

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2007

Project Title: City Center II
 Intersection: Central Ave and SR 134 WB On-Ramp/Goode Ave
 Analysis Condition: Future With Project Traffic Volumes
 Nearest Air Monitoring Station measuring CO: 228 West Palm Ave Burbank, CA 91502
 Background 1-hour CO Concentration (ppm): 6.5
 Background 8-hour CO Concentration (ppm): 6.5
 Persistence Factor: 0.7
 Analysis Year: 2010

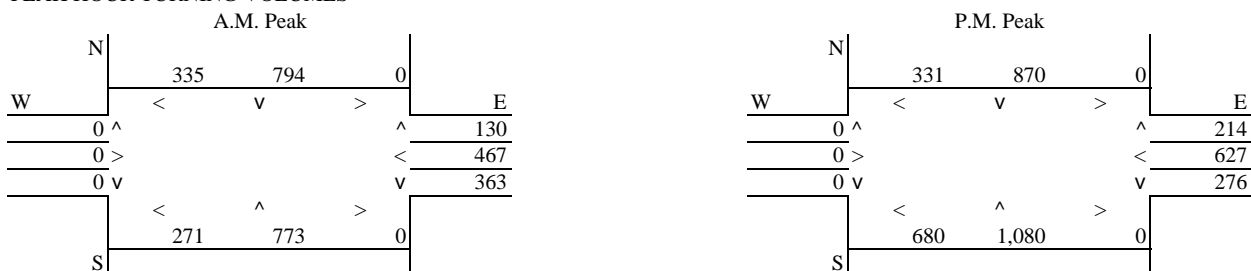
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway: Central Avenue	AT GRADE	4	26	26
East-West Roadway: SR 134 Westbound On-Ramp/Goode Avenue	AT GRADE	2	26	26

EMFAC2007 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2009	8.018	6.995	6.187	5.54	5.017	4.597	4.259	3.979	3.746	3.554
2010	7.25	6.339	5.617	5.037	4.568	4.191	3.887	3.635	3.424	3.249
2011	6.578	5.765	5.118	4.598	4.176	3.836	3.563	3.334	3.142	2.983

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	2,201	N-S Road	2,906
E-W Road	1,073	E-W Road	1,638
Primary Road =	N-S Road	Primary Road =	N-S Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			*	Traffic Volume	*	Emission Factor	÷	
	0 Feet	25 Feet	50 Feet						
A.M. Peak Hour									
N-S Road	11.9	7.0	5.4	*	2,201	*	3.64	÷	100,000
E-W Road	3.7	2.7	2.2	*	1,073	*	3.64	÷	100,000
P.M. Peak Hour									
N-S Road	11.9	7.0	5.4	*	2,906	*	3.64	÷	100,000
E-W Road	3.7	2.7	2.2	*	1,638	*	3.64	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
0 Feet from Roadway Edge	7.6	8.0	7.5
25 Feet from Roadway Edge	7.2	7.4	7.1
50 Feet from Roadway Edge	7.0	7.2	7.0

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2007

Project Title: City Center II
 Intersection: Central Ave and SR 134 EB Off-Ramp/Sanchez Drive
 Analysis Condition: Future With Project Traffic Volumes
 Nearest Air Monitoring Station measuring CO: 228 West Palm Ave Burbank, CA 91502
 Background 1-hour CO Concentration (ppm): 6.5
 Background 8-hour CO Concentration (ppm): 6.5
 Persistence Factor: 0.7
 Analysis Year: 2010

	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway: Central Avenue	AT GRADE	6	26	26
East-West Roadway: SR 134 Eastbound Off-Ramp/Sanchez Drive	AT GRADE	2	26	26

EMFAC2007 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2009	8.018	6.995	6.187	5.54	5.017	4.597	4.259	3.979	3.746	3.554
2010	7.25	6.339	5.617	5.037	4.568	4.191	3.887	3.635	3.424	3.249
2011	6.578	5.765	5.118	4.598	4.176	3.836	3.563	3.334	3.142	2.983

PEAK HOUR TURNING VOLUMES

A.M. Peak				P.M. Peak			
N	0	939	201	N	0	961	198
W	<	v	>	W	<	v	>
	274 ^		0		356 ^		0
	286 >		0		837 >		0
	424 v		0		732 v		0
S	<	^	>	S	<	^	>
	0	1,477	461		0	683	194
E				E			

Representative Traffic Volumes (Vehicles per Hour)

N-S Road	3,301	N-S Road	2,570
E-W Road	984	E-W Road	1,925
Primary Road = N-S Road		Primary Road = N-S Road	

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor
	0 Feet	25 Feet	50 Feet		
A.M. Peak Hour					
N-S Road	9.5	6.1	4.9	*	3,301
E-W Road	3.7	2.7	2.2	*	984
P.M. Peak Hour					
N-S Road	9.5	6.1	4.9	*	2,570
E-W Road	3.7	2.7	2.2	*	1,925

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
0 Feet from Roadway Edge	7.8	7.6	7.4
25 Feet from Roadway Edge	7.3	7.3	7.1
50 Feet from Roadway Edge	7.2	7.1	7.0

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2007

Project Title: City Center II
 Intersection: Brand Blvd and SR 134 WB Off-Ramps/Goode Ave
 Analysis Condition: Future With Project Traffic Volumes
 Nearest Air Monitoring Station measuring CO: 228 West Palm Ave Burbank, CA 91502
 Background 1-hour CO Concentration (ppm): 6.5
 Background 8-hour CO Concentration (ppm): 6.5
 Persistence Factor: 0.7
 Analysis Year: 2010

	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway: Brand Boulevard	AT GRADE	6	26	26
East-West Roadway: SR 134 Westbound Off-Ramps/Goode Avenue	AT GRADE	2	26	26

EMFAC2007 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2009	8.018	6.995	6.187	5.54	5.017	4.597	4.259	3.979	3.746	3.554
2010	7.25	6.339	5.617	5.037	4.568	4.191	3.887	3.635	3.424	3.249
2011	6.578	5.765	5.118	4.598	4.176	3.836	3.563	3.334	3.142	2.983

PEAK HOUR TURNING VOLUMES

A.M. Peak					P.M. Peak				
N	0	204	916		N	0	268	1,172	
W	<	v	>	E	W	<	v	>	E
	0 ^			538		0 ^			390
	0 >			425		0 >			364
	0 v			1,054		0 v			720
S	<	^	>		S	<	^	>	
	0	312	478			0	470	450	

Representative Traffic Volumes (Vehicles per Hour)

N-S Road	2,048	N-S Road	2,300
E-W Road	3,411	E-W Road	3,096
Primary Road = E-W Road		Primary Road = E-W Road	

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			*	Traffic Volume	*	Emission Factor	÷	
	0 Feet	25 Feet	50 Feet						
A.M. Peak Hour									
N-S Road	2.8	2.3	2.0	*	2,048	*	3.64	÷	100,000
E-W Road	14.0	7.6	5.7	*	3,411	*	3.64	÷	100,000
P.M. Peak Hour									
N-S Road	2.8	2.3	2.0	*	2,300	*	3.64	÷	100,000
E-W Road	14.0	7.6	5.7	*	3,096	*	3.64	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
0 Feet from Roadway Edge	8.4	8.3	7.9
25 Feet from Roadway Edge	7.6	7.5	7.3
50 Feet from Roadway Edge	7.4	7.3	7.1

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2007

Project Title: City Center II
 Intersection: Brand Blvd and SR 134 EB On-Ramps/Sanchez Dr
 Analysis Condition: Future With Project Traffic Volumes
 Nearest Air Monitoring Station measuring CO: 228 West Palm Ave Burbank, CA 91502
 Background 1-hour CO Concentration (ppm): 6.5
 Background 8-hour CO Concentration (ppm): 6.5
 Persistence Factor: 0.7
 Analysis Year: 2010

	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway: Brand Boulevard	AT GRADE	6	26	26
East-West Roadway: SR 134 Eastbound On-Ramps/Sanchez Drive	AT GRADE	2	26	26

EMFAC2007 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 47 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2009	8.018	6.995	6.187	5.54	5.017	4.597	4.259	3.979	3.746	3.554
2010	7.25	6.339	5.617	5.037	4.568	4.191	3.887	3.635	3.424	3.249
2011	6.578	5.765	5.118	4.598	4.176	3.836	3.563	3.334	3.142	2.983

PEAK HOUR TURNING VOLUMES

A.M. Peak				P.M. Peak			
N	0	1,500	470	N	0	1,332	572
W	<	v	>	W	<	v	>
	268 ^		0		109 ^		0
	340 >		0		640 >		0
	518 v		0		314 v		0
	<	^	>		<	^	>
S	0	544	304	S	0	831	713

Representative Traffic Volumes (Vehicles per Hour)

N-S Road	2,866	N-S Road	3,190
E-W Road	1,126	E-W Road	1,925
Primary Road = N-S Road		Primary Road = N-S Road	

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Traffic Volume	Emission Factor
	0 Feet	25 Feet	50 Feet		
A.M. Peak Hour					
N-S Road	9.5	6.1	4.9	*	2,866 * 3.64 ÷ 100,000
E-W Road	3.7	2.7	2.2	*	1,126 * 3.64 ÷ 100,000
P.M. Peak Hour					
N-S Road	9.5	6.1	4.9	*	3,190 * 3.64 ÷ 100,000
E-W Road	3.7	2.7	2.2	*	1,925 * 3.64 ÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
0 Feet from Roadway Edge	7.6	7.9	7.5
25 Feet from Roadway Edge	7.2	7.4	7.1
50 Feet from Roadway Edge	7.1	7.2	7.0