Appendix C
Air Quality and GHG Analysis (VOLUME II)

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Criteria Air Pollutant Summaries

	Existing (Lbs/Day)					
Sector	**VOC**	**NOx**	**CO**	**SO2**	**PM10**	**PM2.5**
Transportation [2, 3]	2,126	8,017	22,876	107	1,271	613
Landscaping and Natural Gas [1]	2,568	0	0	0	0	0
Heavy Duty Truck Idling [4]	32	168	231	1	3	3
Commercial, Industrial Equipment [1, 3, 5]	160	731	6,782	2	22	22
Construction [5]	19	74	252	0	3	3
Area subtotal	2,779	973	7,265	3	28	28
Energy	21	195	163	1	15	15
Total	4,926	9,184	30,303	111	1,314	656

Source: CalEEMod Version 2011.1.1., OFFROAD2007, and EMFAC2011. Based on 2035 emission rates for Post-2035 GP comparison.

1. Various industrial and commercial processes (e.g., manufacturing, dry cleaning) allowed under the Preferred Land Use Plan would require permitting and would be subject to further study pursuant to SCAQMD Rule 1401. Because the nature of those emissions cannot be determined at this time and are subject to further regulation and permitting, they are not included in the table.

2. VMT per year based on a conversion of VMT x 347 days per year to account for less travel on weekend, consistent with the California Air Resources Board's (CARB) statewide GHG emissions inventory methodology (CARB 2008).

3. Excludes all emissions from the Union Pacific Railroad (UPRR) rail yard within the City including trains and yard equipment. These emissions are under the jurisdiction of UPRR and separate agreements with CARB have been made for air pollutant emissions reductions associated with trains and yard equipment.

4. Includes idling of heavy duty trucks (MHDT and HHDT) based on EMFAC2011. The annual idling emission rates are composite of winter and summer high idle; and the emission rates have been corrected for cleaner fuel and retrofit requirements, but not for the idling rule.

5. Includes unpermitted sources: transport refrigeration units, light commercial, industrial and other portable equipment from Offroad2007, proportioned based on City vs. County employment data. Also includes construction emissions from Offroad2007 proportioned based on City vs. County acreage.

	Post-2035 General Plan Buildout (Lbs/Day)					
Sector	**VOC**	**NOx**	**CO**	**SO2**	**PM10**	**PM2.5**
Transportation [2, 3]	2,538	9,572	27,313	127	1,518	732
Landscaping and Natural Gas [1]	2,925	0	0	0	0	0
Heavy Duty Truck Idling [4]	48	207	302	1	4	4
Commercial, Industrial Equipment [1, 3, 4]	255	1,167	10,825	3	36	35
Construction	19	74	252	0	3	3
Area subtotal	3,247	1,448	11,379	4	43	42
Energy	25	228	191	1	17	17
Total	5,810	11,248	38,884	133	1,578	791

Source: CalEEMod Version 2011.1.1., OFFROAD2007, and EMFAC2011. Based on 2035 emission rates for Post-2035 GP comparison.

1. Various industrial and commercial processes (e.g., manufacturing, dry cleaning) allowed under the Preferred Land Use Plan would require permitting and would be subject to further study pursuant to SCAQMD Rule 1401. Because the nature of those emissions cannot be determined at this time and are subject to further regulation and permitting, they are not included in the table.

2. VMT per year based on a conversion of VMT x 347 days per year to account for less travel on weekend, consistent with the California Air Resources Board's (CARB) statewide GHG emissions inventory methodology (CARB 2008).

3. Excludes all emissions from the Union Pacific Railroad (UPRR) rail yard within the City including trains and yard equipment. These emissions are under the jurisdiction of UPRR and separate agreements with CARB have been made for air pollutant emissions reductions associated with trains and yard equipment.

4. Includes truck idling based on EMFAC2011. The annual idling emission rates are composite of winter and summer high idle; and the emission rates have been corrected for cleaner fuel and retrofit requirements, but not for the idling rule.

5. Includes transport refrigeration units, light commercial, industrial and other portable equipment from Offroad2007, proportioned based on City vs. County employment data. Also includes construction emissions from Offroad2007 proportioned based on City vs. County acreage.

	Net Difference (lbs/day)					
Sector	**VOC**	**NOx**	**CO**	**SO2**	**PM10**	**PM2.5**
Transportation Net	412	1,555	4,437	21	247	119
Landscaping and Natural Gas [1, 3]	357	0	0	0	0	0
Heavy Duty Truck Idling [4]	16	39	72	0	1	1
Commercial, Industrial Equipment [1, 3, 4]	95	436	4,043	1	14	13
Construction	0	0	0	0	0	0
Area subtotal	468	475	4,115	1	15	14
Energy net	4	34	28	0	3	3
Total net increase	884	2,064	8,581	22	264	135
Threshold	55	55	550	150	150	55
Exceeds Threshold	Yes	Yes	Yes	No	Yes	Yes

GHG Summaries

Sector	Notes	Existing BAU MTons/Year		Post-2035 Adjusted Inventory MTons/Year		Increase MTons/Year
Transportation	4, 6	822,480	62%	781,810	56%	-40,670
Energy	3	273,750	21%	323,480	23%	49,730
Waste	5	104,270	8%	117,390	8%	13,120
Industrial	1, 2	73,060	6%	73,060	5%	0
Area	6, 7, 8	41,460	3%	78,180	6%	36,720
Water	9	10,130	1%	11,940	1%	1,810
Total		1,325,150		1,385,860		60,710
Without Permitted Sources		1,252,090		1,312,800		60,710
Service Population (SP)		*69,244*		*110,178*		40,934
MTons/SP		*18.1*		*11.9*		-6.2
15% Below Existing 2020 Target		1,064,277				

1. Various industrial and commercial processes (e.g., manufacturing, dry cleaning) allowed under the Preferred Land Use Plan would require permitting and would be subject to further study pursuant to SCAQMD Rule 1401. Because the nature of those emissions , future emissions cannot be determined at this time and are subject to further regulation and permitting. Existing emissions are reported where available and are assumed to have no change for the 2035 inventory.

2. Fuel usage from permitted sources provided by SCAQMD, excludes landfill gas generated by the Puente Hills Landfill within the County of Los Angeles.

3. Off-model calculation to account for only new structures achieving new energy code. Based on energy rates included in the CalEEMod program. Does not include reductions from the State's Renewable Portfolio Standard (RPS) 33% goal.

4. VMT per year based on a conversion of VMT x 347 days per year to account for less travel on weekend, consistent with the California Air Resources Board's (CARB) statewide GHG emissions inventory methodology (CARB 2008).

5. Existing 2008 waste disposal for the City of Industry (excluding the Sphere of Influence), reported by CalRecycle, is 122,385 tons per year including Alternative Daily Cover (ADC). However, for this EIR, waste disposal rates are calculated using land use specific rates from CalRecycle, which overestimates waste disposal in the City for existing and GP buildout. Using the USEPA Waste Model (excluding biogenic CO2), GHG emissions from waste would be 38,501 MTons.

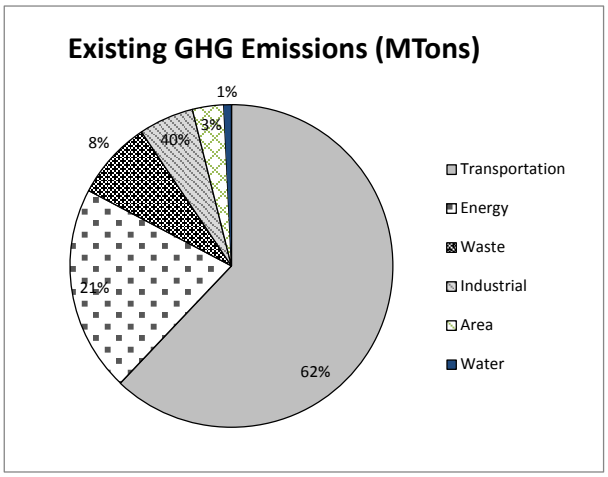
6. Excludes all emissions from the Union Pacific Railroad (UPRR) rail yard within the City including trains and yard equipment. These emissions are under the jurisdiction of UPRR and separate agreements with CARB have been made for air pollutant emissions reductions associated with trains and yard equipment.

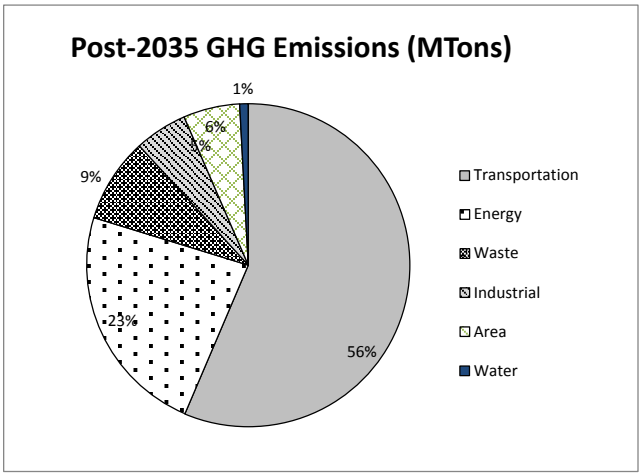
7. Includes areas sources associated with truck idling. Truck idling is based on 10 minutes per trip.

8. Includes unpermitted sources: transport refrigeration units, light commercial, industrial and other portable equipment from Offroad2007, proportioned based on City vs. County employment data. Also includes construction emissions from Offroad2007 proportioned based on City vs. County acreage.

9. Based on water demand factors from the Sanitation Districts of Los Angeles County and modeled using CalEEMod.

Note: GHG reduction targets for the City of Industry exclude permitted sources.





SCAQMD 2008 AER Inventory Fuel Usage from Facilities in the City of Industry			Local Government Operations Protocol (CARB 2010)				
City Name	Fuel Description	Total Usage/ Year	Conversion	Unit	MTons CO2 per:	Unit	MTons
CITY OF INDUSTRY	Natural Gas (mmcf)	1336.04	0.0545	kg CO2/scf	0.0000545	scf	72,814
CITY OF INDUSTRY	LPG, Propane, Butane (1000 gals)	3.66	6.58	Kg CO2/gallon	0.00658	gallon	24
CITY OF INDUSTRY	Diesel/Distillate Oil (1000 gals)	19.98	10.18	Kg CO2/gallon	0.01018	gallon	203
CITY OF INDUSTRY	Gasoline (1000 gals)	1.77	8.78	Kg CO2/gallon	0.00878	gallon	16
CITY OF INDUSTRY	KEROSENE (1000 gals)	0.7	10.15	Kg CO2/gallon	0.01015	gallon	7
CITY OF INDUSTRY	Landfill Gas (mmcf)- Puente Hills LF	17282.69	0.0262	kg CO2/scf	0.0000262	scf	452,806
Source: South Coast Air Quality Management District						TOTAL	525,871
MMcf = million cubic feet						Excluding Landfi	73,064
scf = standard cubic foot							

Energy Rates

2005 Building Code	Unit	Title 24 Electricity KWhr/size/year	Non-Title 24 Electricity KWhr/size/year	Lighting Energy KWh/size/year	Title 24 Natural Gas KBTU/size/year	Non-Title 24 Natural Gas KBTU/size/year
Apartments Low Rise	DU	354.74	2,399.07	876.36	17,681.16	2,756.00
Congregate Care (Assisted Living)	DU	347.30	2,392.12	805.70	13,753.54	1,973.80
General Heavy Industry	SF	2.94	5.75	3.55	15.35	4.45
General Light Industry	SF	2.94	5.75	3.55	15.35	4.45
General Office Building	SF	5.99	4.62	4.29	12.05	0.39
Golf Course	Acre	0.00	0.00	0.00	0.00	0.00
Government (Civic Center)	SF	5.99	4.62	4.29	12.05	0.39
High School	SF	2.99	1.59	2.98	10.71	1.08
Hotel	SF	3.50	2.89	2.49	21.79	4.06
Industrial Park	SF	5.99	4.62	4.29	12.05	0.39
Office Park	SF	7.30	4.79	4.25	11.79	0.19
Place of Worship	SF	2.94	5.75	3.55	15.35	4.45
Single Family Housing	DU	1,076.38	4,476.23	1,478.48	39,406.00	5,936.60
Strip Mall	SF	5.17	3.23	7.04	1.33	0.49
Unrefrigerated Warehouse-No Rail	SF	0.85	1.34	2.23	1.01	0.03

Existing Energy

	Units	Title 24 Electricity KWhr/size/year	Non-Title 24 Electricity KWhr/size/year	Lighting Energy KWh/size/year	KWh/year	Title 24 Natural Gas KBTU/size/year	Non-Title 24 Natural Gas KBTU/size/year	KBTU
Apartments Low Rise	6	2,128.44	14,394.42	5,258.16	21,781	106,086.96	16,536.00	122,623
Congregate Care (Assisted Living)	244	84,741.20	583,677.28	196,590.80	865,009	3,355,863.76	481,607.20	3,837,471
General Heavy Industry	111,812	328,727.28	642,919.00	396,932.60	1,368,579	1,716,314.20	497,563.40	2,213,878
General Light Industry	29,208,589	85,873,251.66	167,949,386.75	103,690,490.95	357,513,129	448,351,841.15	129,978,221.05	578,330,062
General Office Building	2,063,621	12,361,089.79	9,533,929.02	8,852,934.09	30,747,953	24,866,633.05	804,812.19	25,671,445
Golf Course	385.7	0.00	0.00	0.00	0	0.00	0.00	0
Government (Civic Center)	390,714	2,340,376.86	1,805,098.68	1,676,163.06	5,821,639	4,708,103.70	152,378.46	4,860,482
High School	720,000	2,152,800.00	1,144,800.00	2,145,600.00	5,443,200	7,711,200.00	777,600.00	8,488,800
Hotel	661,263	2,314,420.50	1,911,050.07	1,646,544.87	5,872,015	14,408,920.77	2,684,727.78	17,093,649
Industrial Park	511,450	3,063,585.50	2,362,899.00	2,194,120.50	7,620,605	6,162,972.50	199,465.50	6,362,438
Office Park	150,282	1,097,058.60	719,850.78	638,698.50	2,455,608	1,771,824.78	28,553.58	1,800,378
Place of Worship	5,092	14,970.48	29,279.00	18,076.60	62,326	78,162.20	22,659.40	100,822
Single Family Housing	60	64,582.80	268,573.80	88,708.80	421,865	2,364,360.00	356,196.00	2,720,556
Strip Mall	9,168,015	47,398,637.55	29,612,688.45	64,542,825.60	141,554,152	12,193,459.95	4,492,327.35	16,685,787
Unrefrigerated Warehouse-No Rail	54,856,955	46,628,411.75	73,508,319.70	122,331,009.65	242,467,741	55,405,524.55	1,645,708.65	57,051,233
Total SQFT	97,848,179			Kwh/year	802,235,602.54		KBTU	725,339,624
Total DU + Beds	310			Mwh/year	802,236		Therm	7,253,396

Notes: 1 therm = 100,000 BTU (Appendix F, Standard Conversion Factors, California Air Resources Board, Local Government Operations Protocol. 2010)

Energy Rates

2008 Building Code	Unit		Title 24 Electricity KWhr/size/year	Non-Title 24 Electricity KWhr/size/year	Lighting Energy KWh/size/year		Title 24 Natural Gas KBTU/size/year	Non-Title 24 Natural Gas KBTU/size/year	
Apartments Low Rise	DU		284.86	2,399.07	876.36		16,443.48	2,756.00	
Congregate Care (Assisted Living)	DU		278.88	2,392.12	805.70		12,790.79	1,973.80	
Free-Standing Discount Superstore	SF		4.90	3.23	7.04		1.21	0.49	
General Heavy Industry	SF		2.75	5.75	3.55		14.36	4.45	
General Light Industry	SF		2.75	5.75	3.55		14.36	4.45	
General Office Building	SF		5.62	4.62	4.29		10.54	0.39	
Golf Course	Acre		0.00	0.00	0.00		0.00	0.00	
Government (Civic Center)	SF		5.62	4.62	4.29		10.54	0.39	
High School	SF		2.13	1.59	2.98		9.81	1.08	
Hotel	SF		3.12	2.89	2.49		20.96	4.06	
Industrial Park	SF		5.62	4.62	4.29		10.54	0.39	
Office Park	SF		6.86	4.79	4.25		10.10	0.19	
Place of Worship	SF		2.75	5.75	3.55		14.36	4.45	
Single Family Housing	DU		832.04	4,476.23	1,478.48		35,465.40	5,936.60	
Strip Mall	SF		4.90	3.23	7.04		1.21	0.49	
Unrefrigerated Warehouse-No Rail	SF		0.79	1.34	2.23		0.88	0.03	

Future Energy (corrected for lower energy demand for newer [2008] code)

	GP Units	Increase from Existing	Title 24 Electricity KWhr/size/year	Non-Title 24 Electricity KWhr/size/year	Lighting Energy KWh/size/year	KWh/year	Title 24 Natural Gas KBTU/size/year	Non-Title 24 Natural Gas KBTU/size/year	KBTU
Apartments Low Rise	6	0	2,128.44	14,394.42	5,258.16	21,781	106,086.96	16,536.00	122,623
Congregate Care (Assisted Living)	244	0	84,741.20	583,677.28	196,590.80	865,009	3,355,863.76	481,607.20	3,837,471
Free-Standing Discount Superstore	5,027,709	5,027,709	24,635,774.10	16,239,500.07	35,395,071.36	76,270,346	6,083,527.89	2,463,577.41	8,547,105
General Heavy Industry	13,527,982	13,416,170	37,223,194.78	77,785,896.50	48,024,336.10	163,033,427	194,372,515.40	60,199,519.90	254,572,035
General Light Industry	22,005,090	-7,203,499	64,694,964.60	126,529,267.50	78,118,069.50	269,342,302	337,778,131.50	97,922,650.50	435,700,782
General Office Building	2,320,452	256,831	13,804,480.01	10,720,488.24	9,954,739.08	34,479,707	27,573,631.79	904,976.28	28,478,608
Golf Course	631	245	0.00	0.00	0.00	0	0.00	0.00	0
Government (Civic Center)	390,714	0	2,340,376.86	1,805,098.68	1,676,163.06	5,821,639	4,708,103.70	152,378.46	4,860,482
High School	720,000	0	2,152,800.00	1,144,800.00	2,145,600.00	5,443,200	7,711,200.00	777,600.00	8,488,800
Hotel	521,000	-140,263	1,876,799.94	1,505,690.00	1,297,290.00	4,679,780	11,469,008.29	2,115,260.00	13,584,268
Industrial Park	342,301	-169,149	2,050,382.99	1,581,430.62	1,468,471.29	5,100,285	4,124,727.05	133,497.39	4,258,224
Office Park	1,252,000	1,101,718	8,654,844.08	5,997,080.00	5,321,000.00	19,972,924	12,899,176.58	237,880.00	13,137,057
Place of Worship	5,092	0	14,970.48	29,279.00	18,076.60	62,326	78,162.20	22,659.40	100,822
Single Family Housing	52	-8	55,971.76	232,763.96	76,880.96	365,617	2,049,112.00	308,703.20	2,357,815
Strip Mall	6,769,229	-2,398,786	34,996,913.93	21,864,609.67	47,655,372.16	104,516,896	9,003,074.57	3,316,922.21	12,319,997
Unrefrigerated Warehouse-No Rail	58,680,240	3,823,285	49,648,806.90	78,631,521.60	130,856,935.20	259,137,264	58,770,015.35	1,760,407.20	60,530,423
Total SQFT	111,562,440	13,714,261			Kwh/year	949,112,501.88		KBTU	850,896,512
Total DU + Beds	302	-8			Mwh/year	949,113		Therm	8,508,965

Notes: 1 therm = 100,000 BTU (Appendix F, Standard Conversion Factors, California Air Resources Board, Local Government Operations Protocol. 2010)

				Increase	Kwh/year	146,876,899.34	Increase	KBTU	125,556,888
					Mwh/year	146,876.90		Therm	1,255,569
					Percent	18%		Percent	17%

GHGs from Energy

	1	21	310		
	CO2	CH4	N2O	CO2e	CO2e
	1000 lbs/kwh	1000 lbs/kwh	1000 lbs/kwh	1000 lbs/kwh	MTons/Kwh
SCE Energy Intensity:	641.26	0.03	0.01	645.28	0.000293

Natural Gas		1	21	310		
		CO2-Nbio	CH4	N2O	CO2e	CO2e
		lbs/KBTU	lbs/KBTU	lbs/KBTU	lbs/KBTU	MTons/KBTU
Residential		117.65	0.0022549	0.00215686	118.36	0.000053689
Non-Residential		117.65	0.0022549	0.00215686	118.36	0.000053689

MTons/Year	Energy **Existing**	Natural Gas **Existing**	MTons **Existing Total**	Energy **GP**	Natural Gas **GP**	MTons **GP Total**	Net MTons
Apartments Low Rise	6.38	6.58	12.96	6.38	6.58	12.96	0
Congregate Care (Assisted Living)	253.18	206.03	459.21	253.18	206.03	459.21	0
Free-Standing Discount Superstore	0.00	0.00	0.00	22,323.84	458.88	22,782.73	22,783
General Heavy Industry	400.57	118.86	519.43	47,718.84	13,667.61	61,386.45	60,867
General Light Industry	104,641.81	31,049.71	135,691.52	78,834.77	23,392.15	102,226.92	-33,465
General Office Building	8,999.73	1,378.26	10,377.99	10,091.99	1,528.98	11,620.97	1,243
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	0
Government (Civic Center)	1,703.96	260.95	1,964.91	1,703.96	260.95	1,964.91	0
High School	1,593.19	455.75	2,048.94	1,593.19	455.75	2,048.94	0
Hotel	1,718.70	917.73	2,636.43	1,369.74	729.32	2,099.06	-537
Industrial Park	2,230.50	341.59	2,572.09	1,492.82	228.62	1,721.44	-851
Office Park	718.74	96.66	815.40	5,845.95	705.31	6,551.26	5,736
Place of Worship	18.24	5.41	23.66	18.24	5.41	23.66	0
Single Family Housing	123.48	146.06	269.54	107.01	126.59	233.60	-36
Strip Mall	41,432.00	895.84	42,327.83	30,591.43	661.44	31,252.87	-11,075
Unrefrigerated Warehouse-No Rail	70,968.76	3,063.00	74,031.76	75,847.82	3,249.79	79,097.62	5,066
Total	234,809	38,942	273,752	277,799	45,683	323,483	49,731

Criteria Air Pollutants from Natural Gas

Natural Gas						
lbs/MBTU	ROG	NOx	CO	SO2	PM10	PM2.5
Residential	0.01078431	0.09215686	0.03921569	0.00058824	0.00745098	0.00745098
Non-Residential	0.01078431	0.09803922	0.08235294	0.00058824	0.00745098	0.00745098

Existing	**days/year**	**ROG**	**NOx**	**CO**	**SO2**	**PM10**	**PM2.5**
Apartments Low Rise	365	0.004	0.031	0.013	0.000	0.003	0.003
Congregate Care (Assisted Living)	365	0.113	0.969	0.412	0.006	0.078	0.078
Free-Standing Discount Superstore	365	0.000	0.000	0.000	0.000	0.000	0.000
General Heavy Industry	365	0.065	0.595	0.500	0.004	0.045	0.045
General Light Industry	365	17.087	155.340	130.485	0.932	11.806	11.806
General Office Building	365	0.758	6.895	5.792	0.041	0.524	0.524
Golf Course	365	0.000	0.000	0.000	0.000	0.000	0.000
Government (Civic Center)	365	0.144	1.306	1.097	0.008	0.099	0.099
High School	365	0.251	2.280	1.915	0.014	0.173	0.173
Hotel	365	0.505	4.591	3.857	0.028	0.349	0.349
Industrial Park	365	0.188	1.709	1.436	0.010	0.130	0.130
Office Park	365	0.053	0.484	0.406	0.003	0.037	0.037
Place of Worship	365	0.003	0.027	0.023	0.000	0.002	0.002
Single Family Housing	365	0.080	0.687	0.292	0.004	0.056	0.056
Strip Mall	365	0.493	4.482	3.765	0.027	0.341	0.341
Unrefrigerated Warehouse-No Rail	365	1.686	15.324	12.872	0.092	1.165	1.165
Total		21	195	163	1	15	15

Future Post 2035	**days/year**	**ROG**	**NOx**	**CO**	**SO2**	**PM10**	**PM2.5**
Apartments Low Rise	365	0.004	0.031	0.013	0.000	0.003	0.003
Congregate Care (Assisted Living)	365	0.113	0.969	0.412	0.006	0.078	0.078
Free-Standing Discount Superstore	365	0.253	2.296	1.928	0.014	0.174	0.174
General Heavy Industry	365	7.522	68.378	57.438	0.410	5.197	5.197
General Light Industry	365	12.873	117.029	98.305	0.702	8.894	8.894
General Office Building	365	0.841	7.649	6.425	0.046	0.581	0.581
Golf Course	365	0.000	0.000	0.000	0.000	0.000	0.000
Government (Civic Center)	365	0.144	1.306	1.097	0.008	0.099	0.099
High School	365	0.251	2.280	1.915	0.014	0.173	0.173
Hotel	365	0.401	3.649	3.065	0.022	0.277	0.277
Industrial Park	365	0.126	1.144	0.961	0.007	0.087	0.087
Office Park	365	0.388	3.529	2.964	0.021	0.268	0.268
Place of Worship	365	0.003	0.027	0.023	0.000	0.002	0.002
Single Family Housing	365	0.070	0.595	0.253	0.004	0.048	0.048
Strip Mall	365	0.364	3.309	2.780	0.020	0.251	0.251
Unrefrigerated Warehouse-No Rail	365	1.788	16.259	13.657	0.098	1.236	1.236
Total		25	228	191	1	17	17

Project

Land Use	*Total Acres*	*Dwelling Units*	*Square Footage [1]*	*Jobs*	*CalEEMod Land Use*	*(Section 5.14 USS) Water Generation Rates (g/day)*	*unit*	*Water Demand (g/day)*	*CalEEMod indoor default*	*Indoor (g/year)*	*Outdoor (g/year)*	*Waste Generation Rates (lbs/day)*	*unit*	*Waste Demand (tons/year)*
Residential Uses[1]														
Existing Single-Family Residential	8.2	25			Single Family housing	325	unit	8,125	0.61	1,809,031	1,156,594	9.7000	unit	44
Guest House on equestrian center	0.0	1												
Existing Single-Family Residential	5.4	16			Single Family housing	325	unit	5,200	0.61	1,157,780	740,220	9.7000	unit	28
Existing Single-Family Residential	4.0	10			Single Family housing	325	unit	3,250	0.61	723,613	462,638	9.7000	unit	18
Single Family Residential	17.6	52			Single Family housing	325	unit	16,575	0.61	3,690,424	2,359,451	9.7000	unit	90
Existing Multi-Family Residential		6			Apartments Low Rise	325	unit	1,950	0.61	434,168	277,583	9.7000	unit	11
		58						*18,525*		*4,124,591*	*2,637,034*			*101*
Business Uses														
Retail	278.3		6,062,229	13,472	Strip Mall	0.188	SF	1,139,699	0.62	257,913,895	158,076,259	0.0060	SF	6,638
IBC-Commercial (.25 FAR)	22.4		245,000	318	Strip Mall	0.188	SF	46,060	0.62	10,423,378	6,388,522	0.0060	SF	268
IBC-Commercial (.25 FAR)	61.8		462,000	890	Strip Mall	0.188	SF	86,856	0.62	19,655,513	12,046,927	0.0060	SF	506
	362.5		6,769,229	14,680	Strip Mall	0.188	SF	1,272,615	0.62	287,992,786	176,511,708	0.0060	SF	7,412
Big Box Retail	110.9		2,414,437	2,840	Free Standing Discount Superstore	0.188	SF	453,914	0.62	102,720,774	62,957,893	0.0060	SF	2,644
IBC-Auto/Big Box Commercial	10.5		561,000	729	Free Standing Discount Superstore	0.188	SF	105,468	0.62	23,867,408	14,628,412	0.0060	SF	614
Auto Dealers	94.2		2,052,272	800	Free Standing Discount Superstore	0.188	SF	385,827	0.62	87,312,681	53,514,224	0.0060	SF	2,247
	215.6		5,027,709	4,369	Free Standing Discount Superstore	0.188	SF	945,209	0.62	213,900,863	131,100,529	0.0060	SF	5,505
								2,217,824		*501,893,649*	*307,612,237*	*0*		*12,918*
Office	72.1		2,040,199	5,829	General Office Building	0.25	SF	510,050	0.62	115,424,258	70,743,900	0.0060	SF	2,234
Existing Metrolink Station	13.8				Not applicable	0.25	SF	0	0.62	0	0	0.0060	SF	0
Railroad	494.2				Not applicable	0.25	SF	0	0.62	0	0	0.0060	SF	0
Utilities[5]	18.4			5	Not applicable	0.25	SF	0	0.62	0	0	0.0060	SF	0
Utilities	66.1				Not applicable	0.25	SF	0	0.62	0	0	0.0060	SF	0
IBC-Office	107.7		1,626,000	2,341	General Office Building	0.25	SF	406,500	0.62	91,990,950	56,381,550	0.0060	SF	1,780
Less Schools, ect.			-1,345,747			0.25	SF	-336,437	0.62	-76,135,637	-46,663,777	0.0060	SF	-1,474
	772.3		2,320,452	8,175	General Office Building	0.25	SF	580,113	0.62	131,279,572	80,461,673	0.0060	SF	2,541
Pacific Palms Hotel/Resort	19.3		521,000	400	Hotel (292 rooms)	0.25	SF	130,250	0.90	42,787,125	4,754,125	0.0060	SF	570
IBC-Office-Business Park	71.8		1,252,000	804	Office Park	0.25	SF	313,000	0.62	70,831,900	43,413,100	0.0060	SF	1,371
Light Industrial[1]	1,122.6		22,005,090	27,506	General Light Industrial	0.031	SF	682,158	1.00	248,987,593	0	0.0132	SF	53,010
Manufacturing and Assembly	657.8		12,894,982	13,574	General Heavy Industrial	0.141	SF	1,818,192	1.00	663,640,249	0	0.0132	SF	31,064
IBC-Industrial	32.3		633,000	382	General Heavy Industrial	0.141	SF	89,253	1.00	32,577,345	0	0.0132	SF	1,525
	690.1		13,527,982	13,956	General Heavy Industrial	0.141	SF	1,907,445	1.00	696,217,594	0	0.0132	SF	32,589
Storage	15.7		342,301	55	Industrial Park	0.031	SF	10,611	1.00	3,873,136	0	0.0142	SF	887
Warehousing and Distribution	2,694.2		58,680,240	39,120	Unrefrigerated Warehouse-no rail	0.031	SF	1,819,087	1.00	663,966,916	0	0.0142	SF	152,070
Schools	87.2		720,000	300	High School	3000	Acre	261,600	0.28	26,735,520	68,748,480	0.0070	SF	920
Public Facilities[4]	5.4		390,714	30	Government (civic center)	3000	Acre	16,200	0.62	3,666,060	2,246,940	0.0054	SF	385
Museum	11.3			20	Government (civic center)	3000	Acre	33,900	0.62	7,671,570	4,701,930	0.0054	SF	0
	16.7		390,714	50	Government (civic center)	3000	Acre	50,100	0.62	11,337,630	6,948,870	0.0054	SF	385
Religious Facilities	0.0		5,092	0	Place of Worship	3000	Acre	17,400	0.28	1,778,280	4,572,720	0.0070	SF	7
Nursing Home (244 beds)	6.4		95,087	250	Congregate Care (244 beds)	3000	Acre	19,200	0.61	4,274,880	2,733,120	0.0070	SF	121
Parks/Open Space	236.1		0	0	Golf Course	4500	Acre	1,062,450	0.00	0	387,794,250	9.7000	Acre	418
Commercial Recreation (Golf Course)	394.6		134,854	50	Golf Course	0.25	SF	33,714	0.62	7,629,365	4,676,062	0.0060	SF	148
	630.7		134,854	50	Golf Course			1,096,164	0.00	7,629,365	392,470,312			566
						Note: since park space in the City didn' double, SF for the Golf course used + Park/open space for landscape irrigation								
Flood Control Channels	167.1				Not applicable									
Waterways[3]	185.1				Not applicable									
IBC-Open Space, Slope, Roads	285.5				Not applicable									
Street Right-of-Way	875.2				Not applicable									
TOTAL	**8,235.8**		**111,791,450**	**109,715**			TOTAL	9,106,078		2,413,939,471	909,778,951			258,049
RESIDENTIAL		**168**	**59 Units**	**463**			Increase	1,669,847		776,203,168	-166,708,925			28,840
	0.1		**244 Beds**	**People**				22%		47%	-15%			13%

Existing

Land Use	*Total*				*(Section 5.14 USS)*								
	Gross Acres	*Dwelling Units*	*Square Footage*	*CalEEMod Land Use*	*Water Generation Rates (g/day)*	*unit*	*Water Demand (g/day)*	*CalEEMod indoor default*	*Indoor (g/year)*	*Outdoor (g/year)*	*Waste Generation Rates (lbs/day)*	*unit*	*Waste Demand (tons/year)*
Residential Uses[1]													
Single Family Detached (SFD)	19.0	60	0	Single Family housing	325	unit	19,500	0.61	4,341,675	2,775,825	9.9000	unit	108
Multifamily (MF)	1.3	6	0	Apartments Low Rise	325	unit	1,950	0.61	434,168	277,583	9.9000	unit	11
							21,450		4,775,843	3,053,408			119
Business Uses													
Retail	484.5	0	9,168,015	Stip Mall	0.188	SF	1,723,587	0.62	390,047,697	239,061,492	0.0060	SF	10,039
Office	68.1	0	1,638,311	General Office Building	0.25	SF	409,578	0.62	92,687,445	56,808,434	0.0060	SF	1,794
Transportation/Communication	157.0	0	419,488	General Office Building	0.25	SF	104,872	0.62	23,732,534	14,545,746	0.0060	SF	459
Railroads	494.9	0	5,822	General Office Building	0.25	SF	1,456	0.62	329,380	201,878	0.0060	SF	6
	720.0	*0*	*2,063,621*	*General Office Building*	0.25	SF	515,905	0.62	116,749,358	71,556,058	0.0060	SF	2,260
Hotel and Motels	23.9	0	661,263	Hotel (292 rooms)	0.25	SF	165,316	0.90	54,306,224	6,034,025	0.0060	SF	724
Multiple Use [2]	11.5	0	150,282	Office Park	0.25	SF	37,571	0.62	8,502,204	5,211,028	0.0060	SF	165
Light Industrial[3]	1,525.3	0	29,208,589	General Light Industrial	0.031	SF	905,466	1.00	330,495,185	0	0.0132	SF	70,363
Heavy Manufacturing[4]	6.1	0	93,000	General Heavy Industrial	0.141	SF	13,113	1.00	4,786,245	0	0.0132	SF	224
Water and Water Facilities[9]	352.6	0	18,812	General Heavy Industrial	0.141	SF	2,652	1.00	968,160	0	0.0132	SF	45
	358.7	*0*	*111,812*	*General Heavy Industrial*	0.141	SF	15,765	1.00	5,754,405	0	0.0132	SF	269
Commercial Storage	20.1	0	475,731	Industrial Park	0.031	SF	14,748	1.00	5,382,896	0	0.0142	SF	1,233
Open Storage	16.4	0	35,719	Industrial Park	0.031	SF	1,107	1.00	404,160	0	0.0142	SF	93
	36.5	*0*	*511,450*	*Industrial Park Total*	0.031	SF	15,855	1.00	5,787,057	0	0.0142	SF	1,325
Warehousing and Distribution	2,569.0	0	54,856,955	Unrefrigerated Warehouse-no rail	0.031	SF	1,700,566	1.00	620,706,446	0	0.0142	SF	142,162
Schools (Public and Private)	89.7	0	720,000	High School	3000	Acre	269,100	0.28	27,502,020	70,719,480	0.0070	SF	920
Public Facility[5]	94.3	0	390,714	Government (civic center)	3000	Acre	282,900	0.62	64,020,270	39,238,230	0.0054	SF	385
Religious Facilities	5.8	0	5,092	Place of Worship	3000	Acre	17,400	0.39	2,476,890	3,874,110	0.0070	SF	7
Special Use[6]	9.9	0	95,087	Congregate Care (244 beds)	3000	Acre	29,700	0.61	6,612,705	4,227,795	0.0070	SF	121
Parks and Recreation[7]	385.6	0	134,854	Golf Course	4500	Acre	1,735,200	0.00	0	633,348,000	9.7000	Acre	683
Agricultural	0.1	0	0	Golf Course	4500	Acre	450	0.00	0	164,250	9.7000	Acre	0
	385.7	*0*	*134,854*	*Golf Course*	4500	Acre	1,735,650	0.00	0	633,512,250	0.0142	SF	349
Utilities[8]	0.0	0	0	Not applicable									
Vacant Land	1,025.2	0	0	Not applicable									
Roads	875.2	0	0	Not applicable									
TOTAL	8,235.5	66	98,077,734		TOTAL		7,436,231	10	1,637,736,303	1,076,487,876			229,209
Population[11] & Employment[12]		**503**	**68,741**										
2008 Waste Disposal:													

Existing

Based on EMFAC2011

	Emission year	Daily VMT							
	2008	**8,066,273**				**lbs/day**			
Vehicles	**Classification**	**Percent of VMT**	**Modified % for Industry**	**ROG**	**NOx**	**CO**	**SOx**	**PM10**	**PM2.5**
All Other Buses	(H-H truck)	0.03%	0.2245%	21	426	76	0	24	19
LDA	Pass	47.80%	50.3462%	3,049	3,646	40,704	32	451	204
LDT1	Pass	6.93%	7.3028%	972	1,221	13,403	5	72	36
LDT2	Pass	17.23%	18.1499%	1,055	2,193	17,077	16	159	71
LHD1	L-H truck	6.46%	2.8399%	252	1,858	2,556	3	41	22
LHD2	L-H truck	1.08%	0.4734%	30	400	272	0	10	5
MCY	(Pass)	0.72%	0.7581%	620	196	5,425	0	6	3
MDV	MDT	17.28%	3.5630%	199	487	3,547	4	31	13
MH	(M-H truck)	0.49%	2.0181%	193	1,124	5,380	2	35	21
Motor Coach	(M-H truck)	0.03%	0.1075%	15	332	68	0	12	10
OBUS	(H-H truck)	0.08%	0.7050%	166	643	2,543	1	6	3
PTO	(H-H truck)	0.00%	0.0241%	4	74	23	0	3	3
SBUS	M-H truck	0.08%	0.3353%	125	645	1,061	1	57	37
T6 Ag	M-H truck	0.00%	0.0151%	2	28	5	0	2	1
T6 CAIRP heavy	M-H truck	0.00%	0.0148%	1	22	3	0	1	1
T6 CAIRP small	M-H truck	0.01%	0.0516%	2	69	9	0	4	3
T6 instate construction heavy	M-H truck	0.02%	0.0623%	5	113	19	0	6	5
T6 instate construction small	M-H truck	0.04%	0.1757%	10	275	38	0	13	10
T6 instate heavy	M-H truck	0.05%	0.2120%	18	386	65	0	20	16
T6 instate small	M-H truck	0.15%	0.5980%	33	935	129	1	45	34
T6 OOS heavy	M-H truck	0.00%	0.0085%	0	13	2	0	1	0
T6 OOS small	M-H truck	0.01%	0.0296%	1	40	5	0	2	2
T6 public	M-H truck	0.01%	0.0242%	1	44	5	0	2	2
T6 utility	M-H truck	0.00%	0.0070%	0	11	1	0	0	0
T6TS	M-H truck	0.15%	0.6031%	301	669	3,577	1	6	3
T7 Ag	H-H truck	0.00%	0.0197%	3	63	15	0	3	2
T7 CAIRP	H-H truck	0.41%	3.5028%	470	9,485	2,006	10	398	332
T7 CAIRP construction	H-H truck	0.00%	0.0241%	3	65	14	0	3	2
T7 NNOOS	H-H truck	0.46%	3.9405%	389	8,078	1,722	12	353	287
T7 NOOS	H-H truck	0.15%	1.2756%	176	3,468	739	4	146	122
T7 other port	H-H truck	0.00%	0.0000%	0	0	0	0	0	0
T7 POAK	H-H truck	0.00%	0.0000%	0	0	0	0	0	0
T7 POLA	H-H truck	0.03%	0.2778%	65	1,072	299	1	45	39
T7 public	H-H truck	0.00%	0.0081%	2	32	8	0	1	1
T7 Single	H-H truck	0.01%	0.1002%	11	286	51	0	10	8
T7 single construction	H-H truck	0.01%	0.0624%	7	178	32	0	6	5
T7 SWCV	H-H truck	0.00%	0.0253%	3	78	16	0	3	2
T7 tractor	H-H truck	0.11%	0.9522%	141	2,834	651	3	119	100
T7 tractor construction	H-H truck	0.01%	0.0466%	7	140	33	0	6	5
T7 utility	H-H truck	0.00%	0.0022%	0	8	1	0	0	0
T7IS	M-H truck	0.04%	0.1549%	93	339	1,950	0	1	1
UBUS	(H-H truck)	0.11%	0.9576%	148	1,277	925	4	140	71
TOTAL			**100.0%**	**8,594**	**43,249**	**104,455**	**102**	**2,245**	**1,500**

Year 2035 (Existing Land Uses)

Based on EMFAC2011

	Emission year	Daily VMT							
	2035	**8,066,273**				**lbs/day**			
Vehicles		**Percent of VMT**	**Modified % for Industry**	**ROG**	**NOx**	**CO**	**SOx**	**PM10**	**PM2.5**
All Other Buses	(H-H truck)	0.02%	0.1904%	4	44	16	0	6	3
LDA	Pass	44.57%	48.1055%	394	693	7,793	32	408	175
LDT1	Pass	7.25%	7.8282%	100	132	1,511	6	66	28
LDT2	Pass	18.29%	19.7357%	252	347	3,700	18	167	72
LHD1	L-H truck	7.73%	2.8623%	57	344	456	3	36	17
LHD2	L-H truck	1.22%	0.4510%	7	66	64	0	8	4
MCY	(Pass)	0.82%	0.8876%	494	197	3,414	0	7	3
MDV	MDT	17.15%	3.5630%	68	82	866	4	30	13
MH	(M-H truck)	0.94%	2.6052%	13	290	111	3	30	13
Motor Coach	(M-H truck)	0.02%	0.0616%	3	24	15	0	2	1
OBUS	(H-H truck)	0.07%	0.6506%	46	82	466	1	5	2
PTO	(H-H truck)	0.00%	0.0233%	1	9	3	0	0	0
SBUS	M-H truck	0.06%	0.1705%	10	89	60	0	13	6
T6 Ag	M-H truck	0.00%	0.0048%	0	1	0	0	0	0
T6 CAIRP heavy	M-H truck	0.00%	0.0078%	0	1	1	0	0	0
T6 CAIRP small	M-H truck	0.01%	0.0268%	0	4	2	0	1	0
T6 instate construction heavy	M-H truck	0.02%	0.0599%	1	13	5	0	2	1
T6 instate construction small	M-H truck	0.06%	0.1667%	3	30	12	0	5	3
T6 instate heavy	M-H truck	0.05%	0.1331%	2	29	11	0	4	2
T6 instate small	M-H truck	0.13%	0.3687%	6	67	26	1	12	6
T6 OOS heavy	M-H truck	0.00%	0.0044%	0	1	0	0	0	0
T6 OOS small	M-H truck	0.01%	0.0154%	0	3	1	0	0	0
T6 public	M-H truck	0.01%	0.0142%	0	3	1	0	0	0
T6 utility	M-H truck	0.00%	0.0049%	0	1	0	0	0	0
T6TS	M-H truck	0.25%	0.6947%	24	48	257	1	6	2
T7 Ag	H-H truck	0.00%	0.0096%	0	4	2	0	0	0
T7 CAIRP	H-H truck	0.39%	3.3907%	206	1,662	1,063	11	107	65
T7 CAIRP construction	H-H truck	0.00%	0.0347%	2	17	11	0	1	1
T7 NNOOS	H-H truck	0.43%	3.8144%	221	1,636	1,152	12	111	66
T7 NOOS	H-H truck	0.14%	1.2348%	82	642	427	4	39	24
T7 other port	H-H truck	0.00%	0.0000%	0	0	0	0	0	0
T7 POAK	H-H truck	0.00%	0.0000%	0	0	0	0	0	0
T7 POLA	H-H truck	0.06%	0.5304%	31	292	156	2	19	12
T7 public	H-H truck	0.00%	0.0074%	1	6	3	0	0	0
T7 Single	H-H truck	0.01%	0.0970%	4	33	22	0	3	2
T7 single construction	H-H truck	0.01%	0.0898%	4	30	20	0	3	1
T7 SWCV	H-H truck	0.00%	0.0229%	1	10	7	0	1	0
T7 tractor	H-H truck	0.10%	0.9217%	40	369	198	3	29	18
T7 tractor construction	H-H truck	0.01%	0.0670%	3	29	17	0	2	1
T7 utility	H-H truck	0.00%	0.0023%	0	1	1	0	0	0
T7IS	M-H truck	0.03%	0.0790%	12	99	674	0	1	0
UBUS	(H-H truck)	0.12%	1.0616%	32	586	331	4	145	68
TOTAL			**100.0%**	**2,126**	**8,017**	**22,876**	**107**	**1,271**	**613**

Year 2035 (Preferred Land Use Plan)

Based on EMFAC2011

	Emission year	Daily VMT							
	2035	**9,630,935**				**lbs/day**			
Vehicles		**Percent of VMT**	**Modified % for Industry**	**ROG**	**NOx**	**CO**	**SOx**	**PM10**	**PM2.5**
All Other Buses	(H-H truck)	0.02%	0.1904%	4	52	19	0	8	4
LDA	Pass	44.57%	48.1055%	470	828	9,305	38	487	209
LDT1	Pass	7.25%	7.8282%	120	157	1,804	7	79	34
LDT2	Pass	18.29%	19.7357%	301	414	4,417	21	200	86
LHD1	L-H truck	7.73%	2.8623%	68	410	544	4	43	20
LHD2	L-H truck	1.22%	0.4510%	8	79	76	1	10	5
MCY	(Pass)	0.82%	0.8876%	590	236	4,076	0	8	3
MDV	MDT	17.15%	3.5630%	81	98	1,033	5	36	15
MH	(M-H truck)	0.94%	2.6052%	15	346	133	4	36	16
Motor Coach	(M-H truck)	0.02%	0.0616%	4	29	18	0	3	2
OBUS	(H-H truck)	0.07%	0.6506%	55	97	557	1	6	2
PTO	(H-H truck)	0.00%	0.0233%	1	11	4	0	0	0
SBUS	M-H truck	0.06%	0.1705%	11	106	72	0	16	7
T6 Ag	M-H truck	0.00%	0.0048%	0	1	0	0	0	0
T6 CAIRP heavy	M-H truck	0.00%	0.0078%	0	2	1	0	0	0
T6 CAIRP small	M-H truck	0.01%	0.0268%	0	5	2	0	1	1
T6 instate construction heavy	M-H truck	0.02%	0.0599%	1	15	6	0	2	1
T6 instate construction small	M-H truck	0.06%	0.1667%	3	36	14	0	6	3
T6 instate heavy	M-H truck	0.05%	0.1331%	3	34	13	0	5	3
T6 instate small	M-H truck	0.13%	0.3687%	7	81	32	1	14	7
T6 OOS heavy	M-H truck	0.00%	0.0044%	0	1	0	0	0	0
T6 OOS small	M-H truck	0.01%	0.0154%	0	3	1	0	1	0
T6 public	M-H truck	0.01%	0.0142%	0	4	1	0	1	0
T6 utility	M-H truck	0.00%	0.0049%	0	1	0	0	0	0
T6TS	M-H truck	0.25%	0.6947%	29	57	307	1	7	3
T7 Ag	H-H truck	0.00%	0.0096%	1	5	3	0	0	0
T7 CAIRP	H-H truck	0.39%	3.3907%	246	1,985	1,269	13	128	78
T7 CAIRP construction	H-H truck	0.00%	0.0347%	3	20	13	0	1	1
T7 NNOOS	H-H truck	0.43%	3.8144%	264	1,953	1,375	14	133	78
T7 NOOS	H-H truck	0.14%	1.2348%	98	767	510	5	47	29
T7 other port	H-H truck	0.00%	0.0000%	0	0	0	0	0	0
T7 POAK	H-H truck	0.00%	0.0000%	0	0	0	0	0	0
T7 POLA	H-H truck	0.06%	0.5304%	37	349	186	2	22	14
T7 public	H-H truck	0.00%	0.0074%	1	8	4	0	0	0
T7 Single	H-H truck	0.01%	0.0970%	5	39	26	0	3	2
T7 single construction	H-H truck	0.01%	0.0898%	5	36	24	0	3	2
T7 SWCV	H-H truck	0.00%	0.0229%	2	11	8	0	1	0
T7 tractor	H-H truck	0.10%	0.9217%	48	441	237	3	34	21
T7 tractor construction	H-H truck	0.01%	0.0670%	4	35	20	0	3	2
T7 utility	H-H truck	0.00%	0.0023%	0	1	1	0	0	0
T7IS	M-H truck	0.03%	0.0790%	14	118	805	0	1	0
UBUS	(H-H truck)	0.12%	1.0616%	39	699	395	4	173	81
TOTAL			**100.0%**	**2,538**	**9,572**	**27,313**	**127**	**1,518**	**732**
		Increase		412	1,555	4,437	21	247	119

Year 2008 (MTons/Year)

Based on EMFAC2011

	Emission year	Annual VMT				GWP	GWP			
	2008	**1,421,147,437**				**310**	**1**	**MTons**		**MTons**
Vehicles	**Classification**	**Percent of VMT**		**Modified % for Industry**	**NOx**	**N2O**	**CO2**	**CO2e**	**CO2w/Pavley + LCF**	**CO2e w/ Pavley + LCFS**
All Other Buses	(H-H truck)	0.03%		0.2245%	2	0	3,585	3,601	3,585	3,601
LDA	Pass	47.80%	72.69%	50.3462%	244	8	248,376	250,778	248,376	250,778
LDT1	Pass	6.93%		7.3028%	78	2	41,105	41,870	41,105	41,870
LDT2	Pass	17.23%		18.1499%	84	3	122,235	123,066	122,235	123,066
LHD1	L-H truck	6.46%	7.54%	2.8399%	20	1	22,456	22,655	22,456	22,655
LHD2	L-H truck	1.08%		0.4734%	2	0	3,636	3,660	3,636	3,660
MCY	(Pass)	0.72%		0.7581%	50	2	1,370	1,859	1,370	1,859
MDV	MDT	17.28%	17.28%	3.5630%	16	1	30,178	30,335	30,178	30,335
MH	(M-H truck)	0.49%	1.08%	2.0181%	15	0	18,326	18,478	18,326	18,478
Motor Coach	(M-H truck)	0.03%		0.1075%	1	0	2,708	2,720	2,708	2,720
OBUS	(H-H truck)	0.08%		0.7050%	13	0	5,846	5,976	5,846	5,976
PTO	(H-H truck)	0.00%	1.41%	0.0241%	0	0	739	742	739	742
SBUS	M-H truck	0.08%		0.3353%	10	0	5,713	5,812	5,713	5,812
T6 Ag	M-H truck	0.00%		0.0151%	0	0	244	246	244	246
T6 CAIRP heavy	M-H truck	0.00%		0.0148%	0	0	235	236	235	236
T6 CAIRP small	M-H truck	0.01%		0.0516%	0	0	817	819	817	819
T6 instate construction heavy	M-H truck	0.02%		0.0623%	0	0	996	1,000	996	1,000
T6 instate construction small	M-H truck	0.04%		0.1757%	1	0	2,788	2,795	2,788	2,795
T6 instate heavy	M-H truck	0.05%		0.2120%	1	0	3,388	3,402	3,388	3,402
T6 instate small	M-H truck	0.15%		0.5980%	3	0	9,487	9,513	9,487	9,513
T6 OOS heavy	M-H truck	0.00%		0.0085%	0	0	135	135	135	135
T6 OOS small	M-H truck	0.01%		0.0296%	0	0	469	470	469	470
T6 public	M-H truck	0.01%		0.0242%	0	0	396	398	396	398
T6 utility	M-H truck	0.00%		0.0070%	0	0	114	114	114	114
T6TS	M-H truck	0.15%		0.6031%	24	1	5,025	5,262	5,025	5,262
T7 Ag	H-H truck	0.00%		0.0197%	0	0	488	490	488	490
T7 CAIRP	H-H truck	0.41%		3.5028%	38	1	86,651	87,021	86,651	87,021
T7 CAIRP construction	H-H truck	0.00%		0.0241%	0	0	597	600	597	600
T7 NNOOS	H-H truck	0.46%		3.9405%	31	1	98,803	99,109	98,803	99,109
T7 NOOS	H-H truck	0.15%		1.2756%	14	0	31,764	31,902	31,764	31,902
T7 other port	H-H truck	0.00%		0.0000%	0	0	0	0	0	0
T7 POAK	H-H truck	0.00%		0.0000%	0	0	0	0	0	0
T7 POLA	H-H truck	0.03%		0.2778%	5	0	7,009	7,060	7,009	7,060
T7 public	H-H truck	0.00%		0.0081%	0	0	238	240	238	240
T7 Single	H-H truck	0.01%		0.1002%	1	0	2,461	2,469	2,461	2,469
T7 single construction	H-H truck	0.01%		0.0624%	1	0	1,533	1,539	1,533	1,539
T7 SWCV	H-H truck	0.00%		0.0253%	0	0	673	675	673	675
T7 tractor	H-H truck	0.11%		0.9522%	11	0	23,189	23,300	23,189	23,300
T7 tractor construction	H-H truck	0.01%		0.0466%	1	0	1,143	1,149	1,143	1,149
T7 utility	H-H truck	0.00%		0.0022%	0	0	62	63	62	63
T7IS	M-H truck	0.04%		0.1549%	7	0	1,249	1,322	1,249	1,322
UBUS	(H-H truck)	0.11%		0.9576%	12	0	29,479	29,596	29,479	29,596
TOTAL				**100.0%**	**687**	**22**	**815,707**	**822,478**	**0** **815,707**	**822,478**

N2O emissions were calculated using an off-model adjustment provided by CARB in AB 32 Technical Appendices. The off-model adjustment uses a linear regression correlating N2O with NOx. (N2O = 0.0167 + 0.0318 x NOx)

Daily vehicles miles traveled (VMT) multiplied by 347 days/year to account for reduced traffic on weekends and holidays. This assumption is consistent with the California Air Resources Board's (CARB) methodology within the Climate Change Scoping Plan Measure Documentation Supplement.

Year 2035 (MTons/Year)

Based on EMFAC2011

	Emission year	Annual VMT				GWP	GWP			
	2035	**1,696,870,555**				**310**	**1**	**MTons**		**MTons**
Vehicles		**Percent of VMT**		**Modified % for Industry**	**NOx**	**N2O**	**CO2**	**CO2e**	**CO2w/Pavley + LCF**	**CO2e w/ Pavley + LCFS**
All Other Buses	(H-H truck)	0.02%		0.1904%	4	0	3,642	3,683	3,278	3,319
LDA	Pass	44.57%	70.94%	48.1055%	66	2	306,116	306,768	182,257	182,909
LDT1	Pass	7.25%		7.8282%	13	0	57,801	57,925	35,403	35,527
LDT2	Pass	18.29%		19.7357%	33	1	170,441	170,767	115,898	116,225
LHD1	L-H truck	7.73%	8.95%	2.8623%	33	1	28,398	28,722	25,558	25,882
LHD2	L-H truck	1.22%		0.4510%	6	0	4,227	4,289	3,804	3,866
MCY	(Pass)	0.82%		0.8876%	19	1	2,503	2,688	2,252	2,438
MDV	MDT	17.15%	17.15%	3.5630%	8	0	39,452	39,529	27,323	27,400
MH	(M-H truck)	0.94%	1.59%	2.6052%	28	1	30,070	30,343	27,063	27,336
Motor Coach	(M-H truck)	0.02%		0.0616%	2	0	1,870	1,893	1,683	1,706
OBUS	(H-H truck)	0.07%		0.6506%	8	0	6,953	7,030	6,258	6,334
PTO	(H-H truck)	0.00%	1.38%	0.0233%	1	0	838	846	754	762
SBUS	M-H truck	0.06%		0.1705%	8	0	3,181	3,265	2,863	2,947
T6 Ag	M-H truck	0.00%		0.0048%	0	0	92	93	83	84
T6 CAIRP heavy	M-H truck	0.00%		0.0078%	0	0	148	149	133	135
T6 CAIRP small	M-H truck	0.01%		0.0268%	0	0	512	517	461	465
T6 instate construction heavy	M-H truck	0.02%		0.0599%	1	0	1,147	1,159	1,032	1,045
T6 instate construction small	M-H truck	0.06%		0.1667%	3	0	3,184	3,213	2,866	2,894
T6 instate heavy	M-H truck	0.05%		0.1331%	3	0	2,547	2,573	2,292	2,319
T6 instate small	M-H truck	0.13%		0.3687%	6	0	7,042	7,106	6,338	6,402
T6 OOS heavy	M-H truck	0.00%		0.0044%	0	0	85	86	76	77
T6 OOS small	M-H truck	0.01%		0.0154%	0	0	294	296	264	267
T6 public	M-H truck	0.01%		0.0142%	0	0	279	282	251	254
T6 utility	M-H truck	0.00%		0.0049%	0	0	96	97	86	87
T6TS	M-H truck	0.25%		0.6947%	5	0	7,297	7,342	6,567	6,612
T7 Ag	H-H truck	0.00%		0.0096%	0	0	292	296	263	267
T7 CAIRP	H-H truck	0.39%		3.3907%	159	5	105,745	107,309	95,170	96,734
T7 CAIRP construction	H-H truck	0.00%		0.0347%	2	0	1,083	1,099	975	991
T7 NNOOS	H-H truck	0.43%		3.8144%	156	5	119,700	121,239	107,730	109,269
T7 NOOS	H-H truck	0.14%		1.2348%	61	2	39,155	39,759	35,240	35,844
T7 other port	H-H truck	0.00%		0.0000%	0	0	0	0	0	0
T7 POAK	H-H truck	0.00%		0.0000%	0	0	0	0	0	0
T7 POLA	H-H truck	0.06%		0.5304%	28	1	16,065	16,340	14,458	14,733
T7 public	H-H truck	0.00%		0.0074%	1	0	258	264	232	238
T7 Single	H-H truck	0.01%		0.0970%	3	0	2,936	2,967	2,642	2,673
T7 single construction	H-H truck	0.01%		0.0898%	3	0	2,718	2,746	2,446	2,475
T7 SWCV	H-H truck	0.00%		0.0229%	1	0	732	741	658	667
T7 tractor	H-H truck	0.10%		0.9217%	35	1	27,273	27,621	24,546	24,893
T7 tractor construction	H-H truck	0.01%		0.0670%	3	0	2,022	2,050	1,820	1,847
T7 utility	H-H truck	0.00%		0.0023%	0	0	81	82	73	74
T7IS	M-H truck	0.03%		0.0790%	9	0	818	910	736	829
UBUS	(H-H truck)	0.12%		1.0616%	56	2	36,038	36,589	32,435	32,986
TOTAL				**100.0%**	**765**	**24**	**1,033,129**	**1,040,670**	**0** **774,269**	**781,810**
									Reduction from Existing Regs	24%

N2O emissions were calculated using an off-model adjustment provided by CARB in AB 32 Technical Appendices. The off-model adjustment uses a linear regression correlating N2O with NOx. (N2O = 0.0167 + 0.0318 x NOx)

Daily vehicles miles traveled (VMT) multiplied by 347 days/year to account for reduced traffic on weekends and holidays. This assumption is consistent with the California Air Resources Board's (CARB) methodology within the Climate Change Scoping Plan Measure Documentation Supplement.

TABLE A
VMT BREAKDOWN
CITY OF INDUSTRY GENERAL PLAN

Type	% Trips	Trips	VMT	Trip Length
Passenger Vehicle + MDT -Trips from Industry to All other Areas	43%	153,569	2,016,199	13.13
Passenger Vehicle +MDT - Trips due to from All other Areas to Industry	40%	144,429	1,899,429	13.15
Passenger Vehicle + MDT - Trips due to trips within Industry	8%	28,262	62,340	2.21
Trucks -Trips from Industry to All other Areas	4%	12,807	417,196	32.58
Trucks - Trips due to from All other Areas to Industry	4%	12,802	418,334	32.68
Trucks - Trips due to trips within Industry	1%	5,300	12,312	2.32
Source: SCAG 2012. Based on the 2012 RTP for year 2008		357,169	4,825,809	

Note: City-specific fleet mix is based on vehicle counts and not SCAG data. SCAG data is used to approximate average trip length for all trip purposes to approximate VMT.

VMT Type	Year 2008 Per Weekday	Year 2035 Per Weekday	Increase Per Weekday
VMT due to trips from Industry to All other areas	4,067,386	4,860,421	793,036
VMT due to trips from All other areas to Industry	3,874,109	4,621,215	747,106
VMT due to trips stayed within industry	124,779	149,299	24,520
Total	8,066,273	9,630,935	1,564,662
Daily Trip Generation (without PCE trips)	597,003	737,489	140,486
Average Trip Length	13.51	13.06	11.14

VMT Type	Year 2008 Per Year	Year 2035 Per Year	Increase Per Year
VMT due to trips from Industry to All other areas	1,411,382,779	1,686,566,142	275,183,363
VMT due to trips from All other areas to Industry	1,344,315,811	1,603,561,700	259,245,888
VMT due to trips stayed within industry	43,298,141	51,806,634	8,508,493
Total	2,798,996,732	3,341,934,477	542,937,745
Annual Trips (without PCE trips)	207,160,041	255,908,683	48,748,642

VMT per year based on a conversion of VMT x 347 days per year to account for less travel on weekend, consistent with the California Air Resources Board's (CARB) statewide GHG emissions inventory methodology (CARB 2008).

VMT Adjusted for RTAC recommendation for GHG Inventory		Year 2008 Per Year	Year 2035 Per Year	Increase Per Year
VMT due to trips from Industry to All other areas	A	705,691,390	843,283,071	137,591,681
VMT due to trips from All other areas to Industry	A	672,157,906	801,780,850	129,622,944
VMT due to trips stayed within industry	A	43,298,141	51,806,634	8,508,493
Total	A	1,421,147,437	1,696,870,555	275,723,119
Annual Trips (without PCE trips)	A	207,160,041	255,908,683	48,748,642

Interjurisdictional VMT reduced by 50 percent (trips from Industry to all other areas and trips from all other areas to Industry) in order to account for the Regional Transportation Advisory Committee (RTAC) recommendations for target setting established pursuant to Senate Bill 375. Pursuant to the RTAC recommendation, a jurisdiction is only responsible for 50 percent of the trip length for trips that start/end in one jurisdiction and end/start in other jurisdiction.

	Trips	VMT	Annual VMT by Vehicle Class	
Vehicle Class	%	%	Year 2008	Year 2035
LDA/LDT (passenger vehicles)	80.6%	76.6%	1,893,725,620	2,339,354,767
Medium Duty Trucks (2 axles)	17.6%	3.6%	88,134,933	108,874,735
Light Heavy Duty Trucks (3 axles)	0.3%	3.3%	81,958,810	101,245,255
Medium Heavy Duty Trucks (4 axles)	0.4%	4.4%	109,278,414	134,993,674
Heavy-Heavy Duty Trucks (5 axles)	1.1%	12.1%	300,515,638	371,232,602
	100%	100%	2,473,613,415	3,055,701,033

% Trips Source: LLG Engineers. 2011. Fleet mix based on trip counts conducted for roadway segments in Industry. % VMT adjusted from SCAG data based on trip counts conducted by LLG

Heavy Duty (MHDT and HHDT) Idle Emissions

CY	EMFAC2007 Vehicle Category	Fuel_Type	air_basin	season	ROG (g/hr-veh)	NOX (g/hr-veh)	CO (g/hr-veh)	Sox (g/hr-veh)	PM10 (g/hr-veh)	PM2.5 (g/hr-veh)	CO2 (g/hr-veh)	CO2 (with Pavley+LCFS) (g/hr-veh)
2008	HHDT	D	SC	a	9.861	103.756	45.587	0.066	1.333	1.226	6,892.543	6,892.543
2008	MHDT	D	SC	a	4.240	110.850	34.429	0.067	1.379	1.269	7,067.140	7,067.140
2008	OBUS	D	SC	a	11.187	102.862	47.965	0.065	1.858	1.709	6,787.047	6,787.047
2008	SBUS	D	SC	a	7.573	108.325	46.099	0.063	2.488	2.289	6,607.300	6,607.300
2035	HHDT	D	SC	a	7.367	38.793	41.558	0.067	0.108	0.099	7,035.605	6,332.045
2035	MHDT	D	SC	a	2.144	38.767	25.345	0.073	0.090	0.083	7,638.117	6,874.305
2035	OBUS	D	SC	a	6.733	38.409	39.665	0.068	0.106	0.097	7,111.497	6,400.347
2035	SBUS	D	SC	a	2.058	43.734	24.340	0.073	0.092	0.085	7,646.179	6,881.561

			lbs/trip						MTons/Trip	
Idle:	10	minutes/trip								
convert g to lbs	0.0022046	2035 HHDT	0.00362	0.01425	0.01527	0.00002	0.00004	0.00004	0.00117	0.00106
convert g to MTons	0.000001	2035 MHDT	0.00079	0.01424	0.00931	0.00003	0.00003	0.00003	0.00127	0.00115
conver lbs to Mtons	0.000453592	2035 MDV*	0.00004	0.00021	0.00056	0.00001	0.00002	0.00002	0.00042	0.00042
		2035 LHDT1*	0.00133	0.00966	0.02758	0.00001	0.00029	0.00029	0.00068	0.00068
		2008 HHDT							0.00115	0.00115
		2008 MHDT							0.00118	0.00118
		2008 MDV*							0.00032	0.00032
		2008 LHDT1*							0.00068	0.00068
Heavy Trucks	Heavy Trucks	2035 HHDT*	0.12449	0.37535	0.22076	270.73498	0.00428	300.81665	0.00000	0.00000

	Existing Trips/Day	Trip/Year		lbs/Day Existing (2035 rates)						MTons/Year Existing (BAU -2008 rates)	
HHDT	6,567	2,278,760		24	94	100	0	0	0	2,618	2,618
MHDT	2,388	828,640		2	34	22	0	0	0	976	976
MDV	105,073	36,460,167		4	23	59	1	2	2	11,804	11,804
LHDT	1,791	621,480		2	17	49	0	1	1	424	424
	115,819	40,189,048	Total Existing	32	168	231	1	3	3	15,822	15,822

	GP Trips/Day	Trip/Year		lbs/Day Post-2035 (2035 rates)						MTons/Year Post-2035 (2035 rates)	
HHDT	8,112	2,814,996		29.392	115.631	123.874	0.200	0.322	0.296	3,301	2,971
MHDT	2,950	1,023,635		10.688	42.048	45.045	0.073	0.117	0.108	1,303	1,173
MDV	129,798	45,039,928		5.008	27.900	72.492	1.192	2.623	2.615	18,921	18,921
LHDT	2,212	767,726		2.936	21.380	61.012	0.032	0.646	0.644	524	524
	143,073	49,646,285	Total Existing	48	207	302	1	4	4	24,049	23,589

Source: EMFAC2011

Assumes 10 minutes of idling

* MDV and LHDT based EMFAC2011-LDV the MDV are based on the 5 mile speed bin in and multiplied by 5 miles to derive an emission rate in lbs/hour per CARB guidance since idle emissions factors are not available in EMFAC-LDV for MDV.

									Tons/Weekday							
RecType	Sub-Area	CalYr	Season	Veh	MdlYr	Pop	VMT	Percent of Total VMT	ROG_TOTAL	CO_TOTEX	NOx_TOTEX	CO2_TOTEX	CO2_TOTEX (Pavley I +	PM10_TOTAL	PM2_5_TOTAL	SOx_TOTEX
Vh	Los Angeles (MD)	2008	Annual	All Other Buses	AllMYr	55	3,214	0.026%	0.001888325	0.006737396	0.037787274	3.980812817	3.980812817	0.002111878	0.001687507	3.79788E-05
Vh	Los Angeles (MD)	2008	Annual	LDA	AllMYr	104,941	5,894,459	47.802%	2.212750097	29.54022463	2.646323175	2255.546043	2255.546043	0.327050937	0.148181682	0.023023634
Vh	Los Angeles (MD)	2008	Annual	LDT1	AllMYr	15,389	855,001	6.934%	0.705240489	9.726886668	0.885937524	373.2807326	373.2807326	0.052443461	0.025883239	0.00389478
Vh	Los Angeles (MD)	2008	Annual	LDT2	AllMYr	34,346	2,124,967	17.233%	0.765375218	12.39307825	1.591469705	1110.038605	1110.038605	0.115720442	0.051421236	0.011292741
Vh	Los Angeles (MD)	2008	Annual	LHD1	AllMYr	9,557	797,121	6.464%	0.438140962	4.44709626	3.231856866	488.89723	488.89723	0.071747897	0.037868271	0.004876516
Vh	Los Angeles (MD)	2008	Annual	LHD2	AllMYr	1,537	132,875	1.078%	0.053037392	0.47376091	0.696644745	79.16027883	79.16027883	0.017074628	0.009295034	0.000773011
Vh	Los Angeles (MD)	2008	Annual	MCY	AllMYr	6,861	88,752	0.720%	0.449952816	3.936967885	0.142231486	12.444402	12.444402	0.004698321	0.001985126	0.000197223
Vh	Los Angeles (MD)	2008	Annual	MDV	AllMYr	33,197	2,131,199	17.283%	0.737526765	13.15298629	1.804945697	1400.119052	1400.119052	0.114092032	0.049855792	0.014202255
Vh	Los Angeles (MD)	2008	Annual	MH	AllMYr	2,915	60,562	0.491%	0.035932213	1.00074531	0.20913084	42.65709607	42.65709607	0.006540335	0.003973366	0.000437861
Vh	Los Angeles (MD)	2008	Annual	Motor Coach	AllMYr	22	3,225	0.026%	0.002837671	0.012559867	0.061728336	6.304427523	6.304427523	0.002240233	0.001804711	6.01472E-05
Vh	Los Angeles (MD)	2008	Annual	OBUS	AllMYr	103	10,094	0.082%	0.014728987	0.225702801	0.057070989	6.491740297	6.491740297	0.000527572	0.000223495	6.87616E-05
Vh	Los Angeles (MD)	2008	Annual	PTO	AllMYr	0	345	0.003%	0.000398048	0.002072666	0.00652638	0.82030536	0.82030536	0.000270257	0.000248636	7.8261E-06
Vh	Los Angeles (MD)	2008	Annual	SBUS	AllMYr	222	10,062	0.082%	0.023288306	0.19736283	0.119979843	13.2989306	13.2989306	0.010676976	0.006888364	0.00013126
Vh	Los Angeles (MD)	2008	Annual	T6 Ag	AllMYr	12	454	0.004%	0.000281428	0.000987571	0.005290595	0.568996015	0.568996015	0.000302878	0.000242543	5.42849E-06
Vh	Los Angeles (MD)	2008	Annual	T6 CAIRP heavy	AllMYr	7	445	0.004%	0.000145312	0.000571081	0.004073084	0.547790823	0.547790823	0.000212435	0.00016007	5.22618E-06
Vh	Los Angeles (MD)	2008	Annual	T6 CAIRP small	AllMYr	21	1,549	0.013%	0.000389002	0.001616644	0.012847074	1.902452169	1.902452169	0.000668208	0.000491671	1.81503E-05
Vh	Los Angeles (MD)	2008	Annual	T6 instate construction heavy	AllMYr	33	1,869	0.015%	0.000992213	0.003573998	0.021096623	2.317402589	2.317402589	0.001116871	0.000878966	2.21091E-05
Vh	Los Angeles (MD)	2008	Annual	T6 instate construction small	AllMYr	79	5,273	0.043%	0.001799413	0.007046488	0.051082714	6.488922659	6.488922659	0.002463517	0.001847385	6.19074E-05
Vh	Los Angeles (MD)	2008	Annual	T6 instate heavy	AllMYr	114	6,362	0.052%	0.003376675	0.01216294	0.071795491	7.886525511	7.886525511	0.003800907	0.002991276	7.52411E-05
Vh	Los Angeles (MD)	2008	Annual	T6 instate small	AllMYr	268	17,945	0.146%	0.006123716	0.023980429	0.173843393	22.08293644	22.08293644	0.008383778	0.006286974	0.000210682
Vh	Los Angeles (MD)	2008	Annual	T6 OOS heavy	AllMYr	4	255	0.002%	8.33102E-05	0.000327413	0.002335184	0.3140599	0.3140599	0.000121793	9.17715E-05	2.99628E-06
Vh	Los Angeles (MD)	2008	Annual	T6 OOS small	AllMYr	12	888	0.007%	0.000223023	0.000926856	0.007365495	1.090715495	1.090715495	0.000383098	0.000281885	1.04059E-05
Vh	Los Angeles (MD)	2008	Annual	T6 public	AllMYr	40	726	0.006%	0.000263824	0.000993649	0.008195377	0.92277601	0.92277601	0.000366588	0.000279546	8.80371E-06
Vh	Los Angeles (MD)	2008	Annual	T6 utility	AllMYr	11	211	0.002%	3.61301E-05	0.000161641	0.002058989	0.265763813	0.265763813	7.586E-05	5.29884E-05	2.53551E-06
Vh	Los Angeles (MD)	2008	Annual	T6TS	AllMYr	242	18,099	0.147%	0.056000511	0.665380356	0.124396217	11.69707593	11.69707593	0.001045933	0.000484161	0.000128595
Vh	Los Angeles (MD)	2008	Annual	T7 Ag	AllMYr	4	283	0.002%	0.000283912	0.001346809	0.00560469	0.541526622	0.541526622	0.000251339	0.000214264	5.16642E-06
Vh	Los Angeles (MD)	2008	Annual	T7 CAIRP	AllMYr	206	50,150	0.407%	0.04168926	0.178025454	0.841752394	96.22821661	96.22821661	0.03533025	0.029493172	0.000918062
Vh	Los Angeles (MD)	2008	Annual	T7 CAIRP construction	AllMYr	1	346	0.003%	0.000287305	0.001226875	0.005800998	0.663163729	0.663163729	0.000243481	0.000203254	6.32689E-06
Vh	Los Angeles (MD)	2008	Annual	T7 NNOOS	AllMYr	202	56,417	0.458%	0.034539954	0.152853871	0.716901221	109.7225506	109.7225506	0.031369416	0.025472984	0.001046804
Vh	Los Angeles (MD)	2008	Annual	T7 NOOS	AllMYr	75	18,263	0.148%	0.015581514	0.06554551	0.307736822	35.27414691	35.27414691	0.012946523	0.010814395	0.000336532
Vh	Los Angeles (MD)	2008	Annual	T7 other port	AllMYr	0	0	0.000%	0	0	0	0	0	0	0	0
Vh	Los Angeles (MD)	2008	Annual	T7 POAK	AllMYr	0	0	0.000%	0	0	0	0	0	0	0	0
Vh	Los Angeles (MD)	2008	Annual	T7 POLA	AllMYr	30	3,978	0.032%	0.005726957	0.026493571	0.095099773	7.783886895	7.783886895	0.004012718	0.003452902	7.42619E-05
Vh	Los Angeles (MD)	2008	Annual	T7 public	AllMYr	5	117	0.001%	0.00017508	0.000705757	0.00281909	0.264312733	0.264312733	0.000108779	9.30764E-05	2.52167E-06
Vh	Los Angeles (MD)	2008	Annual	T7 Single	AllMYr	19	1,435	0.012%	0.000968504	0.004525821	0.025364625	2.732773212	2.732773212	0.000895661	0.000737867	2.60719E-05
Vh	Los Angeles (MD)	2008	Annual	T7 single construction	AllMYr	12	894	0.007%	0.00060346	0.002819968	0.015804301	1.702748183	1.702748183	0.000558072	0.000459754	1.6245E-05
Vh	Los Angeles (MD)	2008	Annual	T7 SWCV	AllMYr	7	362	0.003%	0.000297985	0.00139687	0.006890762	0.747001124	0.747001124	0.000249416	0.000207717	7.12674E-06
Vh	Los Angeles (MD)	2008	Annual	T7 tractor	AllMYr	82	13,633	0.111%	0.012515804	0.057793167	0.251469362	25.75158841	25.75158841	0.010517615	0.008857777	0.000245682
Vh	Los Angeles (MD)	2008	Annual	T7 tractor construction	AllMYr	8	667	0.005%	0.000636508	0.002939901	0.012434275	1.269467584	1.269467584	0.00052209	0.000440306	1.21113E-05
Vh	Los Angeles (MD)	2008	Annual	T7 utility	AllMYr	1	31	0.000%	2.36435E-05	0.00011051	0.000673288	0.069402981	0.069402981	1.57911E-05	1.26668E-05	6.62137E-07
Vh	Los Angeles (MD)	2008	Annual	T7IS	AllMYr	20	4,649	0.038%	0.017213616	0.362771633	0.062973322	2.907623001	2.907623001	0.000243624	0.000103053	3.52318E-05
Vh	Los Angeles (MD)	2008	Annual	UBUS	AllMYr	62	13,711	0.111%	0.013120324	0.082064896	0.1133702	32.73734538	32.73734538	0.012465258	0.006267159	0.00031468

RecType	Sub-Area	CalYr	Season	Veh	MdlYr	Pop	VMT	Percent of Total VMT	1	MTons/Mile							
										ROG_TOTAL	CO_TOTEX	NOx_TOTEX	CO2_TOTEX	CO2_TOTEX	PM10_TOTA	PM2_5_TOT	SOx_TOTEX
Vh	Los Angeles (MD)	2008	Annual	All Other Buses	AllMYr	55	3,214	0.026%		5.3298E-07	1.9016E-06	1.0666E-05	0.00112359	0.00112359	5.9608E-07	4.763E-07	1.072E-08
Vh	Los Angeles (MD)	2008	Annual	LDA	AllMYr	104,941	5,894,459	47.802%		3.4055E-07	4.5464E-06	4.0728E-07	0.00034714	0.00034714	5.0335E-08	2.2806E-08	3.5434E-09
Vh	Los Angeles (MD)	2008	Annual	LDT1	AllMYr	15,389	855,001	6.934%		7.4828E-07	1.0321E-05	9.4001E-07	0.00039606	0.00039606	5.5644E-08	2.7463E-08	4.1325E-09
Vh	Los Angeles (MD)	2008	Annual	LDT2	AllMYr	34,346	2,124,967	17.233%		3.2675E-07	5.2908E-06	6.7943E-07	0.00047389	0.00047389	4.9403E-08	2.1953E-08	4.8211E-09
Vh	Los Angeles (MD)	2008	Annual	LHD1	AllMYr	9,557	797,121	6.464%		4.9864E-07	5.0611E-06	3.6781E-06	0.0005564	0.0005564	8.1655E-08	4.3097E-08	5.5498E-09
Vh	Los Angeles (MD)	2008	Annual	LHD2	AllMYr	1,537	132,875	1.078%		3.6211E-07	3.2345E-06	4.7563E-06	0.00054046	0.00054046	1.1657E-07	6.3461E-08	5.2776E-09
Vh	Los Angeles (MD)	2008	Annual	MCY	AllMYr	6,861	88,752	0.720%		4.5992E-06	4.0242E-05	1.4538E-06	0.0001272	0.0001272	4.8024E-08	2.0291E-08	2.0159E-09
Vh	Los Angeles (MD)	2008	Annual	MDV	AllMYr	33,197	2,131,199	17.283%		3.1394E-07	5.5988E-06	7.6831E-07	0.00059599	0.00059599	4.8565E-08	2.1222E-08	6.0455E-09
Vh	Los Angeles (MD)	2008	Annual	MH	AllMYr	2,915	60,562	0.491%		5.3825E-07	1.4991E-05	3.1327E-06	0.00063898	0.00063898	9.7971E-08	5.9519E-08	6.559E-09
Vh	Los Angeles (MD)	2008	Annual	Motor Coach	AllMYr	22	3,225	0.026%		7.9818E-07	3.5328E-06	1.7363E-05	0.00177331	0.00177331	6.3013E-07	5.0763E-07	1.6918E-08
Vh	Los Angeles (MD)	2008	Annual	OBUS	AllMYr	103	10,094	0.082%		1.3238E-06	2.0285E-05	5.1292E-06	0.00058344	0.00058344	4.7415E-08	2.0086E-08	6.1799E-09
Vh	Los Angeles (MD)	2008	Annual	PTO	AllMYr	0	345	0.003%		1.0464E-06	5.4486E-06	1.7157E-05	0.00215642	0.00215642	7.1045E-07	6.5362E-07	2.0573E-08
Vh	Los Angeles (MD)	2008	Annual	SBUS	AllMYr	222	10,062	0.082%		2.0996E-06	1.7793E-05	1.0817E-05	0.00119898	0.00119898	9.6259E-07	6.2103E-07	1.1834E-08
Vh	Los Angeles (MD)	2008	Annual	T6 Ag	AllMYr	12	454	0.004%		5.6194E-07	1.9719E-06	1.0564E-05	0.00113614	0.00113614	6.0477E-07	4.843E-07	1.0839E-08
Vh	Los Angeles (MD)	2008	Annual	T6 CAIRP heavy	AllMYr	7	445	0.004%		2.9618E-07	1.164E-06	8.3019E-06	0.00111653	0.00111653	4.3299E-07	3.2626E-07	1.0652E-08
Vh	Los Angeles (MD)	2008	Annual	T6 CAIRP small	AllMYr	21	1,549	0.013%		2.2785E-07	9.4692E-07	7.525E-06	0.00111433	0.00111433	3.9139E-07	2.8799E-07	1.0631E-08
Vh	Los Angeles (MD)	2008	Annual	T6 instate construction heavy	AllMYr	33	1,869	0.015%		4.8152E-07	1.7344E-06	1.0238E-05	0.00112462	0.00112462	5.4201E-07	4.2656E-07	1.0729E-08
Vh	Los Angeles (MD)	2008	Annual	T6 instate construction small	AllMYr	79	5,273	0.043%		3.0957E-07	1.2123E-06	8.7882E-06	0.00111634	0.00111634	4.2382E-07	3.1782E-07	1.065E-08
Vh	Los Angeles (MD)	2008	Annual	T6 instate heavy	AllMYr	114	6,362	0.052%		4.8152E-07	1.7344E-06	1.0238E-05	0.00112462	0.00112462	5.4201E-07	4.2656E-07	1.0729E-08
Vh	Los Angeles (MD)	2008	Annual	T6 instate small	AllMYr	268	17,945	0.146%		3.0957E-07	1.2123E-06	8.7882E-06	0.00111634	0.00111634	4.2382E-07	3.1782E-07	1.065E-08
Vh	Los Angeles (MD)	2008	Annual	T6 OOS heavy	AllMYr	4	255	0.002%		2.9618E-07	1.164E-06	8.3019E-06	0.00111653	0.00111653	4.3299E-07	3.2626E-07	1.0652E-08
Vh	Los Angeles (MD)	2008	Annual	T6 OOS small	AllMYr	12	888	0.007%		2.2785E-07	9.4692E-07	7.525E-06	0.00111433	0.00111433	3.9139E-07	2.8799E-07	1.0631E-08
Vh	Los Angeles (MD)	2008	Annual	T6 public	AllMYr	40	726	0.006%		3.2955E-07	1.2412E-06	1.0237E-05	0.00115265	0.00115265	4.5791E-07	3.4918E-07	1.0997E-08
Vh	Los Angeles (MD)	2008	Annual	T6 utility	AllMYr	11	211	0.002%		1.5502E-07	6.9352E-07	8.8341E-06	0.00114026	0.00114026	3.2548E-07	2.2735E-07	1.0879E-08
Vh	Los Angeles (MD)	2008	Annual	T6TS	AllMYr	242	18,099	0.147%		2.8069E-06	3.3351E-05	6.2352E-06	0.0005863	0.0005863	5.2426E-08	2.4268E-08	6.4456E-09
Vh	Los Angeles (MD)	2008	Annual	T7 Ag	AllMYr	4	283	0.002%		9.1126E-07	4.3228E-06	1.7989E-05	0.00173811	0.00173811	8.0671E-07	6.8771E-07	1.6582E-08
Vh	Los Angeles (MD)	2008	Annual	T7 CAIRP	AllMYr	206	50,150	0.407%		7.5413E-07	3.2204E-06	1.5227E-05	0.0017407	0.0017407	6.391E-07	5.3351E-07	1.6607E-08
Vh	Los Angeles (MD)	2008	Annual	T7 CAIRP construction	AllMYr	1	346	0.003%		7.5413E-07	3.2204E-06	1.5227E-05	0.0017407	0.0017407	6.391E-07	5.3351E-07	1.6607E-08
Vh	Los Angeles (MD)	2008	Annual	T7 NNOOS	AllMYr	202	56,417	0.458%		5.554E-07	2.4579E-06	1.1528E-05	0.00176433	0.00176433	5.0442E-07	4.096E-07	1.6833E-08
Vh	Los Angeles (MD)	2008	Annual	T7 NOOS	AllMYr	75	18,263	0.148%		7.7397E-07	3.2558E-06	1.5286E-05	0.00175214	0.00175214	6.4308E-07	5.3717E-07	1.6716E-08
Vh	Los Angeles (MD)	2008	Annual	T7 other port	AllMYr	0	0	0.000%		0	0	0	0	0	0	0	0
Vh	Los Angeles (MD)	2008	Annual	T7 POAK	AllMYr	0	0	0.000%		0	0	0	0	0	0	0	0
Vh	Los Angeles (MD)	2008	Annual	T7 POLA	AllMYr	30	3,978	0.032%		1.3061E-06	6.0422E-06	2.1689E-05	0.00177521	0.00177521	9.1515E-07	7.8747E-07	1.6936E-08
Vh	Los Angeles (MD)	2008	Annual	T7 public	AllMYr	5	117	0.001%		1.362E-06	5.4905E-06	2.1931E-05	0.00205624	0.00205624	8.4626E-07	7.241E-07	1.9618E-08
Vh	Los Angeles (MD)	2008	Annual	T7 Single	AllMYr	19	1,435	0.012%		6.1232E-07	2.8614E-06	1.6036E-05	0.00172775	0.00172775	5.6627E-07	4.665E-07	1.6484E-08
Vh	Los Angeles (MD)	2008	Annual	T7 single construction	AllMYr	12	894	0.007%		6.1232E-07	2.8614E-06	1.6036E-05	0.00172775	0.00172775	5.6627E-07	4.665E-07	1.6484E-08
Vh	Los Angeles (MD)	2008	Annual	T7 SWCV	AllMYr	7	362	0.003%		7.4628E-07	3.4984E-06	1.7257E-05	0.00187081	0.00187081	6.2464E-07	5.2021E-07	1.7848E-08
Vh	Los Angeles (MD)	2008	Annual	T7 tractor	AllMYr	82	13,633	0.111%		8.3284E-07	3.8457E-06	1.6734E-05	0.00171359	0.00171359	6.9988E-07	5.8942E-07	1.6348E-08
Vh	Los Angeles (MD)	2008	Annual	T7 tractor construction	AllMYr	8	667	0.005%		8.6625E-07	4.001E-06	1.6922E-05	0.00172767	0.00172767	7.1053E-07	5.9923E-07	1.6483E-08
Vh	Los Angeles (MD)	2008	Annual	T7 utility	AllMYr	1	31	0.000%		6.919E-07	3.234E-06	1.9703E-05	0.00203101	0.00203101	4.6211E-07	3.7068E-07	1.9377E-08
Vh	Los Angeles (MD)	2008	Annual	T7IS	AllMYr	20	4,649	0.038%		3.3593E-06	7.0797E-05	1.229E-05	0.00056744	0.00056744	4.7544E-08	2.0111E-08	6.8757E-09
Vh	Los Angeles (MD)	2008	Annual	UBUS	AllMYr	62	13,711	0.111%		8.6812E-07	5.4299E-06	7.5013E-06	0.00216611	0.00216611	8.2478E-07	4.1467E-07	2.0821E-08

									lbs/Mile							
RecType	Sub-Area	CalYr	Season	Veh	MdlYr	Pop	VMT	Percent of Total VMT	ROG_TOTAL	CO_TOTEX	NOx_TOTEX	CO2_TOTEX	CO2_TOTEX	PM10_TOTAL	PM2_5_TOT	SOx_TOTEX
Vh	Los Angeles (MD)	2008	Annual	All Other Buses	AllMYr	55	3,214	0.026%	0.00117503	0.0041924	0.02351344	2.47709375	2.47709375	0.00131413	0.00105007	2.3633E-05
Vh	Los Angeles (MD)	2008	Annual	LDA	AllMYr	104,941	5,894,459	47.802%	0.00075079	0.01002305	0.0008979	0.76531059	0.76531059	0.00011097	5.0278E-05	7.812E-06
Vh	Los Angeles (MD)	2008	Annual	LDT1	AllMYr	15,389	855,001	6.934%	0.00164968	0.02275292	0.00207237	0.87316998	0.87316998	0.00012267	6.0545E-05	9.1106E-06
Vh	Los Angeles (MD)	2008	Annual	LDT2	AllMYr	34,346	2,124,967	17.233%	0.00072036	0.01166425	0.00149788	1.04475835	1.04475835	0.00010892	4.8397E-05	1.0629E-05
Vh	Los Angeles (MD)	2008	Annual	LHD1	AllMYr	9,557	797,121	6.464%	0.00109931	0.01115789	0.00810882	1.2266572	1.2266572	0.00018002	9.5013E-05	1.2235E-05
Vh	Los Angeles (MD)	2008	Annual	LHD2	AllMYr	1,537	132,875	1.078%	0.00079831	0.00713094	0.01048574	1.19150303	1.19150303	0.000257	0.00013991	1.1635E-05
Vh	Los Angeles (MD)	2008	Annual	MCY	AllMYr	6,861	88,752	0.720%	0.01013951	0.08871804	0.00320513	0.28042976	0.28042976	0.00010587	4.4734E-05	4.4443E-06
Vh	Los Angeles (MD)	2008	Annual	MDV	AllMYr	33,197	2,131,199	17.283%	0.00069212	0.01234328	0.00169383	1.31392642	1.31392642	0.00010707	4.6787E-05	1.3328E-05
Vh	Los Angeles (MD)	2008	Annual	MH	AllMYr	2,915	60,562	0.491%	0.00118663	0.03304888	0.00690639	1.40871928	1.40871928	0.00021599	0.00013122	1.446E-05
Vh	Los Angeles (MD)	2008	Annual	Motor Coach	AllMYr	22	3,225	0.026%	0.00175969	0.00778858	0.03827875	3.90947896	3.90947896	0.00138921	0.00111913	3.7298E-05
Vh	Los Angeles (MD)	2008	Annual	OBUS	AllMYr	103	10,094	0.082%	0.00291838	0.04472049	0.01130798	1.2862659	1.2862659	0.00010453	4.4283E-05	1.3624E-05
Vh	Los Angeles (MD)	2008	Annual	PTO	AllMYr	0	345	0.003%	0.00230689	0.01201217	0.03782374	4.75409231	4.75409231	0.00156628	0.00144097	4.5356E-05
Vh	Los Angeles (MD)	2008	Annual	SBUS	AllMYr	222	10,062	0.082%	0.00462877	0.03922774	0.02384713	2.64328867	2.64328867	0.00212215	0.00136913	2.6089E-05
Vh	Los Angeles (MD)	2008	Annual	T6 Ag	AllMYr	12	454	0.004%	0.00123887	0.00434737	0.02328963	2.50476652	2.50476652	0.00133329	0.00106769	2.3897E-05
Vh	Los Angeles (MD)	2008	Annual	T6 CAIRP heavy	AllMYr	7	445	0.004%	0.00065296	0.00256618	0.01830256	2.46151946	2.46151946	0.00095459	0.00071928	2.3484E-05
Vh	Los Angeles (MD)	2008	Annual	T6 CAIRP small	AllMYr	21	1,549	0.013%	0.00050233	0.00208761	0.01658974	2.45668293	2.45668293	0.00086287	0.00063491	2.3438E-05
Vh	Los Angeles (MD)	2008	Annual	T6 instate construction heavy	AllMYr	33	1,869	0.015%	0.00106156	0.00382379	0.02257109	2.479368	2.479368	0.00119493	0.0009404	2.3654E-05
Vh	Los Angeles (MD)	2008	Annual	T6 instate construction small	AllMYr	79	5,273	0.043%	0.00068248	0.00267259	0.01937465	2.46111853	2.46111853	0.00093436	0.00070068	2.348E-05
Vh	Los Angeles (MD)	2008	Annual	T6 instate heavy	AllMYr	114	6,362	0.052%	0.00106156	0.00382379	0.02257109	2.479368	2.479368	0.00119493	0.0009404	2.3654E-05
Vh	Los Angeles (MD)	2008	Annual	T6 instate small	AllMYr	268	17,945	0.146%	0.00068248	0.00267259	0.01937465	2.46111853	2.46111853	0.00093436	0.00070068	2.348E-05
Vh	Los Angeles (MD)	2008	Annual	T6 OOS heavy	AllMYr	4	255	0.002%	0.00065296	0.00256618	0.01830256	2.46151946	2.46151946	0.00095459	0.00071928	2.3484E-05
Vh	Los Angeles (MD)	2008	Annual	T6 OOS small	AllMYr	12	888	0.007%	0.00050233	0.00208761	0.01658974	2.45668293	2.45668293	0.00086287	0.00063491	2.3438E-05
Vh	Los Angeles (MD)	2008	Annual	T6 public	AllMYr	40	726	0.006%	0.00072652	0.00273633	0.0225686	2.54115939	2.54115939	0.00100952	0.00076982	2.4244E-05
Vh	Los Angeles (MD)	2008	Annual	T6 utility	AllMYr	11	211	0.002%	0.00034175	0.00152896	0.01947587	2.5138456	2.5138456	0.00071756	0.00050121	2.3983E-05
Vh	Los Angeles (MD)	2008	Annual	T6TS	AllMYr	242	18,099	0.147%	0.00618823	0.07352655	0.01374616	1.29256248	1.29256248	0.00011558	5.3501E-05	1.421E-05
Vh	Los Angeles (MD)	2008	Annual	T7 Ag	AllMYr	4	283	0.002%	0.00200898	0.00953013	0.03965924	3.83188612	3.83188612	0.00177849	0.00151615	3.6558E-05
Vh	Los Angeles (MD)	2008	Annual	T7 CAIRP	AllMYr	206	50,150	0.407%	0.00166257	0.00709968	0.03356921	3.83759557	3.83759557	0.00140898	0.00117619	3.6612E-05
Vh	Los Angeles (MD)	2008	Annual	T7 CAIRP construction	AllMYr	1	346	0.003%	0.00166257	0.00709968	0.03356921	3.83759557	3.83759557	0.00140898	0.00117619	3.6612E-05
Vh	Los Angeles (MD)	2008	Annual	T7 NNOOS	AllMYr	202	56,417	0.458%	0.00122445	0.0054187	0.02541429	3.88968623	3.88968623	0.00111205	0.00090302	3.7109E-05
Vh	Los Angeles (MD)	2008	Annual	T7 NOOS	AllMYr	75	18,263	0.148%	0.00170631	0.00717778	0.03369974	3.86281267	3.86281267	0.00141775	0.00118427	3.6853E-05
Vh	Los Angeles (MD)	2008	Annual	T7 other port	AllMYr	0	0	0.000%	0	0	0	0	0	0	0	0
Vh	Los Angeles (MD)	2008	Annual	T7 POAK	AllMYr	0	0	0.000%	0	0	0	0	0	0	0	0
Vh	Los Angeles (MD)	2008	Annual	T7 POLA	AllMYr	30	3,978	0.032%	0.00287946	0.0133207	0.04781519	3.91365844	3.91365844	0.00201755	0.00173608	3.7338E-05
Vh	Los Angeles (MD)	2008	Annual	T7 public	AllMYr	5	117	0.001%	0.0030028	0.01210448	0.04835039	4.53324403	4.53324403	0.00186568	0.00159636	4.3249E-05
Vh	Los Angeles (MD)	2008	Annual	T7 Single	AllMYr	19	1,435	0.012%	0.00134993	0.00630824	0.03535407	3.80903115	3.80903115	0.0012484	0.00102846	3.634E-05
Vh	Los Angeles (MD)	2008	Annual	T7 single construction	AllMYr	12	894	0.007%	0.00134993	0.00630824	0.03535407	3.80903115	3.80903115	0.0012484	0.00102846	3.634E-05
Vh	Los Angeles (MD)	2008	Annual	T7 SWCV	AllMYr	7	362	0.003%	0.00164527	0.00771256	0.03804605	4.12442659	4.12442659	0.00137711	0.00114687	3.9349E-05
Vh	Los Angeles (MD)	2008	Annual	T7 tractor	AllMYr	82	13,633	0.111%	0.0018361	0.0084784	0.03689119	3.77782343	3.77782343	0.00154296	0.00129946	3.6042E-05
Vh	Los Angeles (MD)	2008	Annual	T7 tractor construction	AllMYr	8	667	0.005%	0.00190975	0.00882076	0.0373073	3.80886003	3.80886003	0.00156646	0.00132108	3.6338E-05
Vh	Los Angeles (MD)	2008	Annual	T7 utility	AllMYr	1	31	0.000%	0.00152539	0.00712966	0.04343788	4.47760636	4.47760636	0.00101878	0.00081721	4.2718E-05
Vh	Los Angeles (MD)	2008	Annual	T7IS	AllMYr	20	4,649	0.038%	0.00740604	0.15607991	0.02709382	1.25098408	1.25098408	0.00010482	4.4338E-05	1.5158E-05
Vh	Los Angeles (MD)	2008	Annual	UBUS	AllMYr	62	13,711	0.111%	0.00191388	0.01197094	0.0165375	4.77544986	4.77544986	0.00181833	0.0009142	4.5903E-05

EMFAC2011-LDV (2008)

2

EMFAC2011LDV		g/idle-hour							
		ROG_RUNEX	CO_RUNEX	NOx_RUNEX	SOx_RUNEX	PM10_RUNEX	PM2_5_RUNEX	CO2_RUNEX	CO2_RUNEX (Pavley I + LCFS)
LHD1-DSL	0 mph	3.612	26.300	75.051	0.039	0.948	0.945	4098	4098.000
LHD2-DSL	0 mph	3.612	26.300	75.051	0.039	0.964	0.961	4098	4098.000
MDV-DSL	5 mph	2.305	13.245	8.170	0.02	1.705	1.700	1942.49	1942.490

EMFAC2011-LDV (2008)

2

EM FAC 2011 LDV		0	lbs/hour							
			ROG_RUNEX	CO_RUNEX	NOx_RUNEX	SOx_RUNEX	PM10_RUNEX	PM2_5_RUNEX	CO2_RUNEX	CO2_RUNEX (Pavley I + LCFS)
LHD1-DSL	0 mph		0.00796302	0.05798098	0.16545743	8.5979E-05	0.00208996	0.00208369	9.0344508	9.0344508
LHD2-DSL	0 mph		0.00796302	0.05798098	0.16545743	8.5979E-05	0.00212523	0.00211886	9.0344508	9.0344508
MDV-DSL	5 mph		0.0050816	0.02919993	0.01801158	4.4092E-05	0.00375884	0.00374757	4.28241345	4.28241345

EMFAC2011-LDV (2008)

2

EM FAC 2011 LDV		0	MTons/hr							
			ROG_RUNEX	CO_RUNEX	NOx_RUNEX	SOx_RUNEX	PM10_RUNEX	PM2_5_RUNEX	CO2_RUNEX	CO2_RUNEX (Pavley I + LCFS)
LHD1-DSL	0 mph		3.612E-06	2.63E-05	7.505E-05	3.9E-08	9.4799E-07	9.4515E-07	0.00409796	0.00409796
LHD2-DSL	0 mph		3.612E-06	2.63E-05	7.505E-05	3.9E-08	9.6399E-07	9.611E-07	0.00409796	0.00409796
MDV-DSL	5 mph		2.305E-06	1.3245E-05	8.1699E-06	2E-08	1.705E-06	1.6999E-06	0.00194247	0.00194247

								Tons/Mile Weekday							
RecType	Sub-Area	CalYr	Season	Veh	MdlYr	VMT	Percent of Total VMT	ROG_TOTAL	CO_TOTEX	NOx_TOTEX	CO2_TOTEX	CO2_TOTEX (Pavley I + LCFS)	PM10_TOTAL	PM2_5_TOTAL	SOx_TOTEX
Vh	Los Angeles	2035	Annual	All Other Buses	AllMYr	5,233	0.022%	0.0006	0.0027	0.0074	6.5012	5.8511	0.0011	0.0006	0.0001
Vh	Los Angeles	2035	Annual	LDA	AllMYr	10,776,463	44.575%	0.5470	10.8219	0.9624	4454.7434	2652.2888	0.5669	0.2436	0.0446
Vh	Los Angeles	2035	Annual	LDT1	AllMYr	1,753,642	7.254%	0.1393	2.0978	0.1831	841.1439	515.2014	0.0922	0.0396	0.0084
Vh	Los Angeles	2035	Annual	LDT2	AllMYr	4,421,145	18.287%	0.3502	5.1372	0.4817	2480.3368	1686.6063	0.2322	0.0996	0.0248
Vh	Los Angeles	2035	Annual	LHD1	AllMYr	1,868,350	7.728%	0.2292	1.8434	1.3910	1204.1818	1083.7636	0.1441	0.0674	0.0119
Vh	Los Angeles	2035	Annual	LHD2	AllMYr	294,406	1.218%	0.0271	0.2587	0.2661	179.2428	161.3185	0.0323	0.0157	0.0017
Vh	Los Angeles	2035	Annual	MCY	AllMYr	198,848	0.823%	0.6861	4.7403	0.2740	36.4182	32.7764	0.0099	0.0040	0.0005
Vh	Los Angeles	2035	Annual	MDV	AllMYr	4,145,184	17.146%	0.4881	6.2417	0.5902	2981.6101	2064.9722	0.2175	0.0931	0.0299
Vh	Los Angeles	2035	Annual	MH	AllMYr	226,597	0.937%	0.0068	0.0600	0.1564	169.9040	152.9136	0.0160	0.0072	0.0017
Vh	Los Angeles	2035	Annual	Motor Coach	AllMYr	5,356	0.022%	0.0016	0.0082	0.0132	10.5637	9.5074	0.0013	0.0007	0.0001
Vh	Los Angeles	2035	Annual	OBUS	AllMYr	17,876	0.074%	0.0079	0.0794	0.0139	12.4099	11.1689	0.0009	0.0004	0.0001
Vh	Los Angeles	2035	Annual	PTO	AllMYr	641	0.003%	0.0002	0.0006	0.0015	1.4954	1.3459	0.0000	0.0000	0.0000
Vh	Los Angeles	2035	Annual	SBUS	AllMYr	14,828	0.061%	0.0052	0.0325	0.0480	17.9751	16.1776	0.0071	0.0032	0.0002
Vh	Los Angeles	2035	Annual	T6 Ag	AllMYr	415	0.002%	0.0000	0.0002	0.0006	0.5198	0.4678	0.0001	0.0000	0.0000
Vh	Los Angeles	2035	Annual	T6 CAIRP heavy	AllMYr	675	0.003%	0.0001	0.0003	0.0008	0.8370	0.7533	0.0001	0.0001	0.0000
Vh	Los Angeles	2035	Annual	T6 CAIRP small	AllMYr	2,335	0.010%	0.0002	0.0010	0.0024	2.8951	2.6056	0.0005	0.0002	0.0000
Vh	Los Angeles	2035	Annual	T6 instate construction heavy	AllMYr	5,214	0.022%	0.0006	0.0026	0.0069	6.4819	5.8337	0.0011	0.0006	0.0001
Vh	Los Angeles	2035	Annual	T6 instate construction small	AllMYr	14,500	0.060%	0.0015	0.0064	0.0164	17.9898	16.1909	0.0029	0.0015	0.0002
Vh	Los Angeles	2035	Annual	T6 instate heavy	AllMYr	11,574	0.048%	0.0013	0.0057	0.0154	14.3894	12.9504	0.0024	0.0013	0.0001
Vh	Los Angeles	2035	Annual	T6 instate small	AllMYr	32,072	0.133%	0.0032	0.0143	0.0364	39.7909	35.8119	0.0064	0.0033	0.0004
Vh	Los Angeles	2035	Annual	T6 OOS heavy	AllMYr	387	0.002%	0.0000	0.0002	0.0004	0.4799	0.4319	0.0001	0.0000	0.0000
Vh	Los Angeles	2035	Annual	T6 OOS small	AllMYr	1,339	0.006%	0.0001	0.0006	0.0014	1.6598	1.4938	0.0003	0.0001	0.0000
Vh	Los Angeles	2035	Annual	T6 public	AllMYr	1,233	0.005%	0.0001	0.0006	0.0018	1.5743	1.4168	0.0002	0.0001	0.0000
Vh	Los Angeles	2035	Annual	T6 utility	AllMYr	427	0.002%	0.0000	0.0002	0.0004	0.5422	0.4879	0.0001	0.0000	0.0000
Vh	Los Angeles	2035	Annual	T6TS	AllMYr	60,427	0.250%	0.0129	0.1386	0.0258	41.2280	37.1052	0.0030	0.0012	0.0004
Vh	Los Angeles	2035	Annual	T7 Ag	AllMYr	265	0.001%	0.0001	0.0004	0.0007	0.5215	0.4693	0.0001	0.0000	0.0000
Vh	Los Angeles	2035	Annual	T7 CAIRP	AllMYr	93,161	0.385%	0.0351	0.1811	0.2831	188.7386	169.8648	0.0182	0.0112	0.0018
Vh	Los Angeles	2035	Annual	T7 CAIRP construction	AllMYr	954	0.004%	0.0004	0.0019	0.0029	1.9327	1.7394	0.0002	0.0001	0.0000
Vh	Los Angeles	2035	Annual	T7 NNOOS	AllMYr	104,802	0.433%	0.0377	0.1961	0.2786	213.6462	192.2815	0.0190	0.0112	0.0020
Vh	Los Angeles	2035	Annual	T7 NOOS	AllMYr	33,927	0.140%	0.0140	0.0728	0.1094	69.8862	62.8976	0.0066	0.0041	0.0007
Vh	Los Angeles	2035	Annual	T7 other port	AllMYr	0	0.000%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vh	Los Angeles	2035	Annual	T7 POAK	AllMYr	0	0.000%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vh	Los Angeles	2035	Annual	T7 POLA	AllMYr	14,574	0.060%	0.0053	0.0266	0.0497	28.6735	25.8062	0.0032	0.0020	0.0003
Vh	Los Angeles	2035	Annual	T7 public	AllMYr	203	0.001%	0.0001	0.0006	0.0011	0.4596	0.4137	0.0000	0.0000	0.0000
Vh	Los Angeles	2035	Annual	T7 Single	AllMYr	2,665	0.011%	0.0007	0.0037	0.0056	5.2399	4.7159	0.0005	0.0003	0.0000
Vh	Los Angeles	2035	Annual	T7 single construction	AllMYr	2,468	0.010%	0.0007	0.0034	0.0052	4.8512	4.3661	0.0004	0.0002	0.0000
Vh	Los Angeles	2035	Annual	T7 SWCV	AllMYr	630	0.003%	0.0002	0.0012	0.0016	1.3057	1.1751	0.0001	0.0001	0.0000
Vh	Los Angeles	2035	Annual	T7 tractor	AllMYr	25,325	0.105%	0.0068	0.0338	0.0629	48.6782	43.8104	0.0049	0.0030	0.0005
Vh	Los Angeles	2035	Annual	T7 tractor construction	AllMYr	1,840	0.008%	0.0006	0.0029	0.0050	3.6090	3.2481	0.0004	0.0002	0.0000
Vh	Los Angeles	2035	Annual	T7 utility	AllMYr	64	0.000%	0.0000	0.0002	0.0002	0.1449	0.1304	0.0000	0.0000	0.0000
Vh	Los Angeles	2035	Annual	T7IS	AllMYr	6,873	0.028%	0.0063	0.3634	0.0532	4.6197	4.1577	0.0003	0.0001	0.0001
Vh	Los Angeles	2035	Annual	UBUS	AllMYr	29,169	0.121%	0.0055	0.0563	0.0998	64.3232	57.8909	0.0246	0.0116	0.0006

RecType	Sub-Area	CalYr	Season	Veh	MdlYr	VMT	Percent of Total VMT	MTons/Mile ROG_TOTAL	CO_TOTEX	NOx_TOTEX	CO2_TOTEX	CO2_TOTEX (Pavley I +	PM10_TOTAL	PM2_5_TOTAL	SOx_TOTEX
Vh	Los Angeles	2035	Annual	All Other Buses	AllMYr	5,233	0.022%	1.05781E-07	4.67653E-07	1.2861E-06	0.001127132	0.001014419	1.88911E-07	1.01706E-07	1.07534E-08
Vh	Los Angeles	2035	Annual	LDA	AllMYr	10,776,463	44.575%	4.60441E-08	9.1101E-07	8.10167E-08	0.000375009	0.000223275	4.77243E-08	2.05095E-08	3.758E-09
Vh	Los Angeles	2035	Annual	LDT1	AllMYr	1,753,642	7.254%	7.20369E-08	1.0852E-06	9.47334E-08	0.000435136	0.000266521	4.76784E-08	2.0467E-08	4.36139E-09
Vh	Los Angeles	2035	Annual	LDT2	AllMYr	4,421,145	18.287%	7.18501E-08	1.05411E-06	9.8845E-08	0.000508946	0.000346079	4.7654E-08	2.04444E-08	5.09776E-09
Vh	Los Angeles	2035	Annual	LHD1	AllMYr	1,868,350	7.728%	1.11302E-07	8.95069E-07	6.75407E-07	0.000584695	0.000526226	6.9983E-08	3.27433E-08	5.76311E-09
Vh	Los Angeles	2035	Annual	LHD2	AllMYr	294,406	1.218%	8.35722E-08	7.97031E-07	8.20057E-07	0.00055232	0.000497088	9.93939E-08	4.83903E-08	5.36142E-09
Vh	Los Angeles	2035	Annual	MCY	AllMYr	198,848	0.823%	3.13015E-06	2.1626E-05	1.24998E-06	0.000166147	0.000149532	4.50729E-08	1.80311E-08	2.08584E-09
Vh	Los Angeles	2035	Annual	MDV	AllMYr	4,145,184	17.146%	1.06833E-07	1.36601E-06	1.29163E-07	0.000652533	0.000451925	4.75901E-08	2.03851E-08	6.53619E-09
Vh	Los Angeles	2035	Annual	MH	AllMYr	226,597	0.937%	2.71421E-08	2.40341E-07	6.26338E-07	0.000680214	0.000612192	6.41873E-08	2.90157E-08	6.72461E-09
Vh	Los Angeles	2035	Annual	Motor Coach	AllMYr	5,356	0.022%	2.73462E-07	1.39085E-06	2.2338E-06	0.001789306	0.001610376	2.12754E-07	1.23641E-07	1.70708E-08
Vh	Los Angeles	2035	Annual	OBUS	AllMYr	17,876	0.074%	3.98449E-07	4.02844E-06	7.05715E-07	0.000629778	0.0005668	4.50678E-08	1.80448E-08	6.35834E-09
Vh	Los Angeles	2035	Annual	PTO	AllMYr	641	0.003%	2.67506E-07	8.23142E-07	2.12537E-06	0.002117084	0.001905375	4.48658E-08	4.12765E-08	2.0198E-08
Vh	Los Angeles	2035	Annual	SBUS	AllMYr	14,828	0.061%	3.15559E-07	1.98658E-06	2.93396E-06	0.001099736	0.000989762	4.35609E-07	1.98301E-07	1.06864E-08
Vh	Los Angeles	2035	Annual	T6 Ag	AllMYr	415	0.002%	1.05562E-07	4.84483E-07	1.26933E-06	0.001135529	0.001021976	1.87436E-07	1.00348E-07	1.08335E-08
Vh	Los Angeles	2035	Annual	T6 CAIRP heavy	AllMYr	675	0.003%	9.02299E-08	3.99955E-07	1.01177E-06	0.001125686	0.001013117	1.80178E-07	9.36709E-08	1.07396E-08
Vh	Los Angeles	2035	Annual	T6 CAIRP small	AllMYr	2,335	0.010%	8.56236E-08	3.78599E-07	9.29847E-07	0.001124666	0.001012199	1.77672E-07	9.13659E-08	1.07298E-08
Vh	Los Angeles	2035	Annual	T6 instate construction heavy	AllMYr	5,214	0.022%	1.01058E-07	4.49633E-07	1.20251E-06	0.001127863	0.001015077	1.86086E-07	9.91067E-08	1.07603E-08
Vh	Los Angeles	2035	Annual	T6 instate construction small	AllMYr	14,500	0.060%	9.11363E-08	4.03307E-07	1.02759E-06	0.001125495	0.001012946	1.80728E-07	9.4177E-08	1.07377E-08
Vh	Los Angeles	2035	Annual	T6 instate heavy	AllMYr	11,574	0.048%	1.01225E-07	4.50398E-07	1.20533E-06	0.001127899	0.001015109	1.86176E-07	9.91891E-08	1.07607E-08
Vh	Los Angeles	2035	Annual	T6 instate small	AllMYr	32,072	0.133%	9.11962E-08	4.03581E-07	1.02861E-06	0.001125507	0.001012957	1.8076E-07	9.42067E-08	1.07379E-08
Vh	Los Angeles	2035	Annual	T6 OOS heavy	AllMYr	387	0.002%	9.02299E-08	3.99955E-07	1.01177E-06	0.001125686	0.001013117	1.80178E-07	9.36709E-08	1.07396E-08
Vh	Los Angeles	2035	Annual	T6 OOS small	AllMYr	1,339	0.006%	8.56236E-08	3.78599E-07	9.29847E-07	0.001124666	0.001012199	1.77672E-07	9.13659E-08	1.07298E-08
Vh	Los Angeles	2035	Annual	T6 public	AllMYr	1,233	0.005%	8.47851E-08	4.36052E-07	1.33915E-06	0.001157974	0.001042176	1.73634E-07	8.76501E-08	1.10476E-08
Vh	Los Angeles	2035	Annual	T6 utility	AllMYr	427	0.002%	8.0148E-08	4.13785E-07	8.32365E-07	0.001151546	0.001036391	1.70451E-07	8.47225E-08	1.09863E-08
Vh	Los Angeles	2035	Annual	T6TS	AllMYr	60,427	0.250%	1.93849E-07	2.08027E-06	3.87533E-07	0.000618949	0.000557054	4.49894E-08	1.79721E-08	6.21539E-09
Vh	Los Angeles	2035	Annual	T7 Ag	AllMYr	265	0.001%	2.82706E-07	1.43384E-06	2.37073E-06	0.001787764	0.001608987	1.73068E-07	1.04761E-07	1.70561E-08
Vh	Los Angeles	2035	Annual	T7 CAIRP	AllMYr	93,161	0.385%	3.41804E-07	1.76334E-06	2.757E-06	0.001837908	0.001654117	1.77268E-07	1.08626E-07	1.75345E-08
Vh	Los Angeles	2035	Annual	T7 CAIRP construction	AllMYr	954	0.004%	3.41866E-07	1.76368E-06	2.75745E-06	0.001837956	0.00165416	1.77275E-07	1.08632E-07	1.7535E-08
Vh	Los Angeles	2035	Annual	T7 NNOOS	AllMYr	104,802	0.433%	3.26498E-07	1.6978E-06	2.41201E-06	0.001849354	0.001664418	1.64212E-07	9.66143E-08	1.76437E-08
Vh	Los Angeles	2035	Annual	T7 NOOS	AllMYr	33,927	0.140%	3.74197E-07	1.94609E-06	2.92523E-06	0.001868723	0.00168185	1.7774E-07	1.0906E-07	1.78285E-08
Vh	Los Angeles	2035	Annual	T7 other port	AllMYr	0	0.000%	0	0	0	0	0	0	0	0
Vh	Los Angeles	2035	Annual	T7 POAK	AllMYr	0	0.000%	0	0	0	0	0	0	0	0
Vh	Los Angeles	2035	Annual	T7 POLA	AllMYr	14,574	0.060%	3.28177E-07	1.65437E-06	3.09603E-06	0.001784825	0.001606342	1.96875E-07	1.26664E-07	1.70281E-08
Vh	Los Angeles	2035	Annual	T7 public	AllMYr	203	0.001%	4.72428E-07	2.53808E-06	4.92526E-06	0.002055569	0.001850012	1.52534E-07	8.58708E-08	1.96111E-08
Vh	Los Angeles	2035	Annual	T7 Single	AllMYr	2,665	0.011%	2.4668E-07	1.25533E-06	1.89537E-06	0.001783351	0.001605016	1.58119E-07	9.10085E-08	1.7014E-08
Vh	Los Angeles	2035	Annual	T7 single construction	AllMYr	2,468	0.010%	2.46796E-07	1.25595E-06	1.89649E-06	0.001783411	0.00160507	1.58146E-07	9.10336E-08	1.70146E-08
Vh	Los Angeles	2035	Annual	T7 SWCV	AllMYr	630	0.003%	3.27911E-07	1.72585E-06	2.35973E-06	0.00187982	0.001691838	1.51266E-07	8.47039E-08	1.79344E-08
Vh	Los Angeles	2035	Annual	T7 tractor	AllMYr	25,325	0.105%	2.43695E-07	1.209E-06	2.25383E-06	0.001743727	0.001569354	1.762E-07	1.07643E-07	1.6636E-08
Vh	Los Angeles	2035	Annual	T7 tractor construction	AllMYr	1,840	0.008%	2.81761E-07	1.42341E-06	2.45568E-06	0.001779514	0.001601563	1.7696E-07	1.08343E-07	1.69774E-08
Vh	Los Angeles	2035	Annual	T7 utility	AllMYr	64	0.000%	4.92723E-07	2.66879E-06	2.85233E-06	0.002049034	0.001844131	1.46124E-07	7.9973E-08	1.95487E-08
Vh	Los Angeles	2035	Annual	T7IS	AllMYr	6,873	0.028%	8.3332E-07	4.79679E-05	7.02074E-06	0.000609735	0.000548762	4.49466E-08	1.79324E-08	6.86644E-09
Vh	Los Angeles	2035	Annual	UBUS	AllMYr	29,169	0.121%	1.71246E-07	1.75117E-06	3.10249E-06	0.002000544	0.001800489	7.66225E-07	3.60413E-07	1.91723E-08

RecType	Sub-Area	CalYr	Season	Veh	MdlYr	VMT	Percent of Total VMT	##	lbs/Mile							
									ROG_TOTAL	CO_TOTEX	NOx_TOTEX	CO2_TOTEX	CO2_TOTEX (Pavley I +	PM10_TOTAL	PM2_5_TOTAL	SOx_TOTEX
Vh	Los Angeles	2035	Annual	All Other Buses	AllMYr	5,233	0.022%		0.00023321	0.001031	0.00283537	2.48490126	2.23641114	0.00041648	0.000224223	2.3707E-05
Vh	Los Angeles	2035	Annual	LDA	AllMYr	10,776,463	44.575%		0.00010151	0.00200843	0.00017861	0.82675427	0.49223736	0.00010521	4.52157E-05	8.285E-06
Vh	Los Angeles	2035	Annual	LDT1	AllMYr	1,753,642	7.254%		0.00015881	0.00239247	0.00020885	0.95931077	0.58757868	0.00010511	4.51221E-05	9.6152E-06
Vh	Los Angeles	2035	Annual	LDT2	AllMYr	4,421,145	18.287%		0.0001584	0.00232392	0.00021792	1.12203366	0.76297261	0.00010506	4.50723E-05	1.1239E-05
Vh	Los Angeles	2035	Annual	LHD1	AllMYr	1,868,350	7.728%		0.00024538	0.00197329	0.00148902	1.28903237	1.16012913	0.00015429	7.21866E-05	1.2705E-05
Vh	Los Angeles	2035	Annual	LHD2	AllMYr	294,406	1.218%		0.00018425	0.00175715	0.00180792	1.21765813	1.09589232	0.00021913	0.000106682	1.182E-05
Vh	Los Angeles	2035	Annual	MCY	AllMYr	198,848	0.823%		0.00690081	0.04767707	0.00275573	0.36629087	0.32966178	9.9369E-05	3.97519E-05	4.5985E-06
Vh	Los Angeles	2035	Annual	MDV	AllMYr	4,145,184	17.146%		0.00023553	0.00301153	0.00028476	1.43859006	0.99632358	0.00010492	4.49414E-05	1.441E-05
Vh	Los Angeles	2035	Annual	MH	AllMYr	226,597	0.937%		5.9838E-05	0.00052986	0.00138084	1.49961426	1.34965283	0.00014151	6.39686E-05	1.4825E-05
Vh	Los Angeles	2035	Annual	Motor Coach	AllMYr	5,356	0.022%		0.00060288	0.00306631	0.0049247	3.94474572	3.55027115	0.00046904	0.000272581	3.7635E-05
Vh	Los Angeles	2035	Annual	OBUS	AllMYr	17,876	0.074%		0.00087843	0.00888119	0.00155584	1.38842218	1.24957996	9.9357E-05	3.9782E-05	1.4018E-05
Vh	Los Angeles	2035	Annual	PTO	AllMYr	641	0.003%		0.00058975	0.00181472	0.00468564	4.66737116	4.20063405	9.8912E-05	9.09992E-05	4.4529E-05
Vh	Los Angeles	2035	Annual	SBUS	AllMYr	14,828	0.061%		0.00069569	0.00437966	0.00646827	2.42450202	2.18205182	0.00096035	0.000437178	2.3559E-05
Vh	Los Angeles	2035	Annual	T6 Ag	AllMYr	415	0.002%		0.00023273	0.0010681	0.00279839	2.50341309	2.25307178	0.00041323	0.00022123	2.3884E-05
Vh	Los Angeles	2035	Annual	T6 CAIRP heavy	AllMYr	675	0.003%		0.00019892	0.00088175	0.00223057	2.48171199	2.23354079	0.00039722	0.000206509	2.3677E-05
Vh	Los Angeles	2035	Annual	T6 CAIRP small	AllMYr	2,335	0.010%		0.00018877	0.00083467	0.00204996	2.47946391	2.23151752	0.0003917	0.000201427	2.3655E-05
Vh	Los Angeles	2035	Annual	T6 instate construction heavy	AllMYr	5,214	0.022%		0.0002228	0.00099127	0.00265107	2.4865133	2.23786197	0.00041025	0.000218493	2.3722E-05
Vh	Los Angeles	2035	Annual	T6 instate construction small	AllMYr	14,500	0.060%		0.00020092	0.00088914	0.00226545	2.48129197	2.23316277	0.00039844	0.000207625	2.3673E-05
Vh	Los Angeles	2035	Annual	T6 instate heavy	AllMYr	11,574	0.048%		0.00022316	0.00099296	0.00265729	2.48659101	2.23793191	0.00041045	0.000218674	2.3723E-05
Vh	Los Angeles	2035	Annual	T6 instate small	AllMYr	32,072	0.133%		0.00020105	0.00088974	0.0022677	2.48131937	2.23318743	0.00039851	0.00020769	2.3673E-05
Vh	Los Angeles	2035	Annual	T6 OOS heavy	AllMYr	387	0.002%		0.00019892	0.00088175	0.00223057	2.48171199	2.23354079	0.00039722	0.000206509	2.3677E-05
Vh	Los Angeles	2035	Annual	T6 OOS small	AllMYr	1,339	0.006%		0.00018877	0.00083467	0.00204996	2.47946391	2.23151752	0.0003917	0.000201427	2.3655E-05
Vh	Los Angeles	2035	Annual	T6 public	AllMYr	1,233	0.005%		0.00018692	0.00096133	0.00295232	2.55289491	2.29760542	0.0003828	0.000193235	2.4356E-05
Vh	Los Angeles	2035	Annual	T6 utility	AllMYr	427	0.002%		0.0001767	0.00091224	0.00183505	2.53872439	2.28485195	0.00037578	0.000186781	2.4221E-05
Vh	Los Angeles	2035	Annual	T6TS	AllMYr	60,427	0.250%		0.00042736	0.00458621	0.00085436	1.36454824	1.22809342	9.9185E-05	3.96217E-05	1.3703E-05
Vh	Los Angeles	2035	Annual	T7 Ag	AllMYr	265	0.001%		0.00062326	0.00316108	0.00522655	3.94134406	3.54720966	0.00038155	0.000230959	3.7602E-05
Vh	Los Angeles	2035	Annual	T7 CAIRP	AllMYr	93,161	0.385%		0.00075355	0.00388749	0.00607814	4.05189401	3.64670461	0.00039081	0.000239479	3.8657E-05
Vh	Los Angeles	2035	Annual	T7 CAIRP construction	AllMYr	954	0.004%		0.00075369	0.00388825	0.00607913	4.05199944	3.64679949	0.00039082	0.000239492	3.8658E-05
Vh	Los Angeles	2035	Annual	T7 NNOOS	AllMYr	104,802	0.433%		0.00071981	0.003743	0.00531757	4.077127	3.6694143	0.00036203	0.000212998	3.8898E-05
Vh	Los Angeles	2035	Annual	T7 NOOS	AllMYr	33,927	0.140%		0.00082496	0.00429039	0.00644903	4.11982858	3.70784572	0.00039185	0.000240436	3.9305E-05
Vh	Los Angeles	2035	Annual	T7 other port	AllMYr	0	0.000%		0	0	0	0	0	0	0	0
Vh	Los Angeles	2035	Annual	T7 POAK	AllMYr	0	0.000%		0	0	0	0	0	0	0	0
Vh	Los Angeles	2035	Annual	T7 POLA	AllMYr	14,574	0.060%		0.00072351	0.00364726	0.00682557	3.93486533	3.5413788	0.00043403	0.000279246	3.754E-05
Vh	Los Angeles	2035	Annual	T7 public	AllMYr	203	0.001%		0.00104152	0.0055955	0.01085835	4.5317546	4.07857914	0.00033628	0.000189313	4.3235E-05
Vh	Los Angeles	2035	Annual	T7 Single	AllMYr	2,665	0.011%		0.00054384	0.00276753	0.00417858	3.93161682	3.53845514	0.00034859	0.000200639	3.7509E-05
Vh	Los Angeles	2035	Annual	T7 single construction	AllMYr	2,468	0.010%		0.00054409	0.00276888	0.00418105	3.93174924	3.53857432	0.00034865	0.000200695	3.7511E-05
Vh	Los Angeles	2035	Annual	T7 SWCV	AllMYr	630	0.003%		0.00072292	0.00380485	0.0052023	4.14429398	3.72986458	0.00033348	0.00018674	3.9539E-05
Vh	Los Angeles	2035	Annual	T7 tractor	AllMYr	25,325	0.105%		0.00053726	0.00266539	0.00496884	3.84426028	3.45983425	0.00038845	0.000237312	3.6676E-05
Vh	Los Angeles	2035	Annual	T7 tractor construction	AllMYr	1,840	0.008%		0.00062118	0.00313808	0.00541385	3.92315769	3.53084192	0.00039013	0.000238855	3.7429E-05
Vh	Los Angeles	2035	Annual	T7 utility	AllMYr	64	0.000%		0.00108627	0.00588368	0.00628832	4.51734785	4.06561307	0.00032215	0.00017631	4.3098E-05
Vh	Los Angeles	2035	Annual	T7IS	AllMYr	6,873	0.028%		0.00183716	0.10575108	0.01547809	1.34423563	1.20981207	9.909E-05	3.95341E-05	1.5138E-05
Vh	Los Angeles	2035	Annual	UBUS	AllMYr	29,169	0.121%		0.00037753	0.00386066	0.00683981	4.41044413	3.96939972	0.00168924	0.000794576	4.2268E-05

EMFAC2011-LDV (2035)

EMFAC2011 LDV			g/idle-hour							
			ROG_RUNEX	CO_RUNEX	NOx_RUNEX	SOx_RUNEX	PM10_RUNEX	PM2_5_RUNEX	CO2_RUNEX	CO2_RUNEX (Pavley I + LCFS)
	LHD1-DSL	0 mph	3.612	26.300	75.051	0.039	0.795	0.793	4098	4098.000
	LHD2-DSL	0 mph	3.612	26.300	75.051	0.039	0.798	0.796	4098	4098.000
	MDV-DSL	5 mph	0.105	0.585	1.520	0.025	0.055	0.055	2520.61	2520.610

EMFAC2011-LDV (2035)

				lbs/hour							
EMFAC2011 LDV			0	ROG_RUNEX	CO_RUNEX	NOx_RUNEX	SOx_RUNEX	PM10_RUNEX	PM2_5_RUNEX	CO2_RUNEX	CO2_RUNEX (Pavley I + LCFS)
	LHD1-DSL	0 mph		0.007963015	0.057981	0.165457	8.6E-05	0.001753	0.001747	9.034451	9.034451
	LHD2-DSL	0 mph		0.007963015	0.057981	0.165457	8.6E-05	0.001759	0.001754	9.034451	9.034451
	MDV-DSL	5 mph		0.000231483	0.00129	0.003351	5.51E-05	0.000121	0.000121	5.556937	5.556937

EMFAC2011-LDV (2035)

				MTons/hr							
EMFAC2011 LDV			0	ROG_RUNEX	CO_RUNEX	NOx_RUNEX	SOx_RUNEX	PM10_RUNEX	PM2_5_RUNEX	CO2_RUNEX	CO2_RUNEX (Pavley I + LCFS)
	LHD1-DSL	0 mph		3.61196E-06	2.63E-05	7.51E-05	3.9E-08	7.95E-07	7.93E-07	0.004098	0.004098
	LHD2-DSL	0 mph		3.61196E-06	2.63E-05	7.51E-05	3.9E-08	7.98E-07	7.96E-07	0.004098	0.004098
	MDV-DSL	5 mph		1.04999E-07	5.85E-07	1.52E-06	2.5E-08	5.5E-08	5.48E-08	0.002521	0.002521

YEAR 2008

OD VMT and Vehcle Trip

CITYNAME	F_LM_T	T_LM_T	FT_LM_T	F_HT_T	T_HT_T	FT_HT_T	F_LM_V	T_LM_V	FT_LM_V	F_HT_V	T_HT_V	FT_HT_V
Industry	153,569	144,429	28,262	12,807	12,802	5,300	2,016,199	1,899,429	62,340	417,196	418,334	12,312
Trip Length							13.13	13.15	2.21	32.58	32.68	2.32

	Daily			Annual*		
	Trips	VMT	VMT**	Trips	VMT	VMT**
Total LDT	326,260	3,977,968	2,020,154	113,212,220	1,380,354,849	700,993,342
Total HDT	30,909	847,841	227,635	10,725,423	294,200,997	78,989,176
	357,169	4,825,809	2,247,788	123,937,643	1,674,555,846	779,982,518
Percent HDT	9%	18%	10%	9%	18%	10%
		27.4				

*VMT per year based on a conversion of VMT x 347 days per year to account for less travel on weekend, consistent with the California Air Resources Board's (CARB) statewide GHG emissions inventory methodology (CARB 2008).

**Interjurisdictional VMT reduced by 50 percent (trips from Industry to all other areas and trips from all other areas to Industry) in order to account for the Regional Transportation Advisory Committee (RTAC) recommendations for target setting established pursuant to Senate Bill 375. Pursuant to the RTAC recommendation, a jurisdiction is only responsible for 50 percent of the trip length for trips that start/end in one jurisdiction and end/start in other jurisdiction.

Average Vehicle Occupancy	Average for SCAG Region
1.42	

Field Description:	
F_LM_T	Light-Medium Vehicle Trip with Origin in Study Area and Destination NOT in Study Area
T_LM_T	Light-Medium Vehicle Trip with Origin NOT in Study Area and Destination in Study Area
FT_LM_T	Light-Medium Vehicle Trip with Origin in Study Area and Destination in Study Area
F_HT_T	Heavy-Duty Truck Trip with Origin in Study Area and Destination NOT in Study Area
T_HT_T	Heavy-Duty Truck Trip with Origin NOT in Study Area and Destination in Study Area
FT_HT_T	Heavy-Duty Truck Trip with Origin in Study Area and Destination in Study Area

Last updated on February 8, 2012

To improve the module runing speed and to save space, the EMFAC2011-HD module calculates idling emission rates but does not store them. This file provides idling emission rates for vehicle categories included in the EMFAC2011-HD module (for both the combined model year and by model year), and the emission rates for auxiliary power system installed on trucks.

This file also provides the methodology to calculate idling emissions rates for vehicle categories included in the EMFAC2011-LDV

Idling Emission Rates for EMFAC2011-HD Vehicle Categories

HD Idling emission rates for combined model year

Emission rates are in grams per hour for vehicle categories in EMFAC2011-HD; the annual idling emission rates are composite of winter and summer high idle; and the emission rates have been corrected for cleaner fuel and retrofit requirements, but not for the idling rule.

Idling Emission Rates by Model Year for EMFAC2011-HD Vehicle Categories

HD Idling emission rates by model year for South Coast Air Basin and Ventura County
Idling emission rates by model year for all other areas

Emission rates by model year are in grams per hour and the annual idling emission rates are composite of winter and summer high idle, and the emission rates have been corrected for cleaner fuel but not for retrofit requirements or for the idling rule.

South Coast Air Basin and Ventura County Include:

GAI	Region
58	Ventura (SCC)
59	Los Angeles (SC)
60	Orange (SC)
61	Riverside (SC)
62	San Bernardino (SC)

HD Vehicle class definition

The "Vehicle_Category" tab can be used to map EMFAC2011 and EMFAC2007 vehicle categories for vehicle categories in EMFAC2011-HD.

HD APS emission rates in grams per hour per vehicle

Emission rates in grams per hour for auxiliary power system.

Idling Emission Rates for EMFAC2011-LDV Vehicle Categories

Step 1 – Extract 5 MPH Running emission rates from Emission Rate Web Database at http://www.arb.ca.gov/jpub/webapp//EMFAC2011WebApp/rateSelectionPage_1.jsp.

Step 2 – Calculate the by model year LDV idling emission rates by multiplying the 5 MPH Running emission rates by 5 (g/mile X mile/hr = g/hr).

Step 3 – For certain areas and for certain model years, the emisson rates for 5 MPH may be zero due to lack of VMT data for that speed bin. In such cases, the 5 MPH running emission rates can be calculated using the EMFAC mode of EMFAC2011-LDV. The emissions rates by speed for combined model year are included in the summary rates (RTS) file. The idling emission rates for combined model year can be calculated by multiplying the 5 MPH Running emission rates by 5 (g/mile X mile/hr = g/hr). The emissions rates by speed by model year can be obtained by running the EMFAC mode of EMFAC2011-LDV one single model year one time by modifying model years selected in "Input 2" tab (Step 5 - Model Years).

CY	EMFAC2007 Vehicle Categ	Fuel_Type	air_basin	season	HC (g/hr-veh)	CO (g/hr-v	NOX (g/hr	PM10 (g/h	PM2.5 (g/	CO2 (g/hr	CO2 (with	TOG (g/hr	ROG (g/hr	Sox (g/hr-veh)
2008	HHDT	D	SC	a	7.786367961	45.58704	103.7556	1.332941	1.226306	6892.543	6892.543	11.22561	9.860656	0.065758
2008	MHDT	D	SC	a	3.347798395	34.4285	110.8502	1.379257	1.268917	7067.14	7067.14	4.826521	4.239652	0.067424
2008	OBUS	D	SC	a	8.833458631	47.96495	102.8621	1.858049	1.709405	6787.047	6787.047	12.7352	11.18669	0.064752
2008	SBUS	D	SC	a	5.980262931	46.09922	108.3247	2.487507	2.288507	6607.3	6607.3	8.621745	7.573405	0.063037

Title : LAidle
Version : Emfac2011-LDV V2.50.57.246
Run Date : 2013/06/07 11:01:43
Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
Season : Annual
Area : Los Angeles
****
Year: 2008 -- Model Years 1965 to 2008 Inclusive -- Annual
Emfac2011-LDV Emission Factors: V2.50.57.246

County Average Los Angeles County Average
Temperature: 70F Relative Humidity: 50%
Table 1: R grams/idle-hour)

Pollutant Name: Total Organic Gases

Speed MPH	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL
0	0	0	0	0	24.089	25.129	3.612	20.707	23.883	24.853	3.612	14.76
5	21.04	0.52	0.461	0.63	19.709	1.544	0.616	1.422	19.56	1.632	0.595	1.324

Pollutant Name: Carbon Monoxide

Speed MPH	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL
0	0	0	0	0	140.257	143.65	26.3	119.544	139.583	142.75	26.3	87.44
5	257.837	5.004	2.649	6.365	332.259	15.215	3.352	13.968	330.854	16.44	3.24	13.41

Pollutant Name: Oxides of Nitrogen

Speed MPH	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL
0	0	0	0	0	1.515	1.577	75.051	16.662	1.502	1.561	75.051	36.445
5	4.766	0.696	1.634	0.718	1.662	0.641	7.838	2.123	1.65	0.688	7.517	3.94

Pollutant Name: Carbon Dioxide

Speed MPH	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL
0	0	0	0	0	4776.9	4776.9	4098	4637.51	4776.9	4776.899	4098	4454.634
5	1705.365	1613.74	388.498	1613.573	2513.51	2513.51	527.223	2105.69	2513.51	2513.51	530.486	1572.193

Pollutant Name: Sulfur Dioxide

Speed MPH	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL
0	0	0	0	0	0.051	0.051	0.039	0.049	0.051	0.051	0.039	0.046
5	0.022	0.016	0.004	0.016	0.031	0.026	0.005	0.021	0.031	0.026	0.005	0.016

Pollutant Name: PM10

Speed MPH	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL
0	0	0	0	0	0	0	0.948	0.195	0	0	0.964	0.457
5	0.183	0.014	0.341	0.015	0.181	0.016	0.137	0.041	0.181	0.017	0.142	0.078

Title : LAidle
Version : Emfac2011-LDV V2.50.57.246
Run Date : 2013/06/07 11:01:43
Scen Year: 2035 -- All model years in the range 1991 to 2035 selected
Season : Annual
Area : Los Angeles
****
Year: 2035 -- Model Years 1991 to 2035 Inclusive -- Annual
Emfac2011-LDV Emission Factors: V2.50.57.246

County Average Los Angeles County Average

Table 1: R grams/idle-hour)

Pollutant Name: Total Organic Gases

Speed MPH	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL
0	0	0	0	0	0	22.137	3.612	18.295	0	22.216	3.612	13.602
5	0	0.151	0.021	0.15	0	0.084	0.237	0.116	0	0.066	0.219	0.137

Pollutant Name: Carbon Monoxide

Speed MPH	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL
0	0	0	0	0	0	129.234	26.3	107.886	0	129.548	26.3	81.74
5	0	1.563	0.117	1.562	0	0.826	2.648	1.204	0	0.6	2.502	1.481

Pollutant Name: Oxides of Nitrogen

Speed MPH	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL
0	0	0	0	0	0	1.426	75.051	16.696	0	1.43	75.051	35.52
5	0	0.144	0.304	0.144	0	0.099	1.466	0.383	0	0.074	1.344	0.662

Pollutant Name: Carbon Dioxide

Speed MPH	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL
0	0	0	0	0	0	4776.9	4098	4636.098	0	4776.9	4098	4462.541
5	0	1636.388	504.122	1635.144	0	2513.51	519.037	2099.864	0	2513.51	519.116	1590.023

Pollutant Name: Sulfur Dioxide

Speed MPH	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL
0	0	0	0	0	0	0.051	0.039	0.049	0	0.051	0.039	0.046
5	0	0.017	0.005	0.017	0	0.025	0.005	0.021	0	0.025	0.005	0.016

Pollutant Name: PM10

Speed MPH	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL
0	0	0	0	0	0	0	0.795	0.165	0	0	0.798	0.369
5	0	0.01	0.011	0.01	0	0.001	0.058	0.013	0	0.001	0.055	0.026

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	2063.62	1000sqft
Government (Civic Center)	390.71	1000sqft
Office Park	150.28	1000sqft
High School	720	1000sqft
Place of Worship	5.09	1000sqft
General Heavy Industry	111.81	1000sqft
General Light Industry	29208.59	1000sqft
Industrial Park	511.45	1000sqft
Unrefrigerated Warehouse-No Rail	54856.96	1000sqft
Golf Course	385.7	Acre
Hotel	292	Room
Apartments Low Rise	6	Dwelling Unit
Congregate Care (Assisted Living)	244	Dwelling Unit
Single Family Housing	60	Dwelling Unit
Strip Mall	9168.01	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Utility Company**	Southern California Edison
Climate Zone	9	**Precipitation Freq (Days)**	33		

1.3 User Entered Comments

Project Characteristics -

Land Use - Chapter 3, Project Description (see appendix for assumptions)

Construction Phase - no

Off-road Equipment - Existing

Trips and VMT - Existing

Architectural Coating - Existing

Vehicle Trips - Modeled with EMFAC2011

Woodstoves - Assume no fireplaces for a conservative analysis

Energy Use - Existing buildings built prior to 2008 Title 24

Water And Wastewater - See Utilities Section of EIR

Solid Waste - See Utilities Section of EIR

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2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	468.61	0.06	4.96	0.00		0.00	0.03		0.00	0.03	0.00	7.71	7.71	0.01	0.00	7.90
Energy	3.91	35.54	29.72	0.21		0.00	2.70		0.00	2.70	0.00	278,633.73	278,633.73	11.59	4.83	280,373.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste						0.00	0.00		0.00	0.00	46,527.15	0.00	46,527.15	2,749.68	0.00	104,270.35
Water						0.00	0.00		0.00	0.00	0.00	9,681.56	9,681.56	0.44	1.41	10,126.56
Total	**472.52**	**35.60**	**34.68**	**0.21**	**0.00**	**0.00**	**2.73**	**0.00**	**0.00**	**2.73**	**46,527.15**	**288,323.00**	**334,850.15**	**2,761.72**	**6.24**	**394,777.81**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	468.61	0.06	4.96	0.00		0.00	0.03		0.00	0.03	0.00	7.71	7.71	0.01	0.00	7.90
Energy	3.91	35.54	29.72	0.21		0.00	2.70		0.00	2.70	0.00	278,633.73	278,633.73	11.59	4.83	280,373.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste						0.00	0.00		0.00	0.00	46,527.15	0.00	46,527.15	2,749.68	0.00	104,270.35
Water						0.00	0.00		0.00	0.00	0.00	9,681.56	9,681.56	0.44	1.41	10,126.56
Total	**472.52**	**35.60**	**34.68**	**0.21**	**0.00**	**0.00**	**2.73**	**0.00**	**0.00**	**2.73**	**46,527.15**	**288,323.00**	**334,850.15**	**2,761.72**	**6.24**	**394,777.81**

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5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.00	0.00		0.00	0.00	0.00	239,926.84	239,926.84	10.85	4.12	241,430.55
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	239,926.84	239,926.84	10.85	4.12	241,430.55
NaturalGas Mitigated	3.91	35.54	29.72	0.21		0.00	2.70		0.00	2.70	0.00	38,706.88	38,706.88	0.74	0.71	38,942.45
NaturalGas Unmitigated	3.91	35.54	29.72	0.21		0.00	2.70		0.00	2.70	0.00	38,706.88	38,706.88	0.74	0.71	38,942.45
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	tons/yr										MT/yr					
Apartments Low Rise	122623	0.00	0.01	0.00	0.00		0.00	0.00		0.00	0.00	0.00	6.54	6.54	0.00	0.00	6.58
Congregate Care (Assisted Living)	3.83747e+006	0.02	0.18	0.08	0.00		0.00	0.01		0.00	0.01	0.00	204.78	204.78	0.00	0.00	206.03
General Heavy Industry	2.21388e+006	0.01	0.11	0.09	0.00		0.00	0.01		0.00	0.01	0.00	118.14	118.14	0.00	0.00	118.86
General Light Industry	5.7833e+008	3.12	28.35	23.81	0.17		0.00	2.15		0.00	2.15	0.00	30,861.89	30,861.89	0.59	0.57	31,049.71
General Office Building	2.56714e+007	0.14	1.26	1.06	0.01		0.00	0.10		0.00	0.10	0.00	1,369.93	1,369.93	0.03	0.03	1,378.26
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Government (Civic Center)	4.86048e+006	0.03	0.24	0.20	0.00		0.00	0.02		0.00	0.02	0.00	259.37	259.37	0.00	0.00	260.95
High School	8.4888e+006	0.05	0.42	0.35	0.00		0.00	0.03		0.00	0.03	0.00	452.99	452.99	0.01	0.01	455.75
Hotel	1.70936e+007	0.09	0.84	0.70	0.01		0.00	0.06		0.00	0.06	0.00	912.18	912.18	0.02	0.02	917.73
Industrial Park	6.36244e+006	0.03	0.31	0.26	0.00		0.00	0.02		0.00	0.02	0.00	339.52	339.52	0.01	0.01	341.59
Office Park	1.80038e+006	0.01	0.09	0.07	0.00		0.00	0.01		0.00	0.01	0.00	96.08	96.08	0.00	0.00	96.66
Place of Worship	100822	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	5.38	5.38	0.00	0.00	5.41
Single Family Housing	2.72056e+006	0.01	0.13	0.05	0.00		0.00	0.01		0.00	0.01	0.00	145.18	145.18	0.00	0.00	146.06
Strip Mall	1.66858e+007	0.09	0.82	0.69	0.00		0.00	0.06		0.00	0.06	0.00	890.42	890.42	0.02	0.02	895.84
Unrefrigerated Warehouse-No Rail	5.70512e+007	0.31	2.80	2.35	0.02		0.00	0.21		0.00	0.21	0.00	3,044.47	3,044.47	0.06	0.06	3,063.00
Total		**3.91**	**35.56**	**29.71**	**0.21**		**0.00**	**2.69**		**0.00**	**2.69**	**0.00**	**38,706.87**	**38,706.87**	**0.74**	**0.72**	**38,942.43**

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Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	tons/yr										MT/yr					
Apartments Low Rise	122623	0.00	0.01	0.00	0.00		0.00	0.00		0.00	0.00	0.00	6.54	6.54	0.00	0.00	6.58
Congregate Care (Assisted Living)	3.83747e+006	0.02	0.18	0.08	0.00		0.00	0.01		0.00	0.01	0.00	204.78	204.78	0.00	0.00	206.03
General Heavy Industry	2.21388e+006	0.01	0.11	0.09	0.00		0.00	0.01		0.00	0.01	0.00	118.14	118.14	0.00	0.00	118.86
General Light Industry	5.7833e+008	3.12	28.35	23.81	0.17		0.00	2.15		0.00	2.15	0.00	30,861.89	30,861.89	0.59	0.57	31,049.71
General Office Building	2.56714e+007	0.14	1.26	1.06	0.01		0.00	0.10		0.00	0.10	0.00	1,369.93	1,369.93	0.03	0.03	1,378.26
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Government (Civic Center)	4.86048e+006	0.03	0.24	0.20	0.00		0.00	0.02		0.00	0.02	0.00	259.37	259.37	0.00	0.00	260.95
High School	8.4888e+006	0.05	0.42	0.35	0.00		0.00	0.03		0.00	0.03	0.00	452.99	452.99	0.01	0.01	455.75
Hotel	1.70936e+007	0.09	0.84	0.70	0.01		0.00	0.06		0.00	0.06	0.00	912.18	912.18	0.02	0.02	917.73
Industrial Park	6.36244e+006	0.03	0.31	0.26	0.00		0.00	0.02		0.00	0.02	0.00	339.52	339.52	0.01	0.01	341.59
Office Park	1.80038e+006	0.01	0.09	0.07	0.00		0.00	0.01		0.00	0.01	0.00	96.08	96.08	0.00	0.00	96.66
Place of Worship	100822	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	5.38	5.38	0.00	0.00	5.41
Single Family Housing	2.72056e+006	0.01	0.13	0.05	0.00		0.00	0.01		0.00	0.01	0.00	145.18	145.18	0.00	0.00	146.06
Strip Mall	1.66858e+007	0.09	0.82	0.69	0.00		0.00	0.06		0.00	0.06	0.00	890.42	890.42	0.02	0.02	895.84
Unrefrigerated Warehouse-No Rail	5.70512e+007	0.31	2.80	2.35	0.02		0.00	0.21		0.00	0.21	0.00	3,044.47	3,044.47	0.06	0.06	3,063.00
Total		**3.91**	**35.56**	**29.71**	**0.21**		**0.00**	**2.69**		**0.00**	**2.69**	**0.00**	**38,706.87**	**38,706.87**	**0.74**	**0.72**	**38,942.43**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Low Rise	21781					6.34	0.00	0.00	6.38
Congregate Care (Assisted Living)	865009					251.61	0.01	0.00	253.18
General Heavy Industry	1.40212e+006					407.84	0.02	0.01	410.39
General Light Industry	3.66276e+008					########	4.82	1.83	107,206.57
General Office Building	3.14496e+007					9,147.76	0.41	0.16	9,205.09
Golf Course	0					0.00	0.00	0.00	0.00
Government (Civic Center)	5.95448e+006					1,731.98	0.08	0.03	1,742.84
High School	5.0976e+006					1,482.74	0.07	0.03	1,492.04
Hotel	5.99104e+006					1,742.62	0.08	0.03	1,753.54
Industrial Park	7.7945e+006					2,267.19	0.10	0.04	2,281.40
Office Park	2.5022e+006					727.82	0.03	0.01	732.38
Place of Worship	63853.7					18.57	0.00	0.00	18.69
Single Family Housing	421865					122.71	0.01	0.00	123.48
Strip Mall	1.46322e+008					42,560.63	1.92	0.73	42,827.38
Unrefrigerated Warehouse-No Rail	2.50696e+008					72,920.19	3.30	1.25	73,377.21
Total						**239,926.85**	**10.85**	**4.12**	**241,430.57**

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Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Low Rise	21781					6.34	0.00	0.00	6.38
Congregate Care (Assisted Living)	865009					251.61	0.01	0.00	253.18
General Heavy Industry	1.40212e+006					407.84	0.02	0.01	410.39
General Light Industry	3.66276e+008					########	4.82	1.83	107,206.57
General Office Building	3.14496e+007					9,147.76	0.41	0.16	9,205.09
Golf Course	0					0.00	0.00	0.00	0.00
Government (Civic Center)	5.95448e+006					1,731.98	0.08	0.03	1,742.84
High School	5.0976e+006					1,482.74	0.07	0.03	1,492.04
Hotel	5.99104e+006					1,742.62	0.08	0.03	1,753.54
Industrial Park	7.7945e+006					2,267.19	0.10	0.04	2,281.40
Office Park	2.5022e+006					727.82	0.03	0.01	732.38
Place of Worship	63853.7					18.57	0.00	0.00	18.69
Single Family Housing	421865					122.71	0.01	0.00	123.48
Strip Mall	1.46322e+008					42,560.63	1.92	0.73	42,827.38
Unrefrigerated Warehouse-No Rail	2.50696e+008					72,920.19	3.30	1.25	73,377.21
Total						**239,926.85**	**10.85**	**4.12**	**241,430.57**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	468.61	0.06	4.96	0.00		0.00	0.03		0.00	0.03	0.00	7.71	7.71	0.01	0.00	7.90
Unmitigated	468.61	0.06	4.96	0.00		0.00	0.03		0.00	0.03	0.00	7.71	7.71	0.01	0.00	7.90
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	113.62					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	354.82					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.17	0.06	4.96	0.00		0.00	0.03		0.00	0.03	0.00	7.71	7.71	0.01	0.00	7.90
Total	**468.61**	**0.06**	**4.96**	**0.00**		**0.00**	**0.03**		**0.00**	**0.03**	**0.00**	**7.71**	**7.71**	**0.01**	**0.00**	**7.90**

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Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	113.62					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	354.82					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.17	0.06	4.96	0.00		0.00	0.03		0.00	0.03	0.00	7.71	7.71	0.01	0.00	7.90
Total	**468.61**	**0.06**	**4.96**	**0.00**		**0.00**	**0.03**		**0.00**	**0.03**	**0.00**	**7.71**	**7.71**	**0.01**	**0.00**	**7.90**

7.0 Water Detail

7.1 Mitigation Measures Water

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					9,681.56	0.44	1.41	10,126.56
Unmitigated					9,681.56	0.44	1.41	10,126.56
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Low Rise	0.434168 / 0.277583					2.54	0.00	0.00	2.66
Congregate Care (Assisted Living)	6.61271 / 4.2278					38.71	0.00	0.01	40.50
General Heavy Industry	5.75441 / 0					21.79	0.00	0.00	23.28
General Light Industry	330.495 / 0					1,251.73	0.06	0.27	1,337.13
General Office Building	116.749 / 71.5561					673.42	0.03	0.10	705.04
Golf Course	0 / 633.512					2,047.24	0.09	0.04	2,060.07
Government (Civic Center)	64.0203 / 39.2382					369.27	0.02	0.05	386.61
High School	27.502 / 70.7195					332.70	0.02	0.03	341.24
Hotel	54.3062 / 6.03402					225.18	0.01	0.04	239.34
Industrial Park	5.78706 / 0					21.92	0.00	0.00	23.41
Office Park	8.5022 / 5.21103					49.04	0.00	0.01	51.34
Place of Worship	2.47689 / 3.87411					21.90	0.00	0.00	22.62
Single Family Housing	4.34168 / 2.77583					25.41	0.00	0.00	26.59
Strip Mall	390.048 / 239.061					2,249.82	0.10	0.33	2,355.45
Unrefrigerated Warehouse-No Rail	620.706 / 0					2,350.88	0.11	0.51	2,511.28
Total						**9,681.55**	**0.44**	**1.39**	**10,126.56**

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Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Low Rise	0.434168 / 0.277583					2.54	0.00	0.00	2.66
Congregate Care (Assisted Living)	6.61271 / 4.2278					38.71	0.00	0.01	40.50
General Heavy Industry	5.75441 / 0					21.79	0.00	0.00	23.28
General Light Industry	330.495 / 0					1,251.73	0.06	0.27	1,337.13
General Office Building	116.749 / 71.5561					673.42	0.03	0.10	705.04
Golf Course	0 / 633.512					2,047.24	0.09	0.04	2,060.07
Government (Civic Center)	64.0203 / 39.2382					369.27	0.02	0.05	386.61
High School	27.502 / 70.7195					332.70	0.02	0.03	341.24
Hotel	54.3062 / 6.03402					225.18	0.01	0.04	239.34
Industrial Park	5.78706 / 0					21.92	0.00	0.00	23.41
Office Park	8.5022 / 5.21103					49.04	0.00	0.01	51.34
Place of Worship	2.47689 / 3.87411					21.90	0.00	0.00	22.62
Single Family Housing	4.34168 / 2.77583					25.41	0.00	0.00	26.59
Strip Mall	390.048 / 239.061					2,249.82	0.10	0.33	2,355.45
Unrefrigerated Warehouse-No Rail	620.706 / 0					2,350.88	0.11	0.51	2,511.28
Total						**9,681.55**	**0.44**	**1.39**	**10,126.56**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					46,527.15	2,749.68	0.00	104,270.35
Unmitigated					46,527.15	2,749.68	0.00	104,270.35
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

IndustryGP_Existing

Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Low Rise	11					2.23	0.13	0.00	5.00
Congregate Care (Assisted Living)	121					24.56	1.45	0.00	55.04
General Heavy Industry	269					54.60	3.23	0.00	122.37
General Light Industry	70363					14,283.05	844.10	0.00	32,009.24
General Office Building	2260					458.76	27.11	0.00	1,028.11
Golf Course	349					70.84	4.19	0.00	158.77
Government (Civic Center)	385					78.15	4.62	0.00	175.14
High School	920					186.75	11.04	0.00	418.52
Hotel	724					146.97	8.69	0.00	329.36
Industrial Park	1325					268.96	15.90	0.00	602.76
Office Park	165					33.49	1.98	0.00	75.06
Place of Worship	7					1.42	0.08	0.00	3.18
Single Family Housing	108					21.92	1.30	0.00	49.13
Strip Mall	10039					2,037.83	120.43	0.00	4,566.90
Unrefrigerated Warehouse-No Rail	142162					28,857.60	1,705.44	0.00	64,671.74
Total						**46,527.13**	**2,749.69**	**0.00**	**104,270.32**

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Low Rise	11					2.23	0.13	0.00	5.00
Congregate Care (Assisted Living)	121					24.56	1.45	0.00	55.04
General Heavy Industry	269					54.60	3.23	0.00	122.37
General Light Industry	70363					14,283.05	844.10	0.00	32,009.24
General Office Building	2260					458.76	27.11	0.00	1,028.11
Golf Course	349					70.84	4.19	0.00	158.77
Government (Civic Center)	385					78.15	4.62	0.00	175.14
High School	920					186.75	11.04	0.00	418.52
Hotel	724					146.97	8.69	0.00	329.36
Industrial Park	1325					268.96	15.90	0.00	602.76
Office Park	165					33.49	1.98	0.00	75.06
Place of Worship	7					1.42	0.08	0.00	3.18
Single Family Housing	108					21.92	1.30	0.00	49.13
Strip Mall	10039					2,037.83	120.43	0.00	4,566.90
Unrefrigerated Warehouse-No Rail	142162					28,857.60	1,705.44	0.00	64,671.74
Total						**46,527.13**	**2,749.69**	**0.00**	**104,270.32**

9.0 Vegetation

IndustryGP_Existing

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	2063.62	1000sqft
Government (Civic Center)	390.71	1000sqft
Office Park	150.28	1000sqft
High School	720	1000sqft
Place of Worship	5.09	1000sqft
General Heavy Industry	111.81	1000sqft
General Light Industry	29208.59	1000sqft
Industrial Park	511.45	1000sqft
Unrefrigerated Warehouse-No Rail	54856.96	1000sqft
Golf Course	385.7	Acre
Hotel	292	Room
Apartments Low Rise	6	Dwelling Unit
Congregate Care (Assisted Living)	244	Dwelling Unit
Single Family Housing	60	Dwelling Unit
Strip Mall	9168.01	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	9		2.2		
		Precipitation Freq (Days)			
			33		

1.3 User Entered Comments

Project Characteristics -

Land Use - Chapter 3, Project Description (see appendix for assumptions)

Construction Phase - no

Off-road Equipment - Existing

Trips and VMT - Existing

Architectural Coating - Existing

Vehicle Trips - Modeled with EMFAC2011

Woodstoves - Assume no fireplaces for a conservative analysis

Energy Use - Existing buildings built prior to 2008 Title 24

Water And Wastewater - See Utilities Section of EIR

Solid Waste - See Utilities Section of EIR

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,567.72	0.33	27.22	0.00		0.00	0.14		0.00	0.14	0.00	46.61		0.05	0.00	47.76
Energy	21.43	194.72	162.86	1.17		0.00	14.81		0.00	14.81		233,791.98		4.48	4.29	235,214.80
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Total	**2,589.15**	**195.05**	**190.08**	**1.17**	**0.00**	**0.00**	**14.95**	**0.00**	**0.00**	**14.95**	**0.00**	**233,838.59**		**4.53**	**4.29**	**235,262.56**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,567.72	0.33	27.22	0.00		0.00	0.14		0.00	0.14	0.00	46.61		0.05	0.00	47.76
Energy	21.43	194.72	162.86	1.17		0.00	14.81		0.00	14.81		233,791.98		4.48	4.29	235,214.80
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Total	**2,589.15**	**195.05**	**190.08**	**1.17**	**0.00**	**0.00**	**14.95**	**0.00**	**0.00**	**14.95**	**0.00**	**233,838.59**		**4.53**	**4.29**	**235,262.56**

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	21.43	194.72	162.86	1.17		0.00	14.81		0.00	14.81		233,791.98		4.48	4.29	235,214.80
NaturalGas Unmitigated	21.43	194.72	162.86	1.17		0.00	14.81		0.00	14.81		233,791.98		4.48	4.29	235,214.80
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

IndustryGP_Existing

Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	335.953	0.00	0.03	0.01	0.00		0.00	0.00		0.00	0.00		39.52		0.00	0.00	39.76
Congregate Care (Assisted Living)	10513.6	0.11	0.97	0.41	0.01		0.00	0.08		0.00	0.08		1,236.90		0.02	0.02	1,244.42
General Heavy Industry	6065.42	0.07	0.59	0.50	0.00		0.00	0.05		0.00	0.05		713.58		0.01	0.01	717.92
General Light Industry	1.58447e+006	17.09	155.34	130.49	0.93		0.00	11.81		0.00	11.81		186,407.76		3.57	3.42	187,542.20
General Office Building	70332.7	0.76	6.90	5.79	0.04		0.00	0.52		0.00	0.52		8,274.44		0.16	0.15	8,324.80
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Government (Civic Center)	13316.4	0.14	1.31	1.10	0.01		0.00	0.10		0.00	0.10		1,566.63		0.03	0.03	1,576.17
High School	23257	0.25	2.28	1.92	0.01		0.00	0.17		0.00	0.17		2,736.12		0.05	0.05	2,752.77
Hotel	46831.9	0.51	4.59	3.86	0.03		0.00	0.35		0.00	0.35		5,509.64		0.11	0.10	5,543.17
Industrial Park	17431.3	0.19	1.71	1.44	0.01		0.00	0.13		0.00	0.13		2,050.75		0.04	0.04	2,063.23
Office Park	4932.54	0.05	0.48	0.41	0.00		0.00	0.04		0.00	0.04		580.30		0.01	0.01	583.83
Place of Worship	276.224	0.00	0.03	0.02	0.00		0.00	0.00		0.00	0.00		32.50		0.00	0.00	32.69
Single Family Housing	7453.58	0.08	0.69	0.29	0.00		0.00	0.06		0.00	0.06		876.89		0.02	0.02	882.23
Strip Mall	45714.5	0.49	4.48	3.76	0.03		0.00	0.34		0.00	0.34		5,378.17		0.10	0.10	5,410.91
Unrefrigerated Warehouse-No Rail	156305	1.69	15.32	12.87	0.09		0.00	1.16		0.00	1.16		18,388.79		0.35	0.34	18,500.71
Total		**21.43**	**194.72**	**162.87**	**1.16**		**0.00**	**14.81**		**0.00**	**14.81**		**233,791.99**		**4.47**	**4.29**	**235,214.81**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	0.335953	0.00	0.03	0.01	0.00		0.00	0.00		0.00	0.00		39.52		0.00	0.00	39.76
Congregate Care (Assisted Living)	10.5136	0.11	0.97	0.41	0.01		0.00	0.08		0.00	0.08		1,236.90		0.02	0.02	1,244.42
General Heavy Industry	6.06542	0.07	0.59	0.50	0.00		0.00	0.05		0.00	0.05		713.58		0.01	0.01	717.92
General Light Industry	1584.47	17.09	155.34	130.49	0.93		0.00	11.81		0.00	11.81		186,407.76		3.57	3.42	187,542.20
General Office Building	70.3327	0.76	6.90	5.79	0.04		0.00	0.52		0.00	0.52		8,274.44		0.16	0.15	8,324.80
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Government (Civic Center)	13.3164	0.14	1.31	1.10	0.01		0.00	0.10		0.00	0.10		1,566.63		0.03	0.03	1,576.17
High School	23.257	0.25	2.28	1.92	0.01		0.00	0.17		0.00	0.17		2,736.12		0.05	0.05	2,752.77
Hotel	46.8319	0.51	4.59	3.86	0.03		0.00	0.35		0.00	0.35		5,509.64		0.11	0.10	5,543.17
Industrial Park	17.4313	0.19	1.71	1.44	0.01		0.00	0.13		0.00	0.13		2,050.75		0.04	0.04	2,063.23
Office Park	4.93254	0.05	0.48	0.41	0.00		0.00	0.04		0.00	0.04		580.30		0.01	0.01	583.83
Place of Worship	0.276224	0.00	0.03	0.02	0.00		0.00	0.00		0.00	0.00		32.50		0.00	0.00	32.69
Single Family Housing	7.45358	0.08	0.69	0.29	0.00		0.00	0.06		0.00	0.06		876.89		0.02	0.02	882.23
Strip Mall	45.7145	0.49	4.48	3.76	0.03		0.00	0.34		0.00	0.34		5,378.17		0.10	0.10	5,410.91
Unrefrigerated Warehouse-No Rail	156.305	1.69	15.32	12.87	0.09		0.00	1.16		0.00	1.16		18,388.79		0.35	0.34	18,500.71
Total		**21.43**	**194.72**	**162.87**	**1.16**		**0.00**	**14.81**		**0.00**	**14.81**		**233,791.99**		**4.47**	**4.29**	**235,214.81**

IndustryGP_Existing

Los Angeles-South Coast County, Summer

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2,567.72	0.33	27.22	0.00		0.00	0.14		0.00	0.14	0.00	46.61		0.05	0.00	47.76
Unmitigated	2,567.72	0.33	27.22	0.00		0.00	0.14		0.00	0.14	0.00	46.61		0.05	0.00	47.76
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	622.57					0.00	0.00		0.00	0.00						0.00
Consumer Products	1,944.20					0.00	0.00		0.00	0.00						0.00
Hearth	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00
Landscaping	0.95	0.33	27.22	0.00		0.00	0.14		0.00	0.14		46.61		0.05		47.76
Total	**2,567.72**	**0.33**	**27.22**	**0.00**		**0.00**	**0.14**		**0.00**	**0.14**	**0.00**	**46.61**		**0.05**	**0.00**	**47.76**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	622.57					0.00	0.00		0.00	0.00						0.00
Consumer Products	1,944.20					0.00	0.00		0.00	0.00						0.00
Hearth	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00
Landscaping	0.95	0.33	27.22	0.00		0.00	0.14		0.00	0.14		46.61		0.05		47.76
Total	**2,567.72**	**0.33**	**27.22**	**0.00**		**0.00**	**0.14**		**0.00**	**0.14**	**0.00**	**46.61**		**0.05**	**0.00**	**47.76**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

IndustryGP_Existing

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	2063.62	1000sqft
Government (Civic Center)	390.71	1000sqft
Office Park	150.28	1000sqft
High School	720	1000sqft
Place of Worship	5.09	1000sqft
General Heavy Industry	111.81	1000sqft
General Light Industry	29208.59	1000sqft
Industrial Park	511.45	1000sqft
Unrefrigerated Warehouse-No Rail	54856.96	1000sqft
Golf Course	385.7	Acre
Hotel	292	Room
Apartments Low Rise	6	Dwelling Unit
Congregate Care (Assisted Living)	244	Dwelling Unit
Single Family Housing	60	Dwelling Unit
Strip Mall	9168.01	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	9		2.2		
		Precipitation Freq (Days)			
			33		

1.3 User Entered Comments

Project Characteristics -

Land Use - Chapter 3, Project Description (see appendix for assumptions)

Construction Phase - no

Off-road Equipment - Existing

Trips and VMT - Existing

Architectural Coating - Existing

Vehicle Trips - Modeled with EMFAC2011

Woodstoves - Assume no fireplaces for a conservative analysis

Energy Use - Existing buildings built prior to 2008 Title 24

Water And Wastewater - See Utilities Section of EIR

Solid Waste - See Utilities Section of EIR

IndustryGP_Existing

Los Angeles-South Coast County, Winter

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,567.72	0.33	27.22	0.00		0.00	0.14		0.00	0.14	0.00	46.61		0.05	0.00	47.76
Energy	21.43	194.72	162.86	1.17		0.00	14.81		0.00	14.81		233,791.98		4.48	4.29	235,214.80
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Total	**2,589.15**	**195.05**	**190.08**	**1.17**	**0.00**	**0.00**	**14.95**	**0.00**	**0.00**	**14.95**	**0.00**	**233,838.59**		**4.53**	**4.29**	**235,262.56**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,567.72	0.33	27.22	0.00		0.00	0.14		0.00	0.14	0.00	46.61		0.05	0.00	47.76
Energy	21.43	194.72	162.86	1.17		0.00	14.81		0.00	14.81		233,791.98		4.48	4.29	235,214.80
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Total	**2,589.15**	**195.05**	**190.08**	**1.17**	**0.00**	**0.00**	**14.95**	**0.00**	**0.00**	**14.95**	**0.00**	**233,838.59**		**4.53**	**4.29**	**235,262.56**

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	21.43	194.72	162.86	1.17		0.00	14.81		0.00	14.81		233,791.98		4.48	4.29	235,214.80
NaturalGas Unmitigated	21.43	194.72	162.86	1.17		0.00	14.81		0.00	14.81		233,791.98		4.48	4.29	235,214.80
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

IndustryGP_Existing

Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	335.953	0.00	0.03	0.01	0.00		0.00	0.00		0.00	0.00		39.52		0.00	0.00	39.76
Congregate Care (Assisted Living)	10513.6	0.11	0.97	0.41	0.01		0.00	0.08		0.00	0.08		1,236.90		0.02	0.02	1,244.42
General Heavy Industry	6065.42	0.07	0.59	0.50	0.00		0.00	0.05		0.00	0.05		713.58		0.01	0.01	717.92
General Light Industry	1.58447e+006	17.09	155.34	130.49	0.93		0.00	11.81		0.00	11.81		186,407.76		3.57	3.42	187,542.20
General Office Building	70332.7	0.76	6.90	5.79	0.04		0.00	0.52		0.00	0.52		8,274.44		0.16	0.15	8,324.80
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Government (Civic Center)	13316.4	0.14	1.31	1.10	0.01		0.00	0.10		0.00	0.10		1,566.63		0.03	0.03	1,576.17
High School	23257	0.25	2.28	1.92	0.01		0.00	0.17		0.00	0.17		2,736.12		0.05	0.05	2,752.77
Hotel	46831.9	0.51	4.59	3.86	0.03		0.00	0.35		0.00	0.35		5,509.64		0.11	0.10	5,543.17
Industrial Park	17431.3	0.19	1.71	1.44	0.01		0.00	0.13		0.00	0.13		2,050.75		0.04	0.04	2,063.23
Office Park	4932.54	0.05	0.48	0.41	0.00		0.00	0.04		0.00	0.04		580.30		0.01	0.01	583.83
Place of Worship	276.224	0.00	0.03	0.02	0.00		0.00	0.00		0.00	0.00		32.50		0.00	0.00	32.69
Single Family Housing	7453.58	0.08	0.69	0.29	0.00		0.00	0.06		0.00	0.06		876.89		0.02	0.02	882.23
Strip Mall	45714.5	0.49	4.48	3.76	0.03		0.00	0.34		0.00	0.34		5,378.17		0.10	0.10	5,410.91
Unrefrigerated Warehouse-No Rail	156305	1.69	15.32	12.87	0.09		0.00	1.16		0.00	1.16		18,388.79		0.35	0.34	18,500.71
Total		**21.43**	**194.72**	**162.87**	**1.16**		**0.00**	**14.81**		**0.00**	**14.81**		**233,791.99**		**4.47**	**4.29**	**235,214.81**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	0.335953	0.00	0.03	0.01	0.00		0.00	0.00		0.00	0.00		39.52		0.00	0.00	39.76
Congregate Care (Assisted Living)	10.5136	0.11	0.97	0.41	0.01		0.00	0.08		0.00	0.08		1,236.90		0.02	0.02	1,244.42
General Heavy Industry	6.06542	0.07	0.59	0.50	0.00		0.00	0.05		0.00	0.05		713.58		0.01	0.01	717.92
General Light Industry	1584.47	17.09	155.34	130.49	0.93		0.00	11.81		0.00	11.81		186,407.76		3.57	3.42	187,542.20
General Office Building	70.3327	0.76	6.90	5.79	0.04		0.00	0.52		0.00	0.52		8,274.44		0.16	0.15	8,324.80
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Government (Civic Center)	13.3164	0.14	1.31	1.10	0.01		0.00	0.10		0.00	0.10		1,566.63		0.03	0.03	1,576.17
High School	23.257	0.25	2.28	1.92	0.01		0.00	0.17		0.00	0.17		2,736.12		0.05	0.05	2,752.77
Hotel	46.8319	0.51	4.59	3.86	0.03		0.00	0.35		0.00	0.35		5,509.64		0.11	0.10	5,543.17
Industrial Park	17.4313	0.19	1.71	1.44	0.01		0.00	0.13		0.00	0.13		2,050.75		0.04	0.04	2,063.23
Office Park	4.93254	0.05	0.48	0.41	0.00		0.00	0.04		0.00	0.04		580.30		0.01	0.01	583.83
Place of Worship	0.276224	0.00	0.03	0.02	0.00		0.00	0.00		0.00	0.00		32.50		0.00	0.00	32.69
Single Family Housing	7.45358	0.08	0.69	0.29	0.00		0.00	0.06		0.00	0.06		876.89		0.02	0.02	882.23
Strip Mall	45.7145	0.49	4.48	3.76	0.03		0.00	0.34		0.00	0.34		5,378.17		0.10	0.10	5,410.91
Unrefrigerated Warehouse-No Rail	156.305	1.69	15.32	12.87	0.09		0.00	1.16		0.00	1.16		18,388.79		0.35	0.34	18,500.71
Total		**21.43**	**194.72**	**162.87**	**1.16**		**0.00**	**14.81**		**0.00**	**14.81**		**233,791.99**		**4.47**	**4.29**	**235,214.81**

IndustryGP_Existing

Los Angeles-South Coast County, Winter

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2,567.72	0.33	27.22	0.00		0.00	0.14		0.00	0.14	0.00	46.61		0.05	0.00	47.76
Unmitigated	2,567.72	0.33	27.22	0.00		0.00	0.14		0.00	0.14	0.00	46.61		0.05	0.00	47.76
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	622.57					0.00	0.00		0.00	0.00						0.00
Consumer Products	1,944.20					0.00	0.00		0.00	0.00						0.00
Hearth	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00
Landscaping	0.95	0.33	27.22	0.00		0.00	0.14		0.00	0.14		46.61		0.05		47.76
Total	**2,567.72**	**0.33**	**27.22**	**0.00**		**0.00**	**0.14**		**0.00**	**0.14**	**0.00**	**46.61**		**0.05**	**0.00**	**47.76**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	622.57					0.00	0.00		0.00	0.00						0.00
Consumer Products	1,944.20					0.00	0.00		0.00	0.00						0.00
Hearth	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00
Landscaping	0.95	0.33	27.22	0.00		0.00	0.14		0.00	0.14		46.61		0.05		47.76
Total	**2,567.72**	**0.33**	**27.22**	**0.00**		**0.00**	**0.14**		**0.00**	**0.14**	**0.00**	**46.61**		**0.05**	**0.00**	**47.76**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

PreferredLandUsePlan

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	2320.45	1000sqft
Government (Civic Center)	390.71	1000sqft
Office Park	1252	1000sqft
High School	720	1000sqft
Place of Worship	5.09	1000sqft
General Heavy Industry	13527.98	1000sqft
General Light Industry	22005.09	1000sqft
Industrial Park	342.3	1000sqft
Unrefrigerated Warehouse-No Rail	58680.24	1000sqft
Golf Course	630.7	Acre
Hotel	292	Room
Apartments Low Rise	6	Dwelling Unit
Congregate Care (Assisted Living)	244	Dwelling Unit
Single Family Housing	52	Dwelling Unit
Free-Standing Discount Superstore	5027.71	1000sqft
Strip Mall	6769.23	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	9		2.2		
		Precipitation Freq (Days)			
			33		

1.3 User Entered Comments

Project Characteristics -

Land Use - See Project Description. Population based on 3.78 persons/household

Construction Phase - No construction phase for inventory purposes

Off-road Equipment - no construction equipment assumed

Trips and VMT - no trips

Architectural Coating - no paint

Vehicle Trips - EMFAC2011 used for VMT

Woodstoves - no fireplaces assumed in existing housing, no new housing built.

Energy Use -

Water And Wastewater - See Utilities

Solid Waste - see Utilities for rates

PreferredLandUsePlan

Los Angeles-South Coast County, Annual

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	533.88	0.06	4.84	0.00		0.00	0.02		0.00	0.02	0.00	7.51	7.51	0.01	0.00	7.70
Energy	4.39	39.93	33.43	0.24		0.00	3.04		0.00	3.04	0.00	316,263.12	316,263.12	13.17	5.48	318,237.36
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste						0.00	0.00		0.00	0.00	52,380.40	0.00	52,380.40	3,095.59	0.00	117,387.85
Water						0.00	0.00		0.00	0.00	0.00	11,353.32	11,353.32	0.51	1.87	11,944.85
Total	**538.27**	**39.99**	**38.27**	**0.24**	**0.00**	**0.00**	**3.06**	**0.00**	**0.00**	**3.06**	**52,380.40**	**327,623.95**	**380,004.35**	**3,109.28**	**7.35**	**447,577.76**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	533.88	0.06	4.84	0.00		0.00	0.02		0.00	0.02	0.00	7.51	7.51	0.01	0.00	7.70
Energy	4.39	39.93	33.43	0.24		0.00	3.04		0.00	3.04	0.00	316,263.12	316,263.12	13.17	5.48	318,237.36
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste						0.00	0.00		0.00	0.00	52,380.40	0.00	52,380.40	3,095.59	0.00	117,387.85
Water						0.00	0.00		0.00	0.00	0.00	11,353.32	11,353.32	0.51	1.87	11,944.85
Total	**538.27**	**39.99**	**38.27**	**0.24**	**0.00**	**0.00**	**3.06**	**0.00**	**0.00**	**3.06**	**52,380.40**	**327,623.95**	**380,004.35**	**3,109.28**	**7.35**	**447,577.76**

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.00	0.00		0.00	0.00	0.00	272,775.30	272,775.30	12.34	4.68	274,484.88
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	272,775.30	272,775.30	12.34	4.68	274,484.88
NaturalGas Mitigated	4.39	39.93	33.43	0.24		0.00	3.04		0.00	3.04	0.00	43,487.82	43,487.82	0.83	0.80	43,752.48
NaturalGas Unmitigated	4.39	39.93	33.43	0.24		0.00	3.04		0.00	3.04	0.00	43,487.82	43,487.82	0.83	0.80	43,752.48
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	tons/yr										MT/yr					
Apartments Low Rise	115197	0.00	0.01	0.00	0.00		0.00	0.00		0.00	0.00	0.00	6.15	6.15	0.00	0.00	6.18
Congregate Care (Assisted Living)	3.60256e+006	0.02	0.17	0.07	0.00		0.00	0.01		0.00	0.01	0.00	192.25	192.25	0.00	0.00	193.42
Free-Standing Discount Superstore	8.54711e+006	0.05	0.42	0.35	0.00		0.00	0.03		0.00	0.03	0.00	456.11	456.11	0.01	0.01	458.88
General Heavy Industry	2.54461e+008	1.37	12.47	10.48	0.07		0.00	0.95		0.00	0.95	0.00	13,579.03	13,579.03	0.26	0.25	13,661.67
General Light Industry	4.13916e+008	2.23	20.29	17.04	0.12		0.00	1.54		0.00	1.54	0.00	22,088.12	22,088.12	0.42	0.40	22,222.54
General Office Building	2.53625e+007	0.14	1.24	1.04	0.01		0.00	0.09		0.00	0.09	0.00	1,353.44	1,353.44	0.03	0.02	1,361.68
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Government (Civic Center)	4.2705e+006	0.02	0.21	0.18	0.00		0.00	0.02		0.00	0.02	0.00	227.89	227.89	0.00	0.00	229.28
High School	7.8408e+006	0.04	0.38	0.32	0.00		0.00	0.03		0.00	0.03	0.00	418.41	418.41	0.01	0.01	420.96
Hotel	1.30354e+007	0.07	0.64	0.54	0.00		0.00	0.05		0.00	0.05	0.00	695.62	695.62	0.01	0.01	699.85
Industrial Park	3.74135e+006	0.02	0.18	0.15	0.00		0.00	0.01		0.00	0.01	0.00	199.65	199.65	0.00	0.00	200.87
Office Park	1.28831e+007	0.07	0.63	0.53	0.00		0.00	0.05		0.00	0.05	0.00	687.49	687.49	0.01	0.01	691.67
Place of Worship	95780.5	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	5.11	5.11	0.00	0.00	5.14
Single Family Housing	2.1529e+006	0.01	0.10	0.04	0.00		0.00	0.01		0.00	0.01	0.00	114.89	114.89	0.00	0.00	115.59
Strip Mall	1.15077e+007	0.06	0.56	0.47	0.00		0.00	0.04		0.00	0.04	0.00	614.09	614.09	0.01	0.01	617.83
Unrefrigerated Warehouse-No Rail	5.3399e+007	0.29	2.62	2.20	0.02		0.00	0.20		0.00	0.20	0.00	2,849.57	2,849.57	0.05	0.05	2,866.92
Total		**4.39**	**39.92**	**33.41**	**0.22**		**0.00**	**3.03**		**0.00**	**3.03**	**0.00**	**43,487.82**	**43,487.82**	**0.81**	**0.77**	**43,752.48**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	tons/yr										MT/yr					
Apartments Low Rise	115197	0.00	0.01	0.00	0.00		0.00	0.00		0.00	0.00	0.00	6.15	6.15	0.00	0.00	6.18
Congregate Care (Assisted Living)	3.60256e+006	0.02	0.17	0.07	0.00		0.00	0.01		0.00	0.01	0.00	192.25	192.25	0.00	0.00	193.42
Free-Standing Discount Superstore	8.54711e+006	0.05	0.42	0.35	0.00		0.00	0.03		0.00	0.03	0.00	456.11	456.11	0.01	0.01	458.88
General Heavy Industry	2.54461e+008	1.37	12.47	10.48	0.07		0.00	0.95		0.00	0.95	0.00	13,579.03	13,579.03	0.26	0.25	13,661.67
General Light Industry	4.13916e+008	2.23	20.29	17.04	0.12		0.00	1.54		0.00	1.54	0.00	22,088.12	22,088.12	0.42	0.40	22,222.54
General Office Building	2.53625e+007	0.14	1.24	1.04	0.01		0.00	0.09		0.00	0.09	0.00	1,353.44	1,353.44	0.03	0.02	1,361.68
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Government (Civic Center)	4.2705e+006	0.02	0.21	0.18	0.00		0.00	0.02		0.00	0.02	0.00	227.89	227.89	0.00	0.00	229.28
High School	7.8408e+006	0.04	0.38	0.32	0.00		0.00	0.03		0.00	0.03	0.00	418.41	418.41	0.01	0.01	420.96
Hotel	1.30354e+007	0.07	0.64	0.54	0.00		0.00	0.05		0.00	0.05	0.00	695.62	695.62	0.01	0.01	699.85
Industrial Park	3.74135e+006	0.02	0.18	0.15	0.00		0.00	0.01		0.00	0.01	0.00	199.65	199.65	0.00	0.00	200.87
Office Park	1.28831e+007	0.07	0.63	0.53	0.00		0.00	0.05		0.00	0.05	0.00	687.49	687.49	0.01	0.01	691.67
Place of Worship	95780.5	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	5.11	5.11	0.00	0.00	5.14
Single Family Housing	2.1529e+006	0.01	0.10	0.04	0.00		0.00	0.01		0.00	0.01	0.00	114.89	114.89	0.00	0.00	115.59
Strip Mall	1.15077e+007	0.06	0.56	0.47	0.00		0.00	0.04		0.00	0.04	0.00	614.09	614.09	0.01	0.01	617.83
Unrefrigerated Warehouse-No Rail	5.3399e+007	0.29	2.62	2.20	0.02		0.00	0.20		0.00	0.20	0.00	2,849.57	2,849.57	0.05	0.05	2,866.92
Total		**4.39**	**39.92**	**33.41**	**0.22**		**0.00**	**3.03**		**0.00**	**3.03**	**0.00**	**43,487.82**	**43,487.82**	**0.81**	**0.77**	**43,752.48**

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Low Rise	21361.7					6.21	0.00	0.00	6.25
Congregate Care (Assisted Living)	848315					246.75	0.01	0.00	248.30
Free-Standing Discount Superstore	7.62703e+007					22,184.80	1.00	0.38	22,323.84
General Heavy Industry	1.63012e+008					47,415.46	2.14	0.81	47,712.63
General Light Industry	2.65161e+008					77,127.65	3.49	1.32	77,611.03
General Office Building	3.37162e+007					9,807.04	0.44	0.17	9,868.51
Golf Course	0					0.00	0.00	0.00	0.00
Government (Civic Center)	5.67707e+006					1,651.29	0.07	0.03	1,661.64
High School	4.824e+006					1,403.16	0.06	0.02	1,411.95
Hotel	4.4285e+006					1,288.12	0.06	0.02	1,296.19
Industrial Park	4.97363e+006					1,446.68	0.07	0.02	1,455.75
Office Park	1.99068e+007					5,790.30	0.26	0.10	5,826.59
Place of Worship	61358.6					17.85	0.00	0.00	17.96
Single Family Housing	352911					102.65	0.00	0.00	103.29
Strip Mall	1.02689e+008					29,869.27	1.35	0.51	30,056.48
Unrefrigerated Warehouse-No Rail	2.55846e+008					74,418.05	3.37	1.28	74,884.45
Total						**272,775.28**	**12.32**	**4.66**	**274,484.86**

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Low Rise	21361.7					6.21	0.00	0.00	6.25
Congregate Care (Assisted Living)	848315					246.75	0.01	0.00	248.30
Free-Standing Discount Superstore	7.62703e+007					22,184.80	1.00	0.38	22,323.84
General Heavy Industry	1.63012e+008					47,415.46	2.14	0.81	47,712.63
General Light Industry	2.65161e+008					77,127.65	3.49	1.32	77,611.03
General Office Building	3.37162e+007					9,807.04	0.44	0.17	9,868.51
Golf Course	0					0.00	0.00	0.00	0.00
Government (Civic Center)	5.67707e+006					1,651.29	0.07	0.03	1,661.64
High School	4.824e+006					1,403.16	0.06	0.02	1,411.95
Hotel	4.4285e+006					1,288.12	0.06	0.02	1,296.19
Industrial Park	4.97363e+006					1,446.68	0.07	0.02	1,455.75
Office Park	1.99068e+007					5,790.30	0.26	0.10	5,826.59
Place of Worship	61358.6					17.85	0.00	0.00	17.96
Single Family Housing	352911					102.65	0.00	0.00	103.29
Strip Mall	1.02689e+008					29,869.27	1.35	0.51	30,056.48
Unrefrigerated Warehouse-No Rail	2.55846e+008					74,418.05	3.37	1.28	74,884.45
Total						**272,775.28**	**12.32**	**4.66**	**274,484.86**

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6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	533.88	0.06	4.84	0.00		0.00	0.02		0.00	0.02	0.00	7.51	7.51	0.01	0.00	7.70
Unmitigated	533.88	0.06	4.84	0.00		0.00	0.02		0.00	0.02	0.00	7.51	7.51	0.01	0.00	7.70
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	129.39					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	404.32					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.17	0.06	4.84	0.00		0.00	0.02		0.00	0.02	0.00	7.51	7.51	0.01	0.00	7.70
Total	**533.88**	**0.06**	**4.84**	**0.00**		**0.00**	**0.02**		**0.00**	**0.02**	**0.00**	**7.51**	**7.51**	**0.01**	**0.00**	**7.70**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	129.39					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	404.32					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.17	0.06	4.84	0.00		0.00	0.02		0.00	0.02	0.00	7.51	7.51	0.01	0.00	7.70
Total	**533.88**	**0.06**	**4.84**	**0.00**		**0.00**	**0.02**		**0.00**	**0.02**	**0.00**	**7.51**	**7.51**	**0.01**	**0.00**	**7.70**

7.0 Water Detail

7.1 Mitigation Measures Water

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					11,353.32	0.51	1.87	11,944.85
Unmitigated					11,353.32	0.51	1.87	11,944.85
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Low Rise	0.434168 / 0.277583					2.54	0.00	0.00	2.66
Congregate Care (Assisted Living)	4.27488 / 2.73312					25.02	0.00	0.00	26.18
Free-Standing Discount Superstore	213.901 / 131.101					1,233.79	0.06	0.18	1,291.72
General Heavy Industry	497.975 / 0					1,886.04	0.09	0.41	2,014.72
General Light Industry	248.988 / 0					943.02	0.04	0.20	1,007.36
General Office Building	131.28 / 80.4617					757.23	0.03	0.11	792.78
Golf Course	7.62937 / 392.47					1,297.19	0.06	0.03	1,307.11
Government (Civic Center)	11.3376 / 6.94887					65.40	0.00	0.01	68.47
High School	26.7355 / 68.7485					323.42	0.01	0.03	331.73
Hotel	42.7871 / 4.75413					177.42	0.01	0.04	188.57
Industrial Park	3.87314 / 0					14.67	0.00	0.00	15.67
Office Park	70.8319 / 43.4131					408.56	0.02	0.06	427.75
Place of Worship	1.77828 / 4.57272					21.51	0.00	0.00	22.06
Single Family Housing	3.69042 / 2.35945					21.60	0.00	0.00	22.60
Strip Mall	287.993 / 176.512					1,661.16	0.08	0.25	1,739.16
Unrefrigerated Warehouse-No Rail	663.967 / 0					2,514.73	0.11	0.55	2,686.30
Total						**11,353.30**	**0.51**	**1.87**	**11,944.84**

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Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Low Rise	0.434168 / 0.277583					2.54	0.00	0.00	2.66
Congregate Care (Assisted Living)	4.27488 / 2.73312					25.02	0.00	0.00	26.18
Free-Standing Discount Superstore	213.901 / 131.101					1,233.79	0.06	0.18	1,291.72
General Heavy Industry	497.975 / 0					1,886.04	0.09	0.41	2,014.72
General Light Industry	248.988 / 0					943.02	0.04	0.20	1,007.36
General Office Building	131.28 / 80.4617					757.23	0.03	0.11	792.78
Golf Course	7.62937 / 392.47					1,297.19	0.06	0.03	1,307.11
Government (Civic Center)	11.3376 / 6.94887					65.40	0.00	0.01	68.47
High School	26.7355 / 68.7485					323.42	0.01	0.03	331.73
Hotel	42.7871 / 4.75413					177.42	0.01	0.04	188.57
Industrial Park	3.87314 / 0					14.67	0.00	0.00	15.67
Office Park	70.8319 / 43.4131					408.56	0.02	0.06	427.75
Place of Worship	1.77828 / 4.57272					21.51	0.00	0.00	22.06
Single Family Housing	3.69042 / 2.35945					21.60	0.00	0.00	22.60
Strip Mall	287.993 / 176.512					1,661.16	0.08	0.25	1,739.16
Unrefrigerated Warehouse-No Rail	663.967 / 0					2,514.73	0.11	0.55	2,686.30
Total						**11,353.30**	**0.51**	**1.87**	**11,944.84**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					52,380.40	3,095.59	0.00	117,387.85
Unmitigated					52,380.40	3,095.59	0.00	117,387.85
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Low Rise	11					2.23	0.13	0.00	5.00
Congregate Care (Assisted Living)	121					24.56	1.45	0.00	55.04
Free-Standing Discount Superstore	5505					1,117.47	66.04	0.00	2,504.31
General Heavy Industry	32589					6,615.27	390.95	0.00	14,825.25
General Light Industry	53010					10,760.55	635.93	0.00	24,115.09
General Office Building	2541					515.80	30.48	0.00	1,155.94
Golf Course	566					114.89	6.79	0.00	257.48
Government (Civic Center)	385					78.15	4.62	0.00	175.14
High School	920					186.75	11.04	0.00	418.52
Hotel	570					115.70	6.84	0.00	259.30
Industrial Park	875					177.62	10.50	0.00	398.05
Office Park	1371					278.30	16.45	0.00	623.69
Place of Worship	7					1.42	0.08	0.00	3.18
Single Family Housing	90					18.27	1.08	0.00	40.94
Strip Mall	7412					1,504.57	88.92	0.00	3,371.84
Unrefrigerated Warehouse-No Rail	152070					30,868.84	1,824.30	0.00	69,179.05
Total						**52,380.39**	**3,095.60**	**0.00**	**117,387.82**

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Low Rise	11					2.23	0.13	0.00	5.00
Congregate Care (Assisted Living)	121					24.56	1.45	0.00	55.04
Free-Standing Discount Superstore	5505					1,117.47	66.04	0.00	2,504.31
General Heavy Industry	32589					6,615.27	390.95	0.00	14,825.25
General Light Industry	53010					10,760.55	635.93	0.00	24,115.09
General Office Building	2541					515.80	30.48	0.00	1,155.94
Golf Course	566					114.89	6.79	0.00	257.48
Government (Civic Center)	385					78.15	4.62	0.00	175.14
High School	920					186.75	11.04	0.00	418.52
Hotel	570					115.70	6.84	0.00	259.30
Industrial Park	875					177.62	10.50	0.00	398.05
Office Park	1371					278.30	16.45	0.00	623.69
Place of Worship	7					1.42	0.08	0.00	3.18
Single Family Housing	90					18.27	1.08	0.00	40.94
Strip Mall	7412					1,504.57	88.92	0.00	3,371.84
Unrefrigerated Warehouse-No Rail	152070					30,868.84	1,824.30	0.00	69,179.05
Total						**52,380.39**	**3,095.60**	**0.00**	**117,387.82**

9.0 Vegetation

PreferredLandUsePlan

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	2320.45	1000sqft
Government (Civic Center)	390.71	1000sqft
Office Park	1252	1000sqft
High School	720	1000sqft
Place of Worship	5.09	1000sqft
General Heavy Industry	13527.98	1000sqft
General Light Industry	22005.09	1000sqft
Industrial Park	342.3	1000sqft
Unrefrigerated Warehouse-No Rail	58680.24	1000sqft
Golf Course	630.7	Acre
Hotel	292	Room
Apartments Low Rise	6	Dwelling Unit
Congregate Care (Assisted Living)	244	Dwelling Unit
Single Family Housing	52	Dwelling Unit
Free-Standing Discount Superstore	5027.71	1000sqft
Strip Mall	6769.23	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	9		2.2		
		Precipitation Freq (Days)			
			33		

1.3 User Entered Comments

Project Characteristics -

Land Use - See Project Description. Population based on 3.78 persons/household

Construction Phase - No construction phase for inventory purposes

Off-road Equipment - no construction equipment assumed

Trips and VMT - no trips

Architectural Coating - no paint

Vehicle Trips - EMFAC2011 used for VMT

Woodstoves - no fireplaces assumed in existing housing, no new housing built.

Energy Use -

Water And Wastewater - See Utilities

Solid Waste - see Utilities for rates

PreferredLandUsePlan

Los Angeles-South Coast County, Summer

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,925.38	0.32	26.52	0.00		0.00	0.13		0.00	0.13	0.00	45.41		0.05	0.00	46.53
Energy	24.08	218.80	183.17	1.31		0.00	16.64		0.00	16.64		262,669.15		5.03	4.82	264,267.71
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Total	**2,949.46**	**219.12**	**209.69**	**1.31**	**0.00**	**0.00**	**16.77**	**0.00**	**0.00**	**16.77**	**0.00**	**262,714.56**		**5.08**	**4.82**	**264,314.24**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,925.38	0.32	26.52	0.00		0.00	0.13		0.00	0.13	0.00	45.41		0.05	0.00	46.53
Energy	24.08	218.80	183.17	1.31		0.00	16.64		0.00	16.64		262,669.15		5.03	4.82	264,267.71
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Total	**2,949.46**	**219.12**	**209.69**	**1.31**	**0.00**	**0.00**	**16.77**	**0.00**	**0.00**	**16.77**	**0.00**	**262,714.56**		**5.08**	**4.82**	**264,314.24**

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	24.08	218.80	183.17	1.31		0.00	16.64		0.00	16.64		262,669.15		5.03	4.82	264,267.71
NaturalGas Unmitigated	24.08	218.80	183.17	1.31		0.00	16.64		0.00	16.64		262,669.15		5.03	4.82	264,267.71
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

PreferredLandUsePlan

Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	315.608	0.00	0.03	0.01	0.00		0.00	0.00		0.00	0.00		37.13		0.00	0.00	37.36
Congregate Care (Assisted Living)	9870.03	0.11	0.91	0.39	0.01		0.00	0.07		0.00	0.07		1,161.18		0.02	0.02	1,168.25
Free-Standing Discount Superstore	23416.7	0.25	2.30	1.93	0.01		0.00	0.17		0.00	0.17		2,754.91		0.05	0.05	2,771.67
General Heavy Industry	697154	7.52	68.35	57.41	0.41		0.00	5.19		0.00	5.19		82,018.16		1.57	1.50	82,517.31
General Light Industry	1.13402e+006	12.23	111.18	93.39	0.67		0.00	8.45		0.00	8.45		133,413.62		2.56	2.45	134,225.55
General Office Building	69486.4	0.75	6.81	5.72	0.04		0.00	0.52		0.00	0.52		8,174.87		0.16	0.15	8,224.62
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Government (Civic Center)	11700	0.13	1.15	0.96	0.01		0.00	0.09		0.00	0.09		1,376.47		0.03	0.03	1,384.85
High School	21481.6	0.23	2.11	1.77	0.01		0.00	0.16		0.00	0.16		2,527.25		0.05	0.05	2,542.63
Hotel	35713.5	0.39	3.50	2.94	0.02		0.00	0.27		0.00	0.27		4,201.59		0.08	0.08	4,227.16
Industrial Park	10250.3	0.11	1.00	0.84	0.01		0.00	0.08		0.00	0.08		1,205.91		0.02	0.02	1,213.25
Office Park	35296.1	0.38	3.46	2.91	0.02		0.00	0.26		0.00	0.26		4,152.48		0.08	0.08	4,177.75
Place of Worship	262.412	0.00	0.03	0.02	0.00		0.00	0.00		0.00	0.00		30.87		0.00	0.00	31.06
Single Family Housing	5898.37	0.06	0.54	0.23	0.00		0.00	0.04		0.00	0.04		693.93		0.01	0.01	698.15
Strip Mall	31527.9	0.34	3.09	2.60	0.02		0.00	0.23		0.00	0.23		3,709.17		0.07	0.07	3,731.74
Unrefrigerated Warehouse-No Rail	146299	1.58	14.34	12.05	0.09		0.00	1.09		0.00	1.09		17,211.61		0.33	0.32	17,316.36
Total		**24.08**	**218.80**	**183.17**	**1.32**		**0.00**	**16.62**		**0.00**	**16.62**		**262,669.15**		**5.03**	**4.83**	**264,267.71**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	0.315608	0.00	0.03	0.01	0.00		0.00	0.00		0.00	0.00		37.13		0.00	0.00	37.36
Congregate Care (Assisted Living)	9.87003	0.11	0.91	0.39	0.01		0.00	0.07		0.00	0.07		1,161.18		0.02	0.02	1,168.25
Free-Standing Discount Superstore	23.4167	0.25	2.30	1.93	0.01		0.00	0.17		0.00	0.17		2,754.91		0.05	0.05	2,771.67
General Heavy Industry	697.154	7.52	68.35	57.41	0.41		0.00	5.19		0.00	5.19		82,018.16		1.57	1.50	82,517.31
General Light Industry	1134.02	12.23	111.18	93.39	0.67		0.00	8.45		0.00	8.45		133,413.62		2.56	2.45	134,225.55
General Office Building	69.4864	0.75	6.81	5.72	0.04		0.00	0.52		0.00	0.52		8,174.87		0.16	0.15	8,224.62
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Government (Civic Center)	11.7	0.13	1.15	0.96	0.01		0.00	0.09		0.00	0.09		1,376.47		0.03	0.03	1,384.85
High School	21.4816	0.23	2.11	1.77	0.01		0.00	0.16		0.00	0.16		2,527.25		0.05	0.05	2,542.63
Hotel	35.7135	0.39	3.50	2.94	0.02		0.00	0.27		0.00	0.27		4,201.59		0.08	0.08	4,227.16
Industrial Park	10.2503	0.11	1.00	0.84	0.01		0.00	0.08		0.00	0.08		1,205.91		0.02	0.02	1,213.25
Office Park	35.2961	0.38	3.46	2.91	0.02		0.00	0.26		0.00	0.26		4,152.48		0.08	0.08	4,177.75
Place of Worship	0.262412	0.00	0.03	0.02	0.00		0.00	0.00		0.00	0.00		30.87		0.00	0.00	31.06
Single Family Housing	5.89837	0.06	0.54	0.23	0.00		0.00	0.04		0.00	0.04		693.93		0.01	0.01	698.15
Strip Mall	31.5279	0.34	3.09	2.60	0.02		0.00	0.23		0.00	0.23		3,709.17		0.07	0.07	3,731.74
Unrefrigerated Warehouse-No Rail	146.299	1.58	14.34	12.05	0.09		0.00	1.09		0.00	1.09		17,211.61		0.33	0.32	17,316.36
Total		**24.08**	**218.80**	**183.17**	**1.32**		**0.00**	**16.62**		**0.00**	**16.62**		**262,669.15**		**5.03**	**4.83**	**264,267.71**

PreferredLandUsePlan

Los Angeles-South Coast County, Summer

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2,925.38	0.32	26.52	0.00		0.00	0.13		0.00	0.13	0.00	45.41		0.05	0.00	46.53
Unmitigated	2,925.38	0.32	26.52	0.00		0.00	0.13		0.00	0.13	0.00	45.41		0.05	0.00	46.53
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	709.00					0.00	0.00		0.00	0.00						0.00
Consumer Products	2,215.45					0.00	0.00		0.00	0.00						0.00
Hearth	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00
Landscaping	0.93	0.32	26.52	0.00		0.00	0.13		0.00	0.13		45.41		0.05		46.53
Total	**2,925.38**	**0.32**	**26.52**	**0.00**		**0.00**	**0.13**		**0.00**	**0.13**	**0.00**	**45.41**		**0.05**	**0.00**	**46.53**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	709.00					0.00	0.00		0.00	0.00						0.00
Consumer Products	2,215.45					0.00	0.00		0.00	0.00						0.00
Hearth	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00
Landscaping	0.93	0.32	26.52	0.00		0.00	0.13		0.00	0.13		45.41		0.05		46.53
Total	**2,925.38**	**0.32**	**26.52**	**0.00**		**0.00**	**0.13**		**0.00**	**0.13**	**0.00**	**45.41**		**0.05**	**0.00**	**46.53**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

PreferredLandUsePlan

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	2320.45	1000sqft
Government (Civic Center)	390.71	1000sqft
Office Park	1252	1000sqft
High School	720	1000sqft
Place of Worship	5.09	1000sqft
General Heavy Industry	13527.98	1000sqft
General Light Industry	22005.09	1000sqft
Industrial Park	342.3	1000sqft
Unrefrigerated Warehouse-No Rail	58680.24	1000sqft
Golf Course	630.7	Acre
Hotel	292	Room
Apartments Low Rise	6	Dwelling Unit
Congregate Care (Assisted Living)	244	Dwelling Unit
Single Family Housing	52	Dwelling Unit
Free-Standing Discount Superstore	5027.71	1000sqft
Strip Mall	6769.23	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	9		2.2		
		Precipitation Freq (Days)			
			33		

1.3 User Entered Comments

Project Characteristics -

Land Use - See Project Description. Population based on 3.78 persons/household

Construction Phase - No construction phase for inventory purposes

Off-road Equipment - no construction equipment assumed

Trips and VMT - no trips

Architectural Coating - no paint

Vehicle Trips - EMFAC2011 used for VMT

Woodstoves - no fireplaces assumed in existing housing, no new housing built.

Energy Use -

Water And Wastewater - See Utilities

Solid Waste - see Utilities for rates

PreferredLandUsePlan

Los Angeles-South Coast County, Winter

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,925.38	0.32	26.52	0.00		0.00	0.13		0.00	0.13	0.00	45.41		0.05	0.00	46.53
Energy	24.08	218.80	183.17	1.31		0.00	16.64		0.00	16.64		262,669.15		5.03	4.82	264,267.71
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Total	**2,949.46**	**219.12**	**209.69**	**1.31**	**0.00**	**0.00**	**16.77**	**0.00**	**0.00**	**16.77**	**0.00**	**262,714.56**		**5.08**	**4.82**	**264,314.24**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,925.38	0.32	26.52	0.00		0.00	0.13		0.00	0.13	0.00	45.41		0.05	0.00	46.53
Energy	24.08	218.80	183.17	1.31		0.00	16.64		0.00	16.64		262,669.15		5.03	4.82	264,267.71
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Total	**2,949.46**	**219.12**	**209.69**	**1.31**	**0.00**	**0.00**	**16.77**	**0.00**	**0.00**	**16.77**	**0.00**	**262,714.56**		**5.08**	**4.82**	**264,314.24**

PreferredLandUsePlan

Los Angeles-South Coast County, Winter

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	24.08	218.80	183.17	1.31		0.00	16.64		0.00	16.64		262,669.15		5.03	4.82	264,267.71
NaturalGas Unmitigated	24.08	218.80	183.17	1.31		0.00	16.64		0.00	16.64		262,669.15		5.03	4.82	264,267.71
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	315.608	0.00	0.03	0.01	0.00		0.00	0.00		0.00	0.00		37.13		0.00	0.00	37.36
Congregate Care (Assisted Living)	9870.03	0.11	0.91	0.39	0.01		0.00	0.07		0.00	0.07		1,161.18		0.02	0.02	1,168.25
Free-Standing Discount Superstore	23416.7	0.25	2.30	1.93	0.01		0.00	0.17		0.00	0.17		2,754.91		0.05	0.05	2,771.67
General Heavy Industry	697154	7.52	68.35	57.41	0.41		0.00	5.19		0.00	5.19		82,018.16		1.57	1.50	82,517.31
General Light Industry	1.13402e+006	12.23	111.18	93.39	0.67		0.00	8.45		0.00	8.45		133,413.62		2.56	2.45	134,225.55
General Office Building	69486.4	0.75	6.81	5.72	0.04		0.00	0.52		0.00	0.52		8,174.87		0.16	0.15	8,224.62
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Government (Civic Center)	11700	0.13	1.15	0.96	0.01		0.00	0.09		0.00	0.09		1,376.47		0.03	0.03	1,384.85
High School	21481.6	0.23	2.11	1.77	0.01		0.00	0.16		0.00	0.16		2,527.25		0.05	0.05	2,542.63
Hotel	35713.5	0.39	3.50	2.94	0.02		0.00	0.27		0.00	0.27		4,201.59		0.08	0.08	4,227.16
Industrial Park	10250.3	0.11	1.00	0.84	0.01		0.00	0.08		0.00	0.08		1,205.91		0.02	0.02	1,213.25
Office Park	35296.1	0.38	3.46	2.91	0.02		0.00	0.26		0.00	0.26		4,152.48		0.08	0.08	4,177.75
Place of Worship	262.412	0.00	0.03	0.02	0.00		0.00	0.00		0.00	0.00		30.87		0.00	0.00	31.06
Single Family Housing	5898.37	0.06	0.54	0.23	0.00		0.00	0.04		0.00	0.04		693.93		0.01	0.01	698.15
Strip Mall	31527.9	0.34	3.09	2.60	0.02		0.00	0.23		0.00	0.23		3,709.17		0.07	0.07	3,731.74
Unrefrigerated Warehouse-No Rail	146299	1.58	14.34	12.05	0.09		0.00	1.09		0.00	1.09		17,211.61		0.33	0.32	17,316.36
Total		**24.08**	**218.80**	**183.17**	**1.32**		**0.00**	**16.62**		**0.00**	**16.62**		**262,669.15**		**5.03**	**4.83**	**264,267.71**

PreferredLandUsePlan

Los Angeles-South Coast County, Winter

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	0.315608	0.00	0.03	0.01	0.00		0.00	0.00		0.00	0.00		37.13		0.00	0.00	37.36
Congregate Care (Assisted Living)	9.87003	0.11	0.91	0.39	0.01		0.00	0.07		0.00	0.07		1,161.18		0.02	0.02	1,168.25
Free-Standing Discount Superstore	23.4167	0.25	2.30	1.93	0.01		0.00	0.17		0.00	0.17		2,754.91		0.05	0.05	2,771.67
General Heavy Industry	697.154	7.52	68.35	57.41	0.41		0.00	5.19		0.00	5.19		82,018.16		1.57	1.50	82,517.31
General Light Industry	1134.02	12.23	111.18	93.39	0.67		0.00	8.45		0.00	8.45		133,413.62		2.56	2.45	134,225.55
General Office Building	69.4864	0.75	6.81	5.72	0.04		0.00	0.52		0.00	0.52		8,174.87		0.16	0.15	8,224.62
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Government (Civic Center)	11.7	0.13	1.15	0.96	0.01		0.00	0.09		0.00	0.09		1,376.47		0.03	0.03	1,384.85
High School	21.4816	0.23	2.11	1.77	0.01		0.00	0.16		0.00	0.16		2,527.25		0.05	0.05	2,542.63
Hotel	35.7135	0.39	3.50	2.94	0.02		0.00	0.27		0.00	0.27		4,201.59		0.08	0.08	4,227.16
Industrial Park	10.2503	0.11	1.00	0.84	0.01		0.00	0.08		0.00	0.08		1,205.91		0.02	0.02	1,213.25
Office Park	35.2961	0.38	3.46	2.91	0.02		0.00	0.26		0.00	0.26		4,152.48		0.08	0.08	4,177.75
Place of Worship	0.262412	0.00	0.03	0.02	0.00		0.00	0.00		0.00	0.00		30.87		0.00	0.00	31.06
Single Family Housing	5.89837	0.06	0.54	0.23	0.00		0.00	0.04		0.00	0.04		693.93		0.01	0.01	698.15
Strip Mall	31.5279	0.34	3.09	2.60	0.02		0.00	0.23		0.00	0.23		3,709.17		0.07	0.07	3,731.74
Unrefrigerated Warehouse-No Rail	146.299	1.58	14.34	12.05	0.09		0.00	1.09		0.00	1.09		17,211.61		0.33	0.32	17,316.36
Total		**24.08**	**218.80**	**183.17**	**1.32**		**0.00**	**16.62**		**0.00**	**16.62**		**262,669.15**		**5.03**	**4.83**	**264,267.71**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2,925.38	0.32	26.52	0.00		0.00	0.13		0.00	0.13	0.00	45.41		0.05	0.00	46.53
Unmitigated	2,925.38	0.32	26.52	0.00		0.00	0.13		0.00	0.13	0.00	45.41		0.05	0.00	46.53
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	709.00					0.00	0.00		0.00	0.00						0.00
Consumer Products	2,215.45					0.00	0.00		0.00	0.00						0.00
Hearth	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00
Landscaping	0.93	0.32	26.52	0.00		0.00	0.13		0.00	0.13		45.41		0.05		46.53
Total	**2,925.38**	**0.32**	**26.52**	**0.00**		**0.00**	**0.13**		**0.00**	**0.13**	**0.00**	**45.41**		**0.05**	**0.00**	**46.53**

PreferredLandUsePlan

Los Angeles-South Coast County, Winter

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	709.00					0.00	0.00		0.00	0.00						0.00
Consumer Products	2,215.45					0.00	0.00		0.00	0.00						0.00
Hearth	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00
Landscaping	0.93	0.32	26.52	0.00		0.00	0.13		0.00	0.13		45.41		0.05		46.53
Total	**2,925.38**	**0.32**	**26.52**	**0.00**		**0.00**	**0.13**		**0.00**	**0.13**	**0.00**	**45.41**		**0.05**	**0.00**	**46.53**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

Summary of Offroad Area Sources

	lbs/day						MTons/year
EXISTING using 2008 rates	VOC	NOx	CO	SO2	PM10	PM2.5	CO2e
Transport Refrigeration Units	59	164	285	0	16	16	2,836
Light Commercial	162	289	3,380	0	28	28	4,619
Industrial Equipment (not permitted)	119	769	3,075	1	28	28	13,438
Other Portable Equipment	0	0	0	0	0	0	6
subtotal Commercial and Industrial	339	1222	6740	1	72	71	20899
Construction	49	339	242	0	21	20	4,732
	387	1,561	6,982	1	92	92	25,631

	lbs/day						MTons/year
EXISTING using 2035 rates	VOC	NOx	CO	SO2	PM10	PM2.5	CO2e
Transport Refrigeration Units	52	363	626	1	2	2	10,844
Light Commercial	70	98	2,874	0	14	14	4,553
Industrial Equipment (not permitted)	37	271	3,282	1	6	6	14,549
Other Portable Equipment	0	0	0	0	0	0	6
subtotal Commercial and Industrial	160	731	6782	2	22	22	29952
Construction	19	74	252	0	3	3	6,779
	179	805	7,034	2	25	25	36,731

	lbs/day						MTons/year
Post-2035 using 2035 rates	VOC	NOx	CO	SO2	PM10	PM2.5	CO2e
Transport Refrigeration Units	83	579	1,000	1	4	4	17,308
Light Commercial	112	157	4,587	1	23	22	7,267
Industrial Equipment (not permitted)	60	432	5,238	1	9	9	23,222
Other Portable Equipment	0	0	0	0	0	0	9
subtotal Commercial and Industrial	255	1167	10825	3	36	35	47805
Construction	19	74	252	0	3	3	6,779
	274	1,241	11,077	3	38	38	54,585

Notes: Commercial and industrial area sources are adjusted for Employment Forecasts in the GP. Construction emissions assumed to be similar to past trends.

2008 Employment	68,741
Post-2035 Employment	109,715
Percent increase	60%

							Tons/Weekday									MTons/Year
CY	Equipment	Class	County	Air Basin	MY	Population	ROG Exhaust	NOX Exhaust	CO Exhaust	SO2 Exhaust	PM Exhaust	PM2.5	CO2 Exhaust	N2O Exhaust	CH4 Exhaust	CO2e
2035	Misc Portable Equipment	Other Portable Equipment	Los Angeles			11.89	0.000280671	0.001685762	0.00371199	1.12657E-05	2.99712E-05		1.052311685	0	2.53245E-05	349
City as a Percentage of the County of LA				SUMMARY			lbs/day						MTons/year			CO2e
	Employment County	4,336,285	Source: SCAG 2012				0.0	0.1	0.1	0.0	0.0		5.5	0.0	0.0	6
	Employment City	68,741	Source: Industry GP													
		1.59%														

								Tons/Weekday									MTons/Year
CY	Season	Equipment	Class	County	Air Basin	MY	Population	ROG Exhaust	NOX Exhaust	CO Exhaust	SO2 Exhaust	PM Exhaust	PM2.5	CO2 Exhaust	N2O Exhaust	CH4 Exhaust	CO2e
2008	Annual	Misc Portable Equipment	Other Portable Equipment	Los Angeles			11.89	0.001449427	0.012307042	0.005179166	1.12657E-05	0.000646032		1.052311629	0	0.000130779	349
City as a Percentage of the County of LA					SUMMARY			lbs/day						MTons/year			CO2e
	2008	Employment County	4,336,285	Source: SCAG 2012				0.0	0.4	0.2	0.0	0.0		5.5	0.0	0.0	6
	2008	Employment City	68,741	Source: Industry GP													
			1.59%														

							Tons/Weekday									MTons/Year
CY	Equipment	Class	County	Air Basin	MY	Population	ROG Exhaust	NOX Exhaust	CO Exhaust	SO2 Exhaust	PM Exhaust	PM2.5	CO2 Exhaust	N2O Exhaust	CH4 Exhaust	CO2e
2035	Pressure Washers	Light Commercial Equipment	Los Angeles			140458.85	2.217894919	3.093747648	90.6448936	0.011169379	0.44624631		837.1672578	0.126713374	0.170232473	287199.672
City as a Percentage of the County of LA				SUMMARY			lbs/day						MTons/year			CO2e
	Employment County	4,336,285	Source: SCAG 2012				70	98	2,874	0	14		4,394	1	1	4,553
	Employment City	68,741	Source: Industry GP													
		1.59%														

							Tons/Weekday									MTons/Year
CY	Equipment	Class	County	Air Basin	MY	Population	ROG Exhaust	NOX Exhaust	CO Exhaust	SO2 Exhaust	PM Exhaust	PM2.5	CO2 Exhaust	N2O Exhaust	CH4 Exhaust	CO2e
City as a Percentage of the County of LA				SUMMARY			lbs/day						MTons/year			CO2e
	Employment County		4,336,285	Source: SCAG 2012			162	289	3,380	0	28		4,417	1	2	4,619
	Employment City		68,741	Source: Industry GP												
			1.59%													

							Tons/Weekday								MTons/Year
CY	Equipment	Class	County	Air Basin	MY	Population	ROG Exhaust	NOX Exhaust	CO Exhaust	SO2 Exhaust	PM Exhaust	CO2 Exhaust	N2O Exhaust	CH4 Exhaust	CO2e
2035	Other Material Handling Equipment	Industrial Equipment	Los Angeles			31772.7	1.18E+00	8.532299594	103.508197	0.017808042	0.18043598	2724.572829	0.132865184	0.918197569	917790.7627
City as a Percentage of the County of LA				SUMMARY			lbs/day					MTons/year			CO2e
	Employment County	4,336,285	Source: SCAG 2012				37	271	3,282	1	6	14,302	1	5	14,549
	Employment City	68,741	Source: Industry GP												
		1.59%													

								Tons/Weekday								MTons/Year
CY	Equipment	Class	County	Air Basin	Air Dist.	MY	Population	ROG Exhaust	NOX Exhaust	CO Exhaust	SO2 Exhaust	PM Exhaust	CO2 Exhaust	N2O Exhaust	CH4 Exhaust	CO2e
2008	Other Material Handling Equipment	Industrial Equipment	Los Angeles				28313.46	3.739198358	24.24351497	96.9823503	0.018086163	0.87925319	2488.726331	0.176005537	1.64019314	847716.9428
City as a Percentage of the County of LA				SUMMARY				lbs/day					MTons/year			CO2e
	Employment County	4,336,285	Source: SCAG 2012					119	769	3,075	1	28	13,064	1	9	13,438
	Employment City	68,741	Source: Industry GP													
		1.59%														

							Tons/Weekday								MTons/Year
CY	Equipment	Class	County	Air Basin	MY	Population	ROG Exhaust	NOX Exhaust	CO Exhaust	SO2 Exhaust	PM Exhaust	CO2 Exhaust	N2O Exhaust	CH4 Exhaust	CO2e
2035	Other Construction Equipment	Construction and Mining Equipment	Los Angeles			79638.98	3.80474973	14.57942882	49.7713654	0.089636044	0.54685192	8074.292904	0.028777297	0.328061067	2677861.62
City Land Acreage as a Percentage of the County of LA land Acreage				SUMMARY			lbs/day					MTons/year			CO2e
	Land Acreage in the County	3,253,107					19	74	252	0	3	6,769	0	0	6,779
	Acreage in the City+Sphere	8235.8													
		0.25%													

							Tons/Weekday								MTons/Year
CY	Equipment	Class	County	Air Basin	MY	Population	ROG Exhaust	NOX Exhaust	CO Exhaust	SO2 Exhaust	PM Exhaust	CO2 Exhaust	N2O Exhaust	CH4 Exhaust	CO2e
2008	Other Construction Equipment	Construction and Mining Equipment	Los Angeles			61081.09	9.586628485	67.00810209	47.76098118	0.062529455	4.064337871	5620.920863	0.031192353	0.846096693	1869265.269
City Land Acreage as a Percentage of the County of LA land Acreage				SUMMARY			lbs/day					MTons/year			CO2e
	Land Acreage in the County	3,253,107					49	339	242	0	21	4,712	0	1	4,732
	Acreage in the City+Sphere	8235.8													
		0.25%													

							Tons/Weekday									MTons/Year
CY	Equipment	Class	County	Air Basin	MY	Population	ROG Exhaust	NOX Exhaust	CO Exhaust	SO2 Exhaust	PM Exhaust		CO2 Exhaust	N2O Exhaust	CH4 Exhaust	CO2e
2035	Transport Refrigeration Units	Transport Refrigeration Units	Los Angeles			44751.77	1.639515457	11.44354835	19.7589741	0.026733799	0.07670809	0	2061.732273	0.005329147	0.145461568	684067.8136
City as a Percentage of the County of LA				SUMMARY			lbs/day						MTons/year			CO2e
	Employment County	4,336,285	Source: SCAG 2012				52	363	626	1	2		10,822	0	1	10,844
	Employment City	68,741	Source: Industry GP													
		1.59%														

							Tons/Weekday									MTons/Year
CY	Equipment	Class	County	Air Basin	MY	Population	ROG Exhaust	NOX Exhaust	CO Exhaust	SO2 Exhaust	PM Exhaust		CO2 Exhaust	N2O Exhaust	CH4 Exhaust	CO2e
2008	Transport Refrigeration Units	Transport Refrigeration Units	Los Angeles			12590.58	1.848637402	5.185622005	8.998989335	0.007015484	0.498581345	0	535.6198713	0.005889553	0.163839651	178904.5504
City as a Percentage of the County of LA				SUMMARY			lbs/day						MTons/year			CO2e
	Employment County	4,336,285	Source: SCAG 2012				59	164	285	0	16		2,812	0	1	2,836
	Employment City	68,741	Source: Industry GP													
		1.59%														

Jurisdiction Disposal By Facility

With Reported Alternative Daily Cover (ADC) and Alternative Intermediate Cover (AIC)

Disposal during 2008 for Industry

Destination Facility	SWISNo	Qtr	Instate Ton	Transform Ton	Export Ton	Total ADC	Total AIC
Antelope Valley Public Landfill I	19-AA-0009		57				
Antelope Valley Public Landfill I and II	19-AA-5624		52				
Azusa Land Reclamation Co. Landfill	19-AA-0013		1,274				
Bakersfield Metropolitan (Bena) SLF	15-AA-0273		1				
Chiquita Canyon Sanitary Landfill	19-AA-0052		431			464	
Colton Sanitary Landfill	36-AA-0051						
Commerce Refuse-To-Energy Facility	19-AA-0506			73			
El Sobrante Landfill	33-AA-0217		27				
Frank R. Bowerman Sanitary LF	30-AB-0360		23				
Kettleman Hills - B18 Nonhaz Codisposal	16-AA-0023		9				
Lancaster Landfill and Recycling Center	19-AA-0050		831				
Mid-Valley Sanitary Landfill	36-AA-0055		93			23	
Olinda Alpha Sanitary Landfill	30-AB-0035		126				
Peck Road Gravel Pit	19-AA-0838						
Puente Hills Landfill	19-AA-0053		117,006			523	46
Simi Valley Landfill & Recycling Center	56-AA-0007		18				
Sunshine Canyon City Landfill Unit 2	19-AR-0002		521				
Sunshine Canyon SLF County Extension	19-AA-0853		907				
Victorville Sanitary Landfill	36-AA-0045						
Yearly Totals:			121,375.56.	73..	..	1,009.93.	46.2.

122,385 tons/year
670,605 lbs/day

FACILITY SEARCH RESULTS

Your Search Criteria:

Database year is 2008. County is LOS ANGELES. Air Basin is SOUTH COAST. City is City of Industry.
Sorted by Facility Name (A to Z).
38 records returned.

Download this data as a Comma Separated Value text file.

	Fac ID	District	Facility Name	City	TOG Tons/yr	ROG Tons/yr	CO Tons/yr	NOx Tons/yr	SOx Tons/yr	PM Tons/yr	PM10 Tons/yr
1	3425	S. Coast AQMD	Allfast Fastenin	City Of	6.7	4.3	0.1	3.5	0	0.8	0.2
2	40034	S. Coast AQMD	Bentley Prince S	City Of	5.3	4.6	5	4.5	0	0.9	0.7
3	1249	S. Coast AQMD	California Expan	City Of	1.3	1.2	0	0	0	4.1	2.4
4	142769	S. Coast AQMD	Closet World Inc	City Of	0.3	0.2	0.5	1.8	0	0.1	0.1
5	3771	S. Coast AQMD	Crown City Furni	City Of	0.5	0.5	0	0	0	0	0
6	57423	S. Coast AQMD	Darnell-rose	City Of		0	0.1	0.1	0	0	0
7	7384	S. Coast AQMD	E.l.a. Inc	City Of	0.5	0.5	0	0	0	0	0
8	137462	S. Coast AQMD	Emtek	City Of	0.7	0.6	0	0	0	0	0
9	71816	S. Coast AQMD	Ferro Union	City Of	4.5	4.4	0	0	0	0	0
10	62176	S. Coast AQMD	Fibre Containers	City Of	7.1	7.1	0	0	0	0	0
11	12630	S. Coast AQMD	Flint Ink North	City Of	3.8	3.8	0.2	0.2	0	1.1	0.9
12	19766	S. Coast AQMD	Fremarc Designs	City Of	1.1	1.1	0	0	0	0.4	0.3
13	14164	S. Coast AQMD	House Of Packagi	City Of	1.2	1.2	0	0	0	0	0
14	123087	S. Coast AQMD	Indalex West Inc	City Of	6.5	4	4.4	15	0.1	10	7.5
15	77033	S. Coast AQMD	Industry City,ci	City Of	0.2	0	0.8	0.2	0	0	0
16	152330	S. Coast AQMD	Kik Aerosol Soca	City Of	57.4	48.7	0.9	0.6	0	0.1	0.1
17	87716	S. Coast AQMD	Kion Printing In	City Of	1.5	1.5	0	0	0	0	0
18	25070	S. Coast AQMD	La Cnty Sanitati	City Of	85.2	11.5	116.4	97.1	142.5	19.1	19.1
19	70913	S. Coast AQMD	Langer Juice Com	City Of	9.4	1.1	3.8	0.3	0	0.3	0.3
20	83102	S. Coast AQMD	Light Metals Inc	City Of	4.8	0.8	3.8	8.1	0.1	3.8	2.5
21	108732	S. Coast AQMD	Mc Connell Cabin	City Of	1.3	1.3	0	0.1	0	0	0
22	58563	S. Coast AQMD	Mercury Plastics	City Of	18.4	18.2	0.2	0.8	0	0	0
23	153443	S. Coast AQMD	Myers Container	City Of	2	1.8	0.2	0.8	0	0	0
24	4571	S. Coast AQMD	Natvar, A Tekni	City Of	38.7	38.2	0	0	0	0	0
25	114561	S. Coast AQMD	Orange County Co	City Of	4.8	4.7	0.3	0.4	0	0	0

[Next set] [Start a new search]

Please call us regarding errors at : (916) 322-7673

ARB Homepage

A department of the California Environmental Protection Agency

FACILITY SEARCH RESULTS

Your Search Criteria:

Database year is 2008. County is LOS ANGELES. Air Basin is SOUTH COAST. City is City of Industry.
Sorted by Facility Name (A to Z).
38 records returned.

Download this data as a Comma Separated Value text file.

	Fac ID	District	Facility Name	City	TOG Tons/yr	ROG Tons/yr	CO Tons/yr	NOx Tons/yr	SOx Tons/yr	PM Tons/yr	PM10 Tons/yr
26	126544	S. Coast AQMD	Pac Foundries-in	City Of	4.3	3.9	0.6	1.8	0	0.3	0.3
27	122528	S. Coast AQMD	Patina V, A Div	City Of	1.7	1.6	0	0	0	0	0
28	128235	S. Coast AQMD	Puente Hills Toy	City Of	2.1	2.1	0	0.1	0	0	0
29	8547	S. Coast AQMD	Quemetco Inc	City Of	38.4	30.1	33.5	44.1	76.6	9	4.7
30	78494	S. Coast AQMD	Rapid Rack Indus	City Of	1.2	1.1	0.4	0.5	0	1.7	1.6
31	8820	S. Coast AQMD	Reuland Electric	City Of	10.7	6.9	0.2	0.6	0	0.3	0.1
32	14871	S. Coast AQMD	Sonoco Products	City Of	5.1	2.8	7.1	2.2	0	1.6	1.2
33	131824	S. Coast AQMD	Steelcase, Inc.	City Of	5.7	3.9	0.7	1	0	0.1	0.1
34	10740	S. Coast AQMD	Teknor Apex Comp	City Of	4	2.8	0.8	1	0	1.7	1.5
35	24450	S. Coast AQMD	Trend Manor Furn	City Of	1.3	1.1	0	0	0	0	0
36	127553	S. Coast AQMD	Troy - Csl Light	City Of		0	0	0	0	0	0
37	97019	S. Coast AQMD	Western Summit M	City Of	1.7	1.7	0	0	0	0	0
38	152440	S. Coast AQMD	Wright Business	City Of	0.1	0.1	0	0	0	0.2	0.1

[Previous set][Start a new search]

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MONTEBELLO, CALIFORNIA (045790)

Period of Record Monthly Climate Summary

Period of Record : 1/ 1/1979 to 2/26/2011

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max. Temperature (F)	69.4	71.1	72.9	77.6	79.4	83.7	88.5	89.7	87.9	82.6	75.4	70.8	79.1
Average Min. Temperature (F)	47.8	48.9	50.4	53.2	57.2	60.8	64.2	65.2	63.6	58.3	51.4	47.2	55.7
Average Total Precipitation (in.)	3.69	3.56	2.82	0.78	0.19	0.06	0.01	0.02	0.17	0.28	1.26	1.94	14.78
Average Total SnowFall (in.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average Snow Depth (in.)	0	0	0	0	0	0	0	0	0	0	0	0	0

Percent of possible observations for period of record.
Max. Temp.: 95.7% Min. Temp.: 94.8% Precipitation: 95.7% Snowfall: 96.1% Snow Depth: 95.7%
Check Station Metadata or Metadata graphics for more detail about data completeness.

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