

### 3/5/2008 10:15:46 AM

#### 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\Newhall Ranch

Project Name: Newhall Ranch Alternative 3 Project Location: Los Angeles County

AREA SOURCE EMISSION ESTIMATES

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

### Summary Report:

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5
TOTALS (lbs/day, unmitigated)	1,240.46	311.50	566.27	0.02	1.69	1.68
OPERATIONAL (VEHICLE) EMISSION ESTIMATES						

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5
TOTALS (lbs/day, unmitigated)	747.10	634.69	7,204.64	21.57	3,518.37	682.12

SUM OF AREA SOURCE AND OPERATIONAL EM	ISSION ESTIMATES					
	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	PM10	PM2.5
		0.40.40	<b>= ===</b> 0.4	04.50	0.500.00	

TOTALS (lbs/day, unmitigated)	1,987.56	946.19	7,770.91	21.59	3,520.06	683.80
Area Source Unmitigated Detail Report:						

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AREA SOURCE EMISSION ESTIMA	TES Summer Pounds Per Day, Unmitigated

<u>Source</u>	ROG	<u>NOx</u>	<u>co</u>	<u>SO2</u>	<u>PM10</u>	PM2.5
Natural Gas	23.47	306.79	150.47	0.00	0.58	0.58
Hearth - No Summer Emissions						
Landscape	73.74	4.71	415.80	0.02	1.11	1.10
Consumer Products	1,048.21					
Architectural Coatings	95.04					
TOTALS (lbs/day, unmitigated)	1,240.46	311.50	566.27	0.02	1.69	1.68
· ·		311.50	566.27	0.02	1.69	1.68

#### 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 Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25
Single family housing	215.87	191.35	2,203.94	6.59	1,072.53	207.98
Condo/townhouse general	229.36	196.31	2,261.06	6.76	1,100.33	213.37
Elementary school	31.29	11.71	130.69	0.39	63.37	12.29
High school	14.82	6.97	76.90	0.23	38.53	7.46
City park	2.54	2.00	21.94	0.07	10.97	2.12
Free-standing discount superstore	153.48	138.36	1,510.83	4.52	741.61	143.73
Strip mall	9.73	7.96	86.76	0.25	41.55	8.06
Office park	33.93	29.89	340.85	1.03	167.88	32.54
Developed Park	0.46	0.25	2.77	0.01	1.39	0.27
Commercial Office	55.62	49.89	568.90	1.72	280.21	54.30
TOTALS (lbs/day, unmitigated)	747.10	634.69	7,204.64	21.57	3,518.37	682.12

## Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 21.16 Nonresidential Trip % Reduction: 24.56

Analysis Year: 2030 Temperature (F): 80 Season: Summer

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

Summary	∩f	land	ععوا ا

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Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	3,001.00	7.81	dwelling units	9,003.00	70,268.64	621,526.24
Condo/townhouse general	714.38	6.31	dwelling units	11,430.00	72,090.05	637,636.63
Elementary school		1.09	students	5,250.00	5,743.05	36,722.87
High school		1.35	students	2,230.00	3,011.43	22,334.67
City park		6.01	acres	152.80	917.60	6,358.89
Free-standing discount superstore		40.78	1000 sq ft	1,805.56	73,638.17	429,821.30
Strip mall		27.96	1000 sq ft	174.00	4,864.85	24,074.25
Office park		7.70	1000 sq ft	1,416.58	10,900.75	97,304.16
Developed Park		1.96	acres	59.11	115.94	803.49
Commercial Office		8.72	1000 sq ft	2,086.21	18,194.11	162,407.48
					259,744.59	2,038,989.98

		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	itions			
		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

48.0

24.0

28.0

Commercial Office

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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\Newhall Ranch

Project Name: Newhall Ranch Alternative 3 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:	

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AREA SOURCE EMISSION ESTIMATES	3									
		ROG	<u>NOx</u>	<u>CO</u>	SO2	<u>PM10</u>	PM2.5			
TOTALS (lbs/day, unmitigated)		1,174.79	444.66	209.14	0.88	11.73	11.61			
OPERATIONAL (VEHICLE) EMISSION ESTIMATES										
		ROG	<u>NOx</u>	<u>CO</u>	SO2	<u>PM10</u>	PM2.5			
TOTALS (lbs/day, unmitigated)		789.92	762.41	6,778.79	17.89	3,518.37	682.12			
SUM OF AREA SOURCE AND OPERAT	IONAL EMISSION E	STIMATES								
		ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5			
TOTALS (lbs/day, unmitigated)		1,964.71	1,207.07	6,987.93	18.77	3,530.10	693.73			
Area Source Unmitigated Detail Report:										
AREA SOURCE EMISSION ESTIMATES	Winter Pounds Per	Day, Unmitigated	d							
<u>Source</u>	<u>ROG</u>	<u>NOx</u>	CO		SO2	<u>PM10</u>	PM2.5			
Natural Gas	23.47	306.79	150.47		0.00	0.58	0.58			
Hearth	8.07	137.87	58.67		0.88	11.15	11.03			
Landscaping - No Winter Emissions										
Consumer Products	1,048.21									
Architectural Coatings	95.04									
TOTALS (lbs/day, unmitigated)	1,174.79	444.66	209.14		0.88	11.73	11.61			

### 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

Source	ROG	NOX	CO	SO2	PM10	PM25
Single family housing	228.41	230.04	2,063.47	5.47	1,072.53	207.98
Condo/townhouse general	238.37	236.00	2,116.96	5.61	1,100.33	213.37
Elementary school	24.27	14.04	124.12	0.32	63.37	12.29
High school	12.02	8.37	72.56	0.19	38.53	7.46
City park	2.60	2.40	20.78	0.06	10.97	2.12
Free-standing discount superstore	176.91	165.82	1,445.45	3.75	741.61	143.73
Strip mall	11.18	9.52	83.86	0.21	41.55	8.06
Office park	36.07	35.94	318.07	0.85	167.88	32.54
Developed Park	0.40	0.30	2.63	0.01	1.39	0.27
Commercial Office	59.69	59.98	530.89	1.42	280.21	54.30
TOTALS (lbs/day, unmitigated)	789.92	762.41	6,778.79	17.89	3,518.37	682.12

## Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 21.16 Nonresidential Trip % Reduction: 24.56

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

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

Summary	/ of ∣	Land	Uses

Land Han Time	A = = = = = = = = = = = = = = = = = = =	Trin Data	Linit Tuna	No Unito	Total Trins	Total \/MT
Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
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Vehicle Type		Percent Type	Non-Catalyst		Catalyst	Diesel	
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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	itions				
		Residential		Commercial			
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer	
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Free-standing discount superstore				2.0	1.0	97.0	
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Commercial Office