

**Appendix B1 Air Quality Data (Granada Hills–
Knollwood)**



Granada Hills - Knollwood Assumptions & Calculations

Granada Hills - Knollwood Assumptions

CalEEMod

Project Characteristics:

Project Name:	Granada Hills Existing Conditions	(GHEXist.xls)
	Granada Hills Proposed Plan	(GH2030all.xls)
	Granada Hills - 2030 Res Growth	(GH2030Res.xls)
	Granada Hills - 2030 Com Growth	(GH2030Com.xls)
	Granada Hills - 2030 Ind Growth	(GH2030Ind.xls)
Project Location:	County - Los Angeles (SC)	
windspeed (m/s)	2.2 default	
precipitation (days)	33 default	
Climate zone	11	
Landuse Setting	Urban	
Operational Year	2005/2030	
Utility Company	LADWP	default emission factors for operational year

Land Use Types:

Project Sheet	CalEEMod category
Single Family	Single Family
Multi-Family	Apartment low rise
Commercial	1/2 as Strip Mall Retail
	1/2 as General Office Building
	*Includes open space building square footages and acerages
Industrial	Manufacturing

Construction:

No construction

Operational:

Mobile: Trip Rates left as program default
 Vehicle Emissions left as default
 Road Dust left as default

Area: Hearths (2005):	Woodstove use:	Apartment - # catalytic 161.3, # non-catalytic 161.3 (program Default)
		SF - # catalytic 799.35, # non-catalytic 799.35 (program default)
	Fireplaces:	Apartment - # wood 161.3, # gas - 2742.1, # No Fireplace - 322.6 (program default)
		SF - # wood 799.35, #gas - 13588.95, # no fireplace - 1598.7 (prgram default)
Hearths (2030 All):	Woodstove use:	Apartment - # catalytic 189.7, # non-catalytic 189.7 (program Default)
		SF - # catalytic 954.45, # non-catalytic 954.45 (program default)
	Fireplaces:	Apartment - # wood 161.3, # gas - 3253.3, # No Fireplace - 379.4 (program default)
		SF - # wood 799.35, #gas - 16380.75, # no fireplace - 1908.9(prgram default)

Consumer Products: Program Default
 Architectural Coating: Program Default
 Landscape Equip: Program Default

Energy Use: 2005: Used Historic Data Defaults
 2030: Program Defaults

Granada Hills - Knollwood Assumptions

Water/Waste water: Program Defaults
Solid Waste: Program Defaults
Vegetation Ignored

Mitigation:

2005: No mitigation implemented

2030: TIMP Reduction

0.7687% % reduction

371390 w/o

368535 w

Others as indicated on calculation sheets

Granada Hills - Knollwood Criteria Pollutants

Unmitigated (lbs/day)

	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Existing						
Winter						
Area	3,010	328	8,315	17	1,041	1,040
Mobile	2,438	5,346	23,018	36	1,997	223
Total	5,448	5,674	31,333	52	3,038	1,264
2030						
Area	3,552	373	9,590	20	1,240	1,240
Mobile	786	1,818	6,027	22	2,602	142
Total	4,339	2,190	15,617	42	3,842	1,381
Growth						
Area	542	45	1,275	3	199	199
Mobile	(1,651)	(3,528)	(16,991)	(13)	605	(82)
Total	(1,109)	(3,484)	(15,715)	(10)	804	117
SCAQMD Thresholds	55	55	550		150	55
Significant?	No	No	No		Yes	Yes

Mitigated (lbs/day)

	ROG	NO _x	CO	PM ₁₀	PM _{2.5}
Existing					
Area	3,010	328	8,315	1,041	1,040
Mobile	2,438	5,346	23,018	1,997	223
Total	5,448	5,674	31,333	3,038	1,264
Total 2030 Mitigated					
Area	3,552	373	9,590	1,240	1,240
Mobile	786	1,818	6,027	2,422	132
Total	4,339	2,190	15,617	3,662	1,371
2030 Growth					
Area	542	45	1,275	199	199
Mobile	(1,651)	(3,528)	(16,991)	425	(91)
Total	(1,109)	(3,484)	(15,715)	624	108
SCAQMD Thresholds	55	55	550	150	55
Significant?	No	No	No	Yes	Yes

Reductions:

Reduction in VMT from Growth:	32.11%
Growth is X% of 2030 Total:	20.93%
Reduction in VMT from 2030 total:	6.72%
% of Fleet that are Heavy Duty Diesel Trucks:	1.90%
% Emission HDT:	10.89%
Reduction in VMT from DPM Filter:	0.21%
Total reduction in Mobile PM:	6.93%

Granada Hills NCP CO Hotspot Analysis

CO Results (Existing 2005)

Intersection	LOS	Peak Vehicle Volume	1-hour CO Project Concentration, ppm	1-hour CO Background Concentration, ppm	1-hour CO Total Concentration, ppm	8-hour CO Project Concentration, ppm	8-hour CO Background Concentration, ppm	8-hour CO Total Concentration, ppm	1-hour CO Limit, ppm	8-hour CO Limit, ppm
Zelzah Ave / Rinaldi	F	1,633	2.0	4.0	6.0	1.4	2.8	4.2	20	9
Balboa Blvd / Balboa Rd	F	3,506	3.4	4.0	7.4	2.4	2.8	5.2	20	9
Balboa Blvd / Senson	F	3,518	3.3	4.0	7.3	2.3	2.8	5.1	20	9
Balboa Blvd / Rinaldi	F	4,543	4.3	4.0	8.3	3.0	2.8	5.8	20	9
Balboa Blvd / Pineridge	E	4,316	4.3	4.0	8.3	3.0	2.8	5.8	20	9
Balboa Blvd / Knollwood	E	4,277	4.6	4.0	8.6	3.2	2.8	6.0	20	9
Balboa Blvd / Woodley	E	3,573	3.6	4.0	7.6	2.5	2.8	5.3	20	9
Hayvenhurst / Index	D	2,124	2.1	4.0	6.1	1.5	2.8	4.3	20	9
Balboa / Lassen	D	5,346	4.8	4.0	8.8	3.4	2.8	6.2	20	9
Hayvenhurst / Lassen	D	2,818	2.3	4.0	6.3	1.6	2.8	4.4	20	9

CO Results (Buildout 2030)

Intersection	LOS	Peak Vehicle Volume	1-hour CO Project Concentration, ppm	1-hour CO Background Concentration, ppm	1-hour CO Total Concentration, ppm	8-hour CO Project Concentration, ppm	8-hour CO Background Concentration, ppm	8-hour CO Total Concentration, ppm	1-hour CO Limit, ppm	8-hour CO Limit, ppm
Balboa Blvd / Balboa Road	F	6,510	0.8	4.0	4.8	0.6	2.8	3.4	20	9
Balboa Blvd / Senson Blvd	F	6,117	0.8	4.0	4.8	0.6	2.8	3.4	20	9
Balboa Blvd / Woodley	F	6,050	0.8	4.0	4.8	0.6	2.8	3.4	20	9
Zelzah / Chatsworth	F	4,210	0.6	4.0	4.6	0.4	2.8	3.2	20	9
Balboa Blvd / Rinaldi	F	7,949	0.9	4.0	4.9	0.6	2.8	3.4	20	9
Balboa Blvd / Index	F	4,296	0.6	4.0	4.6	0.4	2.8	3.2	20	9
Balboa Blvd / San Fern. Mission	F	5,573	0.6	4.0	4.6	0.4	2.8	3.2	20	9
Balboa Blvd / Chatsworth	F	5,122	0.6	4.0	4.6	0.4	2.8	3.2	20	9
Balboa Blvd / Devonshire	F	4,956	0.6	4.0	4.6	0.4	2.8	3.2	20	9
Woodley Avenue / Chatsworth	F	4,332	0.6	4.0	4.6	0.4	2.8	3.2	20	9



Granada Hills - Knollwood CO 2005 Output

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: Zelzah Ave & Rinaldi PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK	COORDINATES (M)	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
	X1	Y1 X2 Y2					
A. NB External	10	0 10 600	* AG	44	6.5	.0	12.8
B. NB Approach	10	600 10 755	* AG	33	11.6	.0	12.8
C. NB Depart	10	755 10 910	* AG	349	11.6	.0	12.8
D. NB External	10	910 10 1510	* AG	349	6.5	.0	12.8
E. NB Left	11	10 600 5 755	* AG	11	11.6	.0	12.8
F. SB Left	71	0 910 5 755	* AG	71	11.6	.0	12.8
G. SB External	0	1510 0 910	* AG	284	6.5	.0	12.8
H. SB Approach	0	910 0 755	* AG	213	11.6	.0	12.8
I. SB Depart	0	755 0 600	* AG	469	11.6	.0	12.8
J. SB External	0	600 0 0	* AG	469	6.5	.0	12.8
K. EB External	-750	750 -150 750	* AG	982	6.5	.0	12.8
L. EB Approach	-150	750 5 750	* AG	736	11.6	.0	12.8
M. EB Depart	5	750 160 750	* AG	572	11.6	.0	12.8
N. EB External	160	750 760 750	* AG	572	6.5	.0	12.8
O. WB External	760	760 160 760	* AG	323	6.5	.0	12.8
P. WB Approach	160	760 5 760	* AG	242	11.6	.0	12.8
Q. WB Depart	5	760 -150 760	* AG	243	11.6	.0	12.8
R. WB External	-150	760 -750 760	* AG	243	6.5	.0	12.8
S. EB Left	24	-150 750 5 755	* AG	246	11.6	.0	12.8
T. WB Left	81	160 760 5 755	* AG	81	11.6	.0	12.8

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: Zelzah Ave & Rinaldi PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* COORDINATES (M)
	X Y Z
1. Receptor	* -3 747 2.0
2. Receptor	* 13 747 2.0
3. Receptor	* 13 763 2.0
4. Receptor	* -3 763 2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	CONC/LINK (PPM)				
						D	E	F	G	H
1. Receptor	* 88.	* 1.6	* .0	* .0	* .0	.0	.0	.0	.0	.0
2. Receptor	* 272.	* 2.0	* .0	* .0	* .0	.0	.0	.0	.0	.0
3. Receptor	* 265.	* 1.5	* .0	* .0	* .1	.0	.0	.0	.0	.0
4. Receptor	* 179.	* 1.4	* .0	* .0	* .0	.0	.0	.0	.0	.0

RECEPTOR	* I	* J	* K	* L	* M	CONC/LINK (PPM)						
						N	O	P	Q	R	S	T
1. Receptor	* .1	* .0	* .0	* .2	* .8	.2	.1	.0	.0	.0	.0	.0
2. Receptor	* .2	* .0	* .2	* 1.0	* .1	.0	.0	.0	.0	.0	.3	.0
3. Receptor	* .0	* .0	* .2	* .4	* .0	.0	.0	.0	.3	.0	.3	.0
4. Receptor	* .7	* .2	* .0	* .2	* .0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: Balboa Blvd & Balboa Rd PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK	COORDINATES (M)	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
	X1	Y1 X2 Y2					
A. NB External	16	0 16 600	* AG	2236	6.5	.0	18.9
B. NB Approach	16	600 16 757	* AG	1491	11.6	.0	18.9
C. NB Depart	16	757 16 914	* AG	2033	11.6	.0	18.9
D. NB External	16	914 16 1514	* AG	2033	6.5	.0	18.9
E. NB Left 74	16	600 8 757	* AG	745	11.6	.0	18.9
F. SB Left 0	0	914 8 757	* AG	0	11.6	.0	18.9
G. SB External	0	1514 0 914	* AG	187	6.5	.0	18.9
H. SB Approach	0	914 0 757	* AG	187	11.6	.0	18.9
I. SB Depart	0	757 0 600	* AG	666	11.6	.0	18.9
J. SB External	0	600 0 0	* AG	666	6.5	.0	18.9
K. EB External	-750	750 -150 750	* AG	1083	6.5	.0	16.7
L. EB Approach	-150	750 8 750	* AG	541	11.6	.0	16.7
M. EB Depart	8	750 166 750	* AG	0	11.6	.0	16.7
N. EB External	166	750 766 750	* AG	0	6.5	.0	16.7
O. WB External	766	764 166 764	* AG	0	6.5	.0	16.7
P. WB Approach	166	764 8 764	* AG	0	11.6	.0	16.7
Q. WB Depart	8	764 -150 764	* AG	807	11.6	.0	16.7
R. WB External	-150	764 -750 764	* AG	807	6.5	.0	16.7
S. EB Left 54	-150	750 8 757	* AG	542	11.6	.0	16.7
T. WB Left 0	166	764 8 757	* AG	0	11.6	.0	16.7

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: Balboa Blvd & Balboa Rd PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* COORDINATES (M)
	X Y Z
1. Receptor	* -3 747 2.0
2. Receptor	* 19 747 2.0
3. Receptor	* 19 767 2.0
4. Receptor	* -3 767 2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* CONC/LINK (PPM)	A	B	C	D	E	F	G	H
1. Receptor	* 171.	* 2.2	* .2	.6	.0	.0	.6	.0	.0	.0	.0
2. Receptor	* 359.	* 3.0	* .0	.3	2.1	.5	.0	.0	.0	.0	.0
3. Receptor	* 182.	* 3.4	* .5	1.6	.4	.0	.6	.0	.0	.0	.0
4. Receptor	* 173.	* 2.8	* .3	.6	.0	.0	.7	.0	.0	.0	.0

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. Receptor	* .7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. Receptor	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. Receptor	* .0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. Receptor	* .6	.0	.0	.2	.0	.0	.0	.0	.2	.0	.2	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: Balboa Blvd & Knollwood PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK	COORDINATES (M)	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
	X1	Y1 X2 Y2					
A. NB External	16	0 16 600	AG	2791	6.5	.0	18.9
B. NB Approach	16	600 16 755	AG	2791	11.6	.0	18.9
C. NB Depart	16	755 16 910	AG	1878	11.6	.0	18.9
D. NB External	16	910 16 1510	AG	1878	6.5	.0	18.9
E. NB Left 0	16	600 8 755	AG	0	11.6	.0	18.9
F. SB Left 48	0	910 8 755	AG	484	11.6	.0	18.9
G. SB External	0	1510 0 910	AG	1451	6.5	.0	18.9
H. SB Approach	0	910 0 755	AG	967	11.6	.0	18.9
I. SB Depart	0	755 0 600	AG	985	11.6	.0	18.9
J. SB External	0	600 0 0	AG	985	6.5	.0	18.9
K. EB External	-750	750 -150 750	AG	0	6.5	.0	12.8
L. EB Approach	-150	750 8 750	AG	0	11.6	.0	12.8
M. EB Depart	8	750 166 750	AG	1414	11.6	.0	12.8
N. EB External	166	750 766 750	AG	1414	6.5	.0	12.8
O. WB External	766	760 166 760	AG	35	6.5	.0	12.8
P. WB Approach	166	760 8 760	AG	17	11.6	.0	12.8
Q. WB Depart	8	760 -150 760	AG	0	11.6	.0	12.8
R. WB External	-150	760 -750 760	AG	0	6.5	.0	12.8
S. EB Left 0	-150	750 8 755	AG	0	11.6	.0	12.8
T. WB Left 18	166	760 8 755	AG	18	11.6	.0	12.8

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: Balboa Blvd & Knollwood PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* COORDINATES (M)
	X Y Z
1. Receptor	* -3 747 2.0
2. Receptor	* 19 747 2.0
3. Receptor	* 19 763 2.0
4. Receptor	* -3 763 2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* CONC/LINK (PPM)	A	B	C	D	E	F	G	H
1. Receptor	* 89.	* 3.2	* .0	.8	.0	.0	.0	.0	.0	.0	.0
2. Receptor	* 357.	* 4.0	* .0	.4	2.0	.3	.0	.2	.4	.1	.1
3. Receptor	* 182.	* 4.6	* .6	2.9	.3	.0	.0	.0	.0	.0	.0
4. Receptor	* 4.	* 2.7	* .0	.0	.3	.5	.0	.5	.2	1.2	.0

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. Receptor	* .3	* .0	* .0	* .0	* 1.7	* .3	* .0	* .0	* .0	* .0	* .0	* .0
2. Receptor	* .0	* .0	* .0	* .0	* .4	* .0	* .0	* .0	* .0	* .0	* .0	* .0
3. Receptor	* .0	* .2	* .0	* .0	* .5	* .0	* .0	* .0	* .0	* .0	* .0	* .0
4. Receptor	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: Balboa & Lassen PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK X1	COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)	
A. NB External	16	0	16	600	* AG	2965	6.5	.0	18.9	
B. NB Approach	16	600	16	757	* AG	2224	11.6	.0	18.9	
C. NB Depart	16	757	16	914	* AG	1857	11.6	.0	18.9	
D. NB External	16	914	16	1514	* AG	1857	6.5	.0	18.9	
E. NB Left	74	16	600	8	757	* AG	741	11.6	.0	18.9
F. SB Left	22	0	914	8	757	* AG	221	11.6	.0	18.9
G. SB External	0	1514	0	914	* AG	884	6.5	.0	18.9	
H. SB Approach	0	914	0	757	* AG	663	11.6	.0	18.9	
I. SB Depart	0	757	0	600	* AG	816	11.6	.0	18.9	
J. SB External	0	600	0	0	* AG	816	6.5	.0	18.9	
K. EB External	-750	750	-150	750	* AG	797	6.5	.0	16.7	
L. EB Approach	-150	750	8	750	* AG	598	11.6	.0	16.7	
M. EB Depart	8	750	166	750	* AG	1361	11.6	.0	16.7	
N. EB External	166	750	766	750	* AG	1361	6.5	.0	16.7	
O. WB External	766	764	166	764	* AG	700	6.5	.0	16.7	
P. WB Approach	166	764	8	764	* AG	525	11.6	.0	16.7	
Q. WB Depart	8	764	-150	764	* AG	1312	11.6	.0	16.7	
R. WB External	-150	764	-750	764	* AG	1312	6.5	.0	16.7	
S. EB Left	19	-150	750	8	757	* AG	199	11.6	.0	16.7
T. WB Left	17	166	764	8	757	* AG	175	11.6	.0	16.7

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: Balboa & Lassen PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (M) Y	Z
1. Receptor	* -3	747	2.0
2. Receptor	* 19	747	2.0
3. Receptor	* 19	767	2.0
4. Receptor	* -3	767	2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	CONC/LINK (PPM) D	E	F	G	H
1. Receptor	* 88.	* 3.5	* .0	* .7	* .0	.0	.3	.0	.0	.0
2. Receptor	* 358.	* 3.8	* .0	* .4	* 2.0	.4	.0	.0	.2	.0
3. Receptor	* 182.	* 4.8	* .6	* 2.3	* .4	.0	.6	.0	.0	.0
4. Receptor	* 172.	* 3.4	* .3	* .9	* .0	.0	.7	.0	.0	.1

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. Receptor	* .2	* .0	* .0	* .2	* 1.6	* .3	* .2	* .0	* .0	* .0	* .0	* .0
2. Receptor	* .0	* .0	* .0	* .0	* .4	* .0	* .0	* .2	* .0	* .0	* .0	* .0
3. Receptor	* .0	* .2	* .0	* .0	* .4	* .0	* .0	* .1	* .0	* .0	* .0	* .0
4. Receptor	* .7	* .0	* .0	* .2	* .0	* .0	* .0	* .4	* .0	* .0	* .0	* .0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: Balboa Blvd & Pineridge PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK	COORDINATES (M)	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
	X1	Y1 X2 Y2					
A. NB External	16	0 16 600	AG	2791	6.5	.0	18.9
B. NB Approach	16	600 16 755	AG	2093	11.6	.0	18.9
C. NB Depart	16	755 16 910	AG	1497	11.6	.0	18.9
D. NB External	16	910 16 1510	AG	1497	6.5	.0	18.9
E. NB Left 69	16	600 8 755	AG	698	11.6	.0	18.9
F. SB Left 27	0	910 8 755	AG	279	11.6	.0	18.9
G. SB External	0	1510 0 910	AG	1117	6.5	.0	18.9
H. SB Approach	0	910 0 755	AG	838	11.6	.0	18.9
I. SB Depart	0	755 0 600	AG	661	11.6	.0	18.9
J. SB External	0	600 0 0	AG	661	6.5	.0	18.9
K. EB External	-750	750 -150 750	AG	276	6.5	.0	12.8
L. EB Approach	-150	750 8 750	AG	207	11.6	.0	12.8
M. EB Depart	8	750 166 750	AG	1115	11.6	.0	12.8
N. EB External	166	750 766 750	AG	1115	6.5	.0	12.8
O. WB External	766	760 166 760	AG	132	6.5	.0	12.8
P. WB Approach	166	760 8 760	AG	99	11.6	.0	12.8
Q. WB Depart	8	760 -150 760	AG	1043	11.6	.0	12.8
R. WB External	-150	760 -750 760	AG	1043	6.5	.0	12.8
S. EB Left 69	-150	750 8 755	AG	69	11.6	.0	12.8
T. WB Left 33	166	760 8 755	AG	33	11.6	.0	12.8

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: Balboa Blvd & Pineridge PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* COORDINATES (M)
	X Y Z
1. Receptor	* -3 747 2.0
2. Receptor	* 19 747 2.0
3. Receptor	* 19 763 2.0
4. Receptor	* -3 763 2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* CONC/LINK (PPM)	A	B	C	D	E	F	G	H
1. Receptor	* 88.	* 2.9	* .0	.6	.0	.0	.3	.0	.0	.0	.0
2. Receptor	* 357.	* 3.2	* .0	.3	1.6	.3	.0	.1	.3	.1	
3. Receptor	* 182.	* 4.3	* .6	2.3	.2	.0	.6	.0	.0	.0	
4. Receptor	* 172.	* 3.0	* .3	.8	.0	.0	.7	.0	.0	.1	

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. Receptor	* .2	* .0	* .0	* .0	* 1.4	* .3	* .0	* .0	* .0	* .0	* .0	* .0
2. Receptor	* .0	* .0	* .0	* .0	* .3	* .0	* .0	* .0	* .0	* .0	* .0	* .0
3. Receptor	* .0	* .2	* .0	* .0	* .4	* .0	* .0	* .0	* .0	* .0	* .0	* .0
4. Receptor	* .6	* .0	* .0	* .0	* .0	* .0	* .0	* .3	* .0	* .0	* .0	* .0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: Balboa Blvd & Rinaldi PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK	COORDINATES (M)	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
	X1	Y1 X2 Y2					
A. NB External	16	0 16 600	* AG	2692	6.5	.0	18.9
B. NB Approach	16	600 16 755	* AG	2019	11.6	.0	18.9
C. NB Depart	16	755 16 910	* AG	1448	11.6	.0	18.9
D. NB External	16	910 16 1510	* AG	1448	6.5	.0	18.9
E. NB Left 67	16	600 8 755	* AG	673	11.6	.0	18.9
F. SB Left 36	0	910 8 755	* AG	361	11.6	.0	18.9
G. SB External	0	1510 0 910	* AG	1444	6.5	.0	18.9
H. SB Approach	0	910 0 755	* AG	1083	11.6	.0	18.9
I. SB Depart	0	755 0 600	* AG	824	11.6	.0	18.9
J. SB External	0	600 0 0	* AG	824	6.5	.0	18.9
K. EB External	-750	750 -150 750	* AG	120	6.5	.0	12.8
L. EB Approach	-150	750 8 750	* AG	90	11.6	.0	12.8
M. EB Depart	8	750 166 750	* AG	1094	11.6	.0	12.8
N. EB External	166	750 766 750	* AG	1094	6.5	.0	12.8
O. WB External	766	760 166 760	* AG	287	6.5	.0	12.8
P. WB Approach	166	760 8 760	* AG	215	11.6	.0	12.8
Q. WB Depart	8	760 -150 760	* AG	1177	11.6	.0	12.8
R. WB External	-150	760 -750 760	* AG	1177	6.5	.0	12.8
S. EB Left 30	-150	750 8 755	* AG	30	11.6	.0	12.8
T. WB Left 72	166	760 8 755	* AG	72	11.6	.0	12.8

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: Balboa Blvd & Rinaldi PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* COORDINATES (M)
	X Y Z
1. Receptor	* -3 747 2.0
2. Receptor	* 19 747 2.0
3. Receptor	* 19 763 2.0
4. Receptor	* -3 763 2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* CONC (PPM)	A	B	C	CONC/LINK (PPM)				
							D	E	F	G	H
1. Receptor	* 88.	* 3.0	* .0	.6	.0	.0	.3	.0	.0	.0	.0
2. Receptor	* 357.	* 3.3	* .0	.3	1.6	.3	.0	.2	.4	.1	
3. Receptor	* 182.	* 4.3	* .6	2.2	.2	.0	.6	.0	.0	.0	
4. Receptor	* 172.	* 3.1	* .3	.8	.0	.0	.6	.0	.0	.0	

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. Receptor	* .2	* .0	* .0	* .0	* 1.4	* .3	* .0	* .0	* .0	* .0	* .0	* .0
2. Receptor	* .0	* .0	* .0	* .0	* .3	* .0	* .0	* .0	* .0	* .0	* .0	* .0
3. Receptor	* .0	* .2	* .0	* .0	* .4	* .0	* .0	* .0	* .0	* .0	* .0	* .0
4. Receptor	* .8	* .0	* .0	* .0	* .0	* .0	* .0	* .4	* .0	* .0	* .0	* .0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: Balboa Blvd & Senson PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK	COORDINATES (M)	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
	X1	Y1 X2 Y2					
A. NB External	16	0 16 600	* AG	2236	6.5	.0	18.9
B. NB Approach	16	600 16 758	* AG	1491	11.6	.0	18.9
C. NB Depart	16	758 16 916	* AG	1505	11.6	.0	18.9
D. NB External	16	916 16 1516	* AG	1505	6.5	.0	18.9
E. NB Left 74	16	600 8 758	* AG	745	11.6	.0	18.9
F. SB Left 0	0	916 8 758	* AG	0	11.6	.0	18.9
G. SB External	0	1516 0 916	* AG	1254	6.5	.0	18.9
H. SB Approach	0	916 0 758	* AG	1254	11.6	.0	18.9
I. SB Depart	0	758 0 600	* AG	850	11.6	.0	18.9
J. SB External	0	600 0 0	* AG	850	6.5	.0	18.9
K. EB External	-750	750 -150 750	* AG	28	6.5	.0	18.9
L. EB Approach	-150	750 8 750	* AG	14	11.6	.0	18.9
M. EB Depart	8	750 166 750	* AG	0	11.6	.0	18.9
N. EB External	166	750 766 750	* AG	0	6.5	.0	18.9
O. WB External	766	766 166 766	* AG	0	6.5	.0	18.9
P. WB Approach	166	766 8 766	* AG	0	11.6	.0	18.9
Q. WB Depart	8	766 -150 766	* AG	1163	11.6	.0	18.9
R. WB External	-150	766 -750 766	* AG	1163	6.5	.0	18.9
S. EB Left 14	-150	750 8 758	* AG	14	11.6	.0	18.9
T. WB Left 0	166	766 8 758	* AG	0	11.6	.0	18.9

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: Balboa Blvd & Senson PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* COORDINATES (M)
	X Y Z
1. Receptor	* -3 747 2.0
2. Receptor	* 19 747 2.0
3. Receptor	* 19 769 2.0
4. Receptor	* -3 769 2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* CONC/LINK (PPM)	A	B	C	D	E	F	G	H
1. Receptor	* 3.	* 2.7	* .0	.0	.0	.2	.4	.0	.0	.2	1.3
2. Receptor	* 358.	* 2.7	* .0	.3	1.6	.4	.0	.0	.0	.3	.1
3. Receptor	* 182.	* 3.3	* .5	1.6	.3	.0	.6	.0	.0	.0	.0
4. Receptor	* 174.	* 2.9	* .4	.5	.0	.0	.6	.0	.0	.0	.3

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. Receptor	* .2	* .0	* .0	* .0	* .0	* .0	* .0	* .4	* .0	* .0	* .0	* .0
2. Receptor	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
3. Receptor	* .0	* .2	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
4. Receptor	* .8	* .0	* .0	* .0	* .0	* .0	* .0	* .3	* .0	* .0	* .0	* .0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: Balboa Blvd & Woodley PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK	COORDINATES (M)	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
	X1	Y1 X2 Y2					
A. NB External	16	0 16 600	* AG	2291	6.5	.0	18.9
B. NB Approach	16	600 16 755	* AG	1718	11.6	.0	18.9
C. NB Depart	16	755 16 910	* AG	1198	11.6	.0	18.9
D. NB External	16	910 16 1510	* AG	1198	6.5	.0	18.9
E. NB Left	57	16 600 8 755	* AG	573	11.6	.0	18.9
F. SB Left	26	* 0 910 8 755	* AG	269	11.6	.0	18.9
G. SB External	* 0	1510 0 910	* AG	1075	6.5	.0	18.9
H. SB Approach	* 0	910 0 755	* AG	806	11.6	.0	18.9
I. SB Depart	* 0	755 0 600	* AG	590	11.6	.0	18.9
J. SB External	* 0	600 0 0	* AG	590	6.5	.0	18.9
K. EB External	* -750	750 -150 750	* AG	16	6.5	.0	12.8
L. EB Approach	* -150	750 8 750	* AG	12	11.6	.0	12.8
M. EB Depart	* 8	750 166 750	* AG	849	11.6	.0	12.8
N. EB External	* 166	750 766 750	* AG	849	6.5	.0	12.8
O. WB External	* 766	760 166 760	* AG	191	6.5	.0	12.8
P. WB Approach	* 166	760 8 760	* AG	143	11.6	.0	12.8
Q. WB Depart	* 8	760 -150 760	* AG	936	11.6	.0	12.8
R. WB External	* -150	760 -750 760	* AG	936	6.5	.0	12.8
S. EB Left	4	* -150 750 8 755	* AG	4	11.6	.0	12.8
T. WB Left	48	* 166 760 8 755	* AG	48	11.6	.0	12.8

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: Balboa Blvd & Woodley PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* COORDINATES (M)
	X Y Z
1. Receptor	* -3 747 2.0
2. Receptor	* 19 747 2.0
3. Receptor	* 19 763 2.0
4. Receptor	* -3 763 2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* CONC/LINK (PPM)	A	B	C	D	E	F	G	H
1. Receptor	* 88.	* 2.4	* .0	.5	.0	.0	.2	.0	.0	.0	.0
2. Receptor	* 357.	* 2.7	* .0	.3	1.3	.2	.0	.1	.3	.1	
3. Receptor	* 182.	* 3.6	* .5	1.9	.2	.0	.5	.0	.0	.0	
4. Receptor	* 172.	* 2.5	* .2	.7	.0	.0	.6	.0	.0	.1	

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. Receptor	* .2	.0	.0	.0	1.1	.2	.0	.0	.0	.0	.0	.0
2. Receptor	* .0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
3. Receptor	* .0	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
4. Receptor	* .6	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: Hayvenhurst & Index PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK	COORDINATES (M)	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
	X1	Y1 X2 Y2					
A. NB External	* 14	0 14 600	* AG	1198	6.5	.0	16.7
B. NB Approach	* 14	600 14 755	* AG	799	11.6	.0	16.7
C. NB Depart	* 14	755 14 910	* AG	867	11.6	.0	16.7
D. NB External	* 14	910 14 1510	* AG	867	6.5	.0	16.7
E. NB Left 39	* 14	600 7 755	* AG	399	11.6	.0	16.7
F. SB Left 0	* 0	910 7 755	* AG	0	11.6	.0	16.7
G. SB External	* 0	1510 0 910	* AG	790	6.5	.0	16.7
H. SB Approach	* 0	910 0 755	* AG	790	11.6	.0	16.7
I. SB Depart	* 0	755 0 600	* AG	595	11.6	.0	16.7
J. SB External	* 0	600 0 0	* AG	595	6.5	.0	16.7
K. EB External	* -750	750 -150 750	* AG	136	6.5	.0	12.8
L. EB Approach	* -150	750 7 750	* AG	68	11.6	.0	12.8
M. EB Depart	* 7	750 164 750	* AG	0	11.6	.0	12.8
N. EB External	* 164	750 764 750	* AG	0	6.5	.0	12.8
O. WB External	* 764	760 164 760	* AG	0	6.5	.0	12.8
P. WB Approach	* 164	760 7 760	* AG	0	11.6	.0	12.8
Q. WB Depart	* 7	760 -150 760	* AG	662	11.6	.0	12.8
R. WB External	* -150	760 -750 760	* AG	662	6.5	.0	12.8
S. EB Left 68	* -150	750 7 755	* AG	68	11.6	.0	12.8
T. WB Left 0	* 164	760 7 755	* AG	0	11.6	.0	12.8

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: Hayvenhurst & Index PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* COORDINATES (M)
	X Y Z
1. Receptor	* -3 747 2.0
2. Receptor	* 17 747 2.0
3. Receptor	* 17 763 2.0
4. Receptor	* -3 763 2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	CONC/LINK (PPM)							
			A	B	C	D	E	F	G	H
1. Receptor	* 3.	* 1.9	* .0	* .0	* .2	* .2	* .0	* .0	* .2	* 1.0
2. Receptor	* 358.	* 1.8	* .0	* .1	* 1.1	* .2	* .0	* .0	* .2	* .0
3. Receptor	* 183.	* 2.1	* .2	* 1.0	* .2	* .0	* .4	* .0	* .0	* .0
4. Receptor	* 175.	* 2.0	* .3	* .3	* .0	* .0	* .3	* .0	* .0	* .1

RECEPTOR	CONC/LINK (PPM)											
	I	J	K	L	M	N	O	P	Q	R	S	T
1. Receptor	* .1	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .0
2. Receptor	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
3. Receptor	* .1	* .2	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
4. Receptor	* .7	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: Hayvenhurst & Lassen PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK	COORDINATES (M)	* TYPE	VPH	EF (G/MI)	H (M)	W (M)			
	X1	Y1	X2	Y2						
A. NB External	14	0	14	600	AG	163	6.5	.0	16.7	
B. NB Approach	14	600	14	757	AG	123	11.6	.0	16.7	
C. NB Depart	14	757	14	914	AG	596	11.6	.0	16.7	
D. NB External	14	914	14	1514	AG	596	6.5	.0	16.7	
E. NB Left	40	14	600	7	757	AG	40	11.6	.0	16.7
F. SB Left	15	0	914	7	757	AG	150	11.6	.0	16.7
G. SB External	0	1514	0	914	AG	600	6.5	.0	16.7	
H. SB Approach	0	914	0	757	AG	450	11.6	.0	16.7	
I. SB Depart	0	757	0	600	AG	814	11.6	.0	16.7	
J. SB External	0	600	0	0	AG	814	6.5	.0	16.7	
K. EB External	-750	750	-150	750	AG	1148	6.5	.0	16.7	
L. EB Approach	-150	750	7	750	AG	861	11.6	.0	16.7	
M. EB Depart	7	750	164	750	AG	765	11.6	.0	16.7	
N. EB External	164	750	764	750	AG	765	6.5	.0	16.7	
O. WB External	764	764	164	764	AG	907	6.5	.0	16.7	
P. WB Approach	164	764	7	764	AG	680	11.6	.0	16.7	
Q. WB Depart	7	764	-150	764	AG	643	11.6	.0	16.7	
R. WB External	-150	764	-750	764	AG	643	6.5	.0	16.7	
S. EB Left	28	-150	750	7	757	AG	287	11.6	.0	16.7
T. WB Left	22	164	764	7	757	AG	227	11.6	.0	16.7

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: Hayvenhurst & Lassen PM 2005
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* COORDINATES (M)	X	Y	Z
1. Receptor	*	-3	747	2.0
2. Receptor	*	17	747	2.0
3. Receptor	*	17	767	2.0
4. Receptor	*	-3	767	2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	CONC/LINK (PPM)				
						D	E	F	G	H
1. Receptor	86.	2.1	.0	.0	.0	.0	.0	.0	.0	.0
2. Receptor	272.	2.3	.0	.0	.0	.0	.0	.0	.0	.0
3. Receptor	266.	2.1	.0	.0	.2	.0	.0	.0	.0	.1
4. Receptor	93.	2.1	.0	.0	.2	.0	.0	.0	.0	.1

RECEPTOR	* I	* J	* K	* L	* M	CONC/LINK (PPM)						
						N	O	P	Q	R	S	T
1. Receptor	.2	.0	.0	.2	.9	.1	.2	.2	.0	.0	.0	.2
2. Receptor	.3	.0	.3	1.0	.2	.0	.0	.0	.0	.2	.3	.0
3. Receptor	.0	.0	.3	.2	.0	.0	.0	.2	.8	.1	.2	.0
4. Receptor	.0	.0	.0	.0	.1	.2	.2	.8	.2	.0	.0	.2

□□



Granada Hills - Knollwood CO 2030 Output

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: GH Balboa Blvd & Balboa Rd PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK X1	COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NB External	* 16	0	16	600	* AG	3827	1.2	.0	18.9
B. NB Approach	* 16	600	16	757	* AG	2551	1.8	.0	18.9
C. NB Depart	* 16	757	16	914	* AG	2795	1.8	.0	18.9
D. NB External	* 16	914	16	1514	* AG	2795	1.2	.0	18.9
E. NB Left 12	* 16	600	8	757	* AG	1276	1.8	.0	18.9
F. SB Left 0	* 0	914	8	757	* AG	0	1.8	.0	18.9
G. SB External	* 0	1514	0	914	* AG	2196	1.2	.0	18.9
H. SB Approach	* 0	914	0	757	* AG	2196	1.8	.0	18.9
I. SB Depart	* 0	757	0	600	* AG	1707	1.8	.0	18.9
J. SB External	* 0	600	0	0	* AG	1707	1.2	.0	18.9
K. EB External	* -750	750	-150	750	* AG	487	1.2	.0	16.7
L. EB Approach	* -150	750	8	750	* AG	243	1.8	.0	16.7
M. EB Depart	* 8	750	166	750	* AG	0	1.8	.0	16.7
N. EB External	* 166	750	766	750	* AG	0	1.2	.0	16.7
O. WB External	* 766	764	166	764	* AG	0	1.2	.0	16.7
P. WB Approach	* 166	764	8	764	* AG	0	1.8	.0	16.7
Q. WB Depart	* 8	764	-150	764	* AG	2008	1.8	.0	16.7
R. WB External	* -150	764	-750	764	* AG	2008	1.2	.0	16.7
S. EB Left 24	* -150	750	8	757	* AG	244	1.8	.0	16.7
T. WB Left 0	* 166	764	8	757	* AG	0	1.8	.0	16.7

□□

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: GH Balboa Blvd & Balboa Rd PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (M) Y	Z
1. Receptor	* -3	747	2.0
2. Receptor	* 19	747	2.0
3. Receptor	* 19	767	2.0
4. Receptor	* -3	767	2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	CONC/LINK (PPM) D	E	F	G	H
1. Receptor	* 3.	* .7	* .0	* .0	* .0	.1	.0	.0	.0	.3
2. Receptor	* 358.	* .7	* .0	* .0	* .4	.0	.0	.0	.0	.0
3. Receptor	* 183.	* .8	* .0	* .4	* .0	.0	.2	.0	.0	.0
4. Receptor	* 174.	* .8	* .0	* .1	* .0	.0	.1	.0	.0	.0

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. Receptor	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
2. Receptor	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
3. Receptor	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
4. Receptor	* .2	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: GH Balboa Blvd & Chatsworth PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)	
A. NB External	16	0	16	600	* AG	1967	1.2	.0	18.9	
B. NB Approach	16	600	16	757	* AG	1475	1.8	.0	18.9	
C. NB Depart	16	757	16	914	* AG	1451	1.8	.0	18.9	
D. NB External	16	914	16	1514	* AG	1451	1.2	.0	18.9	
E. NB Left	49	16	600	8	757	* AG	492	1.8	.0	18.9
F. SB Left	32	0	914	8	757	* AG	321	1.8	.0	18.9
G. SB External	0	1514	0	914	* AG	1284	1.2	.0	18.9	
H. SB Approach	0	914	0	757	* AG	963	1.8	.0	18.9	
I. SB Depart	0	757	0	600	* AG	1110	1.8	.0	18.9	
J. SB External	0	600	0	0	* AG	1110	1.2	.0	18.9	
K. EB External	-750	750	-150	750	* AG	1091	1.2	.0	16.7	
L. EB Approach	-150	750	8	750	* AG	818	1.8	.0	16.7	
M. EB Depart	8	750	166	750	* AG	1358	1.8	.0	16.7	
N. EB External	166	750	766	750	* AG	1358	1.2	.0	16.7	
O. WB External	766	764	166	764	* AG	780	1.2	.0	16.7	
P. WB Approach	166	764	8	764	* AG	585	1.8	.0	16.7	
Q. WB Depart	8	764	-150	764	* AG	1203	1.8	.0	16.7	
R. WB External	-150	764	-750	764	* AG	1203	1.2	.0	16.7	
S. EB Left	27	-150	750	8	757	* AG	273	1.8	.0	16.7
T. WB Left	19	166	764	8	757	* AG	195	1.8	.0	16.7

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: GH Balboa Blvd & Chatsworth PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (M) Y	Z
1. Receptor	-3	747	2.0
2. Receptor	19	747	2.0
3. Receptor	19	767	2.0
4. Receptor	-3	767	2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	CONC/LINK (PPM)				
						D	E	F	G	H
1. Receptor	88.	.5	.0	.0	.0	.0	.0	.0	.0	.0
2. Receptor	357.	.5	.0	.0	.2	.0	.0	.0	.0	.0
3. Receptor	182.	.6	.0	.2	.0	.0	.0	.0	.0	.0
4. Receptor	176.	.5	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	* I	* J	* K	* L	* M	CONC/LINK (PPM)						
						N	O	P	Q	R	S	T
1. Receptor	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
2. Receptor	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. Receptor	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. Receptor	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

□□

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: GH Balboa Blvd & Devonshire PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK X1	COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NB External	16	0	16	600	* AG	1997	1.2	.0	18.9
B. NB Approach	16	600	16	758	* AG	1498	1.8	.0	18.9
C. NB Depart	16	758	16	916	* AG	1480	1.8	.0	18.9
D. NB External	16	916	16	1516	* AG	1480	1.2	.0	18.9
E. NB Left 49	16	600	8	758	* AG	499	1.8	.0	18.9
F. SB Left 25	0	916	8	758	* AG	259	1.8	.0	18.9
G. SB External	0	1516	0	916	* AG	1036	1.2	.0	18.9
H. SB Approach	0	916	0	758	* AG	777	1.8	.0	18.9
I. SB Depart	0	758	0	600	* AG	999	1.8	.0	18.9
J. SB External	0	600	0	0	* AG	999	1.2	.0	18.9
K. EB External	-750	750	-150	750	* AG	1386	1.2	.0	18.9
L. EB Approach	-150	750	8	750	* AG	1039	1.8	.0	18.9
M. EB Depart	8	750	166	750	* AG	1450	1.8	.0	18.9
N. EB External	166	750	766	750	* AG	1450	1.2	.0	18.9
O. WB External	766	766	166	766	* AG	537	1.2	.0	18.9
P. WB Approach	166	766	8	766	* AG	403	1.8	.0	18.9
Q. WB Depart	8	766	-150	766	* AG	1027	1.8	.0	18.9
R. WB External	-150	766	-750	766	* AG	1027	1.2	.0	18.9
S. EB Left 34	-150	750	8	758	* AG	347	1.8	.0	18.9
T. WB Left 13	166	766	8	758	* AG	134	1.8	.0	18.9

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: GH Balboa Blvd & Devonshire PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (M) Y	Z
1. Receptor	-3	747	2.0
2. Receptor	19	747	2.0
3. Receptor	19	769	2.0
4. Receptor	-3	769	2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	B	C	CONC/LINK (PPM)				
						D	E	F	G	H
1. Receptor	88.	.5	.0	.0	.0	.0	.0	.0	.0	.0
2. Receptor	273.	.5	.0	.0	.0	.0	.0	.0	.0	.0
3. Receptor	182.	.6	.0	.2	.0	.0	.0	.0	.0	.0
4. Receptor	176.	.5	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	* I	J	K	L	M	CONC/LINK (PPM)						
						N	O	P	Q	R	S	T
1. Receptor	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
2. Receptor	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
3. Receptor	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. Receptor	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

□□

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: GH Balboa Blvd & Index PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK	COORDINATES (M)	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
	X1	Y1 X2 Y2					
A. NB External	16	0 16 600	* AG	1973	1.2	.0	18.9
B. NB Approach	16	600 16 755	* AG	1480	1.8	.0	18.9
C. NB Depart	16	755 16 910	* AG	1179	1.8	.0	18.9
D. NB External	16	910 16 1510	* AG	1179	1.2	.0	18.9
E. NB Left 49	16	600 8 755	* AG	493	1.8	.0	18.9
F. SB Left 39	0	910 8 755	* AG	390	1.8	.0	18.9
G. SB External	0	1510 0 910	* AG	1559	1.2	.0	18.9
H. SB Approach	0	910 0 755	* AG	1169	1.8	.0	18.9
I. SB Depart	0	755 0 600	* AG	971	1.8	.0	18.9
J. SB External	0	600 0 0	* AG	971	1.2	.0	18.9
K. EB External	-750	750 -150 750	* AG	626	1.2	.0	12.8
L. EB Approach	-150	750 8 750	* AG	469	1.8	.0	12.8
M. EB Depart	8	750 166 750	* AG	1195	1.8	.0	12.8
N. EB External	166	750 766 750	* AG	1195	1.2	.0	12.8
O. WB External	766	760 166 760	* AG	138	1.2	.0	12.8
P. WB Approach	166	760 8 760	* AG	103	1.8	.0	12.8
Q. WB Depart	8	760 -150 760	* AG	951	1.8	.0	12.8
R. WB External	-150	760 -750 760	* AG	951	1.2	.0	12.8
S. EB Left 15	-150	750 8 755	* AG	157	1.8	.0	12.8
T. WB Left 35	166	760 8 755	* AG	35	1.8	.0	12.8

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: GH Balboa Blvd & Index PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* COORDINATES (M)
	X Y Z
1. Receptor	* -3 747 2.0
2. Receptor	* 19 747 2.0
3. Receptor	* 19 763 2.0
4. Receptor	* -3 763 2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* CONC/LINK (PPM)	A	B	C	D	E	F	G	H
1. Receptor	* 3.	* .5	* .0	.0	.0	.0	.0	.0	.0	.0	.2
2. Receptor	* 356.	* .5	* .0	.0	.2	.0	.0	.0	.0	.0	.0
3. Receptor	* 182.	* .6	* .0	.3	.0	.0	.0	.0	.0	.0	.0
4. Receptor	* 175.	* .5	* .0	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. Receptor	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
2. Receptor	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
3. Receptor	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
4. Receptor	* .2	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: GH Balboa Blvd & Rinaldi PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK	COORDINATES (M)	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
	X1	Y1 X2 Y2					
A. NB External	16	0 16 600	* AG	3394	1.2	.0	18.9
B. NB Approach	16	600 16 755	* AG	2545	1.8	.0	18.9
C. NB Depart	16	755 16 910	* AG	2215	1.8	.0	18.9
D. NB External	16	910 16 1510	* AG	2215	1.2	.0	18.9
E. NB Left 84	16	600 8 755	* AG	849	1.8	.0	18.9
F. SB Left 62	0	910 8 755	* AG	620	1.8	.0	18.9
G. SB External	0	1510 0 910	* AG	2480	1.2	.0	18.9
H. SB Approach	0	910 0 755	* AG	1860	1.8	.0	18.9
I. SB Depart	0	755 0 600	* AG	1759	1.8	.0	18.9
J. SB External	0	600 0 0	* AG	1759	1.2	.0	18.9
K. EB External	-750	750 -150 750	* AG	841	1.2	.0	12.8
L. EB Approach	-150	750 8 750	* AG	631	1.8	.0	12.8
M. EB Depart	8	750 166 750	* AG	1890	1.8	.0	12.8
N. EB External	166	750 766 750	* AG	1890	1.2	.0	12.8
O. WB External	766	760 166 760	* AG	1234	1.2	.0	12.8
P. WB Approach	166	760 8 760	* AG	925	1.8	.0	12.8
Q. WB Depart	8	760 -150 760	* AG	2085	1.8	.0	12.8
R. WB External	-150	760 -750 760	* AG	2085	1.2	.0	12.8
S. EB Left 21	-150	750 8 755	* AG	210	1.8	.0	12.8
T. WB Left 30	166	760 8 755	* AG	309	1.8	.0	12.8

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: GH Balboa Blvd & Rinaldi PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* COORDINATES (M)
	X Y Z
1. Receptor	* -3 747 2.0
2. Receptor	* 19 747 2.0
3. Receptor	* 19 763 2.0
4. Receptor	* -3 763 2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* CONC/LINK (PPM)	A	B	C	D	E	F	G	H
1. Receptor	* 87.	* .8	* .0	.1	.0	.0	.0	.0	.0	.0	.0
2. Receptor	* 356.	* .8	* .0	.4	.0	.0	.0	.0	.0	.0	.0
3. Receptor	* 182.	* .9	* .1	.4	.0	.0	.1	.0	.0	.0	.0
4. Receptor	* 175.	* .8	* .1	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. Receptor	* .0	* .0	* .0	* .0	* .3	* .0	* .0	* .0	* .0	* .0	* .0	* .0
2. Receptor	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
3. Receptor	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
4. Receptor	* .3	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: GH Balboa Blvd & San Fern. Mission PM 20
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK	COORDINATES (M)	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
	X1	Y1 X2 Y2					
A. NB External	16	0 16 600	* AG	2088	1.2	.0	18.9
B. NB Approach	16	600 16 757	* AG	1566	1.8	.0	18.9
C. NB Depart	16	757 16 914	* AG	1526	1.8	.0	18.9
D. NB External	16	914 16 1514	* AG	1526	1.2	.0	18.9
E. NB Left	52	16 600 8 757	* AG	522	1.8	.0	18.9
F. SB Left	39	0 914 8 757	* AG	390	1.8	.0	18.9
G. SB External	0	1514 0 914	* AG	1559	1.2	.0	18.9
H. SB Approach	0	914 0 757	* AG	1169	1.8	.0	18.9
I. SB Depart	0	757 0 600	* AG	1261	1.8	.0	18.9
J. SB External	0	600 0 0	* AG	1261	1.2	.0	18.9
K. EB External	-750	750 -150 750	* AG	1239	1.2	.0	16.7
L. EB Approach	-150	750 8 750	* AG	929	1.8	.0	16.7
M. EB Depart	8	750 166 750	* AG	1531	1.8	.0	16.7
N. EB External	166	750 766 750	* AG	1531	1.2	.0	16.7
O. WB External	766	764 166 764	* AG	687	1.2	.0	16.7
P. WB Approach	166	764 8 764	* AG	515	1.8	.0	16.7
Q. WB Depart	8	764 -150 764	* AG	1255	1.8	.0	16.7
R. WB External	-150	764 -750 764	* AG	1255	1.2	.0	16.7
S. EB Left	31	-150 750 8 757	* AG	310	1.8	.0	16.7
T. WB Left	17	166 764 8 757	* AG	172	1.8	.0	16.7

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: GH Balboa Blvd & San Fern. Mission PM 20
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* COORDINATES (M)
	X Y Z
1. Receptor	* -3 747 2.0
2. Receptor	* 19 747 2.0
3. Receptor	* 19 767 2.0
4. Receptor	* -3 767 2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	CONC/LINK (PPM)				
						D	E	F	G	H
1. Receptor	* 88.	* .6	* .0	* .0	* .0	.0	.0	.0	.0	.0
2. Receptor	* 357.	* .6	* .0	* .0	* .2	.0	.0	.0	.0	.0
3. Receptor	* 182.	* .6	* .0	* .3	* .0	.0	.0	.0	.0	.0
4. Receptor	* 176.	* .6	* .0	* .0	* .0	.0	.0	.0	.0	.0

RECEPTOR	* I	* J	* K	* L	* M	CONC/LINK (PPM)						
						N	O	P	Q	R	S	T
1. Receptor	* .0	* .0	* .0	* .0	* .3	.0	.0	.0	.0	.0	.0	.0
2. Receptor	* .0	* .0	* .0	* .0	* .0	.0	.0	.0	.0	.0	.0	.0
3. Receptor	* .0	* .0	* .0	* .0	* .0	.0	.0	.0	.0	.0	.0	.0
4. Receptor	* .2	* .0	* .0	* .0	* .0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: GH Balboa Blvd & Sesson Rd PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK X1	COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)	
A. NB External	16	0	16	600	* AG	3355	1.2	.0	18.9	
B. NB Approach	16	600	16	758	* AG	2237	1.8	.0	18.9	
C. NB Depart	16	758	16	916	* AG	2473	1.8	.0	18.9	
D. NB External	16	916	16	1516	* AG	2473	1.2	.0	18.9	
E. NB Left	11	16	600	8	758	* AG	1118	1.8	.0	18.9
F. SB Left	0	0	916	8	758	* AG	0	1.8	.0	18.9
G. SB External	0	1516	0	916	* AG	2291	1.2	.0	18.9	
H. SB Approach	0	916	0	758	* AG	2291	1.8	.0	18.9	
I. SB Depart	0	758	0	600	* AG	1762	1.8	.0	18.9	
J. SB External	0	600	0	0	* AG	1762	1.2	.0	18.9	
K. EB External	-750	750	-150	750	* AG	471	1.2	.0	18.9	
L. EB Approach	-150	750	8	750	* AG	235	1.8	.0	18.9	
M. EB Depart	8	750	166	750	* AG	0	1.8	.0	18.9	
N. EB External	166	750	766	750	* AG	0	1.2	.0	18.9	
O. WB External	766	766	166	766	* AG	0	1.2	.0	18.9	
P. WB Approach	166	766	8	766	* AG	0	1.8	.0	18.9	
Q. WB Depart	8	766	-150	766	* AG	1882	1.8	.0	18.9	
R. WB External	-150	766	-750	766	* AG	1882	1.2	.0	18.9	
S. EB Left	23	-150	750	8	758	* AG	236	1.8	.0	18.9
T. WB Left	0	166	766	8	758	* AG	0	1.8	.0	18.9

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: GH Balboa Blvd & Sesson Rd PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (M) Y	Z
1. Receptor	-3	747	2.0
2. Receptor	19	747	2.0
3. Receptor	19	769	2.0
4. Receptor	-3	769	2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	B	C	CONC/LINK (PPM)				
						D	E	F	G	H
1. Receptor	3.	.7	.0	.0	.0	.0	.0	.0	.0	.4
2. Receptor	357.	.7	.0	.4	.0	.0	.0	.0	.0	.0
3. Receptor	183.	.8	.0	.3	.0	.1	.0	.0	.0	.0
4. Receptor	175.	.8	.1	.0	.0	.1	.0	.0	.0	.0

RECEPTOR	* I	J	K	L	M	CONC/LINK (PPM)						
						N	O	P	Q	R	S	T
1. Receptor	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. Receptor	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. Receptor	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. Receptor	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: GH Balboa Blvd & Woodley PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)	
A. NB External	16	0	16	600	* AG	3305	1.2	.0	18.9	
B. NB Approach	16	600	16	755	* AG	2479	1.8	.0	18.9	
C. NB Depart	16	755	16	910	* AG	1822	1.8	.0	18.9	
D. NB External	16	910	16	1510	* AG	1822	1.2	.0	18.9	
E. NB Left	82	16	600	8	755	* AG	826	1.8	.0	18.9
F. SB Left	51	0	910	8	755	* AG	517	1.8	.0	18.9
G. SB External	0	1510	0	910	* AG	2069	1.2	.0	18.9	
H. SB Approach	0	910	0	755	* AG	1552	1.8	.0	18.9	
I. SB Depart	0	755	0	600	* AG	1204	1.8	.0	18.9	
J. SB External	0	600	0	0	* AG	1204	1.2	.0	18.9	
K. EB External	-750	750	-150	750	* AG	284	1.2	.0	12.8	
L. EB Approach	-150	750	8	750	* AG	213	1.8	.0	12.8	
M. EB Depart	8	750	166	750	* AG	1485	1.8	.0	12.8	
N. EB External	166	750	766	750	* AG	1485	1.2	.0	12.8	
O. WB External	766	760	166	760	* AG	392	1.2	.0	12.8	
P. WB Approach	166	760	8	760	* AG	294	1.8	.0	12.8	
Q. WB Depart	8	760	-150	760	* AG	1539	1.8	.0	12.8	
R. WB External	-150	760	-750	760	* AG	1539	1.2	.0	12.8	
S. EB Left	71	-150	750	8	755	* AG	71	1.8	.0	12.8
T. WB Left	98	166	760	8	755	* AG	98	1.8	.0	12.8

□□

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: GH Balboa Blvd & Woodley PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (M) Y	Z
1. Receptor	-3	747	2.0
2. Receptor	19	747	2.0
3. Receptor	19	763	2.0
4. Receptor	-3	763	2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	CONC/LINK (PPM)				
						D	E	F	G	H
1. Receptor	3.	.6	.0	.0	.0	.0	.0	.0	.0	.3
2. Receptor	356.	.7	.0	.0	.3	.0	.0	.0	.0	.0
3. Receptor	182.	.8	.1	.4	.0	.0	.1	.0	.0	.0
4. Receptor	174.	.6	.0	.1	.0	.0	.0	.0	.0	.0

RECEPTOR	* I	* J	* K	* L	* M	CONC/LINK (PPM)						
						N	O	P	Q	R	S	T
1. Receptor	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. Receptor	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. Receptor	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. Receptor	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: GH woodley Ave & Chatsworth PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK X1	COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NB External	16	0	16	600	* AG	1963	1.2	.0	18.9
B. NB Approach	16	600	16	757	* AG	1472	1.8	.0	18.9
C. NB Depart	16	757	16	914	* AG	1444	1.8	.0	18.9
D. NB External	16	914	16	1514	* AG	1444	1.2	.0	18.9
E. NB Left 49	16	600	8	757	* AG	491	1.8	.0	18.9
F. SB Left 13	0	914	8	757	* AG	130	1.8	.0	18.9
G. SB External	0	1514	0	914	* AG	518	1.2	.0	18.9
H. SB Approach	0	914	0	757	* AG	388	1.8	.0	18.9
I. SB Depart	0	757	0	600	* AG	721	1.8	.0	18.9
J. SB External	0	600	0	0	* AG	721	1.2	.0	18.9
K. EB External	-750	750	-150	750	* AG	1077	1.2	.0	16.7
L. EB Approach	-150	750	8	750	* AG	808	1.8	.0	16.7
M. EB Depart	8	750	166	750	* AG	1160	1.8	.0	16.7
N. EB External	166	750	766	750	* AG	1160	1.2	.0	16.7
O. WB External	766	764	166	764	* AG	774	1.2	.0	16.7
P. WB Approach	166	764	8	764	* AG	580	1.8	.0	16.7
Q. WB Depart	8	764	-150	764	* AG	1007	1.8	.0	16.7
R. WB External	-150	764	-750	764	* AG	1007	1.2	.0	16.7
S. EB Left 26	-150	750	8	757	* AG	269	1.8	.0	16.7
T. WB Left 19	166	764	8	757	* AG	194	1.8	.0	16.7

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: GH woodley Ave & Chatsworth PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (M) Y	Z
1. Receptor	-3	747	2.0
2. Receptor	19	747	2.0
3. Receptor	19	767	2.0
4. Receptor	-3	767	2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	CONC/LINK (PPM)				
						D	E	F	G	H
1. Receptor	88.	.5	.0	.0	.0	.0	.0	.0	.0	.0
2. Receptor	358.	.5	.0	.2	.0	.0	.0	.0	.0	.0
3. Receptor	182.	.6	.0	.2	.0	.0	.0	.0	.0	.0
4. Receptor	175.	.4	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	* I	* J	* K	* L	* M	CONC/LINK (PPM)						
						N	O	P	Q	R	S	T
1. Receptor	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
2. Receptor	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. Receptor	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. Receptor	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: GH Zelzah & Chatsworth PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 396. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NB External	10	0	10	600	* AG	971	1.2	.0	12.8
B. NB Approach	10	600	10	757	* AG	728	1.8	.0	12.8
C. NB Depart	10	757	10	914	* AG	1117	1.8	.0	12.8
D. NB External	10	914	10	1514	* AG	1117	1.2	.0	12.8
E. NB Left 24	10	600	5	757	* AG	243	1.8	.0	12.8
F. SB Left 17	0	914	5	757	* AG	178	1.8	.0	12.8
G. SB External	0	1514	0	914	* AG	712	1.2	.0	12.8
H. SB Approach	0	914	0	757	* AG	534	1.8	.0	12.8
I. SB Depart	0	757	0	600	* AG	988	1.8	.0	12.8
J. SB External	0	600	0	0	* AG	988	1.2	.0	12.8
K. EB External	-750	750	-150	750	* AG	1688	1.2	.0	16.7
L. EB Approach	-150	750	5	750	* AG	1266	1.8	.0	16.7
M. EB Depart	5	750	160	750	* AG	1265	1.8	.0	16.7
N. EB External	160	750	760	750	* AG	1265	1.2	.0	16.7
O. WB External	760	764	160	764	* AG	839	1.2	.0	16.7
P. WB Approach	160	764	5	764	* AG	629	1.8	.0	16.7
Q. WB Depart	5	764	-150	764	* AG	840	1.8	.0	16.7
R. WB External	-150	764	-750	764	* AG	840	1.2	.0	16.7
S. EB Left 42	-150	750	5	757	* AG	422	1.8	.0	16.7
T. WB Left 21	160	764	5	757	* AG	210	1.8	.0	16.7

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: GH Zelzah & Chatsworth PM 2030
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (M) Y	Z
1. Receptor	-3	747	2.0
2. Receptor	13	747	2.0
3. Receptor	13	767	2.0
4. Receptor	-3	767	2.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	CONC/LINK (PPM)				
						D	E	F	G	H
1. Receptor	88.	.5	.0	.0	.0	.0	.0	.0	.0	.0
2. Receptor	272.	.6	.0	.0	.0	.0	.0	.0	.0	.0
3. Receptor	183.	.5	.0	.2	.0	.0	.0	.0	.0	.0
4. Receptor	177.	.5	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	* I	* J	* K	* L	* M	CONC/LINK (PPM)						
						N	O	P	Q	R	S	T
1. Receptor	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
2. Receptor	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
3. Receptor	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. Receptor	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

□□



Granada Hills - Knollwood CalEEMod 2005 Output

**Granada Hills Existing Condition
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	2883.46	1000sqft
Manufacturing	28.18	1000sqft
Apartments Low Rise	3226	Dwelling Unit
Single Family Housing	15987	Dwelling Unit

1.2 Other Project Characteristics

Urbanization Urban **Wind Speed (m/s)** 2.2 **Utility Company** Los Angeles Department of Water & Power
Climate Zone 11 **Precipitation Freq (Days)** 33

1.3 User Entered Comments

Project Characteristics - Existing Year is 2005. Historic data used.
 Land Use - Acreage, Population, and Unit Amounts from Project Description
 Construction Phase - No Construction, already built
 Off-road Equipment - No Construction

Vehicle Trips - Based on LA GPF

Energy Use - This is the existing year of 2005, historic data is appropriate

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,986.10	119.05	8,221.74	15.45		0.00	1,023.80		0.00	1,023.57	135,580.99	348,722.85		541.32	8.30	498,244.19
Energy	24.37	208.82	92.91	1.33		0.00	16.84		0.00	16.84		265,828.60		5.10	4.87	267,446.39
Mobile	2,437.71	5,346.03	23,017.90	35.51	1,837.29	159.93	1,997.22	63.27	159.93	223.20		1,793,579.76		176.72		1,797,290.80
Total	5,448.18	5,673.90	31,332.55	52.29	1,837.29	159.93	3,037.86	63.27	159.93	1,263.61	135,580.99	2,408,131.21		723.14	13.17	2,562,981.38

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,986.10	119.05	8,221.74	15.45		0.00	1,023.80		0.00	1,023.57	135,580.99	348,722.85		541.32	8.30	498,244.19
Energy	24.37	208.82	92.91	1.33		0.00	16.84		0.00	16.84		265,828.60		5.10	4.87	267,446.39
Mobile	2,437.71	5,346.03	23,017.90	35.51	1,837.29	159.93	1,997.22	63.27	159.93	223.20		1,793,579.76		176.72		1,797,290.80
Total	5,448.18	5,673.90	31,332.55	52.29	1,837.29	159.93	3,037.86	63.27	159.93	1,263.61	135,580.99	2,408,131.21		723.14	13.17	2,562,981.38

3.0 Construction Detail

3.1 Mitigation Measures Construction

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2,437.71	5,346.03	23,017.90	35.51	1,837.29	159.93	1,997.22	63.27	159.93	223.20		1,793,579.76		176.72		1,797,290.80
Unmitigated	2,437.71	5,346.03	23,017.90	35.51	1,837.29	159.93	1,997.22	63.27	159.93	223.20		1,793,579.76		176.72		1,797,290.80
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	21,259.34	23,098.16	19581.82	56,441,737	56,441,737
General Office Building	31,746.89	6,833.80	2825.79	50,144,048	50,144,048
Manufacturing	107.65	41.99	17.47	202,970	202,970
Single Family Housing	152,995.59	161,148.96	140205.99	403,993,975	403,993,975
Total	206,109.47	191,122.91	162,631.07	510,782,729	510,782,729

4.3 Trip Type Information

Land Use	Miles			Trip %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Apartments Low Rise	10.00	7.00	7.00	40.20	19.20	40.60
General Office Building	7.00	7.00	7.00	33.00	48.00	19.00

Land Use	Miles			Trip %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Manufacturing	7.00	7.00	7.00	59.00	28.00	13.00
Single Family Housing	10.00	7.00	7.00	40.20	19.20	40.60

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	24.37	208.82	92.91	1.33		0.00	16.84		0.00	16.84		265,828.60		5.10	4.87	267,446.39
NaturalGas Unmitigated	24.37	208.82	92.91	1.33		0.00	16.84		0.00	16.84		265,828.60		5.10	4.87	267,446.39
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	194156	2.09	17.89	7.61	0.11		0.00	1.45		0.00	1.45		22,841.85		0.44	0.42	22,980.86
General Office Building	98274.6	1.06	9.63	8.09	0.06		0.00	0.73		0.00	0.73		11,561.72		0.22	0.21	11,632.08
Manufacturing	1528.67	0.02	0.15	0.13	0.00		0.00	0.01		0.00	0.01		179.84		0.00	0.00	180.94
Single Family Housing	1.96558e+006	21.20	181.14	77.08	1.16		0.00	14.65		0.00	14.65		231,245.19		4.43	4.24	232,652.51
Total		24.37	208.81	92.91	1.33		0.00	16.84		0.00	16.84		265,828.60		5.09	4.87	267,446.39

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	194.156	2.09	17.89	7.61	0.11		0.00	1.45		0.00	1.45		22,841.85		0.44	0.42	22,980.86
General Office Building	98.2746	1.06	9.63	8.09	0.06		0.00	0.73		0.00	0.73		11,561.72		0.22	0.21	11,632.08
Manufacturing	1.52867	0.02	0.15	0.13	0.00		0.00	0.01		0.00	0.01		179.84		0.00	0.00	180.94
Single Family Housing	1965.58	21.20	181.14	77.08	1.16		0.00	14.65		0.00	14.65		231,245.19		4.43	4.24	232,652.51
Total		24.37	208.81	92.91	1.33		0.00	16.84		0.00	16.84		265,828.60		5.09	4.87	267,446.39

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2,986.10	119.05	8,221.74	15.45		0.00	1,023.80		0.00	1,023.57	135,580.99	348,722.85		541.32	8.30	498,244.19
Unmitigated	2,986.10	119.05	8,221.74	15.45		0.00	1,023.80		0.00	1,023.57	135,580.99	348,722.85		541.32	8.30	498,244.19
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	169.21					0.00	0.00		0.00	0.00						0.00
Consumer Products	691.30					0.00	0.00		0.00	0.00						0.00
Hearth	2,045.00	93.79	6,359.67	15.36		0.00	1,015.96		0.00	1,015.73	135,580.99	345,834.00		536.70	8.30	495,258.11
Landscaping	80.59	25.26	1,862.07	0.08		0.00	7.84		0.00	7.84		2,888.85		4.63		2,986.08
Total	2,986.10	119.05	8,221.74	15.44		0.00	1,023.80		0.00	1,023.57	135,580.99	348,722.85		541.33	8.30	498,244.19

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	169.21					0.00	0.00		0.00	0.00						0.00
Consumer Products	691.30					0.00	0.00		0.00	0.00						0.00
Hearth	2,045.00	93.79	6,359.67	15.36		0.00	1,015.96		0.00	1,015.73	135,580.99	345,834.00		536.70	8.30	495,258.11
Landscaping	80.59	25.26	1,862.07	0.08		0.00	7.84		0.00	7.84		2,888.85		4.63		2,986.08
Total	2,986.10	119.05	8,221.74	15.44		0.00	1,023.80		0.00	1,023.57	135,580.99	348,722.85		541.33	8.30	498,244.19

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

Granada Hills Existing Condition
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	2883.46	1000sqft
Manufacturing	28.18	1000sqft
Apartments Low Rise	3226	Dwelling Unit
Single Family Housing	15987	Dwelling Unit

1.2 Other Project Characteristics

Urbanization Urban **Wind Speed (m/s)** 2.2 **Utility Company** Los Angeles Department of Water & Power
Climate Zone 11 **Precipitation Freq (Days)** 33

1.3 User Entered Comments

Project Characteristics - Existing Year is 2005. Historic data used.
 Land Use - Acreage, Population, and Unit Amounts from Project Description
 Construction Phase - No Construction, already built
 Off-road Equipment - No Construction

Vehicle Trips - Based on LA GPF

Energy Use - This is the existing year of 2005, historic data is appropriate

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,986.10	119.05	8,221.74	15.45		0.00	1,023.80		0.00	1,023.57	135,580.99	348,722.85		541.32	8.30	498,244.19
Energy	24.37	208.82	92.91	1.33		0.00	16.84		0.00	16.84		265,828.60		5.10	4.87	267,446.39
Mobile	2,298.71	4,839.24	22,968.58	36.67	1,837.29	158.10	1,995.39	63.27	158.10	221.37		1,906,948.68		179.79		1,910,724.18
Total	5,309.18	5,167.11	31,283.23	53.45	1,837.29	158.10	3,036.03	63.27	158.10	1,261.78	135,580.99	2,521,500.13		726.21	13.17	2,676,414.76

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,986.10	119.05	8,221.74	15.45		0.00	1,023.80		0.00	1,023.57	135,580.99	348,722.85		541.32	8.30	498,244.19
Energy	24.37	208.82	92.91	1.33		0.00	16.84		0.00	16.84		265,828.60		5.10	4.87	267,446.39
Mobile	2,298.71	4,839.24	22,968.58	36.67	1,837.29	158.10	1,995.39	63.27	158.10	221.37		1,906,948.68		179.79		1,910,724.18
Total	5,309.18	5,167.11	31,283.23	53.45	1,837.29	158.10	3,036.03	63.27	158.10	1,261.78	135,580.99	2,521,500.13		726.21	13.17	2,676,414.76

3.0 Construction Detail

3.1 Mitigation Measures Construction

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2,298.71	4,839.24	22,968.58	36.67	1,837.29	158.10	1,995.39	63.27	158.10	221.37		1,906,948.68		179.79		1,910,724.18
Unmitigated	2,298.71	4,839.24	22,968.58	36.67	1,837.29	158.10	1,995.39	63.27	158.10	221.37		1,906,948.68		179.79		1,910,724.18
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	21,259.34	23,098.16	19581.82	56,441,737	56,441,737
General Office Building	31,746.89	6,833.80	2825.79	50,144,048	50,144,048
Manufacturing	107.65	41.99	17.47	202,970	202,970
Single Family Housing	152,995.59	161,148.96	140205.99	403,993,975	403,993,975
Total	206,109.47	191,122.91	162,631.07	510,782,729	510,782,729

4.3 Trip Type Information

Land Use	Miles			Trip %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Apartments Low Rise	10.00	7.00	7.00	40.20	19.20	40.60
General Office Building	7.00	7.00	7.00	33.00	48.00	19.00

Land Use	Miles			Trip %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Manufacturing	7.00	7.00	7.00	59.00	28.00	13.00
Single Family Housing	10.00	7.00	7.00	40.20	19.20	40.60

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	24.37	208.82	92.91	1.33		0.00	16.84		0.00	16.84		265,828.60		5.10	4.87	267,446.39
NaturalGas Unmitigated	24.37	208.82	92.91	1.33		0.00	16.84		0.00	16.84		265,828.60		5.10	4.87	267,446.39
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	194156	2.09	17.89	7.61	0.11		0.00	1.45		0.00	1.45		22,841.85		0.44	0.42	22,980.86
General Office Building	98274.6	1.06	9.63	8.09	0.06		0.00	0.73		0.00	0.73		11,561.72		0.22	0.21	11,632.08
Manufacturing	1528.67	0.02	0.15	0.13	0.00		0.00	0.01		0.00	0.01		179.84		0.00	0.00	180.94
Single Family Housing	1.96558e+006	21.20	181.14	77.08	1.16		0.00	14.65		0.00	14.65		231,245.19		4.43	4.24	232,652.51
Total		24.37	208.81	92.91	1.33		0.00	16.84		0.00	16.84		265,828.60		5.09	4.87	267,446.39

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	194.156	2.09	17.89	7.61	0.11		0.00	1.45		0.00	1.45		22,841.85		0.44	0.42	22,980.86
General Office Building	98.2746	1.06	9.63	8.09	0.06		0.00	0.73		0.00	0.73		11,561.72		0.22	0.21	11,632.08
Manufacturing	1.52867	0.02	0.15	0.13	0.00		0.00	0.01		0.00	0.01		179.84		0.00	0.00	180.94
Single Family Housing	1965.58	21.20	181.14	77.08	1.16		0.00	14.65		0.00	14.65		231,245.19		4.43	4.24	232,652.51
Total		24.37	208.81	92.91	1.33		0.00	16.84		0.00	16.84		265,828.60		5.09	4.87	267,446.39

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2,986.10	119.05	8,221.74	15.45		0.00	1,023.80		0.00	1,023.57	135,580.99	348,722.85		541.32	8.30	498,244.19
Unmitigated	2,986.10	119.05	8,221.74	15.45		0.00	1,023.80		0.00	1,023.57	135,580.99	348,722.85		541.32	8.30	498,244.19
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	169.21					0.00	0.00		0.00	0.00						0.00
Consumer Products	691.30					0.00	0.00		0.00	0.00						0.00
Hearth	2,045.00	93.79	6,359.67	15.36		0.00	1,015.96		0.00	1,015.73	135,580.99	345,834.00		536.70	8.30	495,258.11
Landscaping	80.59	25.26	1,862.07	0.08		0.00	7.84		0.00	7.84		2,888.85		4.63		2,986.08
Total	2,986.10	119.05	8,221.74	15.44		0.00	1,023.80		0.00	1,023.57	135,580.99	348,722.85		541.33	8.30	498,244.19

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	169.21					0.00	0.00		0.00	0.00						0.00
Consumer Products	691.30					0.00	0.00		0.00	0.00						0.00
Hearth	2,045.00	93.79	6,359.67	15.36		0.00	1,015.96		0.00	1,015.73	135,580.99	345,834.00		536.70	8.30	495,258.11
Landscaping	80.59	25.26	1,862.07	0.08		0.00	7.84		0.00	7.84		2,888.85		4.63		2,986.08
Total	2,986.10	119.05	8,221.74	15.44		0.00	1,023.80		0.00	1,023.57	135,580.99	348,722.85		541.33	8.30	498,244.19

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

Granada Hills - Knollwood CalEEMod 2030 Output

Granada Hills - Proposed Plan
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Single Family Housing	19089	Dwelling Unit
Apartments Low Rise	3794	Dwelling Unit
General Office Building	7399	1000sqft
Industrial Park	57.38	1000sqft

1.2 Other Project Characteristics

Urbanization Urban **Wind Speed (m/s)** 2.2 **Utility Company** Los Angeles Department of Water & Power
Climate Zone 11 **Precipitation Freq (Days)** 33

1.3 User Entered Comments

Project Characteristics - Based on LADWP 2011 Power Integration Resource Plan dated December 22, 2011
 Land Use - Unit amount, acreage, and population based on Project data.
 Construction Phase - No construction schedule available.
 Off-road Equipment - No Construction

Vehicle Trips - Based on LA GPF

Woodstoves -

Energy Use - Defaults used

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3,524.63	133.59	9,479.24	18.40		0.00	1,220.57		0.00	1,220.30	161,479.19	415,334.67		642.49	9.88	593,369.99
Energy	27.83	239.17	110.85	1.52		0.00	19.23		0.00	19.23		303,646.10		5.82	5.57	305,494.04
Mobile	786.28	1,817.55	6,027.25	22.31	2,493.39	108.76	2,602.15	35.47	106.09	141.56		1,790,542.15		51.27		1,791,618.90
Total	4,338.74	2,190.31	15,617.34	42.23	2,493.39	108.76	3,841.95	35.47	106.09	1,381.09	161,479.19	2,509,522.92		699.58	15.45	2,690,482.93

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3,524.63	133.59	9,479.24	18.40		0.00	1,220.57		0.00	1,220.30	161,479.19	415,334.67		642.49	9.88	593,369.99
Energy	27.83	239.17	110.85	1.52		0.00	19.23		0.00	19.23		303,646.10		5.82	5.57	305,494.04
Mobile	786.28	1,817.55	6,027.25	22.31	2,493.39	108.76	2,602.15	35.47	106.09	141.56		1,790,542.15		51.27		1,791,618.90
Total	4,338.74	2,190.31	15,617.34	42.23	2,493.39	108.76	3,841.95	35.47	106.09	1,381.09	161,479.19	2,509,522.92		699.58	15.45	2,690,482.93

3.0 Construction Detail

3.1 Mitigation Measures Construction

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	786.28	1,817.55	6,027.25	22.31	2,493.39	108.76	2,602.15	35.47	106.09	141.56		1,790,542.15		51.27		1,791,618.90
Unmitigated	786.28	1,817.55	6,027.25	22.31	2,493.39	108.76	2,602.15	35.47	106.09	141.56		1,790,542.15		51.27		1,791,618.90
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	25,002.46	27,165.04	23029.58	66,379,402	66,379,402
General Office Building	81,462.99	17,535.63	7251.02	128,670,350	128,670,350
Industrial Park	399.36	142.88	41.89	665,284	665,284
Single Family Housing	182,681.73	192,417.12	167410.53	482,381,997	482,381,997
Total	289,546.54	237,260.67	197,733.02	678,097,033	678,097,033

4.3 Trip Type Information

Land Use	Miles			Trip %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Apartments Low Rise	10.00	7.00	7.00	40.20	19.20	40.60
General Office Building	7.00	7.00	7.00	33.00	48.00	19.00

Land Use	Miles			Trip %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Industrial Park	7.00	7.00	7.00	59.00	28.00	13.00
Single Family Housing	10.00	7.00	7.00	40.20	19.20	40.60

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	27.83	239.17	110.85	1.52		0.00	19.23		0.00	19.23		303,646.10		5.82	5.57	305,494.04
NaturalGas Unmitigated	27.83	239.17	110.85	1.52		0.00	19.23		0.00	19.23		303,646.10		5.82	5.57	305,494.04
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	214367	2.31	19.76	8.41	0.13		0.00	1.60		0.00	1.60		25,219.63		0.48	0.46	25,373.11
General Office Building	221565	2.39	21.72	18.25	0.13		0.00	1.65		0.00	1.65		26,066.42		0.50	0.48	26,225.06
Industrial Park	1718.26	0.02	0.17	0.14	0.00		0.00	0.01		0.00	0.01		202.15		0.00	0.00	203.38
Single Family Housing	2.14334e+006	23.11	197.52	84.05	1.26		0.00	15.97		0.00	15.97		252,157.91		4.83	4.62	253,692.50
Total		27.83	239.17	110.85	1.52		0.00	19.23		0.00	19.23		303,646.11		5.81	5.56	305,494.05

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	214.367	2.31	19.76	8.41	0.13		0.00	1.60		0.00	1.60		25,219.63		0.48	0.46	25,373.11
General Office Building	221.565	2.39	21.72	18.25	0.13		0.00	1.65		0.00	1.65		26,066.42		0.50	0.48	26,225.06
Industrial Park	1.71826	0.02	0.17	0.14	0.00		0.00	0.01		0.00	0.01		202.15		0.00	0.00	203.38
Single Family Housing	2143.34	23.11	197.52	84.05	1.26		0.00	15.97		0.00	15.97		252,157.91		4.83	4.62	253,692.50
Total		27.83	239.17	110.85	1.52		0.00	19.23		0.00	19.23		303,646.11		5.81	5.56	305,494.05

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3,524.63	133.59	9,479.24	18.40		0.00	1,220.57		0.00	1,220.30	161,479.19	415,334.67		642.49	9.88	593,369.99
Unmitigated	3,524.63	133.59	9,479.24	18.40		0.00	1,220.57		0.00	1,220.30	161,479.19	415,334.67		642.49	9.88	593,369.99
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	128.99					0.00	0.00		0.00	0.00						0.00
Consumer Products	903.09					0.00	0.00		0.00	0.00						0.00
Hearth	2,435.62	111.71	7,574.47	18.30		0.00	1,210.02		0.00	1,209.75	161,479.19	411,894.00		639.21	9.88	589,860.59
Landscaping	56.93	21.88	1,904.77	0.10		0.00	10.55		0.00	10.55		3,440.67		3.27		3,509.40
Total	3,524.63	133.59	9,479.24	18.40		0.00	1,220.57		0.00	1,220.30	161,479.19	415,334.67		642.48	9.88	593,369.99

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	128.99					0.00	0.00		0.00	0.00						0.00
Consumer Products	903.09					0.00	0.00		0.00	0.00						0.00
Hearth	2,435.62	111.71	7,574.47	18.30		0.00	1,210.02		0.00	1,209.75	161,479.19	411,894.00		639.21	9.88	589,860.59
Landscaping	56.93	21.88	1,904.77	0.10		0.00	10.55		0.00	10.55		3,440.67		3.27		3,509.40
Total	3,524.63	133.59	9,479.24	18.40		0.00	1,220.57		0.00	1,220.30	161,479.19	415,334.67		642.48	9.88	593,369.99

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

Granada Hills - Proposed Plan
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Single Family Housing	19089	Dwelling Unit
Apartments Low Rise	3794	Dwelling Unit
General Office Building	7399	1000sqft
Industrial Park	57.38	1000sqft

1.2 Other Project Characteristics

Urbanization Urban **Wind Speed (m/s)** 2.2 **Utility Company** Los Angeles Department of Water & Power
Climate Zone 11 **Precipitation Freq (Days)** 33

1.3 User Entered Comments

Project Characteristics - Based on LADWP 2011 Power Integration Resource Plan dated December 22, 2011
 Land Use - Unit amount, acreage, and population based on Project data.
 Construction Phase - No construction schedule available.
 Off-road Equipment - No Construction

Vehicle Trips - Based on LA GPF

Woodstoves -

Energy Use - Defaults used

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3,524.63	133.59	9,479.24	18.40		0.00	1,220.57		0.00	1,220.30	161,479.19	415,334.67		642.49	9.88	593,369.99
Energy	27.83	239.17	110.85	1.52		0.00	19.23		0.00	19.23		303,646.10		5.82	5.57	305,494.04
Mobile	737.34	1,785.83	6,040.82	24.01	2,493.39	108.36	2,601.75	35.47	105.69	141.16		1,900,129.66		56.46		1,901,315.31
Total	4,289.80	2,158.59	15,630.91	43.93	2,493.39	108.36	3,841.55	35.47	105.69	1,380.69	161,479.19	2,619,110.43		704.77	15.45	2,800,179.34

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3,524.63	133.59	9,479.24	18.40		0.00	1,220.57		0.00	1,220.30	161,479.19	415,334.67		642.49	9.88	593,369.99
Energy	27.83	239.17	110.85	1.52		0.00	19.23		0.00	19.23		303,646.10		5.82	5.57	305,494.04
Mobile	737.34	1,785.83	6,040.82	24.01	2,493.39	108.36	2,601.75	35.47	105.69	141.16		1,900,129.66		56.46		1,901,315.31
Total	4,289.80	2,158.59	15,630.91	43.93	2,493.39	108.36	3,841.55	35.47	105.69	1,380.69	161,479.19	2,619,110.43		704.77	15.45	2,800,179.34

3.0 Construction Detail

3.1 Mitigation Measures Construction

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	737.34	1,785.83	6,040.82	24.01	2,493.39	108.36	2,601.75	35.47	105.69	141.16		1,900,129.66		56.46		1,901,315.31
Unmitigated	737.34	1,785.83	6,040.82	24.01	2,493.39	108.36	2,601.75	35.47	105.69	141.16		1,900,129.66		56.46		1,901,315.31
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	25,002.46	27,165.04	23029.58	66,379,402	66,379,402
General Office Building	81,462.99	17,535.63	7251.02	128,670,350	128,670,350
Industrial Park	399.36	142.88	41.89	665,284	665,284
Single Family Housing	182,681.73	192,417.12	167410.53	482,381,997	482,381,997
Total	289,546.54	237,260.67	197,733.02	678,097,033	678,097,033

4.3 Trip Type Information

Land Use	Miles			Trip %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Apartments Low Rise	10.00	7.00	7.00	40.20	19.20	40.60
General Office Building	7.00	7.00	7.00	33.00	48.00	19.00

Land Use	Miles			Trip %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Industrial Park	7.00	7.00	7.00	59.00	28.00	13.00
Single Family Housing	10.00	7.00	7.00	40.20	19.20	40.60

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	27.83	239.17	110.85	1.52		0.00	19.23		0.00	19.23		303,646.10		5.82	5.57	305,494.04
NaturalGas Unmitigated	27.83	239.17	110.85	1.52		0.00	19.23		0.00	19.23		303,646.10		5.82	5.57	305,494.04
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	214367	2.31	19.76	8.41	0.13		0.00	1.60		0.00	1.60		25,219.63		0.48	0.46	25,373.11
General Office Building	221565	2.39	21.72	18.25	0.13		0.00	1.65		0.00	1.65		26,066.42		0.50	0.48	26,225.06
Industrial Park	1718.26	0.02	0.17	0.14	0.00		0.00	0.01		0.00	0.01		202.15		0.00	0.00	203.38
Single Family Housing	2.14334e+006	23.11	197.52	84.05	1.26		0.00	15.97		0.00	15.97		252,157.91		4.83	4.62	253,692.50
Total		27.83	239.17	110.85	1.52		0.00	19.23		0.00	19.23		303,646.11		5.81	5.56	305,494.05

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	214.367	2.31	19.76	8.41	0.13		0.00	1.60		0.00	1.60		25,219.63		0.48	0.46	25,373.11
General Office Building	221.565	2.39	21.72	18.25	0.13		0.00	1.65		0.00	1.65		26,066.42		0.50	0.48	26,225.06
Industrial Park	1.71826	0.02	0.17	0.14	0.00		0.00	0.01		0.00	0.01		202.15		0.00	0.00	203.38
Single Family Housing	2143.34	23.11	197.52	84.05	1.26		0.00	15.97		0.00	15.97		252,157.91		4.83	4.62	253,692.50
Total		27.83	239.17	110.85	1.52		0.00	19.23		0.00	19.23		303,646.11		5.81	5.56	305,494.05

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3,524.63	133.59	9,479.24	18.40		0.00	1,220.57		0.00	1,220.30	161,479.19	415,334.67		642.49	9.88	593,369.99
Unmitigated	3,524.63	133.59	9,479.24	18.40		0.00	1,220.57		0.00	1,220.30	161,479.19	415,334.67		642.49	9.88	593,369.99
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	128.99					0.00	0.00		0.00	0.00						0.00
Consumer Products	903.09					0.00	0.00		0.00	0.00						0.00
Hearth	2,435.62	111.71	7,574.47	18.30		0.00	1,210.02		0.00	1,209.75	161,479.19	411,894.00		639.21	9.88	589,860.59
Landscaping	56.93	21.88	1,904.77	0.10		0.00	10.55		0.00	10.55		3,440.67		3.27		3,509.40
Total	3,524.63	133.59	9,479.24	18.40		0.00	1,220.57		0.00	1,220.30	161,479.19	415,334.67		642.48	9.88	593,369.99

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	128.99					0.00	0.00		0.00	0.00						0.00
Consumer Products	903.09					0.00	0.00		0.00	0.00						0.00
Hearth	2,435.62	111.71	7,574.47	18.30		0.00	1,210.02		0.00	1,209.75	161,479.19	411,894.00		639.21	9.88	589,860.59
Landscaping	56.93	21.88	1,904.77	0.10		0.00	10.55		0.00	10.55		3,440.67		3.27		3,509.40
Total	3,524.63	133.59	9,479.24	18.40		0.00	1,220.57		0.00	1,220.30	161,479.19	415,334.67		642.48	9.88	593,369.99

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation
