

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 - Project (Construction, Area).urb924

Project Name: Riverwalk Marketplace II - Construction and Area - Proposed Project

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:

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2010 TOTALS (tons/year unmitigated)	0.43	2.30	2.47	0.00	0.82	0.15	0.97	0.17	0.14	0.31	313.51
2010 TOTALS (tons/year mitigated)	0.43	2.30	2.47	0.00	0.37	0.15	0.52	0.08	0.14	0.22	313.51
Percent Reduction	0.00	0.00	0.00	0.00	54.64	0.00	46.22	54.39	0.00	30.27	0.00
2011 TOTALS (tons/year unmitigated)	2.20	0.36	0.56	0.00	0.00	0.02	0.03	0.00	0.02	0.02	68.25
2011 TOTALS (tons/year mitigated)	2.20	0.36	0.56	0.00	0.00	0.02	0.03	0.00	0.02	0.02	68.25
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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
TOTALS (tons/year, mitigated)	0.26	0.32	0.55	0.00	0.00	0.00	389.58
Percent Reduction	3.70	11.11	5.17	0.00	0.00	0.00	9.39

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)	0.27	0.36	0.58	0.00	0.00	0.00	429.94

Both Area and Operational Mitigation must be turned on to get a combined mitigated total.

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2010	0.43	2.30	2.47	0.00	0.82	0.15	0.97	0.17	0.14	0.31	313.51
Mass Grading 04/01/2010-05/15/2010	0.05	0.40	0.22	0.00	0.82	0.02	0.84	0.17	0.02	0.19	37.59
Mass Grading Dust	0.00	0.00	0.00	0.00	0.82	0.00	0.82	0.17	0.00	0.17	0.00
Mass Grading Off Road Diesel	0.05	0.40	0.20	0.00	0.00	0.02	0.02	0.00	0.02	0.02	35.96
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63
Trenching 05/16/2010-06/30/2010	0.03	0.29	0.16	0.00	0.00	0.01	0.01	0.00	0.01	0.01	29.98
Trenching Off Road Diesel	0.03	0.29	0.14	0.00	0.00	0.01	0.01	0.00	0.01	0.01	28.29
Trenching Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68
Building 07/01/2010-02/28/2011	0.28	1.23	1.83	0.00	0.00	0.08	0.09	0.00	0.08	0.08	211.53
Building Off Road Diesel	0.24	1.09	0.74	0.00	0.00	0.08	0.08	0.00	0.07	0.07	107.00
Building Vendor Trips	0.01	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.06
Building Worker Trips	0.03	0.06	1.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	87.47

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Asphalt 11/01/2010-12/31/2010	0.06	0.37	0.26	0.00	0.00	0.03	0.03	0.00	0.03	0.03	34.42
Paving Off-Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.06	0.36	0.21	0.00	0.00	0.03	0.03	0.00	0.03	0.03	28.62
Paving On Road Diesel	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21
Paving Worker Trips	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.59
2011	2.20	0.36	0.56	0.00	0.00	0.02	0.03	0.00	0.02	0.02	68.25
Building 07/01/2010-02/28/2011	0.08	0.36	0.53	0.00	0.00	0.02	0.03	0.00	0.02	0.02	65.72
Building Off Road Diesel	0.07	0.32	0.22	0.00	0.00	0.02	0.02	0.00	0.02	0.02	33.23
Building Vendor Trips	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.30
Building Worker Trips	0.01	0.02	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.19
Coating 01/01/2011-02/28/2011	2.12	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.53
Architectural Coating	2.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.53

Phase Assumptions

Phase: Mass Grading 4/1/2010 - 5/15/2010 - Default Fine Site Grading Description

Total Acres Disturbed: 10.22

Maximum Daily Acreage Disturbed: 2.56

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 5/16/2010 - 6/30/2010 - Type Your Description Here

Off-Road Equipment:

2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

1 Other General Industrial Equipment (238 hp) operating at a 0.51 load factor for 8 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Paving 11/1/2010 - 12/31/2010 - Default Paving Description

Acres to be Paved: 2.56

Off-Road Equipment:

4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day

1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day

1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Phase: Building Construction 7/1/2010 - 2/28/2011 - Default Building Construction Description

Off-Road Equipment:

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Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Mass Grading 4/1/2010 - 5/15/2010 - Default Fine Site Grading Description

For Soil Stabilizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

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 Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Mitigated

<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	0.02	0.32	0.27	0.00	0.00	0.00	389.07
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, mitigated)	0.26	0.32	0.55	0.00	0.00	0.00	389.58

Area Source Mitigation Measures Selected

<u>Mitigation Description</u>	<u>Percent Reduction</u>
Commercial Increase Energy Efficiency Beyond Title 24	9.40

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%

Combined Annual Emissions Reports (Tons/Year)

File Name: Z:\Air Quality\550.03 Riverwalk II - Porterville Walmart\Emissions\Riverwalk Marketplace II - Project (Mobile) Walmart (Cars).urb924

Project Name: Riverwalk Marketplace II - Operation, Mobile - Walmart, Cars

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:

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)	5.92	6.50	67.45	0.05	8.51	1.62	4,622.32
TOTALS (tons/year, mitigated)	5.91	6.48	67.25	0.05	8.48	1.62	4,608.45
Percent Reduction	0.17	0.31	0.30	0.00	0.35	0.00	0.30

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)	5.92	6.50	67.45	0.05	8.51	1.62	4,622.32

Both Area and Operational Mitigation must be turned on to get a combined mitigated total.

Operational Unmitigated Detail Report:

OPERATIONAL 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>PM25</u>	<u>CO2</u>
Free-standing discount superstore	5.92	6.50	67.45	0.05	8.51	1.62	4,622.32
TOTALS (tons/year, unmitigated)	5.92	6.50	67.45	0.05	8.51	1.62	4,622.32

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Mitigated

<u>Source</u>	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM25</u>	<u>CO2</u>
Free-standing discount superstore	5.91	6.48	67.25	0.05	8.48	1.62	4,608.45
TOTALS (tons/year, mitigated)	5.91	6.48	67.25	0.05	8.48	1.62	4,608.45

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		30.93	1000 sq ft	161.60	4,998.29	27,140.71
					4,998.29	27,140.71

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	41.8	1.2	98.6	0.2
Light Truck < 3750 lbs	14.9	2.8	91.0	6.2
Light Truck 3751-5750 lbs	21.9	1.4	98.1	0.5
Med Truck 5751-8500 lbs	12.5	0.8	99.2	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.4	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	0.0	7.7	15.4	76.9
Heavy-Heavy Truck 33,001-60,000 lbs	0.0	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	4.2	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

Travel Conditions

	Residential			Commuter	Commercial	
	Home-Work	Home-Shop	Home-Other		Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	7.6	5.8	5.8
Rural Trip Length (miles)	16.8	7.1	7.9	11.8	5.3	5.3
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

Combined Annual Emissions Reports (Tons/Year)

File Name: Z:\Air Quality\550.03 Riverwalk II - Porterville Walmart\Emissions\Riverwalk Marketplace II - Project (Mobile) Other Commercial.urb924

Project Name: Riverwalk Marketplace II - Operations, Mobile - Other Commercial

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:

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)	2.98	4.70	34.41	0.02	4.34	0.86	2,523.27
TOTALS (tons/year, mitigated)	2.97	4.69	34.30	0.02	4.33	0.86	2,515.70
Percent Reduction	0.34	0.21	0.32	0.00	0.23	0.00	0.30

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)	2.98	4.70	34.41	0.02	4.34	0.86	2,523.27

Both Area and Operational Mitigation must be turned on to get a combined mitigated total.

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
Regnl shop. center	2.98	4.70	34.41	0.02	4.34	0.86	2,523.27
TOTALS (tons/year, unmitigated)	2.98	4.70	34.41	0.02	4.34	0.86	2,523.27

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Mitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
Regnl shop. center	2.97	4.69	34.30	0.02	4.33	0.86	2,515.70
TOTALS (tons/year, mitigated)	2.97	4.69	34.30	0.02	4.33	0.86	2,515.70

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
Regnl shop. center		61.10	1000 sq ft	41.25	2,520.37	13,685.64
					2,520.37	13,685.64

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

Travel Conditions

	Residential			Commuter	Commercial	
	Home-Work	Home-Shop	Home-Other		Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	7.6	5.8	5.8
Rural Trip Length (miles)	16.8	7.1	7.9	11.8	5.3	5.3
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)						
Regnl shop. center				2.0	1.0	97.0

Riverwalk Marketplace II
URBEMIS2007 Adjustments for Operational (Mobile) Source Emissions

Table AIR-1
Vehicle Trip Rate Adjustments in URBEMIS2007

Emissions Scenario	ITE Code	Units	Trip Reductions			Base Trip Rate ⁴ (ADT/ksf)	Adjusted Trip Rate (ADT/Unit)	Work Trips (%)
			Pass-By ¹ (%)	Internal ¹ (%)	Features ^{2,3} (%)			
BAU Project								
<i>All Vehicle Types</i>								
Walmart	813	161.60 ksf	15.00%	0.00%	0.00%	48.90	41.56	2%
Other Commercial	820	41.25 ksf	15.00%	0.00%	0.00%	92.58	78.69	2%
Proposed Project								
<i>All Vehicle Types Excluding Medium/Heavy-Duty Trucks</i>								
Walmart	813	161.60 ksf	15.00%	13.00%	8.75%	48.90	30.93	2%
<i>Medium/Heavy-Duty Trucks (Non-refrigerated)</i>								
Walmart ⁵	813	1.00	0.00%	0.00%	0.00%	-	23.36	100%
<i>Heavy-Duty Trucks (Refrigerated)</i>								
Walmart ⁵	813	1.00	0.00%	0.00%	0.00%	-	3.70	100%
<i>All Vehicle Types</i>								
Other Commercial	820	41.25 ksf	15.00%	13.00%	6.00%	92.58	61.10	2%

Note:

The meadium/heavy-duty truck emissions associated with the Walmart portion of the project were calculated separately.

Sources:

- Ruettgers & Schuler Civil Engineers, *Traffic Study: Riverwalk Marketplace Phase 2*, (2010) 11.
- Sacramento Metropolitan Air Quality Management District, *Recommended Guidance for Land Use Emission Reductions*, (2010).
Transportation-Related Features include:
 - *Bicycle Parking: Bike lockers will be provided along store fronts to encourage employee and patron bicycle use. (0.625% reduction)*
 - *End of Trip Facilities: Bike lockers will be provided along store fronts to encourage employee and patron bicycle use. (0.625% reduction)*
 - *Pedestrian Network: Project will provide a pedestrian path of access from Springville Avenue, Indiana Street, and Vandalia Avenue to all store fronts on the project site. (1% reduction)*
 - *Pedestrian Pathway through Parking: Landscaped or shaded pedestrian spines will also be located through all major parking lots to provide pedestrian connectivity. (0.5% reduction)*
 - *Mixed Uses: Locate a retail center with multiple uses within 0.25 mile of existing and future residential development. (3% reduction)*
- California Air Pollution Control Officer's Association, *CEQA and Climate Change*, (2008).
Transportation-Related Features include:
 - *Infill Development (MM D-12): Reduces vehicle trips and VMT by 3% and 20%, respectively (Fehr & Peers 2007). (3% reduction in trips; 20% reduction in VMT [applied in URBEMIS2007 model])*
- For BAU: Institute of Transportation Engineers, *Trip Generation, 8th Edition*, (2008).
For Proposed Project: Ruettgers & Schuler Civil Engineers, *Traffic Study: Riverwalk Marketplace Phase 2*, (2010) 11.
- Project Applicant. The medium/heavy-duty truck trip rates were adjusted based on the following information:
Four axle with transport refrigeration units, two units a day or 13 units a week;
Four axle without transport refrigeration units, six units a day or 38 units a week; and
Two axle/vendor deliveries, nine units per day or 44 units a week.

**Riverwalk Marketplace II
URBEMIS2007 Adjustments for Operational (Mobile) Source Emissions**

**Table AIR-2
Vehicle Fleet Adjustments in URBEMIS2007**

Emissions Scenario	Fleet (%)	Vehicle Type
Tulare County, 2011		
BAU Project ¹	40.6%	Light Auto
	14.4%	Light Truck < 3,750 lbs
	21.2%	Light Truck 3751-5750 lbs
	12.1%	Med Truck 5751-8500 lbs
	2.3%	Light-Heavy Truck 8501-10000 lbs
	1.0%	Light-Heavy Truck 10001-14000 lbs
	1.3%	Med-Heavy Truck 14001-33000 lbs
	1.7%	Heavy-Heavy Truck 33001-60000 lbs
	0.1%	Other Bus
	0.0%	Urban Bus
	4.1%	Motorcycle
	0.2%	School Bus
	1.0%	Motor Home
	100.0%	
Proposed Project ² <i>All Vehicle Types Excluding Medium/Heavy-Duty Trucks</i> Walmart	41.8%	Light Auto
	14.9%	Light Truck < 3,750 lbs
	21.9%	Light Truck 3751-5750 lbs
	12.5%	Med Truck 5751-8500 lbs
	2.4%	Light-Heavy Truck 8501-10000 lbs
	1.0%	Light-Heavy Truck 10001-14000 lbs
	0.1%	Other Bus
	0.0%	Urban Bus
	4.2%	Motorcycle
	0.2%	School Bus
	1.0%	Motor Home
	100.0%	
<i>Medium/Heavy-Duty Trucks (Non-refrigerated)</i> Walmart	53.7%	Med-Heavy Truck 14001-33000 lbs
	46.3%	Heavy-Heavy Truck 33001-60000 lbs
	100.0%	
<i>Heavy-Duty Trucks (Refrigerated)</i> Walmart	100.0%	Heavy-Heavy Truck 33001-60000 lbs
	100.0%	
<i>All Vehicle Types</i> Other Commercial		Same as BAU Project

Sources:

1. URBEMIS2007, Version 9.2.4.
2. Project Applicant.

The fleet percentages were renormalized according to the following information:
Four axle with transport refrigeration units, two units a day or 13 units a week;
Four axle without transport refrigeration units, six units a day or 38 units a week; and
Two axle/vendor deliveries, nine units per day or 44 units a week.

Riverwalk Marketplace II
URBEMIS2007 Adjustments for Operational (Mobile) Source Emissions

Table AIR-3
Vehicle Miles Traveled Adjustments in URBEMIS2007

Emissions Scenario	Trip Type	VMT Reduction ¹ (%)	Rural	
			Base Trip Length ² (miles/trip)	Adjusted Trip Length (miles/trip)
BAU Project	Commercial-based Commute	0.00%	14.7	14.7
	Commercial-based Non-Work	0.00%	6.6	6.6
	Commercial-based Customer	0.00%	6.6	6.6
Proposed Project	<i>All Vehicle Types Excluding Medium/Heavy-Duty Trucks</i>			
Walmart	Commercial-based Commute	20.00%	14.7	11.8
	Commercial-based Non-Work	20.00%	6.6	5.3
	Commercial-based Customer	20.00%	6.6	5.3
<i>Medium/Heavy-Duty Trucks (Non-refrigerated)</i>	Walmart			
	Commercial-based Commute	-	14.7	3.0
	Commercial-based Non-Work	-	6.6	3.0
<i>Heavy-Duty Trucks (Refrigerated)</i>	Walmart			
	Commercial-based Commute	-	14.7	80.0
	Commercial-based Non-Work	-	6.6	80.0
<i>All Vehicle Types</i>	Other Commercial			
	Commercial-based Commute	20.00%	14.7	11.8
	Commercial-based Non-Work	20.00%	6.6	5.3
	Commercial-based Customer	20.00%	6.6	5.3

Sources:

- California Air Pollution Control Officer's Association, *CEQA and Climate Change*, (2008).
Transportation-Related Features include:
- *Infill Development (MM D-12): Reduces vehicle trips and VMT by 3% and 20%, respectively (Fehr & Peers 2007). (3% reduction in trips; 20% reduction in VMT [applied in URBEMIS2007 model])*
- URBEMIS2007, Version 9.2.4. Project was modeled using the "rural" setting.

Riverwalk Marketplace II
URBEMIS2007 Adjustments for Operational (Mobile) Source Emissions

Table AIR-4
Summary of URBEMIS2007 Mobile Source Emissions

Emissions Scenario	Emissions in Tons per Year					
	ROG	NO _x	CO	SO _x	PM10	PM2.5
Proposed Project						
<i>All Vehicle Types Excluding Medium/Heavy-Duty Trucks</i>						
Walmart	5.91	6.48	67.25	0.05	8.48	1.62
<i>Medium/Heavy-Duty Trucks (Non-refrigerated)</i>						
Walmart	0.03	0.24	0.34	-	0.03	0.01
<i>Heavy-Duty Trucks (Refrigerated)</i>						
Walmart	0.08	1.41	0.41	-	0.14	0.06
<i>All Vehicle Types</i>						
Other Commercial	2.97	4.69	34.30	0.02	4.33	0.86
Total	8.99	12.82	102.30	0.07	12.98	2.55

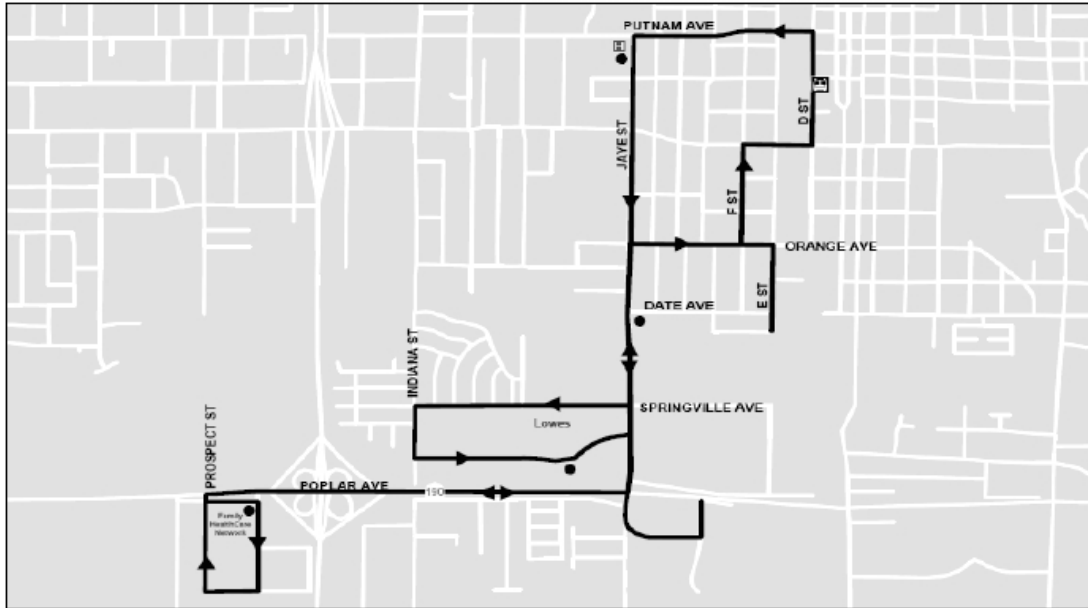
Notes:

Emissions estimate includes the transit service mitigation measure. According to Porterville Transit, 18 weekday buses stop within 1/4 mile of the project site on Route 6 (Lowes stop). The traffic study did not account for trip reductions from public transportation.

Source:

URBEMIS2007, Version 9.2.4

<h1 style="margin: 0;">PORTERVILLE TRANSIT</h1>	<h2 style="margin: 0;">ROUTE 6</h2>
<p>Jaye Street – Family HealthCare Network</p>	



Transit Center	Sierra View Hospital	Lowes	Family HealthCare Network	Jaye/Date	Transit Center
7:00	7:03	7:08	7:11	7:20	7:32
7:40	7:43	7:48	7:51	8:00	8:12
8:20	8:23	8:28	8:31	8:40	8:52
9:00	9:03	9:08	9:11	9:20	9:32
9:40	9:43	9:48	9:51	10:00	10:12
10:20	10:23	10:28	10:31	10:40	10:52
11:00	11:03	11:08	11:11	11:20	11:32
11:40	11:43	11:48	11:51	12:00	12:12
12:20	12:23	12:28	12:31	12:40	12:52
1:00	1:03	1:08	1:11	1:20	1:32
1:40	1:43	1:48	1:51	2:00	2:12
2:20	2:23	2:28	2:31	2:40	2:52
3:00	3:03	3:08	3:11	3:20	3:32
3:40	3:43	3:48	3:51	4:00	4:12
4:20	4:23	4:28	4:31	4:40	4:52
5:00	5:03	5:08	5:11	5:20	5:32
5:40	5:43	5:48	5:51	6:00	6:12
6:20	6:23	6:28	6:31	6:40	6:52

Light Type = AM **Bold Type = PM**

Shaded area indicates Saturday service times

For more information: call 559.791.7800 or visit www.portervilletransit.com