

#### 3/5/2008 10:20:59 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 4
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 ESTIMATE:	S									
		<u>ROG</u>	<u>NOx</u>	<u>CO</u>	SO2	<u>PM10</u>	PM2.5			
TOTALS (lbs/day, unmitigated)		1,256.54	314.74	569.69	0.02	1.71	1.69			
OPERATIONAL (VEHICLE) EMISSION ESTIMATES										
		ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5			
TOTALS (lbs/day, unmitigated)		753.00	639.80	7,264.23	21.74	3,547.32	687.75			
SUM OF AREA SOURCE AND OPERAT	SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES									
		<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5			
TOTALS (lbs/day, unmitigated)		2,009.54	954.54	7,833.92	21.76	3,549.03	689.44			
Area Source Unmitigated Detail Report:										
AREA SOURCE EMISSION ESTIMATES	S Summer Pounds P	er Day, Unmitigate	ed							
<u>Source</u>	ROG	<u>NOx</u>	CO	<u>)</u>	SO2	<u>PM10</u>	PM2.5			
Natural Gas	23.72	310.00	151.88	}	0.00	0.59	0.58			
Hearth - No Summer Emissions										
Landscape	74.11	4.74	417.81		0.02	1.12	1.11			
Consumer Products	1,062.99									
Architectural Coatings	95.72									
TOTALS (lbs/day, unmitigated)	1,256.54	314.74	569.69		0.02	1.71	1.69			

### 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	217.27	192.64	2,218.85	6.63	1,079.78	209.39
Condo/townhouse general	234.57	200.83	2,313.19	6.91	1,125.70	218.29
Elementary school	31.26	11.68	130.36	0.39	63.21	12.26
High school	14.81	6.95	76.70	0.23	38.43	7.44
City park	2.53	1.99	21.89	0.07	10.94	2.12
Free-standing discount superstore	152.45	137.42	1,500.55	4.49	736.56	142.76
Strip mall	9.70	7.94	86.54	0.25	41.45	8.04
Office park	34.66	30.52	348.06	1.05	171.43	33.22
Developed Park	0.46	0.25	2.77	0.01	1.38	0.27
Commercial Office	55.29	49.58	565.32	1.71	278.44	53.96
TOTALS (lbs/day, unmitigated)	753.00	639.80	7,264.23	21.74	3,547.32	687.75

## Operational Settings:

Developed Park

Commercial Office

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 21.02 Nonresidential Trip % Reduction: 24.75

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

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	3,016.00	7.82	dwelling units	9,048.00	70,744.05	625,731.26
Condo/townhouse general	729.56	6.32	dwelling units	11,673.00	73,752.14	652,337.81
Elementary school		1.09	students	5,250.00	5,728.66	36,630.91
High school		1.35	students	2,230.00	3,003.89	22,278.74
City park		5.99	acres	152.80	915.30	6,342.97
Free-standing discount superstore		40.68	1000 sq ft	1,797.78	73,137.24	426,897.43
Strip mall		27.89	1000 sq ft	174.00	4,852.67	24,013.96
Office park		7.68	1000 sq ft	1,450.17	11,131.28	99,361.98

1.96

8.70

acres

1000 sq ft

59.11

2,078.28

115.65

18,079.56 261,460.44 801.48

161,384.97

2,055,781.51

Summary of Land Uses

		Vehicle Fleet	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
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

#### 3/5/2008 10:21:30 AM

Summary Report:

Hearth

Consumer Products

**Architectural Coatings** 

Landscaping - No Winter Emissions

TOTALS (lbs/day, unmitigated)

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# Combined Winter Emissions Reports (Pounds/Day)

0.89

0.89

11.29

11.88

11.17

11.75

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

Project Name: Newhall Ranch Alternative 4
Project Location: Los Angeles County

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

8.17

1,062.99

1,190.60

95.72

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES							
		<u>ROG</u>	<u>NOx</u>	<u>CO</u>	SO2	<u>PM10</u>	PM2.5
TOTALS (lbs/day, unmitigated)		1,190.60	449.59	211.28	0.89	11.88	11.75
OPERATIONAL (VEHICLE) EMISSION ESTIM	ATES						
		<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5
TOTALS (lbs/day, unmitigated)		796.01	768.60	6,834.34	18.03	3,547.32	687.75
SUM OF AREA SOURCE AND OPERATIONAL	L EMISSION E	STIMATES					
		<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5
TOTALS (lbs/day, unmitigated)		1,986.61	1,218.19	7,045.62	18.92	3,559.20	699.50
Area Source Unmitigated Detail Report:							
AREA SOURCE EMISSION ESTIMATES Wint	er Pounds Per	Day, Unmitigated	d				
Source	ROG	<u>NOx</u>	CO	<u> </u>	SO2	<u>PM10</u>	PM2.5
Natural Gas	23.72	310.00	151.8	8	0.00	0.59	0.58

139.59

449.59

59.40

211.28

### 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	229.93	231.60	2,077.43	5.50	1,079.78	209.39
Condo/townhouse general	243.83	241.44	2,165.76	5.74	1,125.70	218.29
Elementary school	24.23	14.01	123.81	0.32	63.21	12.26
High school	12.00	8.35	72.38	0.19	38.43	7.44
City park	2.60	2.39	20.73	0.06	10.94	2.12
Free-standing discount superstore	175.71	164.70	1,435.61	3.72	736.56	142.76
Strip mall	11.15	9.50	83.65	0.21	41.45	8.04
Office park	36.84	36.70	324.80	0.87	171.43	33.22
Developed Park	0.40	0.30	2.62	0.01	1.38	0.27
Commercial Office	59.32	59.61	527.55	1.41	278.44	53.96
TOTALS (lbs/day, unmitigated)	796.01	768.60	6,834.34	18.03	3,547.32	687.75

## Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

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Office park		7.68	1000 sq ft	1,450.17	11,131.28	99,361.98
Developed Park		1.96	acres	59.11	115.65	801.48
Commercial Office		8.70	1000 sq ft	2,078.28	18,079.56	161,384.97
					261,460.44	2,055,781.51

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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			
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Commercial Office