

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: N:\Work\Pasadena Server-Air Quality\1067.01 Broadway Lofts\Emissions\Broadway Lofts Operational - Project.urb924

Project Name: Broadway Lofts - Operational

Project Location: South Coast AQMD

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>
TOTALS (lbs/day, unmitigated)	6.17	3.40	6.15	0.00	0.03	0.03
TOTALS (lbs/day, mitigated)	6.12	2.85	5.90	0.00	0.03	0.03
Percent Reduction	0.81	16.18	4.07	0.00	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>
TOTALS (lbs/day, unmitigated)	16.67	21.77	197.23	0.23	37.77	7.35
TOTALS (lbs/day, mitigated)	16.67	21.77	197.23	0.23	37.77	7.35
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00

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>
TOTALS (lbs/day, unmitigated)	22.84	25.17	203.38	0.23	37.80	7.38
TOTALS (lbs/day, mitigated)	22.79	24.62	203.13	0.23	37.80	7.38
Percent Reduction	0.22	2.19	0.12	0.00	0.00	0.00

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>
Natural Gas	0.26	3.34	1.51	0.00	0.01	0.01
Hearth - No Summer Emissions						
Landscape	0.37	0.06	4.64	0.00	0.02	0.02
Consumer Products	4.96					
Architectural Coatings	0.58					
TOTALS (lbs/day, unmitigated)	6.17	3.40	6.15	0.00	0.03	0.03

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>
Natural Gas	0.21	2.79	1.26	0.00	0.01	0.01
Hearth - No Summer Emissions						
Landscape	0.37	0.06	4.64	0.00	0.02	0.02
Consumer Products	4.96					
Architectural Coatings	0.58					
TOTALS (lbs/day, mitigated)	6.12	2.85	5.90	0.00	0.03	0.03

Area Source Changes to Defaults

Percent residential using natural gas changed from 78% to 100%

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

Percentage of residences with wood fireplaces changed from 5% to 0%

Percentage of residences with natural gas fireplaces changed from 85% to 100%

The number of persons per household for consumer product use changed from 3 persons to 1.17 persons

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25
Apartments mid rise	6.27	6.64	62.39	0.07	11.56	2.25
High turnover (sit-down) rest.	4.46	6.46	57.56	0.07	11.19	2.18
Restaurant/Entertainment	5.94	8.67	77.28	0.09	15.02	2.92
TOTALS (lbs/day, unmitigated)	16.67	21.77	197.23	0.23	37.77	7.35

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25
Apartments mid rise	6.27	6.64	62.39	0.07	11.56	2.25
High turnover (sit-down) rest.	4.46	6.46	57.56	0.07	11.19	2.18
Restaurant/Entertainment	5.94	8.67	77.28	0.09	15.02	2.92
TOTALS (lbs/day, mitigated)	16.67	21.77	197.23	0.23	37.77	7.35

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2012 Temperature (F): 80 Season: Summer

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
Apartments mid rise	6.53	3.33	dwelling units	248.00	825.84	6,685.50
High turnover (sit-down) rest.		63.60	1000 sq ft	14.06	894.22	6,478.59
Restaurant/Entertainment		95.35	1000 sq ft	12.59	1,200.46	8,697.31
					2,920.52	21,861.40

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	51.5	0.6	99.2	0.2
Light Truck < 3750 lbs	7.3	1.4	95.9	2.7
Light Truck 3751-5750 lbs	23.0	0.4	99.6	0.0
Med Truck 5751-8500 lbs	10.7	0.9	99.1	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.6	0.0	81.2	18.8
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.5	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.8	60.7	39.3	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	0.0	88.9	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	10.2	5.6	7.6	10.6	5.9	7.1
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
High turnover (sit-down) rest.				5.0	2.5	92.5
Restaurant/Entertainment				5.0	2.5	92.5

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Combined Winter Emissions Reports (Pounds/Day)

File Name: N:\Work\Pasadena Server-Air Quality\1067.01 Broadway Lofts\Emissions\Broadway Lofts Operational - Project.urb924

Project Name: Broadway Lofts - Operational

Project Location: South Coast AQMD

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>
TOTALS (lbs/day, unmitigated)	5.88	4.71	2.09	0.01	0.12	0.12
TOTALS (lbs/day, mitigated)	5.83	4.16	1.84	0.01	0.12	0.12
Percent Reduction	0.85	11.68	11.96	0.00	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>
TOTALS (lbs/day, unmitigated)	17.57	26.20	190.97	0.20	37.77	7.35
TOTALS (lbs/day, mitigated)	17.57	26.20	190.97	0.20	37.77	7.35
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00

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>
TOTALS (lbs/day, unmitigated)	23.45	30.91	193.06	0.21	37.89	7.47
TOTALS (lbs/day, mitigated)	23.40	30.36	192.81	0.21	37.89	7.47
Percent Reduction	0.21	1.78	0.13	0.00	0.00	0.00

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>
Natural Gas	0.26	3.34	1.51	0.00	0.01	0.01
Hearth	0.08	1.37	0.58	0.01	0.11	0.11
Landscaping - No Winter Emissions						
Consumer Products	4.96					
Architectural Coatings	0.58					
TOTALS (lbs/day, unmitigated)	5.88	4.71	2.09	0.01	0.12	0.12

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25
Apartments mid rise	5.95	8.00	60.03	0.06	11.56	2.25
High turnover (sit-down) rest.	4.97	7.77	55.90	0.06	11.19	2.18
Restaurant/Entertainment	6.65	10.43	75.04	0.08	15.02	2.92
TOTALS (lbs/day, unmitigated)	17.57	26.20	190.97	0.20	37.77	7.35

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25
Apartments mid rise	5.95	8.00	60.03	0.06	11.56	2.25
High turnover (sit-down) rest.	4.97	7.77	55.90	0.06	11.19	2.18
Restaurant/Entertainment	6.65	10.43	75.04	0.08	15.02	2.92
TOTALS (lbs/day, mitigated)	17.57	26.20	190.97	0.20	37.77	7.35

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Light Truck 3751-5750 lbs	23.0	0.4	99.6	0.0
Med Truck 5751-8500 lbs	10.7	0.9	99.1	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.6	0.0	81.2	18.8
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.5	0.0	0.0	100.0
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Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.8	60.7	39.3	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	0.0	88.9	11.1

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% of Trips - Commercial (by land use)						
High turnover (sit-down) rest.				5.0	2.5	92.5
Restaurant/Entertainment				5.0	2.5	92.5