

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

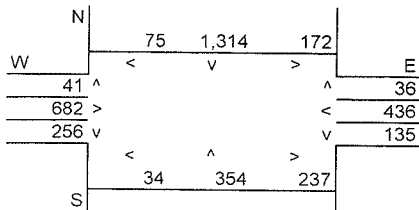
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

Roadway Data

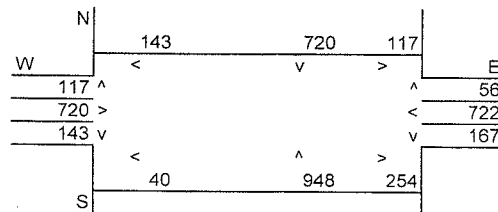
Intersection: Ave. of the Stars/Santa Monica Blvd. (n)
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	Ave. of the Stars	4	15	20
East-West Roadway:	Santa Monica Blvd. (n)	4	15	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,330	N-S Road:	2,272
E-W Road:	1,698	E-W Road:	2,036

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,330	8.10	2.25	1.32	1.02	0.72
East-West Road	3.3	2.6	2.2	1.7	1,698	8.10	0.45	0.36	0.30	0.23
P.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,272	6.93	1.87	1.10	0.85	0.60
East-West Road	3.3	2.6	2.2	1.7	2,036	6.93	0.47	0.37	0.31	0.24

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	8.5	8.0	3.5
25 Feet from Roadway Edge	7.5	7.3	3.5
50 Feet from Roadway Edge	7.1	7.0	3.3
100 Feet from Roadway Edge	6.8	6.6	3.0

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

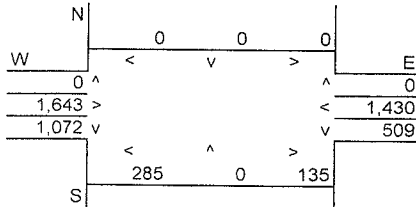
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

Roadway Data

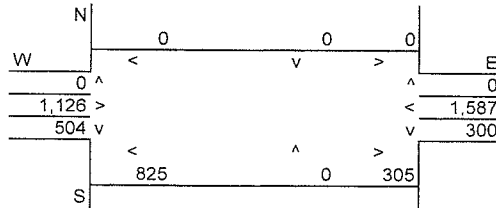
Intersection: Ave. of the Stars/Santa Monica Blvd. (s)
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: Ave. of the Stars	At Grade	4	20	20
East-West Roadway: Santa Monica Blvd. (n)	At Grade	4	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road: 2,001
 E-W Road: 4,430

N-S Road: 1,934
 E-W Road: 4,042

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	3.3	2.6	2.2	1.7	2,001	6.93	0.46	0.36	0.31	0.24
East-West Road	11.9	7.0	5.4	3.8	4,430	6.93	3.65	2.15	1.66	1.17
P.M. Peak Traffic Hour										
North-South Road	3.3	2.6	2.2	1.7	1,934	6.93	0.44	0.35	0.29	0.23
East-West Road	11.9	7.0	5.4	3.8	4,042	6.93	3.33	1.96	1.51	1.06

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	9.9	8.2	4.1
25 Feet from Roadway Edge	8.3	8.1	4.1
50 Feet from Roadway Edge	7.8	7.6	3.7
100 Feet from Roadway Edge	7.2	7.1	3.3

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

Roadway Data

Intersection: Ave. of the Stars/Constellation Blvd.
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: Ave. of the Stars	At Grade	4	20	20
East-West Roadway: Constellation Boulevard	At Grade	4	20	20

A.M. Peak Hour Traffic Volumes

N	172	552	457	E
W	<	v	>	
	80 ^			118 ^
	308 >			75 <
	45 v			47 v
	<	^	>	
S	234	1,008	563	

P.M. Peak Hour Traffic Volumes

N	241	975	220	E
W	<	v	>	
	134 ^			251 ^
	218 >			411 <
	261 v			180 v
	<	^	>	
S	260	749	266	

Highest Traffic Volumes (Vehicles per Hour)

N-S Road: 2,449
 E-W Road: 1,568

N-S Road: 2,691
 E-W Road: 1,546

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,449	6.93	2.02	1.19	0.92	0.65
East-West Road	3.3	2.6	2.2	1.7	1,568	6.93	0.36	0.28	0.24	0.18
P.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,691	6.93	2.22	1.31	1.01	0.71
East-West Road	3.3	2.6	2.2	1.7	1,546	6.93	0.35	0.28	0.24	0.18

¹ Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	8.2	8.3	3.4
25 Feet from Roadway Edge	7.3	7.4	3.4
50 Feet from Roadway Edge	7.0	7.0	3.2
100 Feet from Roadway Edge	6.6	6.7	3.0

² Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

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Project Title: St. Regis

Background Information

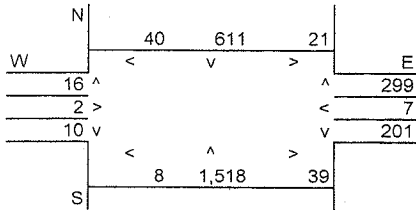
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

Roadway Data

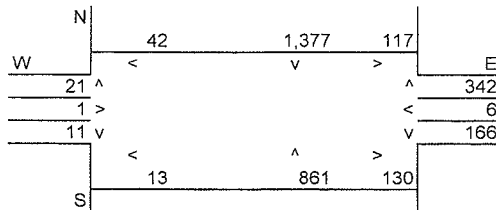
Intersection: Ave. of the Stars/Olympic Blvd. (wb)
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: Ave. of the Stars	At Grade	4	20	20
East-West Roadway: Olympic Boulevard	At Grade	2	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road: 2,505
 E-W Road: 569

N-S Road: 2,760
 E-W Road: 762

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,505	6.93	2.07	1.22	0.94	0.66
East-West Road	3.7	2.7	2.2	1.7	569	6.93	0.15	0.11	0.09	0.07
P.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,760	6.93	2.28	1.34	1.03	0.73
East-West Road	3.7	2.7	2.2	1.7	762	6.93	0.20	0.14	0.12	0.09

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	8.0	8.2	3.4
25 Feet from Roadway Edge	7.1	7.3	3.4
50 Feet from Roadway Edge	6.8	6.9	3.1
100 Feet from Roadway Edge	6.5	6.6	2.9

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

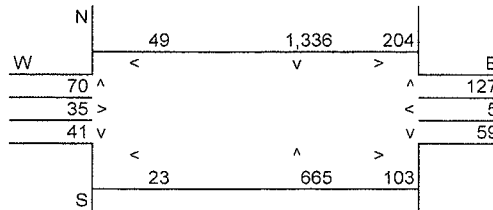
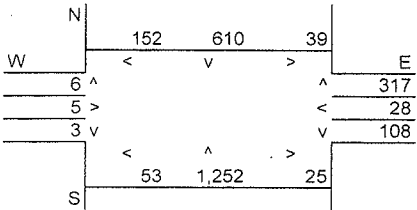
Roadway Data

Intersection: Ave. of the Stars/Olympic Blvd. (eb)
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: Ave. of the Stars	At Grade	4	20	20
East-West Roadway: Olympic Boulevard	At Grade	2	20	20

A.M. Peak Hour Traffic Volumes

P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,376	N-S Road:	2,451
E-W Road:	522	E-W Road:	533

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,376	6.93	1.96	1.15	0.89	0.63
East-West Road	3.7	2.7	2.2	1.7	522	6.93	0.13	0.10	0.08	0.06
P.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,451	6.93	2.02	1.19	0.92	0.65
East-West Road	3.7	2.7	2.2	1.7	533	6.93	0.14	0.10	0.08	0.06

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	7.9	7.9	3.2
25 Feet from Roadway Edge	7.1	7.1	3.2
50 Feet from Roadway Edge	6.8	6.8	3.0
100 Feet from Roadway Edge	6.5	6.5	2.8

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

Roadway Data

Intersection: Ave. of the Stars/Galaxy Way
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: Ave. of the Stars	At Grade	4	20	20
East-West Roadway: Galaxy Way	At Grade	2	20	20

A.M. Peak Hour Traffic Volumes

N	316	426	48	E
W	<	v	>	
19 ^				63
3 >				33
16 v				23
S	316	1,289	27	

P.M. Peak Hour Traffic Volumes

N	26	1,426	123	E
W	<	v	>	
165 ^				48
27 >				3
251 v				49
S	14	571	51	

Highest Traffic Volumes (Vehicles per Hour)

N-S Road: 2,161
 E-W Road: 703

N-S Road: 2,362
 E-W Road: 486

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,161	6.93	1.78	1.05	0.81	0.57
East-West Road	3.7	2.7	2.2	1.7	703	6.93	0.18	0.13	0.11	0.08
P.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,362	6.93	1.95	1.15	0.88	0.62
East-West Road	3.7	2.7	2.2	1.7	486	6.93	0.12	0.09	0.07	0.06

¹ Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	7.8	7.8	3.2
25 Feet from Roadway Edge	7.0	7.0	3.2
50 Feet from Roadway Edge	6.7	6.8	3.0
100 Feet from Roadway Edge	6.5	6.5	2.8

² Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

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Background Information

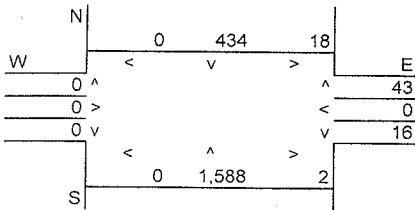
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

Roadway Data

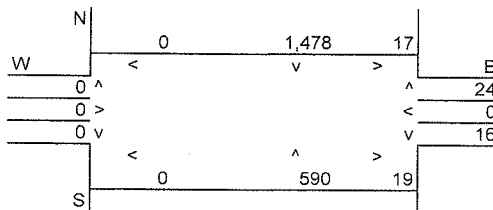
Intersection: Ave. of the Stars/Empyrean Way
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	Ave. of the Stars	4	20	20
East-West Roadway:	Empyrean Way	2	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road: 2,083
 E-W Road: 79

N-S Road: 2,109
 E-W Road: 76

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,083	6.93	1.72	1.01	0.78	0.55
East-West Road	3.7	2.7	2.2	1.7	79	6.93	0.02	0.01	0.01	0.01
P.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,109	6.93	1.74	1.02	0.79	0.56
East-West Road	3.7	2.7	2.2	1.7	76	6.93	0.02	0.01	0.01	0.01

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	7.5	7.6	3.1
25 Feet from Roadway Edge	6.8	6.8	3.1
50 Feet from Roadway Edge	6.6	6.6	2.9
100 Feet from Roadway Edge	6.4	6.4	2.7

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

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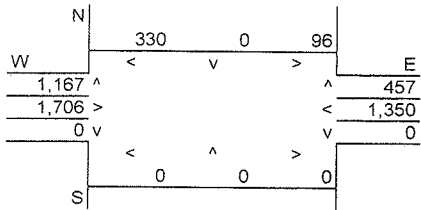
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 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

Roadway Data

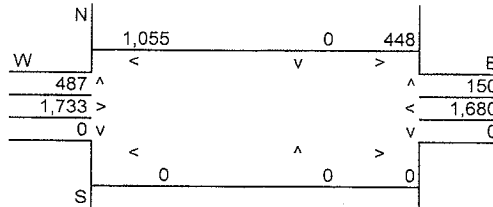
Intersection: Ave. of the Stars/Pico Boulevard
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	Ave. of the Stars	4	10	10
East-West Roadway:	Pico Boulevard	6	10	10

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road: 2,050
 E-W Road: 4,553

N-S Road: 2,140
 E-W Road: 4,955

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	3.3	2.6	2.2	1.7	2,050	9.74	0.66	0.52	0.44	0.34
East-West Road	9.5	6.1	4.9	3.5	4,553	9.74	4.21	2.70	2.17	1.55
P.M. Peak Traffic Hour										
North-South Road	3.3	2.6	2.2	1.7	2,140	9.74	0.69	0.54	0.46	0.35
East-West Road	9.5	6.1	4.9	3.5	4,955	9.74	4.58	2.94	2.36	1.69

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	10.7	9.4	4.8
25 Feet from Roadway Edge	9.0	9.3	4.8
50 Feet from Roadway Edge	8.4	8.6	4.3
100 Feet from Roadway Edge	7.7	7.8	3.8

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

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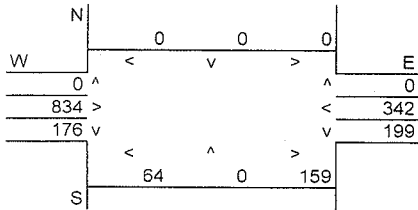
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

Roadway Data

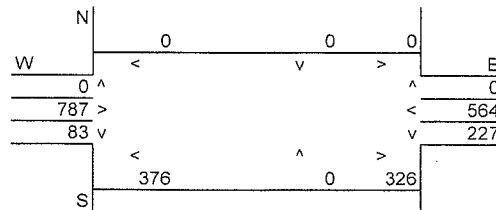
Intersection: Santa Monica Boulevard (s) & Century Park West
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed		
			A.M.	P.M.	
North-South Roadway:	Santa Monica Boulevard (s)	At Grade	6	20	20
East-West Roadway:	Century Park West	At Grade	4	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	598	N-S Road:	1,012
E-W Road:	1,534	E-W Road:	1,904

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	598	6.93	0.12	0.10	0.08	0.07
East-West Road	11.9	7.0	5.4	3.8	1,534	6.93	1.27	0.74	0.57	0.40
P.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	1,012	6.93	0.20	0.16	0.14	0.12
East-West Road	11.9	7.0	5.4	3.8	1,904	6.93	1.57	0.92	0.71	0.50

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	7.2	6.9	3.1
25 Feet from Roadway Edge	6.6	6.9	3.1
50 Feet from Roadway Edge	6.5	6.7	2.9
100 Feet from Roadway Edge	6.3	6.4	2.8

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

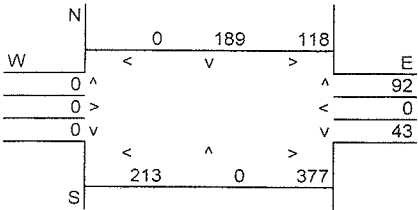
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

Roadway Data

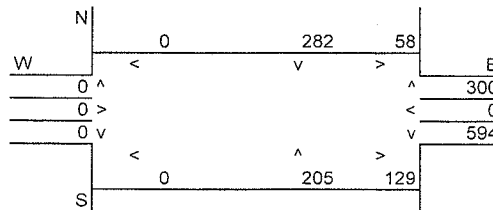
Intersection: Constellation Boulevard & Century Park West
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	Constellation Boulevard	4	20	20
East-West Roadway:	Century Park West	4	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	822	N-S Road:	1,210
E-W Road:	630	E-W Road:	1,081

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	822	6.93	0.68	0.40	0.31	0.22
East-West Road	3.3	2.6	2.2	1.7	630	6.93	0.14	0.11	0.10	0.07
P.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	1,210	6.93	1.00	0.59	0.45	0.32
East-West Road	3.3	2.6	2.2	1.7	1,081	6.93	0.25	0.19	0.16	0.13

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	6.6	7.0	2.9
25 Feet from Roadway Edge	6.3	6.6	2.9
50 Feet from Roadway Edge	6.2	6.4	2.8
100 Feet from Roadway Edge	6.1	6.2	2.6

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

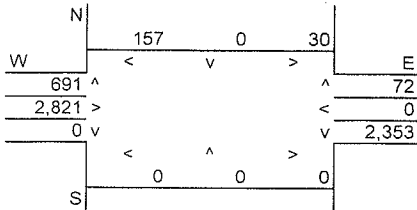
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

Roadway Data

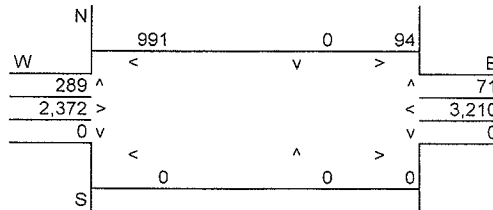
Intersection: Olympic Boulevard & Century Park West
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	Olympic Boulevard	6	20	5
East-West Roadway:	Century Park West	4	20	5

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,353	N-S Road:	1,445
E-W Road:	5,276	E-W Road:	6,862

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	2,353	6.93	0.46	0.38	0.33	0.28
East-West Road	11.9	7.0	5.4	3.8	5,276	6.93	4.35	2.56	1.98	1.39
P.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	1,445	12.26	0.50	0.41	0.35	0.30
East-West Road	11.9	7.0	5.4	3.8	6,862	12.26	10.01	5.89	4.54	3.20

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	10.6	12.2	6.7
25 Feet from Roadway Edge	8.7	12.1	6.7
50 Feet from Roadway Edge	8.1	10.7	5.8
100 Feet from Roadway Edge	7.5	9.3	4.8

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

Roadway Data

Intersection: Santa Monica Boulevard (n) & Century Park East
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed		
			A.M.	P.M.	
North-South Roadway:	Santa Monica Boulevard (n)	At Grade	8	20	20
East-West Roadway:	Century Park East	At Grade	4	20	20

A.M. Peak Hour Traffic Volumes

N	56	1,266	191	E
W	<	v	>	
	19 ^			187 ^
	598 >			663 <
	368 v			213 v
	<	^	>	
S	55	276	220	

P.M. Peak Hour Traffic Volumes

N	41	301	106	E
W	<	v	>	
	80 ^			152 ^
	965 >			711 <
	144 v			130 v
	<	^	>	
S	182	935	445	

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,398	N-S Road:	2,137
E-W Road:	2,072	E-W Road:	2,509

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	A1 E.O.R.	A ₂ 25 Feet	A ₃ 50 Feet	A ₄ 100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	8.5	5.7	4.6	3.4	2,398	6.93	1.41	0.95	0.76	0.57
East-West Road	3.3	2.6	2.2	1.7	2,072	6.93	0.47	0.37	0.32	0.24
P.M. Peak Traffic Hour										
North-South Road	2.6	2.2	1.9	1.6	2,137	6.93	0.39	0.33	0.28	0.24
East-West Road	11.9	7.0	5.4	3.8	2,509	6.93	2.07	1.22	0.94	0.66

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	7.7	7.4	3.4
25 Feet from Roadway Edge	7.1	7.3	3.4
50 Feet from Roadway Edge	6.9	7.0	3.2
100 Feet from Roadway Edge	6.6	6.7	3.0

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

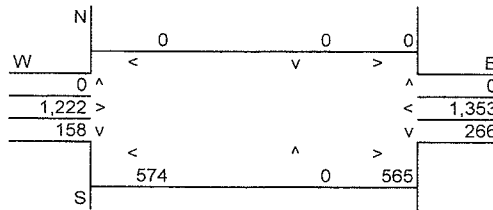
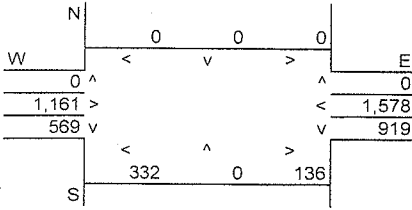
Roadway Data

Intersection: Santa Monica Boulevard (s) & Century Park East
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed		
			A.M.	P.M.	
North-South Roadway:	Santa Monica Boulevard (s)	At Grade	8	20	20
East-West Roadway:	Century Park East	At Grade	4	20	20

A.M. Peak Hour Traffic Volumes

P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,956	N-S Road:	1,563
E-W Road:	3,794	E-W Road:	3,406

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	2.6	2.2	1.9	1.6	1,956	6.93	0.35	0.30	0.26	0.22
East-West Road	11.9	7.0	5.4	3.8	3,794	6.93	3.13	1.84	1.42	1.00
P.M. Peak Traffic Hour										
North-South Road	2.6	2.2	1.9	1.6	1,563	6.93	0.28	0.24	0.21	0.17
East-West Road	11.9	7.0	5.4	3.8	3,406	6.93	2.81	1.65	1.28	0.90

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M.	P.M.	8-Hour
	Peak Hour	Peak Hour	
Roadway Edge	9.3	7.7	3.8
25 Feet from Roadway Edge	7.9	7.7	3.8
50 Feet from Roadway Edge	7.5	7.3	3.5
100 Feet from Roadway Edge	7.0	6.9	3.2

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

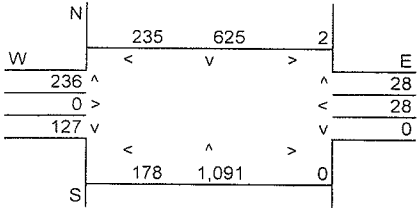
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

Roadway Data

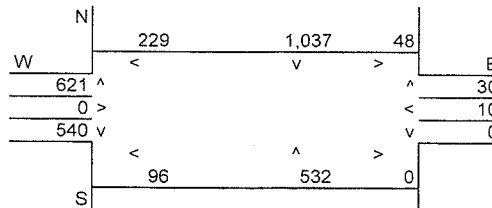
Intersection: Constellation Boulevard & Century Park East
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	Constellation Boulevard	2	20	20
East-West Roadway:	Century Park East	4	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,217	N-S Road:	2,497
E-W Road:	804	E-W Road:	1,496

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	A1 E.O.R.	A ₂ 25 Feet	A ₃ 50 Feet	A ₄ 100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	2,217	6.93	2.15	1.17	0.88	0.61
East-West Road	3.3	2.6	2.2	1.7	804	6.93	0.18	0.14	0.12	0.09
P.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	2,497	6.93	2.42	1.32	0.99	0.69
East-West Road	3.3	2.6	2.2	1.7	1,496	6.93	0.34	0.27	0.23	0.18

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

Roadway Edge	A.M.	P.M.	8-Hour
	Peak Hour	Peak Hour	
Roadway Edge	8.1	8.5	3.4
25 Feet from Roadway Edge	7.1	7.4	3.4
50 Feet from Roadway Edge	6.8	7.0	3.2
100 Feet from Roadway Edge	6.5	6.7	2.9

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

Roadway Data

Intersection: Olympic Boulevard & Century Park East
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	Olympic Boulevard	4	20	15
East-West Roadway:	Century Park East	4	20	15

A.M. Peak Hour Traffic Volumes

N	126	156	138	E
W	<	v	>	
	0	^		497
	2,065	>	<	2,791
	54	v		0
	<	^	>	
S	444	898	119	

P.M. Peak Hour Traffic Volumes

N	660	605	636	E
W	<	v	>	
	0	^		264
	2,351	>	<	2,683
	101	v		0
	<	^	>	
S	40	248	135	

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,815	N-S Road:	2,413
E-W Road:	5,610	E-W Road:	6,069

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	3.3	2.6	2.2	1.7	1,815	6.93	0.42	0.33	0.28	0.21
East-West Road	11.9	7.0	5.4	3.8	5,610	6.93	4.63	2.72	2.10	1.48
P.M. Peak Traffic Hour										
North-South Road	3.3	2.6	2.2	1.7	2,413	8.10	0.64	0.51	0.43	0.33
East-West Road	11.9	7.0	5.4	3.8	6,069	8.10	5.85	3.44	2.65	1.87

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	10.8	9.9	5.1
25 Feet from Roadway Edge	8.8	9.7	5.1
50 Feet from Roadway Edge	8.2	8.9	4.5
100 Feet from Roadway Edge	7.5	8.0	3.9

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

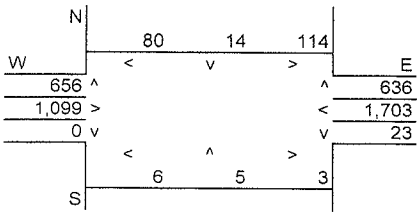
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

Roadway Data

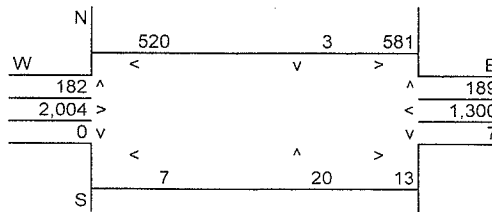
Intersection: Pico Boulevard & Century Park East
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	Pico Boulevard	6	20	20
East-West Roadway:	Century Park East	4	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,505	N-S Road:	1,495
E-W Road:	3,578	E-W Road:	4,094

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	1,505	6.93	0.29	0.24	0.21	0.18
East-West Road	11.9	7.0	5.4	3.8	3,578	6.93	2.95	1.74	1.34	0.94
P.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	1,495	6.93	0.29	0.24	0.21	0.18
East-West Road	11.9	7.0	5.4	3.8	4,094	6.93	3.38	1.99	1.53	1.08

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

Roadway Edge	A.M.	P.M.	8-Hour
	Peak Hour	Peak Hour	
Roadway Edge	9.0	8.1	3.9
25 Feet from Roadway Edge	7.8	8.0	3.9
50 Feet from Roadway Edge	7.3	7.5	3.5
100 Feet from Roadway Edge	6.9	7.1	3.2

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

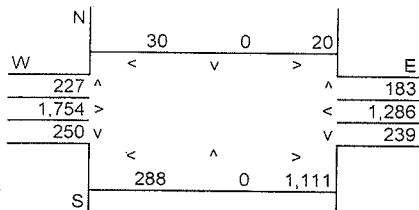
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

Roadway Data

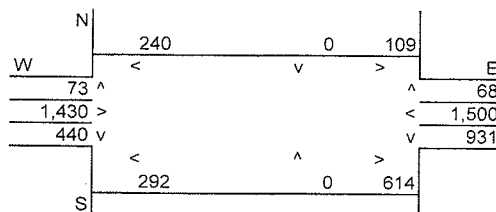
Intersection: Pico Boulevard & Motor Avenue
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: Pico Boulevard	At Grade	6	5	5
East-West Roadway: Motor Avenue	At Grade	2	5	5

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road: 1,888
 E-W Road: 4,593

N-S Road: 2,277
 E-W Road: 4,652

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	A1 E.O.R.	A ₂ 25 Feet	A ₃ 50 Feet	A ₄ 100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	1,888	12.26	0.65	0.53	0.46	0.39
East-West Road	14.0	7.6	5.7	4.0	4,593	12.26	7.89	4.28	3.21	2.25
P.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	2,277	12.26	0.78	0.64	0.56	0.47
East-West Road	14.0	7.6	5.7	4.0	4,652	12.26	7.99	4.34	3.25	2.28

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	14.3	10.9	5.8
25 Feet from Roadway Edge	10.6	10.8	5.8
50 Feet from Roadway Edge	9.5	9.6	5.0
100 Feet from Roadway Edge	8.4	8.6	4.3

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

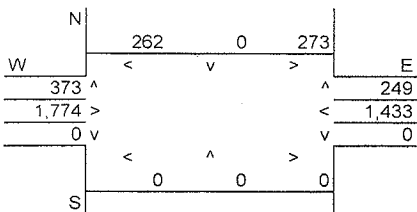
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

Roadway Data

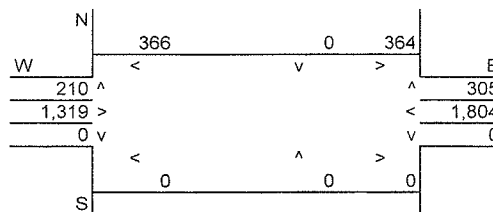
Intersection: Pico Boulevard & Beverly Glen Boulevard
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: Pico Boulevard	At Grade	6	20	20
East-West Roadway: Beverly Glen Boulevard	At Grade	2	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,157	N-S Road:	1,245
E-W Road:	3,842	E-W Road:	3,792

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	1,157	6.93	0.22	0.18	0.16	0.14
East-West Road	14.0	7.6	5.7	4.0	3,842	6.93	3.73	2.02	1.52	1.07
P.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	1,245	6.93	0.24	0.20	0.17	0.15
East-West Road	14.0	7.6	5.7	4.0	3,792	6.93	3.68	2.00	1.50	1.05

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

Roadway Edge	A.M.	P.M.	8-Hour
	Peak Hour	Peak Hour	
Roadway Edge	9.8	8.0	3.9
25 Feet from Roadway Edge	8.0	8.0	3.9
50 Feet from Roadway Edge	7.5	7.5	3.5
100 Feet from Roadway Edge	7.0	7.0	3.2

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

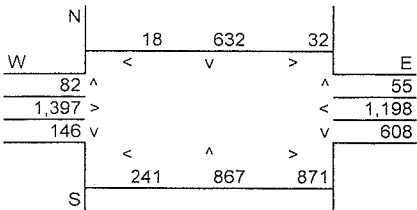
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2005

Roadway Data

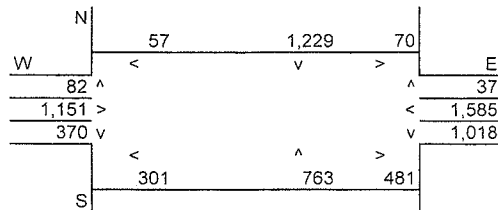
Intersection: Pico Boulevard & Overland Avenue
 Analysis Condition: Existing Traffic Volumes(2005)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	Pico Boulevard	At Grade	6	5
East-West Roadway:	Overland Avenue	At Grade	2	5

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	3,365	N-S Road:	4,162
E-W Road:	4,161	E-W Road:	4,342

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	3,365	12.26	1.16	0.95	0.83	0.70
East-West Road	14.0	7.6	5.7	4.0	4,161	12.26	7.14	3.88	2.91	2.04
P.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	4,162	12.26	1.43	1.17	1.02	0.87
East-West Road	14.0	7.6	5.7	4.0	4,342	12.26	7.46	4.05	3.04	2.13

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	14.1	11.3	6.0
25 Feet from Roadway Edge	10.6	11.0	6.0
50 Feet from Roadway Edge	9.5	9.9	5.2
100 Feet from Roadway Edge	8.5	8.8	4.4

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

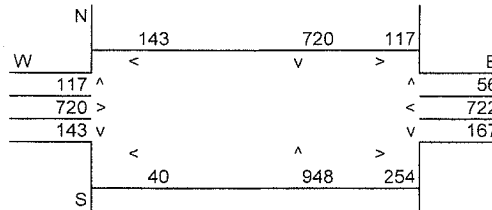
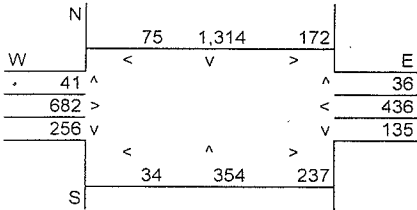
Roadway Data

Intersection: Ave. of the Stars/Santa Monica Blvd. (n)
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: Ave. of the Stars	At Grade	4	5	10
East-West Roadway: Santa Monica Blvd. (n)	At Grade	4	5	10

A.M. Peak Hour Traffic Volumes

P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,330	N-S Road:	2,272
E-W Road:	1,698	E-W Road:	2,036

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,330	8.61	2.39	1.40	1.08	0.76
East-West Road	3.3	2.6	2.2	1.7	1,698	8.61	0.48	0.38	0.32	0.25
P.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,272	6.92	1.87	1.10	0.85	0.60
East-West Road	3.3	2.6	2.2	1.7	2,036	6.92	0.46	0.37	0.31	0.24

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	8.7	8.0	3.6
25 Feet from Roadway Edge	7.6	7.3	3.6
50 Feet from Roadway Edge	7.2	7.0	3.3
100 Feet from Roadway Edge	6.8	6.6	3.0

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

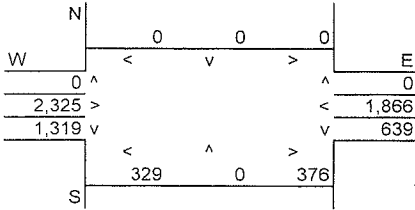
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

Roadway Data

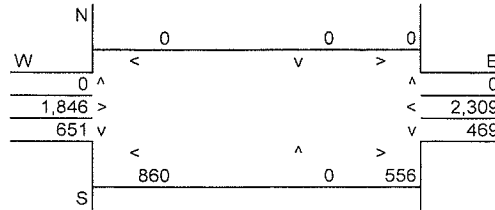
Intersection: Ave. of the Stars/Santa Monica Blvd. (s)
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	Ave. of the Stars	4	5	10
East-West Roadway:	Santa Monica Blvd. (n)	4	5	10

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,663	N-S Road:	2,536
E-W Road:	5,839	E-W Road:	5,666

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	3.3	2.6	2.2	1.7	2,663	8.61	0.76	0.60	0.50	0.39
East-West Road	11.9	7.0	5.4	3.8	5,839	8.61	5.98	3.52	2.71	1.91
P.M. Peak Traffic Hour										
North-South Road	3.3	2.6	2.2	1.7	2,536	6.92	0.58	0.46	0.39	0.30
East-West Road	11.9	7.0	5.4	3.8	5,666	6.92	4.67	2.74	2.12	1.49

¹ Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

Roadway Edge	A.M.	P.M.	8-Hour
	Peak Hour	Peak Hour	
Roadway Edge	12.5	9.1	5.2
25 Feet from Roadway Edge	9.9	9.0	5.2
50 Feet from Roadway Edge	9.0	8.3	4.6
100 Feet from Roadway Edge	8.1	7.6	3.9

² Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

Roadway Data

Intersection: Ave. of the Stars/Constellation Blvd.
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	Ave. of the Stars	4	20	10
East-West Roadway:	Constellation Boulevard	4	20	10

A.M. Peak Hour Traffic Volumes

N	182	657	525	E
W	<	v	>	
	102 ^			138
	372 >			88
	92 v			100
S	<	^	>	
	245	1,130	775	

P.M. Peak Hour Traffic Volumes

N	255	1,050	235	E
W	<	v	>	
	133 ^			302
	233 >			457
	570 v			328
S	<	^	>	
	279	828	287	

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,999	N-S Road:	3,342
E-W Road:	1,998	E-W Road:	1,927

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,999	4.97	1.78	1.04	0.81	0.57
East-West Road	3.3	2.6	2.2	1.7	1,998	4.97	0.33	0.26	0.22	0.17
P.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	3,342	6.92	2.75	1.62	1.25	0.88
East-West Road	3.3	2.6	2.2	1.7	1,927	6.92	0.44	0.35	0.29	0.23

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	7.9	8.9	3.7
25 Feet from Roadway Edge	7.1	7.8	3.7
50 Feet from Roadway Edge	6.8	7.3	3.4
100 Feet from Roadway Edge	6.5	6.9	3.1

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

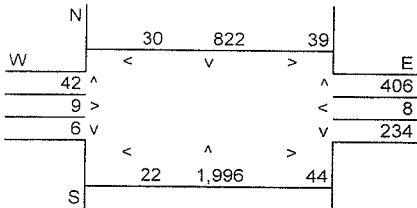
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

Roadway Data

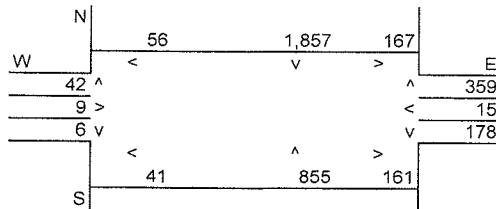
Intersection: Ave. of the Stars/Olympic Blvd. (wb)
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	Ave. of the Stars	4	20	20
East-West Roadway:	Olympic Boulevard	2	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road: 3,335
 E-W Road: 740

N-S Road: 3,336
 E-W Road: 889

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	3,335	4.97	1.97	1.16	0.90	0.63
East-West Road	3.7	2.7	2.2	1.7	740	4.97	0.14	0.10	0.08	0.06
P.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	3,336	4.97	1.97	1.16	0.90	0.63
East-West Road	3.7	2.7	2.2	1.7	889	4.97	0.16	0.12	0.10	0.08

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	7.9	7.9	3.2
25 Feet from Roadway Edge	7.1	7.1	3.2
50 Feet from Roadway Edge	6.8	6.8	3.0
100 Feet from Roadway Edge	6.5	6.5	2.8

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

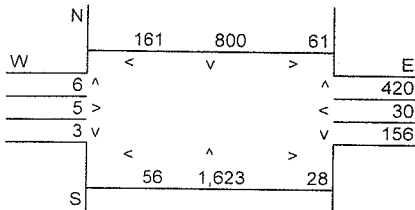
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

Roadway Data

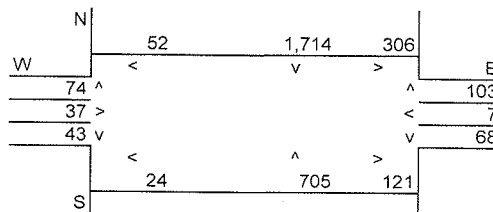
Intersection: Ave. of the Stars/Olympic Blvd. (eb)
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: Ave. of the Stars	At Grade	4	20	20
East-West Roadway: Olympic Boulevard	At Grade	2	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road: 3,071
 E-W Road: 700

N-S Road: 2,954
 E-W Road: 642

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	3,071	4.97	1.82	1.07	0.82	0.58
East-West Road	3.7	2.7	2.2	1.7	700	4.97	0.13	0.09	0.08	0.06
P.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,954	4.97	1.75	1.03	0.79	0.56
East-West Road	3.7	2.7	2.2	1.7	642	4.97	0.12	0.09	0.07	0.05

¹ Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	7.7	7.6	3.1
25 Feet from Roadway Edge	7.0	6.9	3.1
50 Feet from Roadway Edge	6.7	6.7	3.0
100 Feet from Roadway Edge	6.4	6.4	2.8

² Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

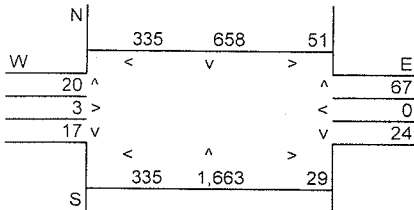
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

Roadway Data

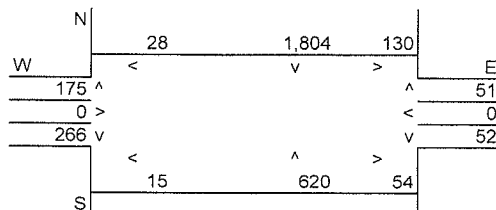
Intersection: Ave. of the Stars/Galaxy Way
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: Ave. of the Stars	At Grade	4	20	20
East-West Roadway: Galaxy Way	At Grade	2	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road: 2,794
 E-W Road: 710

N-S Road: 2,811
 E-W Road: 484

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,794	4.97	1.65	0.97	0.75	0.53
East-West Road	3.7	2.7	2.2	1.7	710	4.97	0.13	0.10	0.08	0.06
P.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,811	4.97	1.66	0.98	0.76	0.53
East-West Road	3.7	2.7	2.2	1.7	484	4.97	0.09	0.07	0.05	0.04

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	7.6	7.5	3.1
25 Feet from Roadway Edge	6.9	6.8	3.1
50 Feet from Roadway Edge	6.6	6.6	2.9
100 Feet from Roadway Edge	6.4	6.4	2.7

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

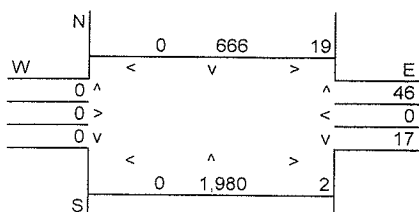
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

Roadway Data

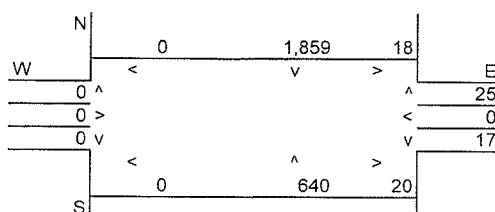
Intersection: Ave. of the Stars/Empyrean Way
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	Ave. of the Stars	4	20	20
East-West Roadway:	Empyrean Way	2	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road: 2,711
 E-W Road: 84

N-S Road: 2,542
 E-W Road: 80

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,711	4.97	1.60	0.94	0.73	0.51
East-West Road	3.7	2.7	2.2	1.7	84	4.97	0.02	0.01	0.01	0.01
P.M. Peak Traffic Hour										
North-South Road	11.9	7.0	5.4	3.8	2,542	4.97	1.50	0.89	0.68	0.48
East-West Road	3.7	2.7	2.2	1.7	80	4.97	0.01	0.01	0.01	0.01

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	7.4	7.3	3.0
25 Feet from Roadway Edge	6.8	6.7	3.0
50 Feet from Roadway Edge	6.5	6.5	2.8
100 Feet from Roadway Edge	6.3	6.3	2.7

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

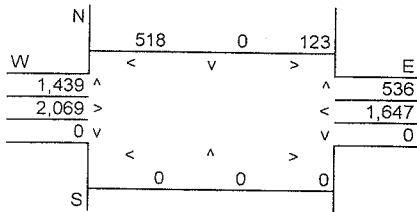
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

Roadway Data

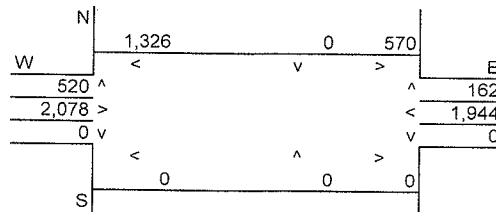
Intersection: Ave. of the Stars/Pico Boulevard
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: Ave. of the Stars	At Grade	4	5	5
East-West Roadway: Pico Boulevard	At Grade	6	5	5

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road: 2,616
 E-W Road: 5,673

N-S Road: 2,578
 E-W Road: 5,868

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	3.3	2.6	2.2	1.7	2,616	8.61	0.74	0.59	0.50	0.38
East-West Road	9.5	6.1	4.9	3.5	5,673	8.61	4.64	2.98	2.39	1.71
P.M. Peak Traffic Hour										
North-South Road	3.3	2.6	2.2	1.7	2,578	8.61	0.73	0.58	0.49	0.38
East-West Road	9.5	6.1	4.9	3.5	5,868	8.61	4.80	3.08	2.47	1.77

¹ Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	11.2	9.6	4.9
25 Feet from Roadway Edge	9.4	9.5	4.9
50 Feet from Roadway Edge	8.7	8.8	4.4
100 Feet from Roadway Edge	7.9	7.9	3.8

² Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

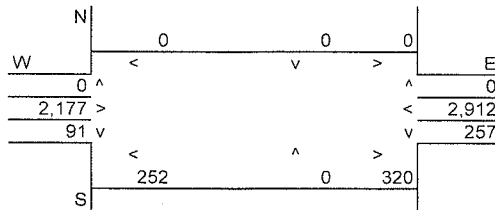
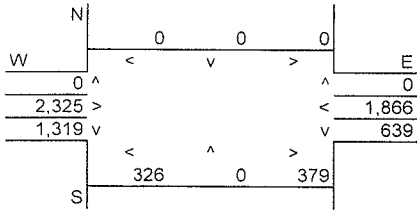
Roadway Data

Intersection: Santa Monica Boulevard (s) & Century Park West
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	Santa Monica Boulevard (s)	At Grade	6	5
East-West Roadway:	Century Park West	At Grade	4	5

A.M. Peak Hour Traffic Volumes

P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,663	N-S Road:	920
E-W Road:	5,836	E-W Road:	5,666

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	2,663	8.61	0.64	0.53	0.46	0.39
East-West Road	11.9	7.0	5.4	3.8	5,836	8.61	5.98	3.52	2.71	1.91
P.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	920	8.61	0.22	0.18	0.16	0.13
East-West Road	11.9	7.0	5.4	3.8	5,666	8.61	5.80	3.41	2.63	1.85

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	12.4	9.4	5.2
25 Feet from Roadway Edge	9.8	9.4	5.2
50 Feet from Roadway Edge	9.0	8.6	4.5
100 Feet from Roadway Edge	8.1	7.8	3.9

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

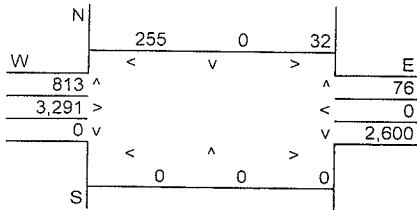
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

Roadway Data

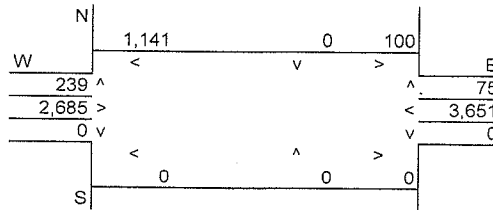
Intersection: Olympic Boulevard & Century Park West
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	Olympic Boulevard	6	10	5
East-West Roadway:	Century Park West	4	10	5

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road: 2,600
 E-W Road: 5,999

N-S Road: 1,555
 E-W Road: 7,716

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	2,600	6.92	0.50	0.41	0.36	0.31
East-West Road	11.9	7.0	5.4	3.8	5,999	6.92	4.94	2.91	2.24	1.58
P.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	1,555	8.61	0.37	0.31	0.27	0.23
East-West Road	11.9	7.0	5.4	3.8	7,716	8.61	7.90	4.65	3.59	2.52

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	11.2	10.8	5.8
25 Feet from Roadway Edge	9.1	10.8	5.8
50 Feet from Roadway Edge	8.4	9.7	5.0
100 Feet from Roadway Edge	7.7	8.6	4.3

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

Roadway Data

Intersection: Santa Monica Boulevard (n) & Century Park East
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: Santa Monica Boulevard (n)	At Grade	8	5	15
East-West Roadway: Century Park East	At Grade	4	5	15

A.M. Peak Hour Traffic Volumes

N								
W	56	1,266	191					E
	<	v	>					
	19 ^							187
	598 >							663
	368 v							213
	<	^	>					
S	55	276	220					

P.M. Peak Hour Traffic Volumes

N								
W	41	301	106					E
	<	v	>					
	80 ^							152
	965 >							711
	144 v							130
	<	^	>					
S	182	935	445					

Highest Traffic Volumes (Vehicles per Hour)

N-S Road: 2,398
 E-W Road: 2,072

N-S Road: 2,137
 E-W Road: 2,509

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	8.5	5.7	4.6	3.4	2,398	8.61	1.75	1.18	0.95	0.70
East-West Road	3.3	2.6	2.2	1.7	2,072	8.61	0.59	0.46	0.39	0.30
P.M. Peak Traffic Hour										
North-South Road	2.6	2.2	1.9	1.6	2,137	5.78	0.32	0.27	0.23	0.20
East-West Road	11.9	7.0	5.4	3.8	2,509	5.78	1.72	1.01	0.78	0.55

¹ Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Concentration = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Concentration = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	8.1	7.1	3.5
25 Feet from Roadway Edge	7.4	7.1	3.5
50 Feet from Roadway Edge	7.1	6.8	3.3
100 Feet from Roadway Edge	6.8	6.5	3.0

² Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

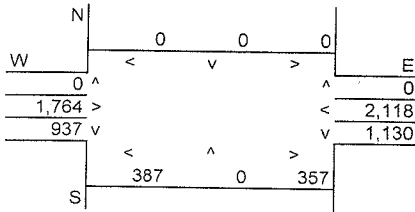
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

Roadway Data

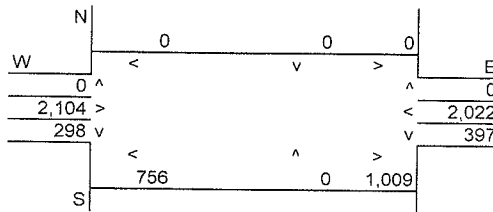
Intersection: Santa Monica Boulevard (s) & Century Park East
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: Santa Monica Boulevard (s)	At Grade	8	5	15
East-West Roadway: Century Park East	At Grade	4	5	15

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,811	N-S Road:	2,460
E-W Road:	5,369	E-W Road:	5,532

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	2.6	2.2	1.9	1.6	2,811	8.61	0.63	0.53	0.46	0.39
East-West Road	11.9	7.0	5.4	3.8	5,369	8.61	5.50	3.23	2.49	1.76
P.M. Peak Traffic Hour										
North-South Road	2.6	2.2	1.9	1.6	2,460	5.78	0.37	0.31	0.27	0.23
East-West Road	11.9	7.0	5.4	3.8	5,532	5.78	3.80	2.24	1.73	1.21

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	11.9	8.4	5.0
25 Feet from Roadway Edge	9.6	8.3	5.0
50 Feet from Roadway Edge	8.8	7.8	4.4
100 Feet from Roadway Edge	7.9	7.2	3.8

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

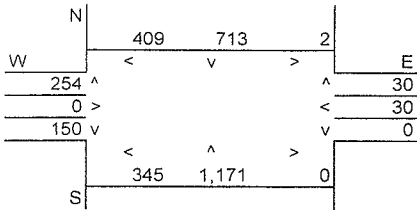
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

Roadway Data

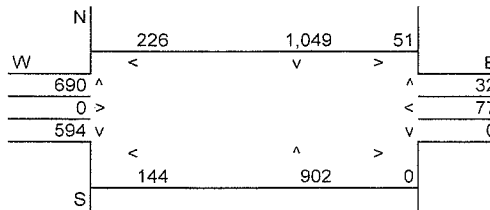
Intersection: Constellation Boulevard & Century Park East
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	Constellation Boulevard	2	20	20
East-West Roadway:	Century Park East	4	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,579	N-S Road:	2,950
E-W Road:	1,188	E-W Road:	1,731

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	2,579	4.97	1.80	0.97	0.73	0.51
East-West Road	3.3	2.6	2.2	1.7	1,188	4.97	0.20	0.15	0.13	0.10
P.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	2,950	4.97	2.05	1.12	0.84	0.59
East-West Road	3.3	2.6	2.2	1.7	1,731	4.97	0.28	0.22	0.19	0.15

¹ Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

Roadway Edge	A.M.	P.M.	8-Hour
	Peak Hour	Peak Hour	
Roadway Edge	7.8	8.1	3.3
25 Feet from Roadway Edge	6.9	7.1	3.3
50 Feet from Roadway Edge	6.7	6.8	3.0
100 Feet from Roadway Edge	6.4	6.5	2.8

² Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

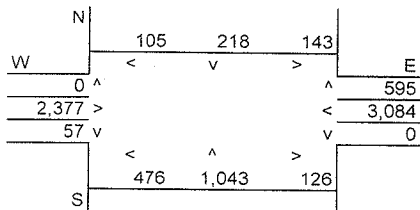
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

Roadway Data

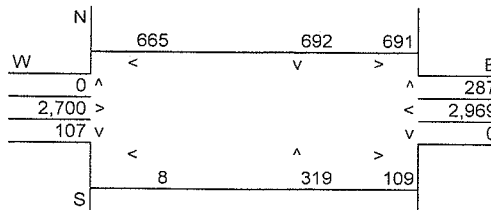
Intersection: Olympic Boulevard & Century Park East
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: Olympic Boulevard	At Grade	4	15	10
East-West Roadway: Century Park East	At Grade	4	15	10

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road: 2,104
 E-W Road: 6,325

N-S Road: 2,654
 E-W Road: 6,756

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	3.3	2.6	2.2	1.7	2,104	5.78	0.40	0.32	0.27	0.21
East-West Road	11.9	7.0	5.4	3.8	6,325	5.78	4.35	2.56	1.97	1.39
P.M. Peak Traffic Hour										
North-South Road	3.3	2.6	2.2	1.7	2,654	6.92	0.61	0.48	0.40	0.31
East-West Road	11.9	7.0	5.4	3.8	6,756	6.92	5.56	3.27	2.52	1.78

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	10.5	9.7	5.0
25 Feet from Roadway Edge	8.7	9.5	5.0
50 Feet from Roadway Edge	8.0	8.7	4.4
100 Feet from Roadway Edge	7.4	7.9	3.8

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

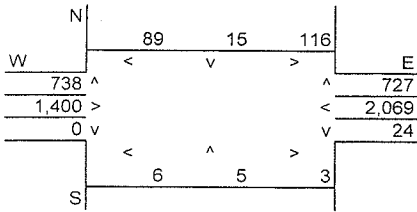
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

Roadway Data

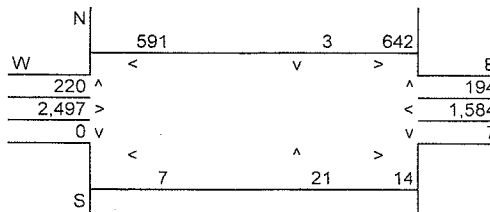
Intersection: Pico Boulevard & Century Park East
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed		
			A.M.	P.M.	
North-South Roadway:	Pico Boulevard	At Grade	6	20	15
East-West Roadway:	Century Park East	At Grade	4	20	15

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,690	N-S Road:	1,671
E-W Road:	4,339	E-W Road:	4,938

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	1,690	4.97	0.24	0.19	0.17	0.14
East-West Road	11.9	7.0	5.4	3.8	4,339	4.97	2.57	1.51	1.17	0.82
P.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	1,671	5.78	0.27	0.22	0.19	0.16
East-West Road	11.9	7.0	5.4	3.8	4,938	5.78	3.39	2.00	1.54	1.08

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	8.6	8.1	3.9
25 Feet from Roadway Edge	7.5	8.0	3.9
50 Feet from Roadway Edge	7.1	7.5	3.5
100 Feet from Roadway Edge	6.8	7.0	3.2

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

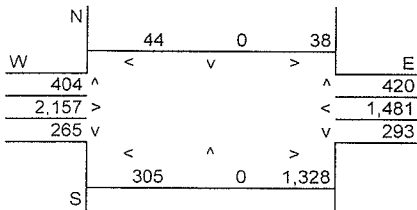
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

Roadway Data

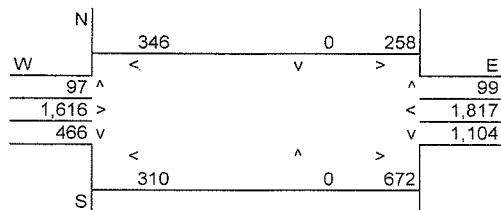
Intersection: Pico Boulevard & Motor Avenue
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	Pico Boulevard	6	5	5
East-West Roadway:	Motor Avenue	2	5	5

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,191	N-S Road:	2,552
E-W Road:	5,717	E-W Road:	5,566

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	2,191	8.61	0.53	0.43	0.38	0.32
East-West Road	14.0	7.6	5.7	4.0	5,717	8.61	6.89	3.74	2.80	1.97
P.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	2,552	8.61	0.61	0.51	0.44	0.37
East-West Road	14.0	7.6	5.7	4.0	5,566	8.61	6.71	3.64	2.73	1.92

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	13.2	10.1	5.3
25 Feet from Roadway Edge	10.0	9.9	5.3
50 Feet from Roadway Edge	9.0	9.0	4.6
100 Feet from Roadway Edge	8.1	8.1	3.9

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

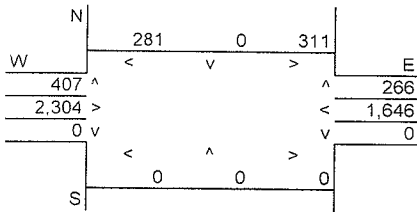
Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

Roadway Data

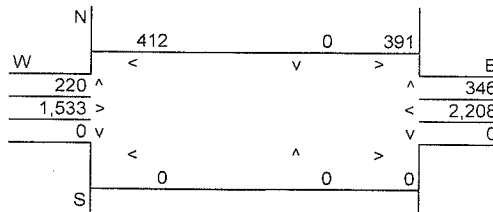
Intersection: Pico Boulevard & Beverly Glen Boulevard
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: Pico Boulevard	At Grade	6	5	20
East-West Roadway: Beverly Glen Boulevard	At Grade	2	5	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road: 1,265
 E-W Road: 4,638

N-S Road: 1,369
 E-W Road: 4,478

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				B Traffic Volume	C Emission Factors ²	Estimated CO Concentrations			
	A1 E.O.R.	A2 25 Feet	A3 50 Feet	A4 100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	1,265	8.61	0.30	0.25	0.22	0.19
East-West Road	14.0	7.6	5.7	4.0	4,638	8.61	5.59	3.03	2.27	1.60
P.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	1,369	4.97	0.19	0.16	0.14	0.12
East-West Road	14.0	7.6	5.7	4.0	4,478	4.97	3.12	1.69	1.27	0.89

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	11.7	7.7	4.6
25 Feet from Roadway Edge	9.1	7.6	4.6
50 Feet from Roadway Edge	8.3	7.2	4.1
100 Feet from Roadway Edge	7.6	6.8	3.6

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: St. Regis

Background Information

Nearest Air Monitoring Station measuring CO: West Hollywood/VA Hospital
 Background 1-hour CO Concentration (ppm): 5.8
 Background 8-hour CO Concentration (ppm): 2.3
 Persistence Factor: 0.7
 Analysis Year: 2009

Roadway Data

Intersection: Pico Boulevard & Overland Avenue
 Analysis Condition: Future Plus Project Traffic Volumes (2009)

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: Pico Boulevard	At Grade	6	5	5
East-West Roadway: Overland Avenue	At Grade	2	5	5

A.M. Peak Hour Traffic Volumes

N	19	661	34	E
W	<	v	>	
	87 ^		58 ^	
	1,775 >		1,388 <	
	155 v		651 v	
S	255	924	1,041	

P.M. Peak Hour Traffic Volumes

N	60	1,292	74	E
W	<	v	>	
	87 ^		39 ^	
	1,331 >		1,913 <	
	392 v		1,151 v	
S	319	775	485	

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	3,687	N-S Road:	4,414
E-W Road:	4,947	E-W Road:	4,993

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	3,687	8.61	0.89	0.73	0.63	0.54
East-West Road	14.0	7.6	5.7	4.0	4,947	8.61	5.96	3.24	2.43	1.70
P.M. Peak Traffic Hour										
North-South Road	2.8	2.3	2.0	1.7	4,414	8.61	1.06	0.87	0.76	0.65
East-West Road	14.0	7.6	5.7	4.0	4,993	8.61	6.02	3.27	2.45	1.72

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	12.6	10.1	5.2
25 Feet from Roadway Edge	9.8	9.9	5.2
50 Feet from Roadway Edge	8.9	9.0	4.6
100 Feet from Roadway Edge	8.0	8.2	4.0

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

URBEMIS 2002 For Windows 7.4.2

File Name: C:\Program Files\URBEMIS 2002 For Windows\Projects2k2\St. Regis.urb
 Project Name: St. Regis
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
 (Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006 ***							
TOTALS (lbs/day,unmitigated)	11.62	79.35	92.74	0.32	13.51	3.44	10.07

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007 ***							
TOTALS (lbs/day,unmitigated)	11.59	76.62	93.96	0.00	3.17	3.10	0.07

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 ***							
TOTALS (lbs/day,unmitigated)	74.94	74.12	99.71	0.00	2.95	2.81	0.14

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	0.37	1.61	2.42	0.00	0.01

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	21.19	24.16	258.80	0.15	23.36

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	21.56	25.77	261.22	0.15	23.37

URBEMIS 2002 For Windows 7.4.2

File Name: C:\Program Files\URBEMIS 2002 For Windows\Projects2k2\St. Regis.urb
 Project Name: St. Regis
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Summer)

Construction Start Month and Year: January, 2006
 Construction Duration: 30
 Total Land Use Area to be Developed: 3.8 acres
 Maximum Acreage Disturbed Per Day: 1 acres
 Single Family Units: 0 Multi-Family Units: 147
 Retail/Office/Institutional/Industrial Square Footage: 50000

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	5.89	-	5.89
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.99	22.29	3.71	0.32	0.51	0.43	0.08
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.99	22.29	3.71	0.32	6.40	0.43	5.97
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	10.00	-	10.00
Off-Road Diesel	6.24	38.59	52.16	-	1.33	1.33	0.00
On-Road Diesel	0.71	15.92	2.65	0.23	0.36	0.30	0.06
Worker Trips	0.04	0.02	0.46	0.00	0.01	0.00	0.01
Maximum lbs/day	6.99	54.53	55.27	0.23	11.70	1.63	10.07
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	11.18	79.10	87.48	-	3.43	3.43	0.00
Bldg Const Worker Trips	0.44	0.25	5.26	0.00	0.07	0.00	0.07
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	11.62	79.35	92.74	0.00	3.51	3.44	0.07
Max lbs/day all phases	11.62	79.35	92.74	0.32	13.51	3.44	10.07
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	11.18	76.38	89.01	-	3.10	3.10	0.00
Bldg Const Worker Trips	0.41	0.23	4.95	0.00	0.07	0.00	0.07
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	11.59	76.62	93.96	0.00	3.17	3.10	0.07
Max lbs/day all phases	11.59	76.62	93.96	0.00	3.17	3.10	0.07

*** 2008***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	11.18	73.68	90.49	-	2.81	2.81	0.00
Bldg Const Worker Trips	0.38	0.22	4.61	0.00	0.07	0.00	0.07
Arch Coatings Off-Gas	63.01	-	-	-	-	-	-
Arch Coatings Worker Trips	0.38	0.22	4.61	0.00	0.07	0.00	0.07
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	74.94	74.12	99.71	0.00	2.95	2.81	0.14
Max lbs/day all phases	74.94	74.12	99.71	0.00	2.95	2.81	0.14

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jan '06
 Phase 1 Duration: 1.5 months
 Building Volume Total (cubic feet): 3706560
 Building Volume Daily (cubic feet): 14015.43
 On-Road Truck Travel (VMT): 780
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
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Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Feb '06
 Phase 2 Duration: 3 months
 On-Road Truck Travel (VMT): 556
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Excavators	180	0.580	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Skid Steer Loaders	62	0.515	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: May '06
 Phase 3 Duration: 25.5 months
 Start Month/Year for SubPhase Building: May '06
 SubPhase Building Duration: 25.5 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Cranes	190	0.430	8.0
2	Graders	174	0.575	7.0
1	Other Equipment	30	0.620	8.0
1	Rubber Tired Dozers	352	0.590	7.0
1	Rubber Tired Loaders	165	0.465	7.0
3	Tractor/Loaders/Backhoes	79	0.465	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '08

SubPhase Architectural Coatings Duration: 2.6 months

Start Month/Year for SubPhase Asphalt: May '08

SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
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AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.12	1.59	0.67	-	0.00
Wood Stoves - No summer emissions					
Fireplaces - No summer emissions					
Landscaping	0.25	0.02	1.75	0.00	0.01
Consumer Prdcts	0.00	-	-	-	-
TOTALS (lbs/day, unmitigated)	0.37	1.61	2.42	0.00	0.01

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Condo/townhouse high rise	11.27	11.55	127.06	0.07	11.27
Racquetball/health	8.76	11.16	116.61	0.07	10.70
Quality restaurant	1.16	1.44	15.14	0.01	1.39
TOTAL EMISSIONS (lbs/day)	21.19	24.16	258.80	0.15	23.36

Does not include correction for passby trips.

Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Trip Rate	Size	Total Trips
Condo/townhouse high rise	7.55 trips / dwelling units	147.00	1,109.85
Racquetball/health	28.58 trips / 1000 sq. ft.	43.00	1,228.94
Quality restaurant	22.22 trips / 1000 sq. ft.	7.00	155.54

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	55.20	1.80	97.80	0.40
Light Truck < 3,750 lbs	15.10	3.30	94.00	2.70
Light Truck 3,751- 5,750	16.10	1.90	96.90	1.20
Med Truck 5,751- 8,500	7.10	1.40	95.80	2.80
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.40	0.00	50.00	50.00
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.70	82.40	17.60	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.20	8.30	83.30	8.40

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Racquetball/health				5.0	2.5	92.5
Quality restaurant				8.0	4.0	88.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft2 (residential) changed from 0.0185 to 0.0052

Changes made to the default values for Area

The wood stove option switch changed from on to off.
The fireplcase option switch changed from on to off.
The consumer products option switch changed from on to off.
The fireplace cords of wood burned changed from 1.48 to 0.
The fireplace percentage of residential units changed from 10 to 0.

Changes made to the default values for Operations

The operational emission year changed from 2004 to 2007.
The double counting internal work trip limit changed from to 73.8902.
The double counting shopping trip limit changed from to 36.9451.
The double counting other trip limit changed from to 477.2355.