

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: Z:\Glu\aqNewhall\August 2007 Revision to Newhall\Operational Emissions\URBEMIS2007 Files and Printouts\Entrada and VC
Alt 5\Entrada Alt 5.urb924

Project Name: Entrada Operational Emissions Alt 5

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

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	57.62	15.64	24.71	0.00	0.08	0.08	19,419.02
TOTALS (lbs/day, mitigated)	57.45	13.32	23.45	0.00	0.07	0.07	16,510.24
Percent Reduction	0.30	14.83	5.10	0.00	12.50	12.50	14.98

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 (lbs/day, unmitigated)	51.38	44.24	491.04	1.47	239.26	46.38	144,117.56

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 (lbs/day, unmitigated)	109.00	59.88	515.75	1.47	239.34	46.46	163,536.58

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

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>	<u>CO2</u>
Natural Gas	1.17	15.45	8.38	0.00	0.03	0.03	19,391.81
Hearth - No Summer Emissions							
Landscape	2.48	0.19	16.33	0.00	0.05	0.05	27.21
Consumer Products	49.20						
Architectural Coatings	4.77						
TOTALS (lbs/day, unmitigated)	57.62	15.64	24.71	0.00	0.08	0.08	19,419.02

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>	<u>CO2</u>
Natural Gas	1.00	13.13	7.12	0.00	0.02	0.02	16,483.03
Hearth - No Summer Emissions							
Landscape	2.48	0.19	16.33	0.00	0.05	0.05	27.21
Consumer Products	49.20						
Architectural Coatings	4.77						
TOTALS (lbs/day, mitigated)	57.45	13.32	23.45	0.00	0.07	0.07	16,510.24

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

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	5.03	4.26	49.11	0.15	23.90	4.63	14,427.18
Condo/townhouse general	11.30	9.17	105.57	0.32	51.38	9.96	31,014.71
Regnl shop. center	28.05	24.85	271.32	0.81	132.83	25.75	79,882.69
Supermarket	7.00	5.96	65.04	0.19	31.15	6.04	18,792.98
TOTALS (lbs/day, unmitigated)	51.38	44.24	491.04	1.47	239.26	46.38	144,117.56

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 39.64 Nonresidential Trip % Reduction: 15.93

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	5.98	dwelling units	262.00	1,565.74	13,849.00
Condo/townhouse general	43.56	4.83	dwelling units	697.00	3,365.94	29,771.76
Regnl shop. center		33.68	1000 sq ft	399.00	13,437.05	76,984.38
Supermarket		71.51	1000 sq ft	51.00	3,646.83	18,046.75
					22,015.56	138,651.89

<u>Vehicle Fleet Mix</u>				
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

<u>Travel Conditions</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
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

Combined Winter Emissions Reports (Pounds/Day)

File Name: Z:\Glu\aqNewhall\August 2007 Revision to Newhall\Operational Emissions\URBEMIS2007 Files and Printouts\Newhall Ranch Alternatives\Alternative 5\Newhall Ranch Alternative 5.urb924

Project Name: Newhall Ranch Alternative 5

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

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>
TOTALS (lbs/day, unmitigated)	1,161.26	439.56	206.76	0.87	11.60	11.47

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)	781.21	753.84	6,702.53	17.68	3,478.72	674.43

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)	1,942.47	1,193.40	6,909.29	18.55	3,490.32	685.90

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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	23.20	303.28	148.77	0.00	0.58	0.57
Hearth	7.97	136.28	57.99	0.87	11.02	10.90
Landscaping - No Winter Emissions						
Consumer Products	1,036.05					
Architectural Coatings	94.04					
TOTALS (lbs/day, unmitigated)	1,161.26	439.56	206.76	0.87	11.60	11.47

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%

Operational Unmitigated Detail Report:

OPERATIONAL 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>PM25</u>
Single family housing	225.77	227.38	2,039.58	5.40	1,060.11	205.57
Condo/townhouse general	235.55	233.20	2,091.85	5.54	1,087.27	210.84
Elementary school	24.27	14.04	124.15	0.32	63.38	12.29
High school	12.02	8.37	72.58	0.19	38.53	7.46
City park	2.60	2.40	20.79	0.06	10.97	2.12
Free-standing discount superstore	174.90	163.94	1,429.05	3.70	733.19	142.10
Strip mall	11.18	9.53	83.88	0.21	41.56	8.06
Office park	35.42	35.29	312.37	0.84	164.87	31.95
Developed Park	0.40	0.30	2.63	0.01	1.39	0.27
Commercial Office	59.10	59.39	525.65	1.41	277.45	53.77
TOTALS (lbs/day, unmitigated)	781.21	753.84	6,702.53	17.68	3,478.72	674.43

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 21.17 Nonresidential Trip % Reduction: 24.54

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
Single family housing	2,966.67	7.80	dwelling units	8,900.00	69,455.03	614,329.87
Condo/townhouse general	706.00	6.31	dwelling units	11,296.00	71,234.96	630,073.36
Elementary school		1.09	students	5,250.00	5,744.16	36,730.00
High school		1.35	students	2,230.00	3,012.02	22,339.01
City park		6.01	acres	152.80	917.77	6,360.13
Free-standing discount superstore		40.79	1000 sq ft	1,784.73	72,802.77	424,945.10
Strip mall		27.96	1000 sq ft	174.00	4,865.80	24,078.93
Office park		7.70	1000 sq ft	1,390.89	10,705.14	95,558.08
Developed Park		1.96	acres	59.11	115.97	803.64
Commercial Office		8.72	1000 sq ft	2,065.23	18,014.64	160,805.45
					256,868.26	2,016,023.57

<u>Vehicle Fleet Mix</u>				
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

	<u>Travel Conditions</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
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)						
Elementary school				20.0	10.0	70.0
High school				10.0	5.0	85.0
City park				5.0	2.5	92.5
Free-standing discount superstore				2.0	1.0	97.0
Strip mall				2.0	1.0	97.0
Office park				48.0	24.0	28.0
Developed Park				5.0	2.5	92.5
Commercial Office				48.0	24.0	28.0