562226.26	4206758.73	6.20	1.50	40.66	
PERIOD		0.00041	ug/m^3	PCP-21	562230.49	4206760.87	6.19	1.50	40.66	
PERIOD		0.00044	ug/m^3	PCP-22	562234.73	4206763.01	6.16	1.50	40.66	
PERIOD		0.00047	ug/m^3	PCP-23	562238.97	4206765.16	6.14	1.50	40.66	
PERIOD		0.00050	ug/m^3	PCP-24	562245.87	4206763.13	6.16	1.50	40.66	
PERIOD		0.00050	ug/m^3	PCP-25	562248.52	4206758.95	6.22	1.50	40.66	
PERIOD		0.00051	ug/m^3	PCP-26	562251.18	4206754.78	6.28	1.50	40.66	
PERIOD		0.00051	ug/m^3	PCP-27	562253.83	4206750.60	6.35	1.50	40.66	
PERIOD		0.00054	ug/m^3	PCP-28	562260.54	4206749.32	6.39	1.50	40.66	
PERIOD		0.00057	ug/m^3	PCP-29	562264.59	4206752.21	6.36	1.50	40.66	
PERIOD		0.00060	ug/m^3	PCP-30	562268.64	4206755.09	6.33	1.50	40.66	
PERIOD		0.00063	ug/m^3	PCP-31	562272.69	4206757.98	6.30	1.50	40.66	
PERIOD		0.00066	ug/m^3	PCP-32	562276.74	4206760.87	6.27	1.50	40.66	
PERIOD		0.00069	ug/m^3	PCP-33	562280.79	4206763.75	6.24	1.50	40.66	
PERIOD		0.00072	ug/m^3	PCP-34	562284.84	4206766.64	6.20	1.50	40.66	
PERIOD		0.00076	ug/m^3	PCP-35	562288.89	4206769.53	6.17	1.50	40.66	
PERIOD		0.00080	ug/m^3	PCP-36	562292.94	4206772.42	6.14	1.50	40.66	
PERIOD		0.00084	ug/m^3	PCP-37	562296.98	4206775.30	6.10	1.50	40.66	
PERIOD		0.00088	ug/m^3	PCP-38	562301.03	4206778.19	6.04	1.50	40.66	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00092	ug/m^3	PCP-39	562305.08	4206781.08	5.98	1.50	40.66	
PERIOD		0.00097	ug/m^3	PCP-40	562309.13	4206783.97	5.92	1.50	40.66	
PERIOD		0.00102	ug/m^3	PCP-41	562313.18	4206786.85	5.85	1.50	40.66	
PERIOD		0.00107	ug/m^3	PCP-42	562317.23	4206789.74	5.78	1.50	40.66	
PERIOD		0.00113	ug/m^3	PCP-43	562321.28	4206792.63	5.62	1.50	40.66	
PERIOD		0.00118	ug/m^3	PCP-44	562325.33	4206795.51	5.39	1.50	40.66	
PERIOD		0.00125	ug/m^3	PCP-45	562329.38	4206798.40	5.12	1.50	40.66	
PERIOD		0.00131	ug/m^3	PCP-46	562330.14	4206804.98	4.82	1.50	40.66	
PERIOD		0.00131	ug/m^3	PCP-47	562326.85	4206808.66	4.87	1.50	40.66	
PERIOD		0.00130	ug/m^3	PCP-48	562323.57	4206812.35	4.93	1.50	40.66	
PERIOD		0.00130	ug/m^3	PCP-49	562320.28	4206816.04	4.92	1.50	40.66	
PERIOD		0.00130	ug/m^3	PCP-50	562316.99	4206819.72	4.83	1.50	40.66	
PERIOD		0.00129	ug/m^3	PCP-51	562313.70	4206823.41	4.76	1.50	40.66	
PERIOD		0.00128	ug/m^3	PCP-52	562310.41	4206827.10	4.73	1.50	40.66	
PERIOD		0.00127	ug/m^3	PCP-53	562307.13	4206830.79	4.74	1.50	40.66	
PERIOD		0.00125	ug/m^3	PCP-54	562303.84	4206834.47	4.79	1.50	40.66	
PERIOD		0.00124	ug/m^3	PCP-55	562300.55	4206838.16	4.87	1.50	40.66	
PERIOD		0.00122	ug/m^3	PCP-56	562297.26	4206841.85	4.93	1.50	40.66	
PERIOD		0.00120	ug/m^3	PCP-57	562293.97	4206845.53	4.92	1.50	40.66	
PERIOD		0.00118	ug/m^3	PCP-58	562290.68	4206849.22	4.83	1.50	40.66	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00116	ug/m^3	PCP-59	562287.40	4206852.91	4.76	1.50	40.66	
PERIOD		0.00114	ug/m^3	PCP-60	562284.11	4206856.59	4.71	1.50	40.66	
PERIOD		0.00103	ug/m^3	PCP-61	562276.69	4206857.80	4.90	1.50	40.66	
PERIOD		0.00096	ug/m^3	PCP-62	562272.57	4206855.32	5.08	1.50	40.66	
PERIOD		0.00089	ug/m^3	PCP-63	562268.44	4206852.83	5.23	1.50	40.66	
PERIOD		0.00083	ug/m^3	PCP-64	562264.32	4206850.35	5.33	1.50	40.66	
PERIOD		0.00078	ug/m^3	PCP-65	562260.19	4206847.87	5.41	1.50	40.66	
PERIOD		0.00073	ug/m^3	PCP-66	562256.07	4206845.38	5.49	1.50	40.66	
PERIOD		0.00069	ug/m^3	PCP-67	562251.94	4206842.90	5.56	1.50	40.66	
PERIOD		0.00064	ug/m^3	PCP-68	562247.82	4206840.42	5.61	1.50	40.66	
PERIOD		0.00061	ug/m^3	PCP-69	562243.69	4206837.94	5.66	1.50	40.66	
PERIOD		0.00057	ug/m^3	PCP-70	562239.57	4206835.45	5.69	1.50	40.66	
PERIOD		0.00054	ug/m^3	PCP-71	562235.44	4206832.97	5.72	1.50	40.66	
PERIOD		0.00051	ug/m^3	PCP-72	562231.32	4206830.49	5.75	1.50	40.66	
PERIOD		0.00048	ug/m^3	PCP-73	562227.19	4206828.01	5.78	1.50	40.66	
PERIOD		0.00046	ug/m^3	PCP-74	562223.07	4206825.52	5.82	1.50	40.66	
PERIOD		0.00043	ug/m^3	PCP-75	562218.94	4206823.04	5.85	1.50	40.66	
PERIOD		0.00041	ug/m^3	PCP-76	562214.82	4206820.56	5.87	1.50	40.66	
PERIOD		0.00039	ug/m^3	PCP-77	562210.69	4206818.08	5.91	1.50	40.66	
PERIOD		0.00038	ug/m^3	PCP-78	562206.57	4206815.59	5.94	1.50	40.66	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00036	ug/m^3	PCP-79	562202.44	4206813.11	5.97	1.50	40.66	
PERIOD		0.00034	ug/m^3	PCP-80	562198.32	4206810.63	6.01	1.50	40.66	
PERIOD		0.00033	ug/m^3	PCP-81	562194.19	4206808.14	6.05	1.50	40.66	
PERIOD		0.00032	ug/m^3	PCP-82	562190.07	4206805.66	6.09	1.50	50.63	
PERIOD		0.00217	ug/m^3	PSC-1	562305.93	4206897.31	5.25	1.50	40.66	
PERIOD		0.00313	ug/m^3	PSC-2	562330.42	4206909.56	7.31	1.50	7.31	
PERIOD		0.00220	ug/m^3	PSC-3	562362.85	4206855.73	7.44	1.50	7.44	
PERIOD		0.00188	ug/m^3	PSC-4	562343.02	4206842.45	5.25	1.50	32.90	
PERIOD		0.00233	ug/m^3	PSC-5	562310.01	4206899.35	5.80	1.50	6.76	
PERIOD		0.00243	ug/m^3	PSC-6	562314.09	4206901.39	6.34	1.50	6.76	
PERIOD		0.00258	ug/m^3	PSC-7	562318.18	4206903.43	6.82	1.50	6.82	
PERIOD		0.00276	ug/m^3	PSC-8	562322.26	4206905.48	7.00	1.50	7.00	
PERIOD		0.00295	ug/m^3	PSC-9	562326.34	4206907.52	7.16	1.50	7.16	
PERIOD		0.00302	ug/m^3	PSC-10	562332.91	4206905.42	7.36	1.50	7.36	
PERIOD		0.00292	ug/m^3	PSC-11	562335.41	4206901.28	7.44	1.50	7.44	
PERIOD		0.00284	ug/m^3	PSC-12	562337.90	4206897.14	7.45	1.50	7.45	
PERIOD		0.00276	ug/m^3	PSC-13	562340.40	4206893.00	7.49	1.50	7.49	
PERIOD		0.00268	ug/m^3	PSC-14	562342.89	4206888.86	7.55	1.50	7.55	
PERIOD		0.00260	ug/m^3	PSC-15	562345.39	4206884.72	7.57	1.50	7.57	
PERIOD		0.00254	ug/m^3	PSC-16	562347.88	4206880.58	7.58	1.50	7.58	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00247	ug/m^3	PSC-17	562350.38	4206876.43	7.59	1.50	7.59	
PERIOD		0.00241	ug/m^3	PSC-18	562352.87	4206872.29	7.60	1.50	7.60	
PERIOD		0.00236	ug/m^3	PSC-19	562355.37	4206868.15	7.56	1.50	7.56	
PERIOD		0.00231	ug/m^3	PSC-20	562357.86	4206864.01	7.47	1.50	7.47	
PERIOD		0.00226	ug/m^3	PSC-21	562360.36	4206859.87	7.43	1.50	7.43	
PERIOD		0.00213	ug/m^3	PSC-22	562358.88	4206853.07	7.09	1.50	7.09	
PERIOD		0.00206	ug/m^3	PSC-23	562354.92	4206850.42	6.71	1.50	6.71	
PERIOD		0.00200	ug/m^3	PSC-24	562350.95	4206847.76	6.27	1.50	6.27	
PERIOD		0.00195	ug/m^3	PSC-25	562346.99	4206845.11	5.79	1.50	5.79	
PERIOD		0.00190	ug/m^3	PSC-26	562340.37	4206846.37	5.38	1.50	5.38	
PERIOD		0.00192	ug/m^3	PSC-27	562337.72	4206850.29	5.48	1.50	5.48	
PERIOD		0.00194	ug/m^3	PSC-28	562335.07	4206854.21	5.53	1.50	7.27	
PERIOD		0.00197	ug/m^3	PSC-29	562332.42	4206858.12	5.53	1.50	7.27	
PERIOD		0.00199	ug/m^3	PSC-30	562329.77	4206862.04	5.50	1.50	7.27	
PERIOD		0.00202	ug/m^3	PSC-31	562327.12	4206865.96	5.41	1.50	7.27	
PERIOD		0.00205	ug/m^3	PSC-32	562324.48	4206869.88	5.29	1.50	7.27	
PERIOD		0.00207	ug/m^3	PSC-33	562321.83	4206873.80	5.25	1.50	5.25	
PERIOD		0.00209	ug/m^3	PSC-34	562319.18	4206877.72	5.26	1.50	5.26	
PERIOD		0.00210	ug/m^3	PSC-35	562316.53	4206881.64	5.34	1.50	5.34	
PERIOD		0.00212	ug/m^3	PSC-36	562313.88	4206885.55	5.40	1.50	5.40	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00213	ug/m^3	PSC-37	562311.23	4206889.47	5.41	1.50	6.76	
PERIOD		0.00215	ug/m^3	PSC-38	562308.58	4206893.39	5.36	1.50	40.66	
PERIOD		0.00042	ug/m^3	SJC-1	562303.47	4206592.57	9.32	1.50	82.06	
PERIOD		0.00054	ug/m^3	SJC-2	562344.28	4206615.31	8.59	1.50	39.11	
PERIOD		0.00048	ug/m^3	SJC-3	562373.32	4206568.00	8.40	1.50	86.08	
PERIOD		0.00040	ug/m^3	SJC-4	562334.13	4206544.65	9.25	1.50	93.89	
PERIOD		0.00043	ug/m^3	SJC-5	562307.55	4206594.84	9.25	1.50	82.06	
PERIOD		0.00044	ug/m^3	SJC-6	562311.63	4206597.12	9.18	1.50	82.06	
PERIOD		0.00045	ug/m^3	SJC-7	562315.71	4206599.39	9.11	1.50	38.28	
PERIOD		0.00047	ug/m^3	SJC-8	562319.79	4206601.67	9.04	1.50	9.04	
PERIOD		0.00048	ug/m^3	SJC-9	562323.88	4206603.94	8.96	1.50	8.96	
PERIOD		0.00049	ug/m^3	SJC-10	562327.96	4206606.21	8.88	1.50	8.88	
PERIOD		0.00050	ug/m^3	SJC-11	562332.04	4206608.49	8.80	1.50	37.69	
PERIOD		0.00051	ug/m^3	SJC-12	562336.12	4206610.76	8.73	1.50	37.69	
PERIOD		0.00052	ug/m^3	SJC-13	562340.20	4206613.04	8.66	1.50	39.11	
PERIOD		0.00053	ug/m^3	SJC-14	562346.70	4206611.37	8.59	1.50	39.11	
PERIOD		0.00053	ug/m^3	SJC-15	562349.12	4206607.43	8.59	1.50	39.11	
PERIOD		0.00052	ug/m^3	SJC-16	562351.54	4206603.48	8.58	1.50	39.99	
PERIOD		0.00052	ug/m^3	SJC-17	562353.96	4206599.54	8.58	1.50	39.99	
PERIOD		0.00052	ug/m^3	SJC-18	562356.38	4206595.60	8.57	1.50	39.99	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00051	ug/m^3	SJC-19	562358.80	4206591.66	8.56	1.50	82.06	
PERIOD		0.00051	ug/m^3	SJC-20	562361.22	4206587.71	8.54	1.50	82.06	
PERIOD		0.00050	ug/m^3	SJC-21	562363.64	4206583.77	8.52	1.50	82.06	
PERIOD		0.00050	ug/m^3	SJC-22	562366.06	4206579.83	8.49	1.50	82.06	
PERIOD		0.00049	ug/m^3	SJC-23	562368.48	4206575.89	8.46	1.50	82.06	
PERIOD		0.00049	ug/m^3	SJC-24	562370.90	4206571.94	8.43	1.50	86.08	
PERIOD		0.00048	ug/m^3	SJC-25	562369.40	4206565.67	8.49	1.50	93.89	
PERIOD		0.00047	ug/m^3	SJC-26	562365.48	4206563.33	8.58	1.50	93.89	
PERIOD		0.00046	ug/m^3	SJC-27	562361.56	4206561.00	8.67	1.50	93.89	
PERIOD		0.00045	ug/m^3	SJC-28	562357.64	4206558.66	8.76	1.50	93.89	
PERIOD		0.00044	ug/m^3	SJC-29	562353.73	4206556.33	8.84	1.50	93.89	
PERIOD		0.00043	ug/m^3	SJC-30	562349.81	4206553.99	8.93	1.50	93.89	
PERIOD		0.00043	ug/m^3	SJC-31	562345.89	4206551.66	9.01	1.50	93.89	
PERIOD		0.00042	ug/m^3	SJC-32	562341.97	4206549.32	9.09	1.50	93.89	
PERIOD		0.00041	ug/m^3	SJC-33	562338.05	4206546.99	9.17	1.50	93.89	
PERIOD		0.00040	ug/m^3	SJC-34	562331.57	4206548.64	9.28	1.50	93.89	
PERIOD		0.00041	ug/m^3	SJC-35	562329.02	4206552.64	9.31	1.50	93.89	
PERIOD		0.00041	ug/m^3	SJC-36	562326.46	4206556.63	9.34	1.50	93.89	
PERIOD		0.00041	ug/m^3	SJC-37	562323.91	4206560.62	9.36	1.50	93.89	
PERIOD		0.00041	ug/m^3	SJC-38	562321.36	4206564.62	9.38	1.50	93.89	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Site-Wide Activity and Phase 1 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00041	ug/m^3	SJC-39	562318.80	4206568.61	9.38	1.50	86.08	
PERIOD		0.00042	ug/m^3	SJC-40	562316.25	4206572.60	9.38	1.50	86.08	
PERIOD		0.00042	ug/m^3	SJC-41	562313.69	4206576.60	9.37	1.50	82.06	
PERIOD		0.00042	ug/m^3	SJC-42	562311.14	4206580.59	9.36	1.50	82.06	
PERIOD		0.00042	ug/m^3	SJC-43	562308.58	4206584.58	9.35	1.50	82.06	
PERIOD		0.00042	ug/m^3	SJC-44	562306.03	4206588.58	9.34	1.50	82.06	

Source Pathway - Source Inputs

AERMOD

Source Pathway - Source Inputs

Polygon Area Sources

Source Type: AREA POLY

Source: PROJECTSITE (Project Site - Site-wide Grading and Site Prep)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
2.68	3.33	2.07E-8		30	562307.78	4207095.31
		2.07E-8			562401.56	4207132.77
		2.07E-8			562453.03	4207129.99
		2.07E-8			562505.54	4207055.79
		2.07E-8			562517.03	4207028.39
		2.07E-8			562508.70	4207024.88
		2.07E-8			562519.86	4206999.03
		2.07E-8			562499.01	4206995.31
		2.07E-8			562506.66	4206980.22
		2.07E-8			562535.68	4206985.46
		2.07E-8			562541.19	4206973.55
		2.07E-8			562503.86	4206966.91
		2.07E-8			562470.86	4206962.00
		2.07E-8			562439.86	4206958.31
		2.07E-8			562438.77	4206965.91
		2.07E-8			562414.78	4206963.74
		2.07E-8			562400.21	4206962.53
		2.07E-8			562382.09	4206961.48
		2.07E-8			562365.63	4206960.70
		2.07E-8			562350.20	4206960.14
		2.07E-8			562331.99	4206959.79
		2.07E-8			562315.36	4206959.79
		2.07E-8			562301.59	4206959.85
		2.07E-8			562301.64	4206961.66
		2.07E-8			562297.63	4206961.82
		2.07E-8			562297.79	4206967.98
		2.07E-8			562297.77	4206972.16
		2.07E-8			562297.72	4206978.09
		2.07E-8			562297.24	4206985.48
		2.07E-8			562318.71	4207052.95

Source Pathway - Source Inputs

AERMOD

Source Type: AREA POLY

Source: PROJECTSITE (Project Site - Site-wide Grading and Site Prep)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]

Source Pathway - Source Inputs

AERMOD

Source Type: AREA POLY

Source: PH.2.TO.5 (Phases 2 through 5 Construction after intro of new receptors)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
7.25	3.33	0.00E+0		26	562415.03	4207004.73
		0.00E+0			562407.75	4207018.64
		0.00E+0			562407.91	4207048.34
		0.00E+0			562449.62	4207052.40
		0.00E+0			562475.22	4207030.41
		0.00E+0			562480.63	4207027.82
		0.00E+0			562509.69	4207039.22
		0.00E+0			562503.69	4207053.03
		0.00E+0			562490.40	4207071.68
		0.00E+0			562464.02	4207055.26
		0.00E+0			562449.38	4207076.28
		0.00E+0			562473.94	4207094.89
		0.00E+0			562450.29	4207128.52
		0.00E+0			562403.09	4207130.91
		0.00E+0			562366.48	4207116.77
		0.00E+0			562378.74	4207084.55
		0.00E+0			562354.85	4207073.66
		0.00E+0			562349.17	4207064.28
		0.00E+0			562311.06	4207083.97
		0.00E+0			562319.40	4207051.98
		0.00E+0			562297.77	4206985.64
		0.00E+0			562298.03	4206961.26
		0.00E+0			562302.32	4206961.22
		0.00E+0			562302.19	4206959.68
		0.00E+0			562354.11	4206960.33
		0.00E+0			562418.58	4206963.43

Source Pathway - Source Inputs

Line Volume Sources

Source Type: LINE VOLUME

Source: SKELLYRD (Skelly Road - Off-Site Emissions)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
12.00	4.66E-7		562513.83	4207036.73	14.75	3.12
			562561.10	4207060.25	13.15	3.12
			562596.00	4207075.54	19.76	3.12
			562619.04	4207096.26	24.67	3.12
			562634.60	4207128.45	24.74	3.12
			562635.36	4207150.41	24.65	3.12
			562629.93	4207172.50	22.40	3.12
			562606.40	4207228.76	24.45	3.12
			562603.93	4207236.59	24.54	3.12
			562601.14	4207256.12	23.24	3.12
			562600.97	4207279.44	22.11	3.12
			562605.24	4207329.80	14.50	3.12

Source Pathway - Source Inputs

AERMOD

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SKELLYRD	L0000001	562519.20	4207039.40	14.38	3.12	1.55E-8	12.00		5.58	2.90
	L0000002	562529.94	4207044.75	13.99	3.12	1.55E-8	12.00		5.58	2.90
	L0000003	562540.69	4207050.09	13.52	3.12	1.55E-8	12.00		5.58	2.90
	L0000004	562551.43	4207055.44	13.04	3.12	1.55E-8	12.00		5.58	2.90
	L0000005	562562.20	4207060.73	13.44	3.12	1.55E-8	12.00		5.58	2.90
	L0000006	562573.19	4207065.55	16.14	3.12	1.55E-8	12.00		5.58	2.90
	L0000007	562584.18	4207070.36	18.68	3.12	1.55E-8	12.00		5.58	2.90
	L0000008	562595.17	4207075.18	21.29	3.12	1.55E-8	12.00		5.58	2.90
	L0000009	562604.25	4207082.96	23.30	3.12	1.55E-8	12.00		5.58	2.90
	L0000010	562613.17	4207090.99	24.36	3.12	1.55E-8	12.00		5.58	2.90
	L0000011	562620.83	4207099.96	24.34	3.12	1.55E-8	12.00		5.58	2.90
	L0000012	562626.05	4207110.77	24.17	3.12	1.55E-8	12.00		5.58	2.90
	L0000013	562631.28	4207121.57	24.46	3.12	1.55E-8	12.00		5.58	2.90
	L0000014	562634.75	4207132.80	24.88	3.12	1.55E-8	12.00		5.58	2.90
	L0000015	562635.17	4207144.80	24.90	3.12	1.55E-8	12.00		5.58	2.90
	L0000016	562633.84	4207156.61	25.09	3.12	1.55E-8	12.00		5.58	2.90
	L0000017	562630.98	4207168.26	25.28	3.12	1.55E-8	12.00		5.58	2.90
	L0000018	562626.99	4207179.55	25.27	3.12	1.55E-8	12.00		5.58	2.90
	L0000019	562622.36	4207190.62	24.90	3.12	1.55E-8	12.00		5.58	2.90
	L0000020	562617.73	4207201.69	24.54	3.12	1.55E-8	12.00		5.58	2.90
	L0000021	562613.10	4207212.76	24.24	3.12	1.55E-8	12.00		5.58	2.90
	L0000022	562608.46	4207223.83	24.08	3.12	1.55E-8	12.00		5.58	2.90
	L0000023	562604.40	4207235.11	24.05	3.12	1.55E-8	12.00		5.58	2.90
	L0000024	562602.46	4207246.93	23.88	3.12	1.55E-8	12.00		5.58	2.90

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SKELLYRD	L0000025	562601.12	4207258.84	23.18	3.12	1.55E-8	12.00		5.58	2.90
	L0000026	562601.04	4207270.83	22.59	3.12	1.55E-8	12.00		5.58	2.90
	L0000027	562601.26	4207282.82	20.26	3.12	1.55E-8	12.00		5.58	2.90
	L0000028	562602.27	4207294.78	17.73	3.12	1.55E-8	12.00		5.58	2.90
	L0000029	562603.29	4207306.74	15.73	3.12	1.55E-8	12.00		5.58	2.90
	L0000030	562604.30	4207318.69	15.10	3.12	1.55E-8	12.00		5.58	2.90

Control Pathway

Dispersion Options

Titles

21180006 Skelly Residential Project
Phases 2 thru 5 Development

Dispersion Options

☐ Regulatory Default ☒ Non-Default Options

☒ Flat & Elevated Terrain
☐ No Stack-Tip Downwash (NOSTD)
☐ Run in Screening Mode
☐ Conversion of NOx to NO2 (OLM or PVMRM)
☐ No Checks for Non-Sequential Met Data
☒ Fast All Sources (FASTALL)
☐ Fast Area Sources (FASTAREA)
☐ Optimized Area Source Plume Depletion
☐ Gas Deposition

BETA Options:

☐ Capped and Horizontal Stack Releases
☐ Adjusted Friction Velocity (u*) in AERMET (ADJ_U*)
☐ Low Wind Options

☐ SCIM (Sampled Chronological Input Model)
☐ Ignore Urban Night / Daytime Transition (NOURBTRAN)

Dispersion Coefficient

Urban
Population:
Name (Optional):
Roughness Length:

Output Type

☒ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM2.5

Averaging Time Options

Hours ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 24

☐ Month ☒ Period ☐ Annual

Exponential Decay

☐ Yes ☒ No

Terrain Height Options

☐ Flat ☒ Elevated
SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☒ Yes ☐ No

Default Height = 1.50 m

Control Pathway

Optional Files

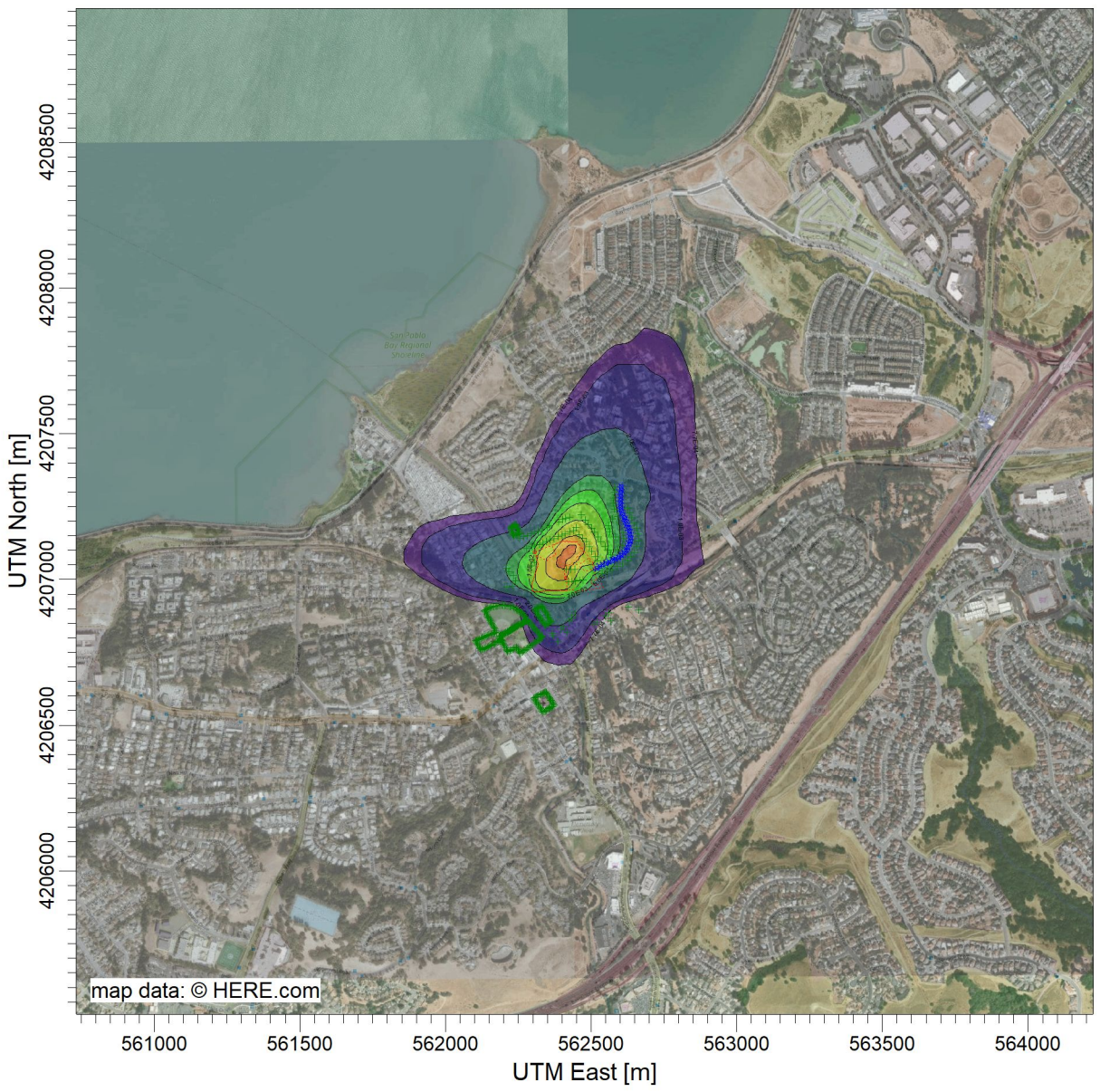
Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

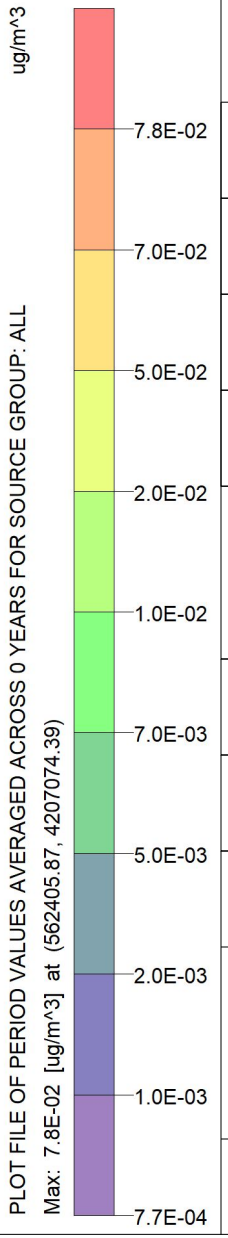
Detailed Error Listing File

Filename: 21180006 Skelly Residential_Phases 2 thru 5.err

PROJECT TITLE:

21180006 Skelly Residential Project
Phases 2 thru 5 Development





COMMENTS:

SOURCES:
3

RECEPTORS:
2299

OUTPUT TYPE:
Concentration

MAX:
7.8E-02 ug/m^3

COMPANY NAME:

MODELER:

DATE:
4/12/2022

SCALE: 1:23,505

0 0.5 km

PROJECT NO.:

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: C:\Users\lpark\OneDrive - ADEC Solutions USA, Inc\Desktop\01. Project Files\2118.0006 Skelly Rd Residenti
Format Type: Default AERMET format

Profile Met Data

Filename: C:\Users\lpark\OneDrive - ADEC Solutions USA, Inc\Desktop\01. Project Files\2118.0006 Skelly Rd Residenti
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 4.30 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2009			Napa County Airport
Upper Air		2009			OAKLAND/WSO AP

Data Period

Data Period to Process

Start Date: 1/1/2009 Start Hour: 1 End Date: 1/2/2014 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	562293.81	4207045.66	Res	2.33	1.50
2	562305.03	4207059.24	Res	2.40	1.50
3	562279.13	4207106.06	Res	2.44	1.50
4	562296.00	4207111.74	Res	2.39	1.50
5	562304.79	4207117.42	Res	2.80	1.50
6	562322.17	4207119.32	Res	3.52	1.50
7	562333.83	4207123.38	Res	3.89	1.50
8	562346.05	4207130.57	Res	4.17	1.50
9	562359.62	4207135.24	Res	4.36	1.50
10	562372.97	4207141.03	Res	4.53	1.50
11	562386.19	4207148.75	Res	4.70	1.50
12	562400.36	4207152.13	Res	4.82	1.50
13	562410.20	4207156.25	Res	4.91	1.50
14	562425.95	4207163.76	Res	5.16	1.50
15	562439.64	4207168.84	Res	5.52	1.50
16	562448.45	4207177.65	Res	6.40	1.50
17	562457.39	4207154.50	Res	5.95	1.50
18	562470.86	4207142.06	Res	6.55	1.50
19	562483.62	4207129.91	Res	7.26	1.50
20	562494.77	4207113.09	Res	8.05	1.50
21	562502.01	4207095.70	Res	9.33	1.50
22	562513.36	4207078.68	Res	10.75	1.50
23	562522.88	4207065.10	Res	12.32	1.50
24	562538.46	4207021.31	Res	15.95	1.50
25	562556.90	4207027.02	Res	17.04	1.50
26	562572.28	4207035.22	Res	17.67	1.50
27	562588.97	4207044.15	Res	20.29	1.50
28	562607.12	4207051.62	Res	24.74	1.50
29	562625.42	4207064.35	Res	26.31	1.50
30	562637.06	4207077.67	Res	26.83	1.50

AERMOD

31	562649.81	4207092.83	Res	27.36	1.50
32	562656.70	4207112.98	Res	27.08	1.50
33	562662.56	4207131.75	Res	27.73	1.50
34	562660.84	4207155.40	Res	28.13	1.50
35	562656.88	4207175.55	Res	28.69	1.50
36	562647.75	4207194.67	Res	28.39	1.50
37	562640.08	4207211.01	Res	27.82	1.50
38	562633.98	4207228.74	Res	27.25	1.50
39	562625.49	4207246.31	Res	26.26	1.50
40	562566.88	4207085.38	Res	14.28	1.50
41	562557.55	4207100.07	Res	12.93	1.50
42	562548.46	4207113.39	Res	12.76	1.50
43	562533.15	4207129.32	Res	12.53	1.50
44	562592.52	4207103.18	Res	19.23	1.50
45	562607.46	4207116.87	Res	20.81	1.50
46	562611.64	4207140.35	Res	21.80	1.50
47	562582.97	4207146.17	Res	18.36	1.50
48	562609.42	4207160.03	Res	22.13	1.50
49	562564.52	4207164.03	Res	16.81	1.50
50	562559.40	4207183.06	Res	16.77	1.50
51	562572.72	4207206.93	Res	18.65	1.50
52	562591.23	4207215.76	Res	21.15	1.50
53	562580.09	4207241.29	Res	21.94	1.50
54	562576.40	4207260.81	Res	21.15	1.50
55	562577.58	4207278.68	Res	19.68	1.50
56	562579.59	4207299.32	Res	15.88	1.50
57	562582.23	4207316.96	Res	14.03	1.50
58	562524.48	4207146.24	Res	12.34	1.50
59	562512.14	4207161.68	Res	11.32	1.50
60	562502.60	4207175.99	Res	10.94	1.50
61	562490.25	4207188.62	Res	11.09	1.50
62	562479.59	4207204.05	Res	11.34	1.50
63	562465.56	4207221.02	Res	10.64	1.50
64	562425.96	4207214.34	Res	5.86	1.50
65	562412.61	4207209.09	Res	5.16	1.50
66	562402.35	4207205.04	Res	4.97	1.50
67	562389.23	4207197.88	Res	4.73	1.50
68	562357.51	4207185.00	Res	4.28	1.50

AERMOD

69	562347.73	4207180.94	Res	4.13	1.50
70	562333.42	4207174.50	Res	3.85	1.50
71	562319.56	4207165.77	Res	3.47	1.50
72	562307.80	4207162.73	Res	3.03	1.50
73	562295.23	4207156.45	Res	2.48	1.50
74	562281.85	4207150.97	Res	2.35	1.50
75	562269.68	4207148.13	Res	2.43	1.50
76	562255.69	4207142.05	Res	2.58	1.50
77	562230.12	4206977.87	Res	4.33	1.50
78	562241.11	4206995.30	Res	4.08	1.50
79	562233.34	4207015.08	Res	4.02	1.50
80	562216.64	4207027.09	Res	4.14	1.50
81	562208.44	4207038.37	Res	4.13	1.50
82	562211.07	4206975.81	Res	4.60	1.50
83	562444.86	4206878.58	Res	10.34	1.50
84	562434.77	4206866.25	Res	9.91	1.50
85	562423.69	4206856.66	Res	9.42	1.50
86	562419.10	4206817.49	Res	8.63	1.50
87	562404.28	4206836.97	Res	8.51	1.50
88	562395.83	4206830.42	Res	8.11	1.50
89	562387.09	4206788.03	Res	6.39	1.50
90	562371.27	4206807.34	Res	5.70	1.50
91	562366.91	4206816.18	Res	5.86	1.50
92	562559.49	4206885.66	Res	16.49	1.50
93	562548.04	4206874.69	Res	14.22	1.50
94	562626.84	4206905.90	Res	29.57	1.50
95	562663.83	4206894.92	Res	32.30	1.50
96	562567.19	4206858.13	Res	16.23	1.50
97	562521.71	4206853.33	Res	12.07	1.50
98	562510.24	4206845.68	Res	11.70	1.50
99	562103.04	4206790.15	School	10.69	1.50
100	562122.03	4206757.18	School	6.68	1.50
101	562190.19	4206791.82	School	6.10	1.50
102	562183.24	4206803.74	School	6.14	1.50
103	562279.18	4206860.34	School	4.74	1.50
104	562263.31	4206884.83	School	4.63	1.50
105	562230.89	4206906.39	School	4.94	1.50
106	562192.97	4206912.57	School	5.30	1.50

AERMOD

107	562157.64	4206906.27	School	5.52	1.50
108	562134.18	4206893.22	School	6.06	1.50
109	562174.91	4206820.05	School	6.14	1.50
110	562105.41	4206786.03	School	9.69	1.50
111	562107.79	4206781.91	School	8.83	1.50
112	562110.16	4206777.79	School	8.11	1.50
113	562112.54	4206773.67	School	7.60	1.50
114	562114.91	4206769.54	School	7.28	1.50
115	562117.28	4206765.42	School	7.03	1.50
116	562119.66	4206761.30	School	6.82	1.50
117	562126.29	4206759.35	School	6.60	1.50
118	562130.55	4206761.51	School	6.57	1.50
119	562134.81	4206763.68	School	6.54	1.50
120	562139.07	4206765.84	School	6.51	1.50
121	562143.33	4206768.01	School	6.48	1.50
122	562147.59	4206770.17	School	6.44	1.50
123	562151.85	4206772.34	School	6.40	1.50
124	562156.11	4206774.50	School	6.36	1.50
125	562160.37	4206776.67	School	6.32	1.50
126	562164.63	4206778.83	School	6.28	1.50
127	562168.89	4206781.00	School	6.23	1.50
128	562173.15	4206783.16	School	6.19	1.50
129	562177.41	4206785.33	School	6.17	1.50
130	562181.67	4206787.49	School	6.15	1.50
131	562185.93	4206789.66	School	6.12	1.50
132	562187.87	4206795.79	School	6.11	1.50
133	562185.56	4206799.77	School	6.12	1.50
134	562187.41	4206806.20	School	6.11	1.50
135	562191.58	4206808.66	School	6.07	1.50
136	562195.75	4206811.12	School	6.02	1.50
137	562199.93	4206813.58	School	5.98	1.50
138	562204.10	4206816.04	School	5.95	1.50
139	562208.27	4206818.51	School	5.91	1.50
140	562212.44	4206820.97	School	5.88	1.50
141	562216.61	4206823.43	School	5.85	1.50
142	562220.78	4206825.89	School	5.83	1.50
143	562224.95	4206828.35	School	5.79	1.50
144	562229.12	4206830.81	School	5.76	1.50

145	562233.30	4206833.27	School	5.73	1.50
146	562237.47	4206835.73	School	5.70	1.50
147	562241.64	4206838.19	School	5.67	1.50
148	562245.81	4206840.65	School	5.62	1.50
149	562249.98	4206843.11	School	5.57	1.50
150	562254.15	4206845.58	School	5.51	1.50
151	562258.32	4206848.04	School	5.43	1.50
152	562262.49	4206850.50	School	5.35	1.50
153	562266.67	4206852.96	School	5.25	1.50
154	562270.84	4206855.42	School	5.13	1.50
155	562275.01	4206857.88	School	4.95	1.50
156	562276.54	4206864.42	School	4.72	1.50
157	562273.89	4206868.50	School	4.72	1.50
158	562271.25	4206872.59	School	4.73	1.50
159	562268.60	4206876.67	School	4.71	1.50
160	562265.96	4206880.75	School	4.67	1.50
161	562259.26	4206887.53	School	4.66	1.50
162	562255.21	4206890.22	School	4.71	1.50
163	562251.15	4206892.92	School	4.76	1.50
164	562247.10	4206895.61	School	4.81	1.50
165	562243.05	4206898.31	School	4.84	1.50
166	562239.00	4206901.00	School	4.86	1.50
167	562234.94	4206903.70	School	4.90	1.50
168	562226.15	4206907.16	School	5.02	1.50
169	562221.41	4206907.94	School	5.10	1.50
170	562216.67	4206908.71	School	5.14	1.50
171	562211.93	4206909.48	School	5.18	1.50
172	562207.19	4206910.25	School	5.21	1.50
173	562202.45	4206911.03	School	5.24	1.50
174	562197.71	4206911.80	School	5.27	1.50
175	562188.55	4206911.78	School	5.32	1.50
176	562184.14	4206911.00	School	5.34	1.50
177	562179.72	4206910.21	School	5.36	1.50
178	562175.31	4206909.42	School	5.38	1.50
179	562170.89	4206908.63	School	5.41	1.50
180	562166.47	4206907.85	School	5.44	1.50
181	562162.06	4206907.06	School	5.48	1.50
182	562153.73	4206904.10	School	5.57	1.50

183	562149.82	4206901.92	School	5.63	1.50
184	562145.91	4206899.75	School	5.70	1.50
185	562142.00	4206897.57	School	5.82	1.50
186	562138.09	4206895.40	School	5.94	1.50
187	562136.58	4206888.92	School	6.07	1.50
188	562138.97	4206884.61	School	6.08	1.50
189	562141.37	4206880.31	School	6.10	1.50
190	562143.76	4206876.00	School	6.12	1.50
191	562146.16	4206871.70	School	6.14	1.50
192	562148.56	4206867.40	School	6.16	1.50
193	562150.95	4206863.09	School	6.17	1.50
194	562153.35	4206858.79	School	6.18	1.50
195	562155.74	4206854.48	School	6.19	1.50
196	562158.14	4206850.18	School	6.20	1.50
197	562160.53	4206845.88	School	6.20	1.50
198	562162.93	4206841.57	School	6.21	1.50
199	562165.33	4206837.27	School	6.21	1.50
200	562167.72	4206832.96	School	6.19	1.50
201	562170.12	4206828.66	School	6.16	1.50
202	562172.51	4206824.35	School	6.14	1.50
203	562170.42	4206818.18	School	6.19	1.50
204	562165.93	4206816.31	School	6.27	1.50
205	562161.43	4206814.44	School	6.34	1.50
206	562156.94	4206812.58	School	6.41	1.50
207	562152.45	4206810.71	School	6.48	1.50
208	562147.96	4206808.84	School	6.55	1.50
209	562143.47	4206806.97	School	6.59	1.50
210	562138.98	4206805.10	School	6.62	1.50
211	562134.48	4206803.23	School	6.65	1.50
212	562129.99	4206801.36	School	6.68	1.50
213	562125.50	4206799.49	School	6.71	1.50
214	562121.01	4206797.63	School	7.34	1.50
215	562116.52	4206795.76	School	8.35	1.50
216	562112.02	4206793.89	School	9.25	1.50
217	562107.53	4206792.02	School	10.03	1.50
218	562242.15	4207189.12	Daycare	2.45	1.50
219	562255.39	4207158.50	Daycare	2.50	1.50
220	562235.26	4207149.71	Daycare	2.74	1.50

221	562227.31	4207163.59	Daycare	2.73	1.50
222	562225.09	4207175.24	Daycare	2.68	1.50
223	562229.54	4207184.67	Daycare	2.58	1.50
224	562244.04	4207184.75	Daycare	2.46	1.50
225	562245.93	4207180.37	Daycare	2.46	1.50
226	562247.82	4207176.00	Daycare	2.47	1.50
227	562249.72	4207171.62	Daycare	2.48	1.50
228	562251.61	4207167.25	Daycare	2.49	1.50
229	562253.50	4207162.87	Daycare	2.50	1.50
230	562251.36	4207156.74	Daycare	2.55	1.50
231	562247.34	4207154.98	Daycare	2.59	1.50
232	562243.31	4207153.23	Daycare	2.64	1.50
233	562239.29	4207151.47	Daycare	2.69	1.50
234	562233.27	4207153.18	Daycare	2.74	1.50
235	562231.29	4207156.65	Daycare	2.74	1.50
236	562229.30	4207160.12	Daycare	2.73	1.50
237	562226.57	4207167.47	Daycare	2.71	1.50
238	562225.83	4207171.36	Daycare	2.70	1.50
239	562226.57	4207178.38	Daycare	2.64	1.50
240	562228.06	4207181.53	Daycare	2.61	1.50
241	562233.74	4207186.15	Daycare	2.54	1.50
242	562237.95	4207187.64	Daycare	2.49	1.50
243	562185.94	4206803.18	School	6.12	1.50
244	562213.54	4206752.30	School	6.24	1.50
245	562243.21	4206767.30	School	6.11	1.50
246	562256.49	4206746.43	School	6.42	1.50
247	562333.43	4206801.29	School	4.81	1.50
248	562280.82	4206860.28	School	4.69	1.50
249	562188.24	4206798.94	School	6.11	1.50
250	562190.54	4206794.70	School	6.10	1.50
251	562192.84	4206790.46	School	6.09	1.50
252	562195.14	4206786.22	School	6.08	1.50
253	562197.44	4206781.98	School	6.07	1.50
254	562199.74	4206777.74	School	6.08	1.50
255	562202.04	4206773.50	School	6.10	1.50
256	562204.34	4206769.26	School	6.13	1.50
257	562206.64	4206765.02	School	6.16	1.50
258	562208.94	4206760.78	School	6.19	1.50

259	562211.24	4206756.54	School	6.21	1.50
260	562217.78	4206754.44	School	6.23	1.50
261	562222.02	4206756.59	School	6.22	1.50
262	562226.26	4206758.73	School	6.20	1.50
263	562230.49	4206760.87	School	6.19	1.50
264	562234.73	4206763.01	School	6.16	1.50
265	562238.97	4206765.16	School	6.14	1.50
266	562245.87	4206763.13	School	6.16	1.50
267	562248.52	4206758.95	School	6.22	1.50
268	562251.18	4206754.78	School	6.28	1.50
269	562253.83	4206750.60	School	6.35	1.50
270	562260.54	4206749.32	School	6.39	1.50
271	562264.59	4206752.21	School	6.36	1.50
272	562268.64	4206755.09	School	6.33	1.50
273	562272.69	4206757.98	School	6.30	1.50
274	562276.74	4206760.87	School	6.27	1.50
275	562280.79	4206763.75	School	6.24	1.50
276	562284.84	4206766.64	School	6.20	1.50
277	562288.89	4206769.53	School	6.17	1.50
278	562292.94	4206772.42	School	6.14	1.50
279	562296.98	4206775.30	School	6.10	1.50
280	562301.03	4206778.19	School	6.04	1.50
281	562305.08	4206781.08	School	5.98	1.50
282	562309.13	4206783.97	School	5.92	1.50
283	562313.18	4206786.85	School	5.85	1.50
284	562317.23	4206789.74	School	5.78	1.50
285	562321.28	4206792.63	School	5.62	1.50
286	562325.33	4206795.52	School	5.39	1.50
287	562329.38	4206798.40	School	5.12	1.50
288	562330.14	4206804.98	School	4.82	1.50
289	562326.85	4206808.66	School	4.87	1.50
290	562323.57	4206812.35	School	4.93	1.50
291	562320.28	4206816.04	School	4.92	1.50
292	562316.99	4206819.72	School	4.83	1.50
293	562313.70	4206823.41	School	4.76	1.50
294	562310.41	4206827.10	School	4.73	1.50
295	562307.13	4206830.79	School	4.74	1.50
296	562303.84	4206834.47	School	4.79	1.50

AERMOD

297	562300.55	4206838.16	School	4.87	1.50
298	562297.26	4206841.85	School	4.93	1.50
299	562293.97	4206845.53	School	4.92	1.50
300	562290.68	4206849.22	School	4.83	1.50
301	562287.40	4206852.91	School	4.76	1.50
302	562284.11	4206856.59	School	4.71	1.50
303	562276.69	4206857.80	School	4.90	1.50
304	562272.57	4206855.32	School	5.08	1.50
305	562268.44	4206852.83	School	5.23	1.50
306	562264.32	4206850.35	School	5.33	1.50
307	562260.19	4206847.87	School	5.41	1.50
308	562256.07	4206845.38	School	5.49	1.50
309	562251.94	4206842.90	School	5.56	1.50
310	562247.82	4206840.42	School	5.61	1.50
311	562243.69	4206837.94	School	5.66	1.50
312	562239.57	4206835.45	School	5.69	1.50
313	562235.44	4206832.97	School	5.72	1.50
314	562231.32	4206830.49	School	5.75	1.50
315	562227.19	4206828.01	School	5.78	1.50
316	562223.07	4206825.52	School	5.82	1.50
317	562218.94	4206823.04	School	5.85	1.50
318	562214.82	4206820.56	School	5.87	1.50
319	562210.69	4206818.08	School	5.91	1.50
320	562206.57	4206815.59	School	5.94	1.50
321	562202.44	4206813.11	School	5.97	1.50
322	562198.32	4206810.63	School	6.01	1.50
323	562194.19	4206808.15	School	6.05	1.50
324	562190.07	4206805.66	School	6.09	1.50
325	562305.93	4206897.31		5.25	1.50
326	562330.42	4206909.56		7.31	1.50
327	562362.85	4206855.73		7.44	1.50
328	562343.02	4206842.45		5.25	1.50
329	562310.01	4206899.35		5.80	1.50
330	562314.09	4206901.39		6.34	1.50
331	562318.18	4206903.44		6.82	1.50
332	562322.26	4206905.48		7.00	1.50
333	562326.34	4206907.52		7.16	1.50
334	562332.91	4206905.42		7.36	1.50

AERMOD

335	562335.41	4206901.28	7.44	1.50
336	562337.90	4206897.14	7.45	1.50
337	562340.40	4206893.00	7.49	1.50
338	562342.89	4206888.86	7.55	1.50
339	562345.39	4206884.72	7.57	1.50
340	562347.88	4206880.58	7.58	1.50
341	562350.38	4206876.43	7.59	1.50
342	562352.87	4206872.29	7.60	1.50
343	562355.37	4206868.15	7.56	1.50
344	562357.86	4206864.01	7.47	1.50
345	562360.36	4206859.87	7.43	1.50
346	562358.88	4206853.07	7.09	1.50
347	562354.92	4206850.42	6.71	1.50
348	562350.95	4206847.76	6.27	1.50
349	562346.99	4206845.11	5.79	1.50
350	562340.37	4206846.37	5.38	1.50
351	562337.72	4206850.29	5.48	1.50
352	562335.07	4206854.21	5.53	1.50
353	562332.42	4206858.12	5.53	1.50
354	562329.77	4206862.04	5.50	1.50
355	562327.12	4206865.96	5.41	1.50
356	562324.48	4206869.88	5.29	1.50
357	562321.83	4206873.80	5.25	1.50
358	562319.18	4206877.72	5.26	1.50
359	562316.53	4206881.64	5.34	1.50
360	562313.88	4206885.55	5.40	1.50
361	562311.23	4206889.47	5.41	1.50
362	562308.58	4206893.39	5.36	1.50
363	562303.47	4206592.57	9.32	1.50
364	562344.28	4206615.31	8.59	1.50
365	562373.32	4206568.00	8.40	1.50
366	562334.13	4206544.65	9.25	1.50
367	562307.55	4206594.84	9.25	1.50
368	562311.63	4206597.12	9.18	1.50
369	562315.71	4206599.39	9.11	1.50
370	562319.79	4206601.67	9.04	1.50
371	562323.88	4206603.94	8.96	1.50
372	562327.96	4206606.21	8.88	1.50

				AERMOD
373	562332.04	4206608.49	8.80	1.50
374	562336.12	4206610.76	8.73	1.50
375	562340.20	4206613.04	8.66	1.50
376	562346.70	4206611.37	8.59	1.50
377	562349.12	4206607.43	8.59	1.50
378	562351.54	4206603.48	8.58	1.50
379	562353.96	4206599.54	8.58	1.50
380	562356.38	4206595.60	8.57	1.50
381	562358.80	4206591.66	8.56	1.50
382	562361.22	4206587.71	8.54	1.50
383	562363.64	4206583.77	8.52	1.50
384	562366.06	4206579.83	8.49	1.50
385	562368.48	4206575.89	8.46	1.50
386	562370.90	4206571.94	8.43	1.50
387	562369.40	4206565.67	8.49	1.50
388	562365.48	4206563.33	8.58	1.50
389	562361.56	4206561.00	8.67	1.50
390	562357.64	4206558.66	8.76	1.50
391	562353.73	4206556.33	8.84	1.50
392	562349.81	4206553.99	8.93	1.50
393	562345.89	4206551.66	9.01	1.50
394	562341.97	4206549.32	9.09	1.50
395	562338.05	4206546.99	9.17	1.50
396	562331.58	4206548.64	9.28	1.50
397	562329.02	4206552.64	9.31	1.50
398	562326.47	4206556.63	9.34	1.50
399	562323.91	4206560.62	9.36	1.50
400	562321.36	4206564.62	9.38	1.50
401	562318.80	4206568.61	9.38	1.50
402	562316.25	4206572.60	9.38	1.50
403	562313.69	4206576.60	9.37	1.50
404	562311.14	4206580.59	9.36	1.50
405	562308.58	4206584.58	9.35	1.50
406	562306.03	4206588.58	9.34	1.50
407	562414.89	4207033.80	7.12	
408	562430.23	4207034.32	8.59	
409	562443.53	4207035.00	10.01	
410	562422.56	4206993.06	8.02	

411	562434.67	4206992.55	9.37	
412	562447.11	4206995.44	10.84	
413	562459.90	4206995.96	12.39	
414	562472.34	4206998.68	13.15	

Plant Boundary Receptors

Receptor Groups

Record Number	Group ID	Group Description
1	FENCEPRI	Cartesian plant boundary Primary Receptors
2	FENCEINT	Cartesian plant boundary Intermediate Receptors
3	Res	
4	School	
5	Daycare	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.01142	ug/m^3	R-1	562293.81	4207045.66	2.33	1.50	2.33	
PERIOD		0.01397	ug/m^3	R-2	562305.03	4207059.24	2.40	1.50	2.40	
PERIOD		0.00580	ug/m^3	R-3	562279.13	4207106.06	2.44	1.50	2.44	
PERIOD		0.00693	ug/m^3	R-4	562296.00	4207111.74	2.39	1.50	2.39	
PERIOD		0.00798	ug/m^3	R-5	562304.79	4207117.42	2.80	1.50	2.80	
PERIOD		0.01269	ug/m^3	R-6	562322.17	4207119.32	3.52	1.50	3.52	
PERIOD		0.01598	ug/m^3	R-7	562333.83	4207123.38	3.89	1.50	3.89	
PERIOD		0.01750	ug/m^3	R-8	562346.05	4207130.57	4.17	1.50	4.17	
PERIOD		0.01983	ug/m^3	R-9	562359.62	4207135.24	4.36	1.50	4.36	
PERIOD		0.02330	ug/m^3	R-10	562372.97	4207141.03	4.53	1.50	4.53	
PERIOD		0.02753	ug/m^3	R-11	562386.19	4207148.75	4.70	1.50	4.70	
PERIOD		0.03406	ug/m^3	R-12	562400.36	4207152.13	4.82	1.50	4.82	
PERIOD		0.03620	ug/m^3	R-13	562410.20	4207156.25	4.91	1.50	30.41	
PERIOD		0.03594	ug/m^3	R-14	562425.95	4207163.76	5.16	1.50	32.38	
PERIOD		0.03468	ug/m^3	R-15	562439.64	4207168.84	5.52	1.50	32.49	
PERIOD		0.02992	ug/m^3	R-16	562448.45	4207177.65	6.40	1.50	32.49	
PERIOD		0.04445	ug/m^3	R-17	562457.39	4207154.50	5.95	1.50	32.49	
PERIOD		0.04616	ug/m^3	R-18	562470.86	4207142.06	6.55	1.50	32.49	
PERIOD		0.04005	ug/m^3	R-19	562483.62	4207129.91	7.26	1.50	32.49	
PERIOD		0.03269	ug/m^3	R-20	562494.77	4207113.09	8.05	1.50	32.49	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.03044	ug/m^3	R-21	562502.01	4207095.70	9.33	1.50	32.49	
PERIOD		0.02613	ug/m^3	R-22	562513.36	4207078.68	10.75	1.50	32.38	
PERIOD		0.01715	ug/m^3	R-23	562522.88	4207065.10	12.32	1.50	31.59	
PERIOD		0.00522	ug/m^3	R-24	562538.46	4207021.31	15.95	1.50	31.53	
PERIOD		0.00473	ug/m^3	R-25	562556.90	4207027.02	17.04	1.50	27.75	
PERIOD		0.00451	ug/m^3	R-26	562572.28	4207035.22	17.67	1.50	30.32	
PERIOD		0.00398	ug/m^3	R-27	562588.97	4207044.15	20.29	1.50	27.75	
PERIOD		0.00327	ug/m^3	R-28	562607.12	4207051.62	24.74	1.50	25.65	
PERIOD		0.00295	ug/m^3	R-29	562625.42	4207064.35	26.31	1.50	26.31	
PERIOD		0.00281	ug/m^3	R-30	562637.06	4207077.67	26.83	1.50	26.83	
PERIOD		0.00262	ug/m^3	R-31	562649.81	4207092.83	27.36	1.50	27.36	
PERIOD		0.00257	ug/m^3	R-32	562656.70	4207112.98	27.08	1.50	27.08	
PERIOD		0.00246	ug/m^3	R-33	562662.56	4207131.75	27.73	1.50	30.36	
PERIOD		0.00249	ug/m^3	R-34	562660.84	4207155.39	28.13	1.50	31.48	
PERIOD		0.00256	ug/m^3	R-35	562656.88	4207175.55	28.69	1.50	31.48	
PERIOD		0.00277	ug/m^3	R-36	562647.75	4207194.67	28.39	1.50	32.38	
PERIOD		0.00299	ug/m^3	R-37	562640.08	4207211.01	27.82	1.50	32.38	
PERIOD		0.00316	ug/m^3	R-38	562633.98	4207228.74	27.25	1.50	32.38	
PERIOD		0.00340	ug/m^3	R-39	562625.49	4207246.31	26.26	1.50	32.37	
PERIOD		0.00771	ug/m^3	R-40	562566.88	4207085.38	14.28	1.50	32.49	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00973	ug/m^3	R-41	562557.55	4207100.07	12.93	1.50	32.49	
PERIOD		0.01160	ug/m^3	R-42	562548.46	4207113.39	12.76	1.50	32.49	
PERIOD		0.01461	ug/m^3	R-43	562533.15	4207129.32	12.53	1.50	32.49	
PERIOD		0.00524	ug/m^3	R-44	562592.52	4207103.18	19.23	1.50	31.64	
PERIOD		0.00442	ug/m^3	R-45	562607.46	4207116.87	20.81	1.50	31.64	
PERIOD		0.00422	ug/m^3	R-46	562611.64	4207140.35	21.80	1.50	32.49	
PERIOD		0.00620	ug/m^3	R-47	562582.97	4207146.17	18.36	1.50	32.49	
PERIOD		0.00430	ug/m^3	R-48	562609.42	4207160.03	22.13	1.50	32.49	
PERIOD		0.00794	ug/m^3	R-49	562564.52	4207164.03	16.81	1.50	32.49	
PERIOD		0.00818	ug/m^3	R-50	562559.40	4207183.06	16.77	1.50	32.49	
PERIOD		0.00652	ug/m^3	R-51	562572.72	4207206.93	18.65	1.50	32.49	
PERIOD		0.00512	ug/m^3	R-52	562591.23	4207215.76	21.15	1.50	32.38	
PERIOD		0.00538	ug/m^3	R-53	562580.09	4207241.29	21.94	1.50	32.37	
PERIOD		0.00536	ug/m^3	R-54	562576.40	4207260.81	21.15	1.50	32.37	
PERIOD		0.00517	ug/m^3	R-55	562577.58	4207278.68	19.68	1.50	32.38	
PERIOD		0.00503	ug/m^3	R-56	562579.59	4207299.32	15.88	1.50	32.39	
PERIOD		0.00476	ug/m^3	R-57	562582.23	4207316.96	14.03	1.50	32.49	
PERIOD		0.01571	ug/m^3	R-58	562524.48	4207146.24	12.34	1.50	32.49	
PERIOD		0.01790	ug/m^3	R-59	562512.14	4207161.68	11.32	1.50	32.49	
PERIOD		0.01883	ug/m^3	R-60	562502.60	4207175.99	10.94	1.50	32.49	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.01944	ug/m^3	R-61	562490.25	4207188.62	11.09	1.50	32.38	
PERIOD		0.01797	ug/m^3	R-62	562479.59	4207204.05	11.34	1.50	32.38	
PERIOD		0.01568	ug/m^3	R-63	562465.56	4207221.02	10.64	1.50	32.38	
PERIOD		0.01507	ug/m^3	R-64	562425.96	4207214.34	5.87	1.50	32.38	
PERIOD		0.01410	ug/m^3	R-65	562412.61	4207209.09	5.16	1.50	32.38	
PERIOD		0.01304	ug/m^3	R-66	562402.35	4207205.04	4.97	1.50	14.10	
PERIOD		0.01174	ug/m^3	R-67	562389.23	4207197.88	4.73	1.50	4.73	
PERIOD		0.00782	ug/m^3	R-68	562357.51	4207185.00	4.28	1.50	4.28	
PERIOD		0.00689	ug/m^3	R-69	562347.73	4207180.94	4.13	1.50	4.13	
PERIOD		0.00579	ug/m^3	R-70	562333.42	4207174.50	3.85	1.50	3.85	
PERIOD		0.00508	ug/m^3	R-71	562319.56	4207165.77	3.47	1.50	3.47	
PERIOD		0.00427	ug/m^3	R-72	562307.80	4207162.73	3.03	1.50	3.03	
PERIOD		0.00380	ug/m^3	R-73	562295.23	4207156.45	2.48	1.50	2.48	
PERIOD		0.00346	ug/m^3	R-74	562281.85	4207150.97	2.35	1.50	2.35	
PERIOD		0.00320	ug/m^3	R-75	562269.68	4207148.13	2.43	1.50	2.43	
PERIOD		0.00313	ug/m^3	R-76	562255.69	4207142.05	2.58	1.50	2.58	
PERIOD		0.00429	ug/m^3	R-77	562230.12	4206977.87	4.33	1.50	40.66	
PERIOD		0.00599	ug/m^3	R-78	562241.11	4206995.30	4.08	1.50	40.66	
PERIOD		0.00605	ug/m^3	R-79	562233.34	4207015.08	4.02	1.50	40.66	
PERIOD		0.00534	ug/m^3	R-80	562216.64	4207027.09	4.14	1.50	40.66	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00502	ug/m^3	R-81	562208.44	4207038.37	4.13	1.50	40.66	
PERIOD		0.00343	ug/m^3	R-82	562211.07	4206975.81	4.60	1.50	40.66	
PERIOD		0.00196	ug/m^3	R-83	562444.86	4206878.58	10.34	1.50	43.84	
PERIOD		0.00195	ug/m^3	R-84	562434.77	4206866.25	9.91	1.50	43.84	
PERIOD		0.00196	ug/m^3	R-85	562423.69	4206856.66	9.42	1.50	43.84	
PERIOD		0.00150	ug/m^3	R-86	562419.10	4206817.49	8.63	1.50	44.03	
PERIOD		0.00184	ug/m^3	R-87	562404.28	4206836.97	8.51	1.50	43.84	
PERIOD		0.00179	ug/m^3	R-88	562395.83	4206830.42	8.11	1.50	43.84	
PERIOD		0.00131	ug/m^3	R-89	562387.09	4206788.03	6.39	1.50	43.84	
PERIOD		0.00150	ug/m^3	R-90	562371.27	4206807.34	5.70	1.50	43.84	
PERIOD		0.00161	ug/m^3	R-91	562366.91	4206816.18	5.86	1.50	34.43	
PERIOD		0.00077	ug/m^3	R-92	562559.49	4206885.66	16.49	1.50	44.57	
PERIOD		0.00078	ug/m^3	R-93	562548.04	4206874.68	14.22	1.50	44.57	
PERIOD		0.00058	ug/m^3	R-94	562626.84	4206905.90	29.57	1.50	31.53	
PERIOD		0.00045	ug/m^3	R-95	562663.83	4206894.92	32.30	1.50	32.30	
PERIOD		0.00058	ug/m^3	R-96	562567.19	4206858.13	16.23	1.50	44.57	
PERIOD		0.00085	ug/m^3	R-97	562521.71	4206853.33	12.07	1.50	44.57	
PERIOD		0.00089	ug/m^3	R-98	562510.24	4206845.68	11.70	1.50	44.57	
PERIOD		0.00015	ug/m^3	LCBMS-1	562103.04	4206790.15	10.69	1.50	50.63	
PERIOD		0.00014	ug/m^3	LCBMS-2	562122.03	4206757.18	6.68	1.50	50.63	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00026	ug/m^3	LCBMS-3	562190.19	4206791.82	6.10	1.50	50.63	
PERIOD		0.00025	ug/m^3	LCBMS-4	562183.24	4206803.74	6.14	1.50	50.63	
PERIOD		0.00103	ug/m^3	LCBMS-5	562279.18	4206860.34	4.74	1.50	40.66	
PERIOD		0.00089	ug/m^3	LCBMS-6	562263.31	4206884.83	4.63	1.50	40.66	
PERIOD		0.00073	ug/m^3	LCBMS-7	562230.89	4206906.39	4.94	1.50	40.66	
PERIOD		0.00072	ug/m^3	LCBMS-8	562192.97	4206912.57	5.30	1.50	40.66	
PERIOD		0.00060	ug/m^3	LCBMS-9	562157.64	4206906.27	5.52	1.50	50.63	
PERIOD		0.00046	ug/m^3	LCBMS-10	562134.18	4206893.22	6.06	1.50	50.63	
PERIOD		0.00025	ug/m^3	LCBMS-11	562174.91	4206820.05	6.14	1.50	50.63	
PERIOD		0.00015	ug/m^3	LCBMS-12	562105.41	4206786.03	9.69	1.50	50.63	
PERIOD		0.00014	ug/m^3	LCBMS-13	562107.79	4206781.91	8.83	1.50	50.63	
PERIOD		0.00014	ug/m^3	LCBMS-14	562110.16	4206777.79	8.11	1.50	50.63	
PERIOD		0.00014	ug/m^3	LCBMS-15	562112.54	4206773.67	7.60	1.50	50.63	
PERIOD		0.00014	ug/m^3	LCBMS-16	562114.91	4206769.54	7.28	1.50	50.63	
PERIOD		0.00014	ug/m^3	LCBMS-17	562117.28	4206765.42	7.03	1.50	50.63	
PERIOD		0.00014	ug/m^3	LCBMS-18	562119.66	4206761.30	6.82	1.50	50.63	
PERIOD		0.00015	ug/m^3	LCBMS-19	562126.29	4206759.35	6.60	1.50	50.63	
PERIOD		0.00015	ug/m^3	LCBMS-20	562130.55	4206761.51	6.57	1.50	50.63	
PERIOD		0.00016	ug/m^3	LCBMS-21	562134.81	4206763.68	6.54	1.50	50.63	
PERIOD		0.00016	ug/m^3	LCBMS-22	562139.07	4206765.84	6.51	1.50	50.63	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00017	ug/m^3	LCBMS-23	562143.33	4206768.01	6.48	1.50	50.63	
PERIOD		0.00017	ug/m^3	LCBMS-24	562147.59	4206770.17	6.44	1.50	50.63	
PERIOD		0.00018	ug/m^3	LCBMS-25	562151.85	4206772.34	6.40	1.50	50.63	
PERIOD		0.00018	ug/m^3	LCBMS-26	562156.11	4206774.50	6.36	1.50	50.63	
PERIOD		0.00019	ug/m^3	LCBMS-27	562160.37	4206776.67	6.32	1.50	50.63	
PERIOD		0.00020	ug/m^3	LCBMS-28	562164.63	4206778.83	6.28	1.50	50.63	
PERIOD		0.00021	ug/m^3	LCBMS-29	562168.89	4206781.00	6.23	1.50	50.63	
PERIOD		0.00022	ug/m^3	LCBMS-30	562173.15	4206783.16	6.19	1.50	50.63	
PERIOD		0.00023	ug/m^3	LCBMS-31	562177.41	4206785.33	6.17	1.50	50.63	
PERIOD		0.00024	ug/m^3	LCBMS-32	562181.67	4206787.49	6.15	1.50	50.63	
PERIOD		0.00025	ug/m^3	LCBMS-33	562185.93	4206789.66	6.12	1.50	50.63	
PERIOD		0.00025	ug/m^3	LCBMS-34	562187.87	4206795.79	6.11	1.50	50.63	
PERIOD		0.00025	ug/m^3	LCBMS-35	562185.56	4206799.77	6.12	1.50	50.63	
PERIOD		0.00026	ug/m^3	LCBMS-36	562187.41	4206806.20	6.11	1.50	50.63	
PERIOD		0.00027	ug/m^3	LCBMS-37	562191.58	4206808.66	6.07	1.50	50.63	
PERIOD		0.00028	ug/m^3	LCBMS-38	562195.75	4206811.12	6.02	1.50	40.66	
PERIOD		0.00030	ug/m^3	LCBMS-39	562199.93	4206813.58	5.98	1.50	40.66	
PERIOD		0.00031	ug/m^3	LCBMS-40	562204.10	4206816.04	5.95	1.50	40.66	
PERIOD		0.00033	ug/m^3	LCBMS-41	562208.27	4206818.51	5.91	1.50	40.66	
PERIOD		0.00035	ug/m^3	LCBMS-42	562212.44	4206820.97	5.88	1.50	40.66	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00037	ug/m^3	LCBMS-43	562216.61	4206823.43	5.85	1.50	40.66	
PERIOD		0.00039	ug/m^3	LCBMS-44	562220.78	4206825.89	5.83	1.50	40.66	
PERIOD		0.00041	ug/m^3	LCBMS-45	562224.95	4206828.35	5.79	1.50	40.66	
PERIOD		0.00044	ug/m^3	LCBMS-46	562229.12	4206830.81	5.76	1.50	40.66	
PERIOD		0.00047	ug/m^3	LCBMS-47	562233.30	4206833.27	5.73	1.50	40.66	
PERIOD		0.00050	ug/m^3	LCBMS-48	562237.47	4206835.73	5.70	1.50	40.66	
PERIOD		0.00053	ug/m^3	LCBMS-49	562241.64	4206838.19	5.67	1.50	40.66	
PERIOD		0.00057	ug/m^3	LCBMS-50	562245.81	4206840.65	5.62	1.50	40.66	
PERIOD		0.00061	ug/m^3	LCBMS-51	562249.98	4206843.11	5.57	1.50	40.66	
PERIOD		0.00066	ug/m^3	LCBMS-52	562254.15	4206845.58	5.51	1.50	40.66	
PERIOD		0.00070	ug/m^3	LCBMS-53	562258.32	4206848.04	5.43	1.50	40.66	
PERIOD		0.00076	ug/m^3	LCBMS-54	562262.49	4206850.50	5.35	1.50	40.66	
PERIOD		0.00082	ug/m^3	LCBMS-55	562266.67	4206852.96	5.25	1.50	40.66	
PERIOD		0.00088	ug/m^3	LCBMS-56	562270.84	4206855.42	5.13	1.50	40.66	
PERIOD		0.00095	ug/m^3	LCBMS-57	562275.01	4206857.88	4.95	1.50	40.66	
PERIOD		0.00101	ug/m^3	LCBMS-58	562276.54	4206864.42	4.72	1.50	40.66	
PERIOD		0.00098	ug/m^3	LCBMS-59	562273.89	4206868.50	4.72	1.50	40.66	
PERIOD		0.00096	ug/m^3	LCBMS-60	562271.25	4206872.59	4.73	1.50	40.66	
PERIOD		0.00094	ug/m^3	LCBMS-61	562268.60	4206876.67	4.71	1.50	40.66	
PERIOD		0.00091	ug/m^3	LCBMS-62	562265.95	4206880.75	4.67	1.50	40.66	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00084	ug/m^3	LCBMS-63	562259.26	4206887.53	4.66	1.50	40.66	
PERIOD		0.00080	ug/m^3	LCBMS-64	562255.20	4206890.22	4.71	1.50	40.66	
PERIOD		0.00077	ug/m^3	LCBMS-65	562251.15	4206892.92	4.76	1.50	40.66	
PERIOD		0.00075	ug/m^3	LCBMS-66	562247.10	4206895.61	4.81	1.50	40.66	
PERIOD		0.00073	ug/m^3	LCBMS-67	562243.05	4206898.31	4.84	1.50	40.66	
PERIOD		0.00072	ug/m^3	LCBMS-68	562239.00	4206901.00	4.86	1.50	40.66	
PERIOD		0.00072	ug/m^3	LCBMS-69	562234.94	4206903.70	4.90	1.50	40.66	
PERIOD		0.00072	ug/m^3	LCBMS-70	562226.15	4206907.16	5.02	1.50	40.66	
PERIOD		0.00071	ug/m^3	LCBMS-71	562221.41	4206907.93	5.10	1.50	40.66	
PERIOD		0.00071	ug/m^3	LCBMS-72	562216.67	4206908.71	5.14	1.50	40.66	
PERIOD		0.00071	ug/m^3	LCBMS-73	562211.93	4206909.48	5.18	1.50	40.66	
PERIOD		0.00071	ug/m^3	LCBMS-74	562207.19	4206910.25	5.21	1.50	40.66	
PERIOD		0.00071	ug/m^3	LCBMS-75	562202.45	4206911.03	5.24	1.50	40.66	
PERIOD		0.00072	ug/m^3	LCBMS-76	562197.71	4206911.80	5.27	1.50	40.66	
PERIOD		0.00070	ug/m^3	LCBMS-77	562188.55	4206911.78	5.32	1.50	40.66	
PERIOD		0.00068	ug/m^3	LCBMS-78	562184.14	4206911.00	5.34	1.50	40.66	
PERIOD		0.00067	ug/m^3	LCBMS-79	562179.72	4206910.21	5.36	1.50	40.66	
PERIOD		0.00065	ug/m^3	LCBMS-80	562175.31	4206909.42	5.38	1.50	40.66	
PERIOD		0.00064	ug/m^3	LCBMS-81	562170.89	4206908.63	5.41	1.50	40.66	
PERIOD		0.00062	ug/m^3	LCBMS-82	562166.47	4206907.85	5.44	1.50	40.66	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00061	ug/m^3	LCBMS-83	562162.06	4206907.06	5.48	1.50	50.63	
PERIOD		0.00057	ug/m^3	LCBMS-84	562153.73	4206904.10	5.57	1.50	50.63	
PERIOD		0.00054	ug/m^3	LCBMS-85	562149.82	4206901.92	5.63	1.50	50.63	
PERIOD		0.00052	ug/m^3	LCBMS-86	562145.91	4206899.75	5.70	1.50	50.63	
PERIOD		0.00050	ug/m^3	LCBMS-87	562142.00	4206897.57	5.82	1.50	50.63	
PERIOD		0.00048	ug/m^3	LCBMS-88	562138.09	4206895.39	5.94	1.50	50.63	
PERIOD		0.00043	ug/m^3	LCBMS-89	562136.58	4206888.92	6.07	1.50	50.63	
PERIOD		0.00040	ug/m^3	LCBMS-90	562138.97	4206884.61	6.08	1.50	50.63	
PERIOD		0.00038	ug/m^3	LCBMS-91	562141.37	4206880.31	6.10	1.50	50.63	
PERIOD		0.00036	ug/m^3	LCBMS-92	562143.76	4206876.00	6.12	1.50	50.63	
PERIOD		0.00034	ug/m^3	LCBMS-93	562146.16	4206871.70	6.14	1.50	50.63	
PERIOD		0.00032	ug/m^3	LCBMS-94	562148.56	4206867.39	6.16	1.50	50.63	
PERIOD		0.00031	ug/m^3	LCBMS-95	562150.95	4206863.09	6.17	1.50	50.63	
PERIOD		0.00029	ug/m^3	LCBMS-96	562153.35	4206858.79	6.18	1.50	50.63	
PERIOD		0.00028	ug/m^3	LCBMS-97	562155.74	4206854.48	6.19	1.50	50.63	
PERIOD		0.00027	ug/m^3	LCBMS-98	562158.14	4206850.18	6.20	1.50	50.63	
PERIOD		0.00027	ug/m^3	LCBMS-99	562160.53	4206845.88	6.20	1.50	50.63	
PERIOD		0.00026	ug/m^3	LCBMS-100	562162.93	4206841.57	6.21	1.50	50.63	
PERIOD		0.00026	ug/m^3	LCBMS-101	562165.33	4206837.27	6.21	1.50	50.63	
PERIOD		0.00025	ug/m^3	LCBMS-102	562167.72	4206832.96	6.19	1.50	50.63	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00025	ug/m^3	LCBMS-103	562170.12	4206828.66	6.16	1.50	50.63	
PERIOD		0.00025	ug/m^3	LCBMS-104	562172.51	4206824.35	6.14	1.50	50.63	
PERIOD		0.00024	ug/m^3	LCBMS-105	562170.42	4206818.18	6.19	1.50	50.63	
PERIOD		0.00023	ug/m^3	LCBMS-106	562165.93	4206816.31	6.27	1.50	50.63	
PERIOD		0.00022	ug/m^3	LCBMS-107	562161.43	4206814.44	6.34	1.50	50.63	
PERIOD		0.00021	ug/m^3	LCBMS-108	562156.94	4206812.58	6.41	1.50	50.63	
PERIOD		0.00021	ug/m^3	LCBMS-109	562152.45	4206810.71	6.48	1.50	50.63	
PERIOD		0.00020	ug/m^3	LCBMS-110	562147.96	4206808.84	6.55	1.50	50.63	
PERIOD		0.00019	ug/m^3	LCBMS-111	562143.47	4206806.97	6.59	1.50	50.63	
PERIOD		0.00019	ug/m^3	LCBMS-112	562138.98	4206805.10	6.62	1.50	50.63	
PERIOD		0.00018	ug/m^3	LCBMS-113	562134.48	4206803.23	6.65	1.50	50.63	
PERIOD		0.00018	ug/m^3	LCBMS-114	562129.99	4206801.36	6.68	1.50	50.63	
PERIOD		0.00017	ug/m^3	LCBMS-115	562125.50	4206799.49	6.71	1.50	50.63	
PERIOD		0.00017	ug/m^3	LCBMS-116	562121.01	4206797.63	7.34	1.50	50.63	
PERIOD		0.00016	ug/m^3	LCBMS-117	562116.52	4206795.76	8.35	1.50	50.63	
PERIOD		0.00015	ug/m^3	LCBMS-118	562112.02	4206793.89	9.25	1.50	50.63	
PERIOD		0.00015	ug/m^3	LCBMS-119	562107.53	4206792.02	10.03	1.50	50.63	
PERIOD		0.00154	ug/m^3	LAFD-1	562242.15	4207189.12	2.45	1.50	2.45	
PERIOD		0.00250	ug/m^3	LAFD-2	562255.39	4207158.50	2.50	1.50	2.50	
PERIOD		0.00253	ug/m^3	LAFD-3	562235.26	4207149.71	2.74	1.50	2.74	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00204	ug/m^3	LAFD-4	562227.31	4207163.59	2.73	1.50	2.73	
PERIOD		0.00173	ug/m^3	LAFD-5	562225.09	4207175.24	2.68	1.50	2.68	
PERIOD		0.00156	ug/m^3	LAFD-6	562229.54	4207184.67	2.58	1.50	2.58	
PERIOD		0.00164	ug/m^3	LAFD-7	562244.04	4207184.75	2.46	1.50	2.46	
PERIOD		0.00176	ug/m^3	LAFD-8	562245.93	4207180.37	2.46	1.50	2.46	
PERIOD		0.00188	ug/m^3	LAFD-9	562247.82	4207176.00	2.47	1.50	2.47	
PERIOD		0.00201	ug/m^3	LAFD-10	562249.72	4207171.62	2.48	1.50	2.48	
PERIOD		0.00216	ug/m^3	LAFD-11	562251.61	4207167.25	2.49	1.50	2.49	
PERIOD		0.00232	ug/m^3	LAFD-12	562253.50	4207162.87	2.50	1.50	2.50	
PERIOD		0.00250	ug/m^3	LAFD-13	562251.36	4207156.74	2.55	1.50	2.55	
PERIOD		0.00250	ug/m^3	LAFD-14	562247.34	4207154.98	2.59	1.50	2.59	
PERIOD		0.00251	ug/m^3	LAFD-15	562243.31	4207153.23	2.64	1.50	2.64	
PERIOD		0.00252	ug/m^3	LAFD-16	562239.29	4207151.47	2.69	1.50	2.69	
PERIOD		0.00239	ug/m^3	LAFD-17	562233.27	4207153.18	2.74	1.50	2.74	
PERIOD		0.00227	ug/m^3	LAFD-18	562231.29	4207156.65	2.74	1.50	2.74	
PERIOD		0.00215	ug/m^3	LAFD-19	562229.30	4207160.12	2.73	1.50	2.73	
PERIOD		0.00193	ug/m^3	LAFD-20	562226.57	4207167.47	2.71	1.50	2.71	
PERIOD		0.00183	ug/m^3	LAFD-21	562225.83	4207171.36	2.70	1.50	2.70	
PERIOD		0.00167	ug/m^3	LAFD-22	562226.57	4207178.38	2.64	1.50	2.64	
PERIOD		0.00161	ug/m^3	LAFD-23	562228.06	4207181.53	2.61	1.50	2.61	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00155	ug/m^3	LAFD-24	562233.74	4207186.15	2.54	1.50	2.54	
PERIOD		0.00154	ug/m^3	LAFD-25	562237.95	4207187.64	2.49	1.50	2.49	
PERIOD		0.00025	ug/m^3	PCP-1	562185.94	4206803.18	6.12	1.50	50.63	
PERIOD		0.00032	ug/m^3	PCP-2	562213.54	4206752.30	6.24	1.50	40.66	
PERIOD		0.00046	ug/m^3	PCP-3	562243.21	4206767.30	6.11	1.50	40.66	
PERIOD		0.00049	ug/m^3	PCP-4	562256.49	4206746.43	6.42	1.50	40.66	
PERIOD		0.00123	ug/m^3	PCP-5	562333.43	4206801.29	4.81	1.50	40.66	
PERIOD		0.00105	ug/m^3	PCP-6	562280.82	4206860.28	4.69	1.50	40.66	
PERIOD		0.00026	ug/m^3	PCP-7	562188.24	4206798.94	6.11	1.50	50.63	
PERIOD		0.00026	ug/m^3	PCP-8	562190.54	4206794.70	6.10	1.50	50.63	
PERIOD		0.00026	ug/m^3	PCP-9	562192.84	4206790.46	6.09	1.50	50.63	
PERIOD		0.00027	ug/m^3	PCP-10	562195.14	4206786.22	6.08	1.50	50.63	
PERIOD		0.00027	ug/m^3	PCP-11	562197.44	4206781.98	6.07	1.50	50.63	
PERIOD		0.00028	ug/m^3	PCP-12	562199.74	4206777.74	6.08	1.50	40.66	
PERIOD		0.00028	ug/m^3	PCP-13	562202.04	4206773.50	6.10	1.50	40.66	
PERIOD		0.00029	ug/m^3	PCP-14	562204.34	4206769.26	6.13	1.50	40.66	
PERIOD		0.00030	ug/m^3	PCP-15	562206.64	4206765.02	6.16	1.50	40.66	
PERIOD		0.00030	ug/m^3	PCP-16	562208.94	4206760.78	6.19	1.50	40.66	
PERIOD		0.00031	ug/m^3	PCP-17	562211.24	4206756.54	6.21	1.50	40.66	
PERIOD		0.00033	ug/m^3	PCP-18	562217.78	4206754.44	6.23	1.50	40.66	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00035	ug/m^3	PCP-19	562222.02	4206756.59	6.22	1.50	40.66	
PERIOD		0.00037	ug/m^3	PCP-20	562226.26	4206758.73	6.20	1.50	40.66	
PERIOD		0.00039	ug/m^3	PCP-21	562230.49	4206760.87	6.19	1.50	40.66	
PERIOD		0.00041	ug/m^3	PCP-22	562234.73	4206763.01	6.16	1.50	40.66	
PERIOD		0.00043	ug/m^3	PCP-23	562238.97	4206765.16	6.14	1.50	40.66	
PERIOD		0.00047	ug/m^3	PCP-24	562245.87	4206763.13	6.16	1.50	40.66	
PERIOD		0.00047	ug/m^3	PCP-25	562248.52	4206758.95	6.22	1.50	40.66	
PERIOD		0.00048	ug/m^3	PCP-26	562251.18	4206754.78	6.28	1.50	40.66	
PERIOD		0.00049	ug/m^3	PCP-27	562253.83	4206750.60	6.35	1.50	40.66	
PERIOD		0.00052	ug/m^3	PCP-28	562260.54	4206749.32	6.39	1.50	40.66	
PERIOD		0.00055	ug/m^3	PCP-29	562264.59	4206752.21	6.36	1.50	40.66	
PERIOD		0.00057	ug/m^3	PCP-30	562268.64	4206755.09	6.33	1.50	40.66	
PERIOD		0.00060	ug/m^3	PCP-31	562272.69	4206757.98	6.30	1.50	40.66	
PERIOD		0.00063	ug/m^3	PCP-32	562276.74	4206760.87	6.27	1.50	40.66	
PERIOD		0.00066	ug/m^3	PCP-33	562280.79	4206763.75	6.24	1.50	40.66	
PERIOD		0.00070	ug/m^3	PCP-34	562284.84	4206766.64	6.20	1.50	40.66	
PERIOD		0.00073	ug/m^3	PCP-35	562288.89	4206769.53	6.17	1.50	40.66	
PERIOD		0.00077	ug/m^3	PCP-36	562292.94	4206772.42	6.14	1.50	40.66	
PERIOD		0.00081	ug/m^3	PCP-37	562296.98	4206775.30	6.10	1.50	40.66	
PERIOD		0.00085	ug/m^3	PCP-38	562301.03	4206778.19	6.04	1.50	40.66	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00089	ug/m^3	PCP-39	562305.08	4206781.08	5.98	1.50	40.66	
PERIOD		0.00093	ug/m^3	PCP-40	562309.13	4206783.97	5.92	1.50	40.66	
PERIOD		0.00098	ug/m^3	PCP-41	562313.18	4206786.85	5.85	1.50	40.66	
PERIOD		0.00103	ug/m^3	PCP-42	562317.23	4206789.74	5.78	1.50	40.66	
PERIOD		0.00108	ug/m^3	PCP-43	562321.28	4206792.63	5.62	1.50	40.66	
PERIOD		0.00113	ug/m^3	PCP-44	562325.33	4206795.51	5.39	1.50	40.66	
PERIOD		0.00118	ug/m^3	PCP-45	562329.38	4206798.40	5.12	1.50	40.66	
PERIOD		0.00124	ug/m^3	PCP-46	562330.14	4206804.98	4.82	1.50	40.66	
PERIOD		0.00125	ug/m^3	PCP-47	562326.85	4206808.66	4.87	1.50	40.66	
PERIOD		0.00125	ug/m^3	PCP-48	562323.57	4206812.35	4.93	1.50	40.66	
PERIOD		0.00126	ug/m^3	PCP-49	562320.28	4206816.04	4.92	1.50	40.66	
PERIOD		0.00125	ug/m^3	PCP-50	562316.99	4206819.72	4.83	1.50	40.66	
PERIOD		0.00125	ug/m^3	PCP-51	562313.70	4206823.41	4.76	1.50	40.66	
PERIOD		0.00124	ug/m^3	PCP-52	562310.41	4206827.10	4.73	1.50	40.66	
PERIOD		0.00123	ug/m^3	PCP-53	562307.13	4206830.79	4.74	1.50	40.66	
PERIOD		0.00122	ug/m^3	PCP-54	562303.84	4206834.47	4.79	1.50	40.66	
PERIOD		0.00121	ug/m^3	PCP-55	562300.55	4206838.16	4.87	1.50	40.66	
PERIOD		0.00119	ug/m^3	PCP-56	562297.26	4206841.85	4.93	1.50	40.66	
PERIOD		0.00117	ug/m^3	PCP-57	562293.97	4206845.53	4.92	1.50	40.66	
PERIOD		0.00114	ug/m^3	PCP-58	562290.68	4206849.22	4.83	1.50	40.66	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00111	ug/m^3	PCP-59	562287.40	4206852.91	4.76	1.50	40.66	
PERIOD		0.00108	ug/m^3	PCP-60	562284.11	4206856.59	4.71	1.50	40.66	
PERIOD		0.00098	ug/m^3	PCP-61	562276.69	4206857.80	4.90	1.50	40.66	
PERIOD		0.00090	ug/m^3	PCP-62	562272.57	4206855.32	5.08	1.50	40.66	
PERIOD		0.00084	ug/m^3	PCP-63	562268.44	4206852.83	5.23	1.50	40.66	
PERIOD		0.00078	ug/m^3	PCP-64	562264.32	4206850.35	5.33	1.50	40.66	
PERIOD		0.00072	ug/m^3	PCP-65	562260.19	4206847.87	5.41	1.50	40.66	
PERIOD		0.00067	ug/m^3	PCP-66	562256.07	4206845.38	5.49	1.50	40.66	
PERIOD		0.00063	ug/m^3	PCP-67	562251.94	4206842.90	5.56	1.50	40.66	
PERIOD		0.00059	ug/m^3	PCP-68	562247.82	4206840.42	5.61	1.50	40.66	
PERIOD		0.00055	ug/m^3	PCP-69	562243.69	4206837.94	5.66	1.50	40.66	
PERIOD		0.00051	ug/m^3	PCP-70	562239.57	4206835.45	5.69	1.50	40.66	
PERIOD		0.00048	ug/m^3	PCP-71	562235.44	4206832.97	5.72	1.50	40.66	
PERIOD		0.00045	ug/m^3	PCP-72	562231.32	4206830.49	5.75	1.50	40.66	
PERIOD		0.00043	ug/m^3	PCP-73	562227.19	4206828.01	5.78	1.50	40.66	
PERIOD		0.00040	ug/m^3	PCP-74	562223.07	4206825.52	5.82	1.50	40.66	
PERIOD		0.00038	ug/m^3	PCP-75	562218.94	4206823.04	5.85	1.50	40.66	
PERIOD		0.00036	ug/m^3	PCP-76	562214.82	4206820.56	5.87	1.50	40.66	
PERIOD		0.00034	ug/m^3	PCP-77	562210.69	4206818.08	5.91	1.50	40.66	
PERIOD		0.00032	ug/m^3	PCP-78	562206.57	4206815.59	5.94	1.50	40.66	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00031	ug/m^3	PCP-79	562202.44	4206813.11	5.97	1.50	40.66	
PERIOD		0.00029	ug/m^3	PCP-80	562198.32	4206810.63	6.01	1.50	40.66	
PERIOD		0.00028	ug/m^3	PCP-81	562194.19	4206808.14	6.05	1.50	40.66	
PERIOD		0.00027	ug/m^3	PCP-82	562190.07	4206805.66	6.09	1.50	50.63	
PERIOD		0.00220	ug/m^3	PSC-1	562305.93	4206897.31	5.25	1.50	40.66	
PERIOD		0.00364	ug/m^3	PSC-2	562330.42	4206909.56	7.31	1.50	7.31	
PERIOD		0.00227	ug/m^3	PSC-3	562362.85	4206855.73	7.44	1.50	7.44	
PERIOD		0.00185	ug/m^3	PSC-4	562343.02	4206842.45	5.25	1.50	32.90	
PERIOD		0.00244	ug/m^3	PSC-5	562310.01	4206899.35	5.80	1.50	6.76	
PERIOD		0.00267	ug/m^3	PSC-6	562314.09	4206901.39	6.34	1.50	6.76	
PERIOD		0.00290	ug/m^3	PSC-7	562318.18	4206903.43	6.82	1.50	6.82	
PERIOD		0.00314	ug/m^3	PSC-8	562322.26	4206905.48	7.00	1.50	7.00	
PERIOD		0.00339	ug/m^3	PSC-9	562326.34	4206907.52	7.16	1.50	7.16	
PERIOD		0.00350	ug/m^3	PSC-10	562332.91	4206905.42	7.36	1.50	7.36	
PERIOD		0.00336	ug/m^3	PSC-11	562335.41	4206901.28	7.44	1.50	7.44	
PERIOD		0.00324	ug/m^3	PSC-12	562337.90	4206897.14	7.45	1.50	7.45	
PERIOD		0.00313	ug/m^3	PSC-13	562340.40	4206893.00	7.49	1.50	7.49	
PERIOD		0.00301	ug/m^3	PSC-14	562342.89	4206888.86	7.55	1.50	7.55	
PERIOD		0.00291	ug/m^3	PSC-15	562345.39	4206884.72	7.57	1.50	7.57	
PERIOD		0.00281	ug/m^3	PSC-16	562347.88	4206880.58	7.58	1.50	7.58	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00271	ug/m^3	PSC-17	562350.38	4206876.43	7.59	1.50	7.59	
PERIOD		0.00262	ug/m^3	PSC-18	562352.87	4206872.29	7.60	1.50	7.60	
PERIOD		0.00253	ug/m^3	PSC-19	562355.37	4206868.15	7.56	1.50	7.56	
PERIOD		0.00244	ug/m^3	PSC-20	562357.86	4206864.01	7.47	1.50	7.47	
PERIOD		0.00236	ug/m^3	PSC-21	562360.36	4206859.87	7.43	1.50	7.43	
PERIOD		0.00220	ug/m^3	PSC-22	562358.88	4206853.07	7.09	1.50	7.09	
PERIOD		0.00212	ug/m^3	PSC-23	562354.92	4206850.42	6.71	1.50	6.71	
PERIOD		0.00204	ug/m^3	PSC-24	562350.95	4206847.76	6.27	1.50	6.27	
PERIOD		0.00195	ug/m^3	PSC-25	562346.99	4206845.11	5.79	1.50	5.79	
PERIOD		0.00189	ug/m^3	PSC-26	562340.37	4206846.37	5.38	1.50	5.38	
PERIOD		0.00193	ug/m^3	PSC-27	562337.72	4206850.29	5.48	1.50	5.48	
PERIOD		0.00197	ug/m^3	PSC-28	562335.07	4206854.21	5.53	1.50	7.27	
PERIOD		0.00201	ug/m^3	PSC-29	562332.42	4206858.12	5.53	1.50	7.27	
PERIOD		0.00204	ug/m^3	PSC-30	562329.77	4206862.04	5.50	1.50	7.27	
PERIOD		0.00207	ug/m^3	PSC-31	562327.12	4206865.96	5.41	1.50	7.27	
PERIOD		0.00209	ug/m^3	PSC-32	562324.48	4206869.88	5.29	1.50	7.27	
PERIOD		0.00212	ug/m^3	PSC-33	562321.83	4206873.80	5.25	1.50	5.25	
PERIOD		0.00214	ug/m^3	PSC-34	562319.18	4206877.72	5.26	1.50	5.26	
PERIOD		0.00217	ug/m^3	PSC-35	562316.53	4206881.64	5.34	1.50	5.34	
PERIOD		0.00219	ug/m^3	PSC-36	562313.88	4206885.55	5.40	1.50	5.40	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00220	ug/m^3	PSC-37	562311.23	4206889.47	5.41	1.50	6.76	
PERIOD		0.00220	ug/m^3	PSC-38	562308.58	4206893.39	5.36	1.50	40.66	
PERIOD		0.00037	ug/m^3	SJC-1	562303.47	4206592.57	9.32	1.50	82.06	
PERIOD		0.00045	ug/m^3	SJC-2	562344.28	4206615.31	8.59	1.50	39.11	
PERIOD		0.00039	ug/m^3	SJC-3	562373.32	4206568.00	8.40	1.50	86.08	
PERIOD		0.00033	ug/m^3	SJC-4	562334.13	4206544.65	9.25	1.50	93.89	
PERIOD		0.00037	ug/m^3	SJC-5	562307.55	4206594.84	9.25	1.50	82.06	
PERIOD		0.00038	ug/m^3	SJC-6	562311.63	4206597.12	9.18	1.50	82.06	
PERIOD		0.00039	ug/m^3	SJC-7	562315.71	4206599.39	9.11	1.50	38.28	
PERIOD		0.00040	ug/m^3	SJC-8	562319.79	4206601.67	9.04	1.50	9.04	
PERIOD		0.00041	ug/m^3	SJC-9	562323.88	4206603.94	8.96	1.50	8.96	
PERIOD		0.00041	ug/m^3	SJC-10	562327.96	4206606.21	8.88	1.50	8.88	
PERIOD		0.00042	ug/m^3	SJC-11	562332.04	4206608.49	8.80	1.50	37.69	
PERIOD		0.00043	ug/m^3	SJC-12	562336.12	4206610.76	8.73	1.50	37.69	
PERIOD		0.00044	ug/m^3	SJC-13	562340.20	4206613.04	8.66	1.50	39.11	
PERIOD		0.00044	ug/m^3	SJC-14	562346.70	4206611.37	8.59	1.50	39.11	
PERIOD		0.00044	ug/m^3	SJC-15	562349.12	4206607.43	8.59	1.50	39.11	
PERIOD		0.00043	ug/m^3	SJC-16	562351.54	4206603.48	8.58	1.50	39.99	
PERIOD		0.00043	ug/m^3	SJC-17	562353.96	4206599.54	8.58	1.50	39.99	
PERIOD		0.00042	ug/m^3	SJC-18	562356.38	4206595.60	8.57	1.50	39.99	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00042	ug/m^3	SJC-19	562358.80	4206591.66	8.56	1.50	82.06	
PERIOD		0.00041	ug/m^3	SJC-20	562361.22	4206587.71	8.54	1.50	82.06	
PERIOD		0.00041	ug/m^3	SJC-21	562363.64	4206583.77	8.52	1.50	82.06	
PERIOD		0.00040	ug/m^3	SJC-22	562366.06	4206579.83	8.49	1.50	82.06	
PERIOD		0.00040	ug/m^3	SJC-23	562368.48	4206575.89	8.46	1.50	82.06	
PERIOD		0.00039	ug/m^3	SJC-24	562370.90	4206571.94	8.43	1.50	86.08	
PERIOD		0.00038	ug/m^3	SJC-25	562369.40	4206565.67	8.49	1.50	93.89	
PERIOD		0.00038	ug/m^3	SJC-26	562365.48	4206563.33	8.58	1.50	93.89	
PERIOD		0.00037	ug/m^3	SJC-27	562361.56	4206561.00	8.67	1.50	93.89	
PERIOD		0.00036	ug/m^3	SJC-28	562357.64	4206558.66	8.76	1.50	93.89	
PERIOD		0.00036	ug/m^3	SJC-29	562353.73	4206556.33	8.84	1.50	93.89	
PERIOD		0.00035	ug/m^3	SJC-30	562349.81	4206553.99	8.93	1.50	93.89	
PERIOD		0.00035	ug/m^3	SJC-31	562345.89	4206551.66	9.01	1.50	93.89	
PERIOD		0.00034	ug/m^3	SJC-32	562341.97	4206549.32	9.09	1.50	93.89	
PERIOD		0.00034	ug/m^3	SJC-33	562338.05	4206546.99	9.17	1.50	93.89	
PERIOD		0.00033	ug/m^3	SJC-34	562331.57	4206548.64	9.28	1.50	93.89	
PERIOD		0.00034	ug/m^3	SJC-35	562329.02	4206552.64	9.31	1.50	93.89	
PERIOD		0.00034	ug/m^3	SJC-36	562326.46	4206556.63	9.34	1.50	93.89	
PERIOD		0.00034	ug/m^3	SJC-37	562323.91	4206560.62	9.36	1.50	93.89	
PERIOD		0.00035	ug/m^3	SJC-38	562321.36	4206564.62	9.38	1.50	93.89	

Sensitive Receptor Summary

21180006 Skelly Residential Project
Phases 2 thru 5 Development

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00035	ug/m^3	SJC-39	562318.80	4206568.61	9.38	1.50	86.08	
PERIOD		0.00035	ug/m^3	SJC-40	562316.25	4206572.60	9.38	1.50	86.08	
PERIOD		0.00036	ug/m^3	SJC-41	562313.69	4206576.60	9.37	1.50	82.06	
PERIOD		0.00036	ug/m^3	SJC-42	562311.14	4206580.59	9.36	1.50	82.06	
PERIOD		0.00036	ug/m^3	SJC-43	562308.58	4206584.58	9.35	1.50	82.06	
PERIOD		0.00036	ug/m^3	SJC-44	562306.03	4206588.58	9.34	1.50	82.06	
PERIOD		0.06321	ug/m^3	OSR-1	562414.89	4207033.80	7.12	1.50	12.72	
PERIOD		0.04281	ug/m^3	OSR-2	562430.23	4207034.32	8.59	1.50	12.72	
PERIOD		0.03053	ug/m^3	OSR-3	562443.53	4207035.00	10.01	1.50	12.72	
PERIOD		0.04030	ug/m^3	OSR-4	562422.56	4206993.06	8.02	1.50	31.53	
PERIOD		0.02335	ug/m^3	OSR-5	562434.67	4206992.55	9.37	1.50	31.53	
PERIOD		0.01584	ug/m^3	OSR-6	562447.11	4206995.44	10.84	1.50	12.82	
PERIOD		0.01160	ug/m^3	OSR-7	562459.90	4206995.96	12.39	1.50	12.82	
PERIOD		0.00972	ug/m^3	OSR-8	562472.34	4206998.68	13.15	1.50	13.15	

Source Pathway - Source Inputs

AERMOD

Source Pathway - Source Inputs

Polygon Area Sources

Source Type: AREA POLY

Source: PROJECTSITE (Project Site - Site-wide Grading and Site Prep)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
2.68	3.33	0.00E+0		30	562307.78	4207095.31
		0.00E+0			562401.56	4207132.77
		0.00E+0			562453.03	4207129.99
		0.00E+0			562505.54	4207055.79
		0.00E+0			562517.03	4207028.39
		0.00E+0			562508.70	4207024.88
		0.00E+0			562519.86	4206999.03
		0.00E+0			562499.01	4206995.31
		0.00E+0			562506.66	4206980.22
		0.00E+0			562535.68	4206985.46
		0.00E+0			562541.19	4206973.55
		0.00E+0			562503.86	4206966.91
		0.00E+0			562470.86	4206962.00
		0.00E+0			562439.86	4206958.31
		0.00E+0			562438.77	4206965.91
		0.00E+0			562414.78	4206963.74
		0.00E+0			562400.21	4206962.53
		0.00E+0			562382.09	4206961.48
		0.00E+0			562365.63	4206960.70
		0.00E+0			562350.20	4206960.14
		0.00E+0			562331.99	4206959.79
		0.00E+0			562315.36	4206959.79
		0.00E+0			562301.59	4206959.85
		0.00E+0			562301.64	4206961.66
		0.00E+0			562297.63	4206961.82
		0.00E+0			562297.79	4206967.98
		0.00E+0			562297.77	4206972.16
		0.00E+0			562297.72	4206978.09
		0.00E+0			562297.24	4206985.48
		0.00E+0			562318.71	4207052.95

Source Pathway - Source Inputs

AERMOD

Source Type: AREA POLY

Source: PROJECTSITE (Project Site - Site-wide Grading and Site Prep)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]

Source Pathway - Source Inputs

Source Type: AREA POLY

Source: PH.2.TO.5 (Phases 2 through 5 Construction after intro of new receptors)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
7.25	3.33	2.47E-8		26	562415.03	4207004.73
		2.47E-8			562407.75	4207018.64
		2.47E-8			562407.91	4207048.34
		2.47E-8			562449.62	4207052.40
		2.47E-8			562475.22	4207030.41
		2.47E-8			562480.63	4207027.82
		2.47E-8			562509.69	4207039.22
		2.47E-8			562503.69	4207053.03
		2.47E-8			562490.40	4207071.68
		2.47E-8			562464.02	4207055.26
		2.47E-8			562449.38	4207076.28
		2.47E-8			562473.94	4207094.89
		2.47E-8			562450.29	4207128.52
		2.47E-8			562403.09	4207130.91
		2.47E-8			562366.48	4207116.77
		2.47E-8			562378.74	4207084.55
		2.47E-8			562354.85	4207073.66
		2.47E-8			562349.17	4207064.28
		2.47E-8			562311.06	4207083.97
		2.47E-8			562319.40	4207051.98
		2.47E-8			562297.77	4206985.64
		2.47E-8			562298.03	4206961.26
		2.47E-8			562302.32	4206961.22
		2.47E-8			562302.19	4206959.68
		2.47E-8			562354.11	4206960.33
		2.47E-8			562418.58	4206963.43

Source Pathway - Source Inputs

Line Volume Sources

Source Type: LINE VOLUME

Source: SKELLYRD (Skelly Road - Off-Site Emissions)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
12.00	1.17E-7		562513.83	4207036.73	14.75	3.12
			562561.10	4207060.25	13.15	3.12
			562596.00	4207075.54	19.76	3.12
			562619.04	4207096.26	24.67	3.12
			562634.60	4207128.45	24.74	3.12
			562635.36	4207150.41	24.65	3.12
			562629.93	4207172.50	22.40	3.12
			562606.40	4207228.76	24.45	3.12
			562603.93	4207236.59	24.54	3.12
			562601.14	4207256.12	23.24	3.12
			562600.97	4207279.44	22.11	3.12
			562605.24	4207329.80	14.50	3.12

Source Pathway - Source Inputs

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SKELLYRD	L0000001	562519.20	4207039.40	14.38	3.12	3.91E-9	12.00		5.58	2.90
	L0000002	562529.94	4207044.75	13.99	3.12	3.91E-9	12.00		5.58	2.90
	L0000003	562540.69	4207050.09	13.52	3.12	3.91E-9	12.00		5.58	2.90
	L0000004	562551.43	4207055.44	13.04	3.12	3.91E-9	12.00		5.58	2.90
	L0000005	562562.20	4207060.73	13.44	3.12	3.91E-9	12.00		5.58	2.90
	L0000006	562573.19	4207065.55	16.14	3.12	3.91E-9	12.00		5.58	2.90
	L0000007	562584.18	4207070.36	18.68	3.12	3.91E-9	12.00		5.58	2.90
	L0000008	562595.17	4207075.18	21.29	3.12	3.91E-9	12.00		5.58	2.90
	L0000009	562604.25	4207082.96	23.30	3.12	3.91E-9	12.00		5.58	2.90
	L0000010	562613.17	4207090.99	24.36	3.12	3.91E-9	12.00		5.58	2.90
	L0000011	562620.83	4207099.96	24.34	3.12	3.91E-9	12.00		5.58	2.90
	L0000012	562626.05	4207110.77	24.17	3.12	3.91E-9	12.00		5.58	2.90
	L0000013	562631.28	4207121.57	24.46	3.12	3.91E-9	12.00		5.58	2.90
	L0000014	562634.75	4207132.80	24.88	3.12	3.91E-9	12.00		5.58	2.90
	L0000015	562635.17	4207144.80	24.90	3.12	3.91E-9	12.00		5.58	2.90
	L0000016	562633.84	4207156.61	25.09	3.12	3.91E-9	12.00		5.58	2.90
	L0000017	562630.98	4207168.26	25.28	3.12	3.91E-9	12.00		5.58	2.90
	L0000018	562626.99	4207179.55	25.27	3.12	3.91E-9	12.00		5.58	2.90
	L0000019	562622.36	4207190.62	24.90	3.12	3.91E-9	12.00		5.58	2.90
	L0000020	562617.73	4207201.69	24.54	3.12	3.91E-9	12.00		5.58	2.90
	L0000021	562613.10	4207212.76	24.24	3.12	3.91E-9	12.00		5.58	2.90
	L0000022	562608.46	4207223.83	24.08	3.12	3.91E-9	12.00		5.58	2.90
	L0000023	562604.40	4207235.11	24.05	3.12	3.91E-9	12.00		5.58	2.90
	L0000024	562602.46	4207246.93	23.88	3.12	3.91E-9	12.00		5.58	2.90

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SKELLYRD	L0000025	562601.12	4207258.84	23.18	3.12	3.91E-9	12.00		5.58	2.90
	L0000026	562601.04	4207270.83	22.59	3.12	3.91E-9	12.00		5.58	2.90
	L0000027	562601.26	4207282.82	20.26	3.12	3.91E-9	12.00		5.58	2.90
	L0000028	562602.27	4207294.78	17.73	3.12	3.91E-9	12.00		5.58	2.90
	L0000029	562603.29	4207306.74	15.73	3.12	3.91E-9	12.00		5.58	2.90
	L0000030	562604.30	4207318.69	15.10	3.12	3.91E-9	12.00		5.58	2.90

Skelly Residential Project Energy Use Summary

Summary of Energy Use During Construction		(Annually)
Construction vehicle fuel	8,254	gallons (gasoline, diesel)
Construction equipment fuel	24,300	gallons (diesel)
Total construction fuel	32,555	gallons (gasoline, diesel)
Construction office electricity	6,555	kilowatt hours

Summary of Energy Use During Operations		(Annually)
Operation vehicle fuel	29,686	gallons (gasoline, diesel)
Operation natural gas	1,540,000	kilo-British Thermal Units
Operation electricity	256,033	kilowatt hours

Skelly Residential Project Construction Assumptions

CalEEMod output file: Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annua

Time stamp: Date: 4/7/2022 9:17 AM

On-Site Construction

Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days
Demolition	Demolition	10/11/2023	2/1/2024	5	82
Site Preparation (site-wide)	Site preparation	10/11/2023	2/1/2024	5	82
Grading (site-wide)	Grading	10/11/2023	12/6/2023	5	41
Paving (roadways and foundations)	Paving	12/1/2023	2/1/2024	5	45
Building Construction (Model Homes)	Building Construction	1/19/2024	2/1/2024	5	10
Architectural Coating (pavement and model homes)	Architectural Coating	1/19/2024	2/1/2024	5	10
Building Construction (Pre receptors)	Building Construction	2/2/2024	6/5/2024	5	89
Architectural Coating (Pre receptors)	Architectural Coating	2/16/2024	6/5/2024	5	79
Building Construction (post receptors)	Building Construction	6/6/2024	10/30/2024	5	105
Architectural Coating (post receptors)	Architectural Coating	6/6/2024	10/30/2024	5	105
				Total Workdays	**648**

Off-Road Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	1	8	158	0.38
Site Preparation (site-wide)	Tractors/Loaders/Backhoes	1	8	97	0.37
Grading (site-wide)	Graders	1	8	187	0.41
Grading (site-wide)	Rubber Tired Dozers	1	8	247	0.4
Grading (site-wide)	Tractors/Loaders/Backhoes	1	8	97	0.37
Paving (roadways and foundations)	Pavers	1	8	130	0.42
Paving (roadways and foundations)	Paving Equipment	1	8	132	0.36
Paving (roadways and foundations)	Rollers	1	7	80	0.38
Building Construction (Model Homes)	Tractors/Loaders/Backhoes	1	7	97	0.37
Building Construction (Model Homes)	Cranes	1	7	97	0.37
Building Construction (Model Homes)	Forklifts	1	8	130	0.42
Building Construction (Model Homes)	Generator Sets	1	8	132	0.36
Building Construction (Model Homes)	Tractors/Loaders/Backhoes	1	7	80	0.38
Architectural Coating (pavement and model homes)	Air Compressors	1	6	78	0.48
Building Construction (Pre receptors)	Cranes	1	7	97	0.37
Building Construction (Pre receptors)	Forklifts	1	8	130	0.42
Building Construction (Pre receptors)	Generator Sets	1	8	132	0.36
Building Construction (Pre receptors)	Tractors/Loaders/Backhoes	1	7	80	0.38
Architectural Coating (Pre receptors)	Air Compressors	1	6	78	0.48

Building Construction (post receptors)	Cranes	1	7	97	0.37
Building Construction (post receptors)	Forklifts	1	8	130	0.42
Building Construction (post receptors)	Generator Sets	1	8	132	0.36
Building Construction (post receptors)	Tractors/Loaders/Backhoes	1	7	80	0.38
Architectural Coating (post receptors)	Air Compressors	1	6	78	0.48

Trips and VMT

Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length
Demolition	5	0	224	10.8	7.3	20
Site Preparation (site-wide)	3	0	0	10.8	7.3	20
Grading (site-wide)	8	0	0	10.8	7.3	20
Paving (roadways and foundations)	8	0	0	10.8	7.3	20
Building Construction (Model Homes)	52	19	0	10.8	7.3	20
Architectural Coating (pavement and model homes)	10	0	0	10.8	7.3	20
Building Construction (Pre receptors)	52	19	0	10.8	7.3	20
Architectural Coating (Pre receptors)	10	0	0	10.8	7.3	20
Building Construction (post receptors)	52	19	0	10.8	7.3	20
Architectural Coating (post receptors)	10	0	0	10.8	7.3	20

Construction Vehicle Fuel Calculations

California Air Resource Board (ARB). 2022. EMFAC2017 Web Database. Website: https://arb.ca.gov/emfac/emissions-inventory/9d80a196ff7175eb01f2161f39e572013131647b. Accessed April 12, 2022

VMT = Vehicle Miles Traveled
FE = Fuel Economy

Source: EMFAC2017 (v1.0.3) Emissions Inventory
Region Type: County
Region: Contra Costa
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

										Calculations	
Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT (mi/day)	Trips	Fuel_Consumption (1000 gallons/day)	FE (mi/gallon)	VMT*FE
CONTRA COSTA	2023	HHDT	Aggregate	Aggregate	Gasoline	2.5538992	326.0302982	51.09842	0.073466	4.437855443	1446.875334
CONTRA COSTA	2023	HHDT	Aggregate	Aggregate	Diesel	5197.8222	628100.9399	54490.17	92.41798	6.79630661	4268766.57
CONTRA COSTA	2023	LDA	Aggregate	Aggregate	Gasoline	415473.55	15421746.18	1949195	469.7434	32.83014843	506298216.1
CONTRA COSTA	2023	LDA	Aggregate	Aggregate	Diesel	4583.4538	173065.8983	21477.78	3.441231	50.29185725	8703805.451
CONTRA COSTA	2023	LDT1	Aggregate	Aggregate	Gasoline	42903.228	1560070.346	196335.5	55.8014	27.9575489	43615742.98
CONTRA COSTA	2023	LDT1	Aggregate	Aggregate	Diesel	23.39799	398.9985164	77.63046	0.016483	24.20605452	9658.179843
CONTRA COSTA	2023	LDT2	Aggregate	Aggregate	Gasoline	136800.1	5101359.876	635180.3	196.0618	26.01914803	132733037.7
CONTRA COSTA	2023	LDT2	Aggregate	Aggregate	Diesel	961.6321	40776.24302	4679.641	1.10959	36.748913	1498482.607
CONTRA COSTA	2023	LHDT1	Aggregate	Aggregate	Gasoline	10141.215	353591.6844	151089	41.71301	8.476772663	2997316.324
CONTRA COSTA	2023	LHDT1	Aggregate	Aggregate	Diesel	8597.3408	314852.4382	108143.7	17.12671	18.38370707	5788154.995
CONTRA COSTA	2023	LHDT2	Aggregate	Aggregate	Gasoline	1267.0063	45469.50058	18876.51	6.08917	7.467273689	339533.2054
CONTRA COSTA	2023	LHDT2	Aggregate	Aggregate	Diesel	2958.1461	110401.0059	37209.76	6.718772	16.43172465	1814078.93
CONTRA COSTA	2023	MHDT	Aggregate	Aggregate	Gasoline	807.40555	45803.81966	16154.57	9.192351	4.982818755	228232.1317
CONTRA COSTA	2023	MHDT	Aggregate	Aggregate	Diesel	4601.6248	262908.2893	43927.33	26.81733	9.803671632	2577466.537

Worker

Sum of VMT*FE (Column BI)	**692858943**
Total VMT	**22297417.54**
Weighted Average FE	**31.07350624**

Vendor

Sum of VMT*FE (Column BI)	**18014995.57**
Total VMT	**1761453.708**
Weighted Average FE	**10.22734545**

Haul

Sum of VMT*FE (Column BI)	**4270213.445**
Total VMT	**628426.9702**
Weighted Average FE	**6.795083037**

Skelly Residential Project Construction Assumptions

On-site Construction

Source: AQ/GHG Appendix, CalEEMod Output
Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual Date: 4/12/2022 1:32 PM
Skelly Rd Construction (After New Receptors) - Contra Costa County, Annual Date: 4/12/2022 1:35 PM

Construction Schedule	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days
	Demolition	Demolition	10/11/2023	2/1/2024	5	82
	Site Preparation (site-wide)	Site preparation	10/11/2023	2/1/2024	5	82
	Grading (site-wide)	Grading	10/11/2023	12/6/2023	5	41
	Paving (roadways and foundations)	Paving	12/1/2023	2/1/2024	5	45
	Building Construction (Model Homes)	Building Construction	1/19/2024	2/1/2024	5	10
	Architectural Coating (pavement and model homes)	Architectural Coating	1/19/2024	2/1/2024	5	10
	Building Construction (Pre receptors)	Building Construction	2/2/2024	6/5/2024	5	89
	Architectural Coating (Pre receptors)	Architectural Coating	2/16/2024	6/5/2024	5	79
	Building Construction (post receptors)	Building Construction	6/6/2024	10/30/2024	5	105
	Architectural Coating (post receptors)	Architectural Coating	6/6/2024	10/30/2024	5	105

Trips and VMT

Phase Name	Trips per Day	Total Trips							Trips per Phase			VMT per Phase			Fuel Consumption (gallons)		
	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Vendor Vel	Num Days	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trips	Vendor Trips	Hauling Trips	Worker Trips	Vendor Trips	Hauling Trips
Demolition	5	0	224	10.8	7.3	20	HDT_Mix	82	410	0	224	4,428	0	4,480	142.50	0.00	659.30
Site Preparation (site-wide)	3	0	0	10.8	7.3	20	HDT_Mix	82	246	0	0	2,657	0	0	85.50	0.00	0.00
Grading (site-wide)	8	0	0	10.8	7.3	20	HDT_Mix	41	328	0	0	3,542	0	0	114.00	0.00	0.00
Paving (roadways and foundations)	8	0	0	10.8	7.3	20	HDT_Mix	45	360	0	0	3,888	0	0	125.12	0.00	0.00
Building Construction (Model Homes)	52	19	0	10.8	7.3	20	HDT_Mix	10	520	190	0	5,616	1,387	0	180.73	135.62	0.00
Architectural Coating (pavement and model homes)	10	0	0	10.8	7.3	20	HDT_Mix	10	100	0	0	1,080	0	0	34.76	0.00	0.00
Building Construction (Pre receptors)	52	19	0	10.8	7.3	20	HDT_Mix	89	4,628	1,691	0	49,982	12,344	0	1,608.52	1,206.99	0.00
Architectural Coating (Pre receptors)	10	0	0	10.8	7.3	20	HDT_Mix	79	790	0	0	8,532	0	0	274.57	0.00	0.00
Building Construction (post receptors)	52	19	0	10.8	7.3	20	HDT_Mix	105	5,460	1,995	0	58,968	14,564	0	1,897.69	1,423.98	0.00
Architectural Coating (post receptors)	10	0	0	10.8	7.3	20	HDT_Mix	105	1,050	0	0	11,340	0	0	364.94	0.00	0.00

On-site Total Construction VMT (miles)
182,808

On-Site Total Fuel Consumption (gallons)
8,254

Construction Vehicle Fuel Calculations

California Air Resource Board (ARB). 2022. EMFAC2017 Web Database. Website: https://arb.ca.gov/emfac/emissions-inventory/9d80a196ff7175eb01f2161f39e572013131647b. Accessed April 12, 2022

VMT = Vehicle Miles Traveled
FE = Fuel Economy

Source: EMFAC2017 (v1.0.3) Emissions Inventory
Region Type: County
Region: Contra Costa
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

										Calculations	
Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT (mi/day)	Trips	Fuel_Consumption (1000 gallons/day)	FE (mi/gallon)	VMT*FE
CONTRA COSTA	2023	HHDT	Aggregate	Aggregate	Gasoline	2.5538992	326.0302982	51.09842	0.073466	4.437855443	1446.875334
CONTRA COSTA	2023	HHDT	Aggregate	Aggregate	Diesel	5197.8222	628100.9399	54490.17	92.41798	6.79630661	4268766.57
CONTRA COSTA	2023	LDA	Aggregate	Aggregate	Gasoline	415473.55	15421746.18	1949195	469.7434	32.83014843	506298216.1
CONTRA COSTA	2023	LDA	Aggregate	Aggregate	Diesel	4583.4538	173065.8983	21477.78	3.441231	50.29185725	8703805.451
CONTRA COSTA	2023	LDT1	Aggregate	Aggregate	Gasoline	42903.228	1560070.346	196335.5	55.8014	27.9575489	43615742.98
CONTRA COSTA	2023	LDT1	Aggregate	Aggregate	Diesel	23.39799	398.9985164	77.63046	0.016483	24.20605452	9658.179843
CONTRA COSTA	2023	LDT2	Aggregate	Aggregate	Gasoline	136800.1	5101359.876	635180.3	196.0618	26.01914803	132733037.7
CONTRA COSTA	2023	LDT2	Aggregate	Aggregate	Diesel	961.6321	40776.24302	4679.641	1.10959	36.748913	1498482.607
CONTRA COSTA	2023	LHDT1	Aggregate	Aggregate	Gasoline	10141.215	353591.6844	151089	41.71301	8.476772663	2997316.324
CONTRA COSTA	2023	LHDT1	Aggregate	Aggregate	Diesel	8597.3408	314852.4382	108143.7	17.12671	18.38370707	5788154.995
CONTRA COSTA	2023	LHDT2	Aggregate	Aggregate	Gasoline	1267.0063	45469.50058	18876.51	6.08917	7.467273689	339533.2054
CONTRA COSTA	2023	LHDT2	Aggregate	Aggregate	Diesel	2958.1461	110401.0059	37209.76	6.718772	16.43172465	1814078.93
CONTRA COSTA	2023	MHDT	Aggregate	Aggregate	Gasoline	807.40555	45803.81966	16154.57	9.192351	4.982818755	228232.1317
CONTRA COSTA	2023	MHDT	Aggregate	Aggregate	Diesel	4601.6248	262908.2893	43927.33	26.81733	9.803671632	2577466.537

Worker

Sum of VMT*FE (Column BI)	**692858943**
Total VMT	**22297417.54**
Weighted Average FE	**31.07350624**

Vendor

Sum of VMT*FE (Column BI)	**18014995.57**
Total VMT	**1761453.708**
Weighted Average FE	**10.22734545**

Haul

Sum of VMT*FE (Column BI)	**4270213.445**
Total VMT	**628426.9702**
Weighted Average FE	**6.795083037**

Skelly Residential Project Construction Assumptions

On-site Construction

Source: AQ/GHG Appendix, CalEEMod Output
Skelly Rd Construction (Before New Receptors) - Contra Costa County, Annual — Date: 4/12/2022 1:32 PM
Skelly Rd Construction (After New Receptors) - Contra Costa County, Annual — Date: 4/12/2022 1:35 PM

Construction Schedule	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days
	Demolition	Demolition	10/11/2023	2/1/2024	5	82
	Site Preparation (site-wide)	Site preparation	10/11/2023	2/1/2024	5	82
	Grading (site-wide)	Grading	10/11/2023	12/6/2023	5	41
	Paving (roadways and foundations)	Paving	12/1/2023	2/1/2024	5	45
	Building Construction (Model Homes)	Building Construction	1/19/2024	2/1/2024	5	10
	Architectural Coating (pavement and model homes)	Architectural Coating	1/19/2024	2/1/2024	5	10
	Building Construction (Pre receptors)	Building Construction	2/2/2024	6/5/2024	5	89
	Architectural Coating (Pre receptors)	Architectural Coating	2/16/2024	6/5/2024	5	79
	Building Construction (post receptors)	Building Construction	6/6/2024	10/30/2024	5	105
	Architectural Coating (post receptors)	Architectural Coating	6/6/2024	10/30/2024	5	105

Trips and VMT	Phase Name	Trips per Day	Total Trips							Trips per Phase			VMT per Phase			Fuel Consumption (gallons)		
		Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Vendor Vel	Num Days	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trips	Vendor Trips	Hauling Trips	Worker Trips	Vendor Trips	Hauling Trips
	Demolition	5	0	224	10.8	7.3	20	HDT_Mix	82	410	0	224	4,428	0	4,480	142.50	0.00	659.30
	Site Preparation (site-wide)	3	0	0	10.8	7.3	20	HDT_Mix	82	246	0	0	2,657	0	0	85.50	0.00	0.00
	Grading (site-wide)	8	0	0	10.8	7.3	20	HDT_Mix	41	328	0	0	3,542	0	0	114.00	0.00	0.00
	Paving (roadways and foundations)	8	0	0	10.8	7.3	20	HDT_Mix	45	360	0	0	3,888	0	0	125.12	0.00	0.00
	Building Construction (Model Homes)	52	19	0	10.8	7.3	20	HDT_Mix	10	520	190	0	5,616	1,387	0	180.73	135.62	0.00
	Architectural Coating (pavement and model homes)	10	0	0	10.8	7.3	20	HDT_Mix	10	100	0	0	1,080	0	0	34.76	0.00	0.00
	Building Construction (Pre receptors)	52	19	0	10.8	7.3	20	HDT_Mix	89	4,628	1,691	0	49,982	12,344	0	1,608.52	1,206.99	0.00
	Architectural Coating (Pre receptors)	10	0	0	10.8	7.3	20	HDT_Mix	79	790	0	0	8,532	0	0	274.57	0.00	0.00
	Building Construction (post receptors)	52	19	0	10.8	7.3	20	HDT_Mix	105	5,460	1,995	0	58,968	14,564	0	1,897.69	1,423.98	0.00
	Architectural Coating (post receptors)	10	0	0	10.8	7.3	20	HDT_Mix	105	1,050	0	0	11,340	0	0	364.94	0.00	0.00

On-site Total Construction VMT (miles)
182,808

On-Site Total Fuel Consumption (gallons)
8,254

Construction Office Electricity Calculation

Energy Appendix: CalEEMod Typical Construction Trailer

Typical Construction Trailer - Contra Costa County, Annual

Date: 4/11/2022 3:15 PM

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	8668.8	0.8021	1.3000e-004	2.0000e-005	0.8100
Total		**0.8021**	**1.3000e-004**	**2.0000e-005**	**0.8100**

kWh/yr = kilowatt hours per year

Energy by Land Use - Electricity

Annual	8,669	kWh/yr
Total Over Construction	**6,555**	**kWh**

Total Construction Schedule

Start	10/11/2023	
End	10/30/2024	
Total Calendar Days	276	Consecutive workdays only (no overlap)
Years	0.76	

Proposed Operation Fuel Calculation

California Air Resource Board (ARB). 2022. EMFAC2017 Web Database. Website: https://arb.ca.gov/emfac/emissions-inventory/9d80a196ff7175eb01f2161f39e572013131647b. Accessed April 12, 202

EMFAC2014 (v1.0.7) Emissions Inventory
Region Type: County
Region: San Bernardino
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumptio

VMT = Vehicle Miles Traveled
FE = Fuel Economy

Given *Calculations*

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel Consumption	FE	VMT*FE
CONTRA COSTA	2024	HHDT	Aggregate	Aggregate	Gasoline	2.62615587	352.571602	0.077413082	4.554419	1605.75876
CONTRA COSTA	2024	HHDT	Aggregate	Aggregate	Diesel	5369.96533	644008.096	93.32397156	6.900779	4444157.499
CONTRA COSTA	2024	LDA	Aggregate	Aggregate	Gasoline	424002.7	15638010.2	462.9054734	33.7823	528287902.6
CONTRA COSTA	2024	LDA	Aggregate	Aggregate	Diesel	4766.18285	178809.301	3.462298249	51.64468	9234549.959
CONTRA COSTA	2024	LDT1	Aggregate	Aggregate	Gasoline	43486.3132	1574810.82	54.82710178	28.72322	45233635.29
CONTRA COSTA	2024	LDT1	Aggregate	Aggregate	Diesel	21.5405842	370.340918	0.014988569	24.70822	9150.466598
CONTRA COSTA	2024	LDT2	Aggregate	Aggregate	Gasoline	138047.48	5107761.37	189.7404491	26.91973	137499549.2
CONTRA COSTA	2024	LDT2	Aggregate	Aggregate	Diesel	1027.93047	42718.2348	1.131568761	37.75134	1612670.524
CONTRA COSTA	2024	LHDT1	Aggregate	Aggregate	Gasoline	10022.0628	348469.314	40.60401777	8.582139	2990611.992
CONTRA COSTA	2024	LHDT1	Aggregate	Aggregate	Diesel	8682.76917	315653.419	16.91692909	18.65903	5889785.347
CONTRA COSTA	2024	LHDT2	Aggregate	Aggregate	Gasoline	1278.12814	45708.8071	6.040618746	7.566908	345874.3435
CONTRA COSTA	2024	LHDT2	Aggregate	Aggregate	Diesel	3036.82387	112130.337	6.721691715	16.68186	1870542.869
CONTRA COSTA	2024	MCY	Aggregate	Aggregate	Gasoline	20272.9721	150835.274	4.036357781	37.36915	5636586.525
CONTRA COSTA	2024	MDV	Aggregate	Aggregate	Gasoline	96641.9601	3343210.94	153.7335167	21.74679	72704115.9
CONTRA COSTA	2024	MDV	Aggregate	Aggregate	Diesel	2405.86448	94971.4265	3.310076524	28.69161	2724883.185
CONTRA COSTA	2024	MH	Aggregate	Aggregate	Gasoline	1848.85436	16982.6047	3.409749877	4.980601	84583.58342
CONTRA COSTA	2024	MH	Aggregate	Aggregate	Diesel	796.078241	7171.6485	0.711608539	10.07808	72276.45449
CONTRA COSTA	2024	MHDT	Aggregate	Aggregate	Gasoline	831.928497	47583.7346	9.361503464	5.082916	241864.1197
CONTRA COSTA	2024	MHDT	Aggregate	Aggregate	Diesel	4761.34708	264391.325	26.65878724	9.917605	2622128.761
CONTRA COSTA	2024	OBUS	Aggregate	Aggregate	Gasoline	293.333926	13840.1398	2.807456993	4.929778	68228.81691
CONTRA COSTA	2024	OBUS	Aggregate	Aggregate	Diesel	134.625537	10562.0349	1.278009258	8.264443	87289.33737
CONTRA COSTA	2024	SBUS	Aggregate	Aggregate	Gasoline	68.2737846	3441.19612	0.34318331	10.02728	34505.84687
CONTRA COSTA	2024	SBUS	Aggregate	Aggregate	Diesel	960.261868	31547.4635	3.439132547	9.173087	289387.6406
CONTRA COSTA	2024	UBUS	Aggregate	Aggregate	Gasoline	25.281148	2468.69094	0.300432202	8.217132	20285.55832
CONTRA COSTA	2024	UBUS	Aggregate	Aggregate	Diesel	188.434558	19045.969	2.882599841	6.607219	125840.8915

	Vehicles
Sum of VMT*FE	**822132012.4**
Total VMT	**28014855.22**
Weighted Average FE	**29.3462881 miles/gallon**

Total VMT

Source: AQ/GHG Appendix, CalEEMod Output
215 Skelly Hercules Residential Project 2024 Operation - Contra Costa County, Annua
Date: 4/11/2022 1:42 PM

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	377.20	377.20	377.20	871,184	871,184
Total	377.20	377.20	377.20	871,184	871,184

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

	Annual VMT (miles)	Fuel Consumption	
Total VMT	871,184	**29,686**	**gallons per year**

Operation Natural Gas Use

Source: AQ/GHG Appendix, CalEEMod Output

215 Skelly Hercules Residential Project 2024 Operation - Contra Costa County, Annual

Date: 4/11/2022 1:42 PM

kBTU/yr = kilo-British Thermal Units/year

CF = cubic feet

	Natural Gas Use
City Park	0
Other Asphalt Surfaces	0
Parking Lot	0
Single Family Housing	1540000

Total **1,540,000 kBTU/yr**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0
Other Non-Asphalt Surfaces	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0
Parking Lot	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0
Single Family Housing	1.54E+06	8.32E-03	0.0711	0.0303	4.50E-04		5.75E-03	5.75E-03		5.75E-03	5.75E-03	0	82.3748	82.3748	1.58E-03	1.51E-03	82.8643
Total		**8.32E-03**	**0.0711**	**0.0303**	**4.50E-04**		**5.75E-03**	**5.75E-03**		**5.75E-03**	**5.75E-03**	**0**	**82.3748**	**82.3748**	**1.58E-03**	**1.51E-03**	**82.8643**

Operation Electricity Use

Source: AQ/GHG Appendix, CalEEMod Output

215 Skelly Hercules Residential Project 2024 Operation - Contra Costa County, Annual

Date: 4/11/2022 1:42 PM

Project Electricity Use

kWh/yr = kilowatt hours per year

Land Use	Electricity Use (kWh/yr)
City Park	-19550
Other Asphalt Surfaces	-19550
Parking Lot	2262
Single Family Housing	292871.1
Total	**256,033 kWh/yr**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	-19550	-1.8088	-0.0003	0	-1.8267
Other Non-Asphalt Surfaces	-19550	-1.8088	-0.0003	0	-1.8267
Parking Lot	2262	0.2093	3.00E-05	0	0.2114
Single Family Housing	292871	27.0975	4.38E-03	5.30E-04	27.3655
Total		**23.6891**	**3.83E-03**	**4.50E-04**	**23.9234**

Sheet1

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