

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2007

Project Title: Via Princessa East Roadway Extension
 Intersection: Rainbow Glen and Via Princessa
 Analysis Condition: Interim Year - No Build
 Nearest Air Monitoring Station measuring CO: SRA 13 - Santa Clarita Valley
 Background 1-hour CO Concentration (ppm): 2.0
 Background 8-hour CO Concentration (ppm): 1.3
 Persistence Factor: 0.7
 Analysis Year: 2020

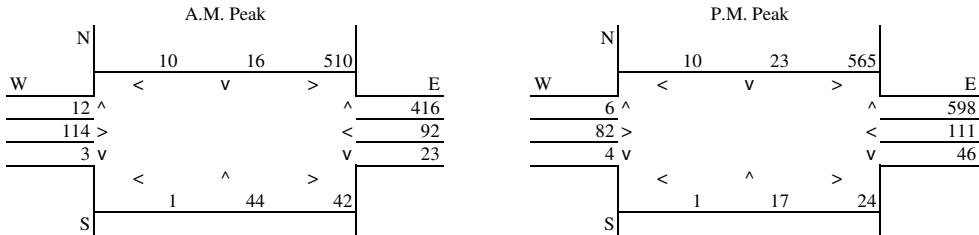
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway: Rainbow Glen	AT GRADE	2	5	5
East-West Roadway: Via Princessa	AT GRADE	2	5	5

EMFAC2007 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 44 degrees F and 64% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2008	8.877	7.732	6.829	6.108	5.526	5.057	4.682	4.371	4.114	3.903
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
2012	5.983	5.255	4.674	4.206	3.826	3.519	3.273	3.066	2.891	2.745
2013	5.437	4.787	4.267	3.846	3.504	3.228	3.006	2.818	2.66	2.526
2014	4.963	4.38	3.911	3.531	3.222	2.972	2.771	2.601	2.456	2.333
2015	4.534	4.01	3.588	3.244	2.964	2.739	2.556	2.401	2.269	2.157
2020	3.038	2.713	2.448	2.23	2.052	1.908	1.791	1.689	1.601	1.525
2025	2.234	2.008	1.821	1.667	1.54	1.438	1.355	1.283	1.219	1.163
2030	1.84	1.657	1.506	1.381	1.278	1.196	1.13	1.071	1.02	0.975
2035	1.625	1.464	1.331	1.221	1.131	1.06	1.002	0.952	0.907	0.868
2040	1.509	1.358	1.233	1.13	1.047	0.981	0.928	0.882	0.842	0.806

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	1,008	N-S Road	1,219
E-W Road	1,197	E-W Road	1,426
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	3.7	2.7	2.2	*	1,008	*	3.04	÷	100,000
E-W Road	14.0	7.6	5.7	*	1,197	*	3.04	÷	100,000
P.M. Peak Hour									
N-S Road	3.7	2.7	2.2	*	1,219	*	3.04	÷	100,000
E-W Road	14.0	7.6	5.7	*	1,426	*	3.04	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
0 Feet from Roadway Edge	2.6	2.7	1.8
25 Feet from Roadway Edge	2.4	2.4	1.6
50 Feet from Roadway Edge	2.3	2.3	1.5

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2007

Project Title: Via Princessa East Roadway Extension
 Intersection: Via Princessa and Whites Canyon
 Analysis Condition: Interim Year - No Build
 Nearest Air Monitoring Station measuring CO: SRA 13 - Santa Clarita Valley
 Background 1-hour CO Concentration (ppm): 2.0
 Background 8-hour CO Concentration (ppm): 1.3
 Persistence Factor: 0.7
 Analysis Year: 2020

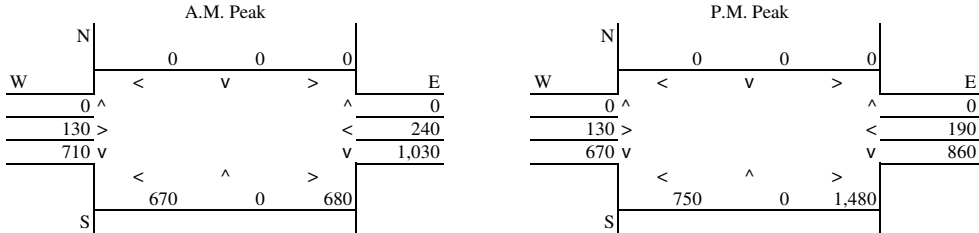
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway: Via Princessa	AT GRADE	0	5	5
East-West Roadway: Whites Canyon	AT GRADE	4	5	5

EMFAC2007 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 44 degrees F and 64% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2008	8.877	7.732	6.829	6.108	5.526	5.057	4.682	4.371	4.114	3.903
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
2012	5.983	5.255	4.674	4.206	3.826	3.519	3.273	3.066	2.891	2.745
2013	5.437	4.787	4.267	3.846	3.504	3.228	3.006	2.818	2.66	2.526
2014	4.963	4.38	3.911	3.531	3.222	2.972	2.771	2.601	2.456	2.333
2015	4.534	4.01	3.588	3.244	2.964	2.739	2.556	2.401	2.269	2.157
2020	3.038	2.713	2.448	2.23	2.052	1.908	1.791	1.689	1.601	1.525
2025	2.234	2.008	1.821	1.667	1.54	1.438	1.355	1.283	1.219	1.163
2030	1.84	1.657	1.506	1.381	1.278	1.196	1.13	1.071	1.02	0.975
2035	1.625	1.464	1.331	1.221	1.131	1.06	1.002	0.952	0.907	0.868
2040	1.509	1.358	1.233	1.13	1.047	0.981	0.928	0.882	0.842	0.806

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	3,090	N-S Road	3,760
E-W Road	2,080	E-W Road	2,660
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	0.0	0.0	0.0	*	3,090	*	3.04	÷	100,000
E-W Road	3.3	2.6	2.2	*	2,080	*	3.04	÷	100,000
P.M. Peak Hour									
N-S Road	0.0	0.0	0.0	*	3,760	*	3.04	÷	100,000
E-W Road	3.3	2.6	2.2	*	2,660	*	3.04	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
0 Feet from Roadway Edge	2.2	2.3	1.5
25 Feet from Roadway Edge	2.2	2.2	1.4
50 Feet from Roadway Edge	2.1	2.2	1.4

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2007

Project Title: Via Princesa East Roadway Extension
 Intersection: Golden Valley and Via Princesa
 Analysis Condition: Interim Year - Build
 Nearest Air Monitoring Station measuring CO: SRA 13 - Santa Clarita Valley
 Background 1-hour CO Concentration (ppm): 2.0
 Background 8-hour CO Concentration (ppm): 1.3
 Persistence Factor: 0.7
 Analysis Year: 2020

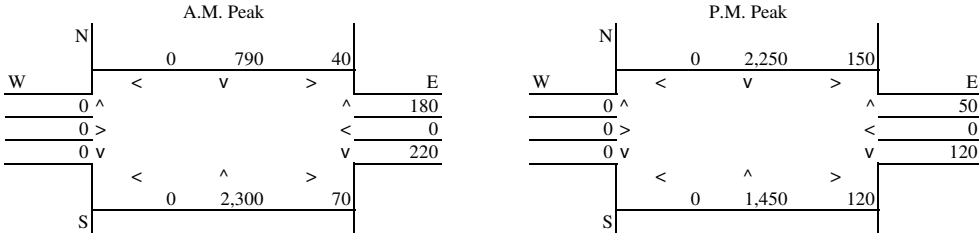
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway:	Golden Valley	4	5	5
East-West Roadway:	Via Princesa	0	5	5

EMFAC2007 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 44 degrees F and 64% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2008	8.877	7.732	6.829	6.108	5.526	5.057	4.682	4.371	4.114	3.903
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2025	2.234	2.008	1.821	1.667	1.54	1.438	1.355	1.283	1.219	1.163
2030	1.84	1.657	1.506	1.381	1.278	1.196	1.13	1.071	1.02	0.975
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2040	1.509	1.358	1.233	1.13	1.047	0.981	0.928	0.882	0.842	0.806

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	3,380	N-S Road	3,940
E-W Road	510	E-W Road	440
Primary Road =	N-S Road	Primary Road =	N-S Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations			Emission Factor	Traffic Volume	Emission Factor	÷	100,000
	0 Feet	25 Feet	50 Feet					
A.M. Peak Hour								
N-S Road	11.9	7.0	5.4	*	3,380	*	3.04	÷ 100,000
E-W Road	0.0	0.0	0.0	*	510	*	3.04	÷ 100,000
P.M. Peak Hour								
N-S Road	11.9	7.0	5.4	*	3,940	*	3.04	÷ 100,000
E-W Road	0.0	0.0	0.0	*	440	*	3.04	÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
0 Feet from Roadway Edge	3.2	3.4	2.3
25 Feet from Roadway Edge	2.7	2.8	1.9
50 Feet from Roadway Edge	2.6	2.6	1.8

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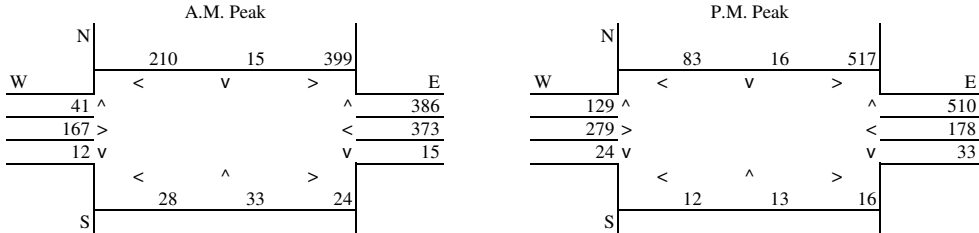
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway: Rainbow Glen	AT GRADE	2	5	5
East-West Roadway: Via Princessa	AT GRADE	4	5	5

EMFAC2007 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
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2025	2.234	2.008	1.821	1.667	1.54	1.438	1.355	1.283	1.219	1.163
2030	1.84	1.657	1.506	1.381	1.278	1.196	1.13	1.071	1.02	0.975
2035	1.625	1.464	1.331	1.221	1.131	1.06	1.002	0.952	0.907	0.868
2040	1.509	1.358	1.233	1.13	1.047	0.981	0.928	0.882	0.842	0.806

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	1,084	N-S Road	1,268
E-W Road	1,364	E-W Road	1,533
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	3.7	2.7	2.2	*	1,084	*	3.04	÷	100,000
E-W Road	11.9	7.0	5.4	*	1,364	*	3.04	÷	100,000
P.M. Peak Hour									
N-S Road	3.7	2.7	2.2	*	1,268	*	3.04	÷	100,000
E-W Road	11.9	7.0	5.4	*	1,533	*	3.04	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
0 Feet from Roadway Edge	2.6	2.7	1.8
25 Feet from Roadway Edge	2.4	2.4	1.6
50 Feet from Roadway Edge	2.3	2.3	1.5

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2007

Project Title: Via Princessa East Roadway Extension
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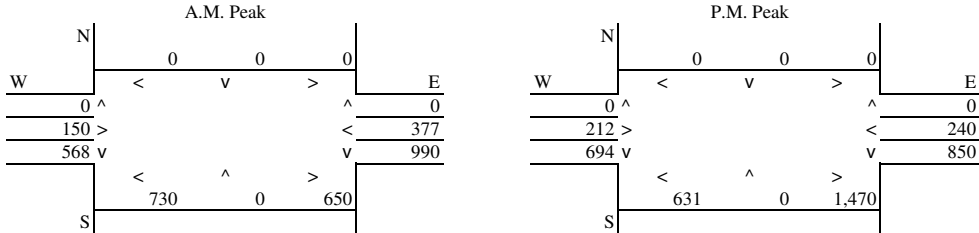
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway: Via Princessa	AT GRADE	0	5	5
East-West Roadway: Whites Canyon	AT GRADE	4	5	5

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Air Basin: South Coast County: Los Angeles
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2030	1.84	1.657	1.506	1.381	1.278	1.196	1.13	1.071	1.02	0.975
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2040	1.509	1.358	1.233	1.13	1.047	0.981	0.928	0.882	0.842	0.806

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	2,938	N-S Road	3,645
E-W Road	2,167	E-W Road	2,772
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	0.0	0.0	0.0	* 2,938	* 3.04 ÷ 100,000
E-W Road	3.3	2.6	2.2	* 2,167	* 3.04 ÷ 100,000
P.M. Peak Hour					
N-S Road	0.0	0.0	0.0	* 3,645	* 3.04 ÷ 100,000
E-W Road	3.3	2.6	2.2	* 2,772	* 3.04 ÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
0 Feet from Roadway Edge	2.2	2.3	1.5
25 Feet from Roadway Edge	2.2	2.2	1.5
50 Feet from Roadway Edge	2.1	2.2	1.4

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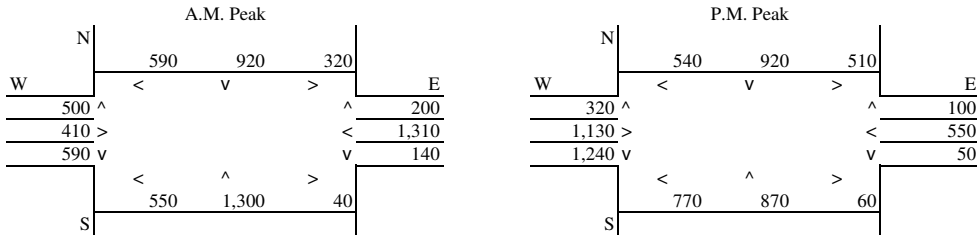
	Roadway Type	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway:	Golden Valley	6	5	5
East-West Roadway:	Via Princesa	6	5	5

EMFAC2007 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
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PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	3,830	N-S Road	3,910
E-W Road	3,950	E-W Road	4,550
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	*	3,830	*	1.51	÷	100,000
E-W Road	9.5	6.1	4.9	*	3,950	*	1.51	÷	100,000
P.M. Peak Hour									
N-S Road	2.8	2.3	2.0	*	3,910	*	1.51	÷	100,000
E-W Road	9.5	6.1	4.9	*	4,550	*	1.51	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
0 Feet from Roadway Edge	2.7	2.8	1.9
25 Feet from Roadway Edge	2.5	2.6	1.7
50 Feet from Roadway Edge	2.4	2.5	1.6

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 Persistence Factor: 0.7
 Analysis Year: 2040

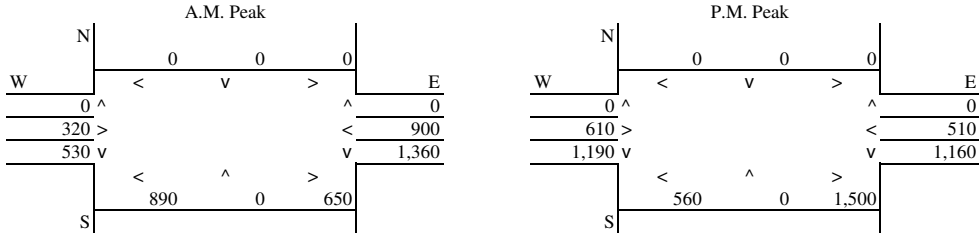
Roadway Type	Via Princessa Whites Canyon	No. of Lanes	Approach/Departure Speed	
			A.M.	P.M.
North-South Roadway:	Via Princessa	0	5	5
East-West Roadway:	Whites Canyon	4	5	5

EMFAC2007 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Coast County: Los Angeles
 Assumes lowest mean wintertime temperature of 44 degrees F and 64% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2008	8.877	7.732	6.829	6.108	5.526	5.057	4.682	4.371	4.114	3.903
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
2012	5.983	5.255	4.674	4.206	3.826	3.519	3.273	3.066	2.891	2.745
2013	5.437	4.787	4.267	3.846	3.504	3.228	3.006	2.818	2.66	2.526
2014	4.963	4.38	3.911	3.531	3.222	2.972	2.771	2.601	2.456	2.333
2015	4.534	4.01	3.588	3.244	2.964	2.739	2.556	2.401	2.269	2.157
2020	3.038	2.713	2.448	2.23	2.052	1.908	1.791	1.689	1.601	1.525
2025	2.234	2.008	1.821	1.667	1.54	1.438	1.355	1.283	1.219	1.163
2030	1.84	1.657	1.506	1.381	1.278	1.196	1.13	1.071	1.02	0.975
2035	1.625	1.464	1.331	1.221	1.131	1.06	1.002	0.952	0.907	0.868
2040	1.509	1.358	1.233	1.13	1.047	0.981	0.928	0.882	0.842	0.806

PEAK HOUR TURNING VOLUMES



Representative Traffic Volumes (Vehicles per Hour)

N-S Road	3,430	N-S Road	4,410
E-W Road	3,230	E-W Road	3,780
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	0.0	0.0	0.0	* 3,430	* 1.51 ÷ 100,000
E-W Road	3.3	2.6	2.2	* 3,230	* 1.51 ÷ 100,000
P.M. Peak Hour					
N-S Road	0.0	0.0	0.0	* 4,410	* 1.51 ÷ 100,000
E-W Road	3.3	2.6	2.2	* 3,780	* 1.51 ÷ 100,000

TOTAL CO CONCENTRATIONS (ppm)

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
0 Feet from Roadway Edge	2.2	2.2	1.4
25 Feet from Roadway Edge	2.1	2.1	1.4
50 Feet from Roadway Edge	2.1	2.1	1.4