

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Documents and Settings\glu\My Documents\Alex's Projects\Amargosa
Creek SP\URBEMIS\Operational\Amargosa Creek 2030 Operational Emissions.urb
Project Name: Amargosa Creek Operational Emissions
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	18.38	17.51	17.82	0.00	0.04

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	64.28	48.82	586.12	1.48	256.59

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	82.65	66.33	603.94	1.48	256.62

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SUMMARY REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	17.93	17.46	14.67	0.00	0.03

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	60.69	69.05	578.17	1.34	256.59

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	78.62	86.51	592.84	1.34	256.62

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DETAIL REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)						
Source	ROG	NOx	CO	SO2	PM10	
Natural Gas	1.27	17.46	14.67	0	0.03	
Hearth	0.00	0.00	0.00	0.00	0.00	
Landscaping - No winter emissions						
Consumer Prdcts	0.00	-	-	-	-	
Architectural Coatings	16.66	-	-	-	-	
TOTALS(lbs/day,unmitigated)	17.93	17.46	14.67	0.00	0.03	

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Hotel	2.33	2.62	21.89	0.05	9.75
Shopping Center	35.32	39.14	330.51	0.74	142.34
General Office	6.67	8.20	66.96	0.17	32.50
Medical-Dental Office Bui	12.54	14.34	120.03	0.28	53.25
Hospital	3.84	4.76	38.77	0.10	18.75
TOTAL EMISSIONS (lbs/day)	60.69	69.05	578.17	1.34	256.59

Includes correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Hotel		8.17 trips/rooms	200.00	1,634.00
Shopping Center		27.04 trips/1000 sq. ft.	975.00	26,364.00
General Office		9.36 trips/1000 sq. ft.	400.00	3,744.00
Medical-Dental Office Bui		34.87 trips/1000 sq. ft.	256.20	8,933.69
Hospital		11.40 trips/beds	200.00	2,280.00
Sum of Total Trips			42,955.69	
Total Vehicle Miles Traveled			169,828.01	

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			

% of Trips - Commercial (by land use)

Hotel	5.0	2.5	92.5
Shopping Center	2.0	1.0	97.0
General Office	35.0	17.5	47.5
Medical-Dental Office Building	7.0	3.5	89.5
Hospital	25.0	12.5	62.5

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.
The landscape year changed from 2005 to 2020.
The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0116.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2030.

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(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	1.27	17.46	14.67	0	0.03
Hearth - No summer emissions					
Landscaping	0.45	0.05	3.15	0.00	0.01
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	16.66	-	-	-	-
TOTALS(lbs/day,unmitigated)	18.38	17.51	17.82	0.00	0.04

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Hotel	3.02	1.85	22.15	0.06	9.75
Shopping Center	36.52	27.77	328.78	0.82	142.34
General Office	7.81	5.73	72.18	0.19	32.50
Medical-Dental Office Bui	12.55	10.14	121.63	0.31	53.25
Hospital	4.38	3.33	41.38	0.11	18.75
TOTAL EMISSIONS (lbs/day)	64.28	48.82	586.12	1.48	256.59

Includes correction for passby trips.
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OPERATIONAL (Vehicle) EMISSION ESTIMATES

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Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

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% of Trips - Residential	20.0	37.0	43.0			

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