

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: Z:\Air Quality\550.03 Riverwalk II - Porterville Walmart\Emissions\Riverwalk Marketplace II - BAU.urb924

Project Name: Riverwalk Marketplace II - Operation - BAU

Project Location: Tulare

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	0.27	0.36	0.58	0.00	0.00	0.00	429.94

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	13.91	22.60	162.72	0.12	21.36	4.24	12,356.88

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	14.18	22.96	163.30	0.12	21.36	4.24	12,786.82

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.03	0.36	0.30	0.00	0.00	0.00	429.43
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscape	0.02	0.00	0.28	0.00	0.00	0.00	0.51
Consumer Products	0.00						
Architectural Coatings	0.22						
TOTALS (tons/year, unmitigated)	0.27	0.36	0.58	0.00	0.00	0.00	429.94

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 0% to 35%

Percentage of residences with wood fireplaces changed from 0% to 10%

Percentage of residences with natural gas fireplaces changed from 0% to 55%

9/9/2010 03:04:31 PM

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Free-standing discount superstore	9.41	15.24	109.70	0.08	14.40	2.86	8,330.61
Regnl shop. center	4.50	7.36	53.02	0.04	6.96	1.38	4,026.27
TOTALS (tons/year, unmitigated)	13.91	22.60	162.72	0.12	21.36	4.24	12,356.88

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2011 Season: Annual

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Free-standing discount superstore		41.56	1000 sq ft	161.60	6,716.10	45,414.24
Regnl shop. center		78.69	1000 sq ft	41.25	3,245.96	21,949.20
					9,962.06	67,363.44

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	40.6	1.2	98.6	0.2
Light Truck < 3750 lbs	14.4	2.8	91.0	6.2
Light Truck 3751-5750 lbs	21.2	1.4	98.1	0.5
Med Truck 5751-8500 lbs	12.1	0.8	99.2	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.3	0.0	73.9	26.1
Lite-Heavy Truck 10,001-14,000 lbs	1.0	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	1.3	7.7	15.4	76.9
Heavy-Heavy Truck 33,001-60,000 lbs	1.7	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	4.1	63.4	36.6	0.0
School Bus	0.2	0.0	0.0	100.0
Motor Home	1.0	0.0	90.0	10.0

	<u>Travel Conditions</u>					
	Residential			Commute	Commercial	
	Home-Work	Home-Shop	Home-Other		Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Free-standing discount superstore				2.0	1.0	97.0
Regnl shop. center				2.0	1.0	97.0