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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

VCC\Entrada\Entrada Alt 6\Entrada Alt 6.urb924

Project Name: Entrada Operational Emissions Alt 6

Project Location: Los Angeles County

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

	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>	
TOTALS (lbs/day, unmitigated)	28.91	10.41	22.48	0.00	0.07	0.07	12,735.54	
TOTALS (lbs/day, mitigated)	28.79	8.87	21.56	0.00	0.07	0.07	10,829.29	
Percent Reduction	0.42	14.79	4.09	0.00	0.00	0.00	14.97	
OPERATIONAL (VEHICLE) EMISSION ESTIMATES								
	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>	
TOTALS (lbs/day, unmitigated)	44.20	38.45	422.87	1.25	206.10	39.96	124,079.80	
SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES								
	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>	
TOTALS (lbs/day, unmitigated)	73.11	48.86	445.35	1.25	206.17	40.03	136,815.34	

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

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Area Source Unmitigated Detail Rep	oort:						
AREA SOURCE EMISSION ESTIM	ATES Summer Pounds P	er Day, Unmitigate	d				
<u>Source</u>	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	PM10	PM2.5	<u>CO2</u>
Natural Gas	0.77	10.22	6.15	0.00	0.02	0.02	12,708.33
Hearth - No Summer Emissions							
Landscape	2.48	0.19	16.33	0.00	0.05	0.05	27.21
Consumer Products	21.80						
Architectural Coatings	3.86						
TOTALS (lbs/day, unmitigated)	28.91	10.41	22.48	0.00	0.07	0.07	12,735.54
Area Source Mitigated Detail Repor	t ·						
		an Day Mitigated					
AREA SOURCE EMISSION ESTIM		, ,					
<u>Source</u>	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.65	8.68	5.23	0.00	0.02	0.02	10,802.08
Hearth - No Summer Emissions							
Landscape	2.48	0.19	16.33	0.00	0.05	0.05	27.21
Consumer Products	21.80						
Architectural Coatings	3.86						
TOTALS (lbs/day, mitigated)	28.79	8.87	21.56	0.00	0.07	0.07	10,829.29

Area Source Changes to Defaults

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%

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	4.33	3.53	40.68	0.12	19.79	3.84	11,949.99
Condo/townhouse general	2.29	1.78	20.45	0.06	9.95	1.93	6,007.71
Regnl shop. center	30.06	26.73	291.79	0.87	142.86	27.69	85,910.94
Supermarket	7.52	6.41	69.95	0.20	33.50	6.50	20,211.16
TOTALS (lbs/day, unmitigated)	44.20	38.45	422.87	1.25	206.10	39.96	124,079.80

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 50 Nonresidential Trip % Reduction: 9.59

Analysis Year: 2030 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
Single family housing	87.33	4.95	dwelling units	262.00	1,296.90	11,471.08
Condo/townhouse general	10.19	4.00	dwelling units	163.00	652.00	5,766.94
Regnl shop. center		36.22	1000 sq ft	399.00	14,451.06	82,793.91
Supermarket		76.90	1000 sq ft	51.00	3,922.04	19,408.62
					20 322 00	119 440 55

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3/31/2008 04:05:00 PM		Vehicle Fle	eet Mix			
Vehicle Type		Percent Type	Non-Catalyst	(Catalyst	Diesel
Light Auto		51.7	0.0		100.0	0.0
Light Truck < 3750 lbs		6.7	0.0		100.0	0.0
Light Truck 3751-5750 lbs		23.5	0.0		100.0	0.0
Med Truck 5751-8500 lbs		10.6	0.0		100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs		1.7	0.0		82.4	17.6
Lite-Heavy Truck 10,001-14,000 lbs		0.5	0.0		60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs		1.0	0.0		20.0	80.0
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		2.5	32.0		68.0	0.0
School Bus		0.1	0.0		0.0	100.0
Motor Home		1.0	0.0		90.0	10.0
		Travel Cor	nditions			
		Residential		(Commercial	
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
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)						
Regnl shop. center				2.0	1.0	97.0
Supermarket				2.0	1.0	97.0

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Combined Winter Emissions Reports (Pounds/Day)

File Name: Z:\Glu\aqNewhall\August 2007 Revision to Newhall\Operational Emissions\URBEMIS2007 Files and Printouts\Entrada and VCC\Entrada\Entrada

Alt 6\Entrada Alt 6.urb924

Project Name: Entrada Operational Emissions Alt 6

Project Location: Los Angeles County

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

AREA SOURCE EMISSION ESTIMATES								
	ROG	<u>NOx</u>	CO	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>	
TOTALS (lbs/day, unmitigated)	26.61	13.29	7.46	0.02	0.27	0.27	16,633.04	
TOTALS (lbs/day, mitigated)	26.49	11.75	6.54	0.02	0.27	0.27	14,726.79	
Percent Reduction	0.45	11.59	12.33	0.00	0.00	0.00	11.46	
OPERATIONAL (VEHICLE) EMISSION ESTIMATES								
	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>	
TOTALS (lbs/day, unmitigated)	50.09	46.09	404.31	1.04	206.10	39.96	112,144.63	
SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES								
	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>	
TOTALS (lbs/day, unmitigated)	76.70	59.38	411.77	1.06	206.37	40.23	128,777.67	

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

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TOTALS (lbs/day, mitigated)

Area Source Unmitigated Detail Report:							
AREA SOURCE EMISSION ESTIMATES	Winter Pounds Per Da	ay, Unmitigated					
Source	ROG	<u>NOx</u>	CO	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>
Natural Gas	0.77	10.22	6.15	0.00	0.02	0.02	12,708.33
Hearth	0.18	3.07	1.31	0.02	0.25	0.25	3,924.71
Landscaping - No Winter Emissions							
Consumer Products	21.80						
Architectural Coatings	3.86						
TOTALS (lbs/day, unmitigated)	26.61	13.29	7.46	0.02	0.27	0.27	16,633.04
Area Source Mitigated Detail Report:							
AREA SOURCE EMISSION ESTIMATES	Winter Pounds Per Da	ay, Mitigated					
Source	ROG	<u>NOx</u>	CO	<u>SO2</u>	PM10	PM2.5	<u>CO2</u>
Natural Gas	0.65	8.68	5.23	0.00	0.02	0.02	10,802.08
Hearth	0.18	3.07	1.31	0.02	0.25	0.25	3,924.71
Landscaping - No Winter Emissions							
Consumer Products	21.80						
Architectural Coatings	3.86						

6.54

0.02

0.27

14,726.79

0.27

Area Source Changes to Defaults

11.75

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%

26.49

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	4.39	4.25	38.08	0.10	19.79	3.84	10,803.73
Condo/townhouse general	2.27	2.13	19.15	0.05	9.95	1.93	5,431.44
Regnl shop. center	34.58	32.03	279.47	0.72	142.86	27.69	77,637.71
Supermarket	8.85	7.68	67.61	0.17	33.50	6.50	18,271.75
TOTALS (lbs/day, unmitigated)	50.09	46.09	404.31	1.04	206.10	39.96	112,144.63

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 50 Nonresidential Trip % Reduction: 9.59

Analysis Year: 2030 Temperature (F): 60 Season: Winter

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
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					20,322.00	119,440.55

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3/31/2008 04:05:19 PM		Vehicle Flee	t Mix			
Vehicle Type		Percent Type	Non-Catalyst	(Catalyst	Diesel
Light Auto		51.7	0.0		100.0	0.0
Light Truck < 3750 lbs		6.7	0.0		100.0	0.0
Light Truck 3751-5750 lbs		23.5	0.0		100.0	0.0
Med Truck 5751-8500 lbs		10.6	0.0		100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs		1.7	0.0		82.4	17.6
Lite-Heavy Truck 10,001-14,000 lbs		0.5	0.0		60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs		1.0	0.0		20.0	80.0
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		2.5	32.0		68.0	0.0
School Bus		0.1	0.0		0.0	100.0
Motor Home		1.0	0.0		90.0	10.0
		Travel Cond	<u>itions</u>			
		Residential		(Commercial	
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
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% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Regnl shop. center				2.0	1.0	97.0
Supermarket				2.0	1.0	97.0