Appendix B Air Quality Data

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
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)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	2,937.54	3,092.15	35,319.73	29.38	2,640.98

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	2,729.94	4,495.49	33,794.40	27.12	2,640.98

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	523.47	649.69	6,353.06	5.22	481.98

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	2,729.94	4,495.49	33,794.40	27.12	2,640.98
TOTAL EMISSIONS (lbs/day)	2,729.94	4,495.49	33,794.40	27.12	2,640.98

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	10,046.30	9.57 trips/dwelling unit	30,138.90	288,429.27
		Sum of Total Trips		288,429.27
		Total Vehicle Miles Traveled		1,736,344.22

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	56.10	2.30	97.10	0.60
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.50	1.90	96.80	1.30
Med Truck 5,751- 8,500	6.80	1.50	95.60	2.90
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.80	0.00	12.50	87.50
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.60	87.50	12.50	0.00
School Bus	0.30	0.00	0.00	100.00
Motor Home	1.40	14.30	78.60	7.10

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	0.0	0.0	100.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 0.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 100.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
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)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	2,937.54	3,092.15	35,319.73	29.38	2,640.98
TOTAL EMISSIONS (lbs/day)	2,937.54	3,092.15	35,319.73	29.38	2,640.98

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	10,046.30	9.57 trips/dwelling unit	30,138.90	288,429.27
		Sum of Total Trips		288,429.27
		Total Vehicle Miles Traveled		1,736,344.22

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	56.10	2.30	97.10	0.60
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.50	1.90	96.80	1.30
Med Truck 5,751- 8,500	6.80	1.50	95.60	2.90
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.80	0.00	12.50	87.50
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.60	87.50	12.50	0.00
School Bus	0.30	0.00	0.00	100.00
Motor Home	1.40	14.30	78.60	7.10

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	0.0	0.0	100.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The home based work selection item changed from 8 to 7.
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The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	523.47	649.69	6,353.06	5.22	481.98
TOTAL EMISSIONS (tons/yr)	523.47	649.69	6,353.06	5.22	481.98

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	10,046.30	9.57 trips/dwelling unit	30,138.90	288,429.27
		Sum of Total Trips		288,429.27
		Total Vehicle Miles Traveled		1,736,344.22

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	56.10	2.30	97.10	0.60
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.50	1.90	96.80	1.30
Med Truck 5,751- 8,500	6.80	1.50	95.60	2.90
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.80	0.00	12.50	87.50
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.60	87.50	12.50	0.00
School Bus	0.30	0.00	0.00	100.00
Motor Home	1.40	14.30	78.60	7.10

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	0.0	0.0	100.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 0.
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The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
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)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	359.52	396.22	4,839.33	4.19	363.66

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	356.90	582.83	4,258.56	3.71	363.66

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	65.45	83.66	847.85	0.74	66.37

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	356.90	582.83	4,258.56	3.71	363.66
TOTAL EMISSIONS (lbs/day)	356.90	582.83	4,258.56	3.71	363.66

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	722.60	9.57 trips/dwelling unit	2,167.80	20,745.85
		Sum of Total Trips		20,745.85
		Total Vehicle Miles Traveled		238,577.23

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	56.10	2.30	97.10	0.60
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.50	1.90	96.80	1.30
Med Truck 5,751- 8,500	6.80	1.50	95.60	2.90
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.80	0.00	12.50	87.50
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.60	87.50	12.50	0.00
School Bus	0.30	0.00	0.00	100.00
Motor Home	1.40	14.30	78.60	7.10

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
The home based shopping selection item changed from 9 to 8.
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The home based other selection item changed from 9 to 8.
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The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
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)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	359.52	396.22	4,839.33	4.19	363.66
TOTAL EMISSIONS (lbs/day)	359.52	396.22	4,839.33	4.19	363.66

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	722.60	9.57 trips/dwelling unit	2,167.80	20,745.85
		Sum of Total Trips		20,745.85
		Total Vehicle Miles Traveled		238,577.23

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	56.10	2.30	97.10	0.60
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.50	1.90	96.80	1.30
Med Truck 5,751- 8,500	6.80	1.50	95.60	2.90
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.80	0.00	12.50	87.50
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.60	87.50	12.50	0.00
School Bus	0.30	0.00	0.00	100.00
Motor Home	1.40	14.30	78.60	7.10

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
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The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	65.45	83.66	847.85	0.74	66.37
TOTAL EMISSIONS (tons/yr)	65.45	83.66	847.85	0.74	66.37

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	722.60	9.57 trips/dwelling unit	2,167.80	20,745.85
		Sum of Total Trips		20,745.85
		Total Vehicle Miles Traveled		238,577.23

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	56.10	2.30	97.10	0.60
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.50	1.90	96.80	1.30
Med Truck 5,751- 8,500	6.80	1.50	95.60	2.90
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.80	0.00	12.50	87.50
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.60	87.50	12.50	0.00
School Bus	0.30	0.00	0.00	100.00
Motor Home	1.40	14.30	78.60	7.10

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
The home based shopping selection item changed from 9 to 8.
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The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
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)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	3,089.94	3,405.38	41,592.39	36.02	3,125.57

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	3,067.44	5,009.23	36,600.84	31.88	3,125.57

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	562.54	719.05	7,286.96	6.32	570.42

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	3,067.44	5,009.23	36,600.84	31.88	3,125.57
TOTAL EMISSIONS (lbs/day)	3,067.44	5,009.23	36,600.84	31.88	3,125.57

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	6,210.50	9.57 trips/dwelling unit	18,631.50	178,303.46
		Sum of Total Trips		178,303.46
		Total Vehicle Miles Traveled		2,050,489.73

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	56.10	2.30	97.10	0.60
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.50	1.90	96.80	1.30
Med Truck 5,751- 8,500	6.80	1.50	95.60	2.90
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.80	0.00	12.50	87.50
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.60	87.50	12.50	0.00
School Bus	0.30	0.00	0.00	100.00
Motor Home	1.40	14.30	78.60	7.10

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
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)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	3,089.94	3,405.38	41,592.39	36.02	3,125.57
TOTAL EMISSIONS (lbs/day)	3,089.94	3,405.38	41,592.39	36.02	3,125.57

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	6,210.50	9.57 trips/dwelling unit	18,631.50	178,303.46
		Sum of Total Trips		178,303.46
		Total Vehicle Miles Traveled		2,050,489.73

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	56.10	2.30	97.10	0.60
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.50	1.90	96.80	1.30
Med Truck 5,751- 8,500	6.80	1.50	95.60	2.90
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.80	0.00	12.50	87.50
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.60	87.50	12.50	0.00
School Bus	0.30	0.00	0.00	100.00
Motor Home	1.40	14.30	78.60	7.10

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	562.54	719.05	7,286.96	6.32	570.42
TOTAL EMISSIONS (tons/yr)	562.54	719.05	7,286.96	6.32	570.42

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	6,210.50	9.57 trips/dwelling unit	18,631.50	178,303.46
		Sum of Total Trips		178,303.46
		Total Vehicle Miles Traveled		2,050,489.73

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	56.10	2.30	97.10	0.60
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.50	1.90	96.80	1.30
Med Truck 5,751- 8,500	6.80	1.50	95.60	2.90
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.80	0.00	12.50	87.50
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.60	87.50	12.50	0.00
School Bus	0.30	0.00	0.00	100.00
Motor Home	1.40	14.30	78.60	7.10

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
The home based shopping selection item changed from 9 to 8.
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The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
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)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	5,803.45	5,659.17	63,185.28	56.99	5,174.99

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	4,574.75	8,308.29	57,251.84	52.44	5,174.99

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	984.38	1,193.95	11,170.36	10.12	944.44

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
General office building	4,574.75	8,308.29	57,251.84	52.44	5,174.99
TOTAL EMISSIONS (lbs/day)	4,574.75	8,308.29	57,251.84	52.44	5,174.99

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
General office building		3.32 trips/1000 sq. ft.	97,706.60	324,385.91
		Sum of Total Trips		324,385.91
		Total Vehicle Miles Traveled		3,406,052.08

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	56.10	2.30	97.10	0.60
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.50	1.90	96.80	1.30
Med Truck 5,751- 8,500	6.80	1.50	95.60	2.90
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.80	0.00	12.50	87.50
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.60	87.50	12.50	0.00
School Bus	0.30	0.00	0.00	100.00
Motor Home	1.40	14.30	78.60	7.10

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.5	10.5	10.5
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	0.0	0.0	0.0			
% of Trips - Commercial (by land use)						
General office building				35.0	17.5	47.5

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 0.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 10.5.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 10.5.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 10.5.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
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)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
General office building	5,803.45	5,659.17	63,185.28	56.99	5,174.99
TOTAL EMISSIONS (lbs/day)	5,803.45	5,659.17	63,185.28	56.99	5,174.99

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
General office building		3.32 trips/1000 sq. ft.	97,706.60	324,385.91
		Sum of Total Trips		324,385.91
		Total Vehicle Miles Traveled		3,406,052.08

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	56.10	2.30	97.10	0.60
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.50	1.90	96.80	1.30
Med Truck 5,751- 8,500	6.80	1.50	95.60	2.90
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.80	0.00	12.50	87.50
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.60	87.50	12.50	0.00
School Bus	0.30	0.00	0.00	100.00
Motor Home	1.40	14.30	78.60	7.10

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.5	10.5	10.5
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	0.0	0.0	0.0			
% of Trips - Commercial (by land use)						
General office building				35.0	17.5	47.5

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 0.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 10.5.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 10.5.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 10.5.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Existing (2005)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
General office building	984.38	1,193.95	11,170.36	10.12	944.44
TOTAL EMISSIONS (tons/yr)	984.38	1,193.95	11,170.36	10.12	944.44

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
General office building		3.32 trips/1000 sq. ft.	97,706.60	324,385.91
		Sum of Total Trips		324,385.91
		Total Vehicle Miles Traveled		3,406,052.08

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	56.10	2.30	97.10	0.60
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.50	1.90	96.80	1.30
Med Truck 5,751- 8,500	6.80	1.50	95.60	2.90
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.80	0.00	12.50	87.50
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.60	87.50	12.50	0.00
School Bus	0.30	0.00	0.00	100.00
Motor Home	1.40	14.30	78.60	7.10

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.5	10.5	10.5
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	0.0	0.0	0.0			
% of Trips - Commercial (by land use)						
General office building				35.0	17.5	47.5

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 0.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 10.5.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 10.5.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 10.5.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
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)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	720.87	558.53	7,347.60	21.19	3,229.83

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	605.92	800.15	6,776.61	18.38	3,229.83

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	124.57	116.63	1,306.20	3.70	589.44

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	605.92	800.15	6,776.61	18.38	3,229.83
TOTAL EMISSIONS (lbs/day)	605.92	800.15	6,776.61	18.38	3,229.83

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	12,363.00	9.57 trips/dwelling unit	37,089.00	354,941.73
		Sum of Total Trips		354,941.73
		Total Vehicle Miles Traveled		2,136,749.21

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	0.0	0.0	100.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 0.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 100.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
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)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	720.87	558.53	7,347.60	21.19	3,229.83
TOTAL EMISSIONS (lbs/day)	720.87	558.53	7,347.60	21.19	3,229.83

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	12,363.00	9.57 trips/dwelling unit	37,089.00	354,941.73
		Sum of Total Trips		354,941.73
		Total Vehicle Miles Traveled		2,136,749.21

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	0.0	0.0	100.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 0.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 100.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	124.57	116.63	1,306.20	3.70	589.44
TOTAL EMISSIONS (tons/yr)	124.57	116.63	1,306.20	3.70	589.44

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	12,363.00	9.57 trips/dwelling unit	37,089.00	354,941.73
		Sum of Total Trips		354,941.73
		Total Vehicle Miles Traveled		2,136,749.21

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	0.0	0.0	100.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 0.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 100.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
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)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	715.43	625.40	8,975.85	28.00	3,959.08

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	691.66	911.36	7,522.31	22.66	3,959.08

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	129.12	131.53	1,549.67	4.79	722.53

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	691.66	911.36	7,522.31	22.66	3,959.08
TOTAL EMISSIONS (lbs/day)	691.66	911.36	7,522.31	22.66	3,959.08

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	7,921.30	9.57 trips/dwelling unit	23,763.90	227,420.52
		Sum of Total Trips		227,420.52
		Total Vehicle Miles Traveled		2,615,336.01

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
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)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	715.43	625.40	8,975.85	28.00	3,959.08
TOTAL EMISSIONS (lbs/day)	715.43	625.40	8,975.85	28.00	3,959.08

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	7,921.30	9.57 trips/dwelling unit	23,763.90	227,420.52
		Sum of Total Trips		227,420.52
		Total Vehicle Miles Traveled		2,615,336.01

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	129.12	131.53	1,549.67	4.79	722.53
TOTAL EMISSIONS (tons/yr)	129.12	131.53	1,549.67	4.79	722.53

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	7,921.30	9.57 trips/dwelling unit	23,763.90	227,420.52
		Sum of Total Trips		227,420.52
		Total Vehicle Miles Traveled		2,615,336.01

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
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)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	73.24	64.02	918.89	2.87	405.31

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	70.81	93.30	770.09	2.32	405.31

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	13.22	13.47	158.65	0.49	73.97

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	70.81	93.30	770.09	2.32	405.31
TOTAL EMISSIONS (lbs/day)	70.81	93.30	770.09	2.32	405.31

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	810.93	9.57 trips/dwelling unit	2,432.80	23,281.90
		Sum of Total Trips		23,281.90
		Total Vehicle Miles Traveled		267,741.80

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
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)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	73.24	64.02	918.89	2.87	405.31
TOTAL EMISSIONS (lbs/day)	73.24	64.02	918.89	2.87	405.31

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	810.93	9.57 trips/dwelling unit	2,432.80	23,281.90
		Sum of Total Trips		23,281.90
		Total Vehicle Miles Traveled		267,741.80

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	13.22	13.47	158.65	0.49	73.97
TOTAL EMISSIONS (tons/yr)	13.22	13.47	158.65	0.49	73.97

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	810.93	9.57 trips/dwelling unit	2,432.80	23,281.90
		Sum of Total Trips		23,281.90
		Total Vehicle Miles Traveled		267,741.80

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
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)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	1,541.46	1,040.56	13,593.93	42.77	6,606.64

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	1,084.14	1,512.13	11,732.44	37.00	6,606.64

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	253.50	218.59	2,367.65	7.45	1,205.71

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
General office building	1,084.14	1,512.13	11,732.44	37.00	6,606.64
TOTAL EMISSIONS (lbs/day)	1,084.14	1,512.13	11,732.44	37.00	6,606.64

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
General office building		3.32 trips/1000 sq. ft.	125,524.10	416,740.01
		Sum of Total Trips		416,740.01
		Total Vehicle Miles Traveled		4,375,770.13

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.5	10.5	10.5
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	0.0	0.0	0.0			
% of Trips - Commercial (by land use)						
General office building				35.0	17.5	47.5

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 0.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 10.5.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 10.5.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 10.5.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
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)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
General office building	1,541.46	1,040.56	13,593.93	42.77	6,606.64
TOTAL EMISSIONS (lbs/day)	1,541.46	1,040.56	13,593.93	42.77	6,606.64

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
General office building		3.32 trips/1000 sq. ft.	125,524.104	16,740.01
		Sum of Total Trips		416,740.01
		Total Vehicle Miles Traveled		4,375,770.13

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.5	10.5	10.5
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	0.0	0.0	0.0			
% of Trips - Commercial (by land use)						
General office building				35.0	17.5	47.5

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 0.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 10.5.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 10.5.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 10.5.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
General office building	253.50	218.59	2,367.65	7.45	1,205.71
TOTAL EMISSIONS (tons/yr)	253.50	218.59	2,367.65	7.45	1,205.71

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
General office building		3.32 trips/1000 sq. ft.	125,524.10	416,740.01
		Sum of Total Trips		416,740.01
		Total Vehicle Miles Traveled		4,375,770.13

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.5	10.5	10.5
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	0.0	0.0	0.0			
% of Trips - Commercial (by land use)						
General office building				35.0	17.5	47.5

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 0.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 10.5.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 10.5.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 10.5.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
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)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	765.72	593.29	7,804.81	22.51	3,430.81

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality da
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	643.63	849.94	7,198.29	19.53	3,430.81

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	132.32	123.89	1,387.48	3.93	626.12

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	643.63	849.94	7,198.29	19.53	3,430.81
TOTAL EMISSIONS (lbs/day)	643.63	849.94	7,198.29	19.53	3,430.81

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	13,132.30	9.57 trips/dwelling unit	39,396.90	377,028.33
		Sum of Total Trips		377,028.33
		Total Vehicle Miles Traveled		2,269,710.56

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	0.0	0.0	100.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 0.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 100.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
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)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	765.72	593.29	7,804.81	22.51	3,430.81
TOTAL EMISSIONS (lbs/day)	765.72	593.29	7,804.81	22.51	3,430.81

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	13,132.30	9.57 trips/dwelling unit	39,396.90	377,028.33
		Sum of Total Trips		377,028.33
		Total Vehicle Miles Traveled		2,269,710.56

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	0.0	0.0	100.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 0.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 100.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Current GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	132.32	123.89	1,387.48	3.93	626.12
TOTAL EMISSIONS (tons/yr)	132.32	123.89	1,387.48	3.93	626.12

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	13,132.30	9.57 trips/dwelling unit	39,396.90	377,028.33
		Sum of Total Trips		377,028.33
		Total Vehicle Miles Traveled		2,269,710.56

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	0.0	0.0	100.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 0.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 100.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
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)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	78.06	68.23	979.29	3.05	431.95

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	75.46	99.43	820.70	2.47	431.95

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	14.09	14.35	169.07	0.52	78.83

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	75.46	99.43	820.70	2.47	431.95
TOTAL EMISSIONS (lbs/day)	75.46	99.43	820.70	2.47	431.95

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	864.23	9.57 trips/dwelling unit	2,592.70	24,812.14
		Sum of Total Trips		24,812.14
		Total Vehicle Miles Traveled		285,339.60

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
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)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	78.06	68.23	979.29	3.05	431.95
TOTAL EMISSIONS (lbs/day)	78.06	68.23	979.29	3.05	431.95

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	864.23	9.57 trips/dwelling unit	2,592.70	24,812.14
		Sum of Total Trips		24,812.14
		Total Vehicle Miles Traveled		285,339.60

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	14.09	14.35	169.07	0.52	78.83
TOTAL EMISSIONS (tons/yr)	14.09	14.35	169.07	0.52	78.83

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	864.23	9.57 trips/dwelling unit	2,592.70	24,812.14
		Sum of Total Trips		24,812.14
		Total Vehicle Miles Traveled		285,339.60

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
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)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	720.81	630.10	9,043.23	28.21	3,988.80

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	696.85	918.20	7,578.78	22.83	3,988.80

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	130.09	132.52	1,561.30	4.82	727.96

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	696.85	918.20	7,578.78	22.83	3,988.80
TOTAL EMISSIONS (lbs/day)	696.85	918.20	7,578.78	22.83	3,988.80

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	7,980.77	9.57 trips/dwelling unit	23,942.30	229,127.81
		Sum of Total Trips		229,127.81
		Total Vehicle Miles Traveled		2,634,969.83

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
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)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	720.81	630.10	9,043.23	28.21	3,988.80
TOTAL EMISSIONS (lbs/day)	720.81	630.10	9,043.23	28.21	3,988.80

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	7,980.77	9.57 trips/dwelling unit	23,942.30	229,127.81
		Sum of Total Trips		229,127.81
		Total Vehicle Miles Traveled		2,634,969.83

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	130.09	132.52	1,561.30	4.82	727.96
TOTAL EMISSIONS (tons/yr)	130.09	132.52	1,561.30	4.82	727.96

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	7,980.77	9.57 trips/dwelling unit	23,942.30	229,127.81
		Sum of Total Trips		229,127.81
		Total Vehicle Miles Traveled		2,634,969.83

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	0.0	0.0	0.0
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	100.0	0.0	0.0			

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 100.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 0.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 0.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 0.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
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)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	1,557.83	1,051.61	13,738.24	43.23	6,676.77

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	1,095.65	1,528.18	11,856.98	37.39	6,676.77

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	256.19	220.91	2,392.79	7.53	1,218.51

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
General office building	1,095.65	1,528.18	11,856.98	37.39	6,676.77
TOTAL EMISSIONS (lbs/day)	1,095.65	1,528.18	11,856.98	37.39	6,676.77

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
General office building		3.32 trips/1000 sq. ft.	126,856.60	421,163.91
		Sum of Total Trips		421,163.91
		Total Vehicle Miles Traveled		4,422,221.08

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.5	10.5	10.5
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	0.0	0.0	0.0			
% of Trips - Commercial (by land use)						
General office building				35.0	17.5	47.5

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
The home based work trip percentage changed from 20.0 to 0.
The home based shopping selection item changed from 9 to 8.
The home based shopping trip percentage changed from 37.0 to 0.
The home based other selection item changed from 9 to 8.
The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 10.5.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 10.5.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 10.5.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
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)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
General office building	1,557.83	1,051.61	13,738.24	43.23	6,676.77
TOTAL EMISSIONS (lbs/day)	1,557.83	1,051.61	13,738.24	43.23	6,676.77

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
General office building		3.32 trips/1000 sq. ft.	126,856.60	421,163.91
		Sum of Total Trips		421,163.91
		Total Vehicle Miles Traveled		4,422,221.08

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.5	10.5	10.5
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	0.0	0.0	0.0			
% of Trips - Commercial (by land use)						
General office building				35.0	17.5	47.5

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The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 10.5.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 10.5.

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\10400-00+\10579-03 Newport Beach GPU EIR\Data\Air Quality dat
Project Name: Newport Beach GP Update - Update GP Buildout (2030)
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
General office building	256.19	220.91	2,392.79	7.53	1,218.51
TOTAL EMISSIONS (tons/yr)	256.19	220.91	2,392.79	7.53	1,218.51

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
General office building		3.32 trips/1000 sq. ft.	126,856.60	421,163.91
		Sum of Total Trips		421,163.91
		Total Vehicle Miles Traveled		4,422,221.08

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.90	0.00	100.00	0.00
Light Truck 3,751- 5,750	16.70	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.60	0.00	100.00	0.00
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.70	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	33.30	66.70	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.60	0.00	92.30	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.5	10.5	10.5
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	0.0	0.0	0.0			
% of Trips - Commercial (by land use)						
General office building				35.0	17.5	47.5

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2030.
The home based work selection item changed from 8 to 7.
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The home based shopping trip percentage changed from 37.0 to 0.
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The home based other trip percentage changed from 43.0 to 0.
The commercial based commute selection item changed from 9 to 8.
The commercial based commute urban trip length changed from 10.3 to 10.5.
The commercial based non-work selection item changed from 9 to 8.
The commercial based non-work urban trip length changed from 5.5 to 10.5.
The commercial based customer selection item changed from 9 to 8.
The commercial based customer urban trip length changed from 5.5 to 10.5.

Newport Beach General Plan Update - Daily Trip Generation (Productions + Attractions)

	Existing (2005) Daily Trip Ends	Length	Buildout w/o Proj. (2030)	Length	Buildout w Proj. (2030)	Length
Home Based Work	178,303	11.5	227,421	11.5	229,128	11.5
Home Based Other (inc. Home-Shop)	288,429	6.02	354,942	6.02	377,028	6.02
Home Based School	20,746	11.5	23,282	11.5	24,813	11.5
Work Based Other	120,137	10.5	154,334	10.5	151,112	10.5
Other	204,249	10.5	262,406	10.5	270,052	10.5
Work + Other	324,386		416,740		421,164	

Pollutant Emissions

Summer				**Change: GP Update comp. to**	
ROG				**Existing**	**GP Current**
Home Based Work	3,090	715	721		
Home Based Other (inc. Home-Shop)	2,938	721	766		
Home Based School	360	73	78		
Work + Other	5,803	1,541	1,558		
Total	12,191	3,050	3,123	-74.4%	2.4%
NOX					
Home Based Work	3,405	625	630		
Home Based Other (inc. Home-Shop)	3,092	558	593		
Home Based School	396	64	68		
Work + Other	5,659	1,041	1,052		
Total	12,552	2,288	2,343	-81.3%	2.4%
CO					
Home Based Work	41592	8,976	9,043		
Home Based Other (inc. Home-Shop)	35320	7,348	7,805		
Home Based School	4839	919	979		
Work + Other	63185	13,594	13,738		
Total	144,936	30,837	31,565	-78.2%	2.4%
SO2					
Home Based Work	36	28	28		
Home Based Other (inc. Home-Shop)	29	21	23		
Home Based School	4	3	3		
Work + Other	57	43	43		
Total	126	95	97	-23.0%	2.1%
PM10					
Home Based Work	3126	3,959	3,989		
Home Based Other (inc. Home-Shop)	2641	3230	3,431		
Home Based School	364	405	432		
Work + Other	5175	6607	6,677		
Total	11,306	14,201	14,529	28.5%	2.3%

Winter				**Change: GP Update comp. to**	
ROG				**Existing**	**GP Current**
Home Based Work	3,067	692	697		
Home Based Other (inc. Home-Shop)	2,730	606	644		
Home Based School	367	71	75		
Work + Other	4,575	1,084	1,096		
Total	10,739	2,453	2,512	-76.6%	2.4%
NOX					
Home Based Work	5,009	911	918		
Home Based Other (inc. Home-Shop)	4,495	800	850		
Home Based School	583	93	99		
Work + Other	8,308	1,512	1,528		
Total	18,395	3,316	3,395	-81.5%	2.4%
CO					
Home Based Work	36601	7,522	7,579		
Home Based Other (inc. Home-Shop)	33794	6,777	7,198		
Home Based School	4259	770	821		
Work + Other	57252	11,732	11,857		
Total	131,906	26,801	27,455	-79.2%	2.4%
SO2					
Home Based Work	32	23	23		
Home Based Other (inc. Home-Shop)	27	18	19		
Home Based School	4	2	2		
Work + Other	52	37	37		
Total	115	80	81	-29.6%	1.3%
PM10					
Home Based Work	3126	3,959	3,989		
Home Based Other (inc. Home-Shop)	2641	3230	3,431		
Home Based School	364	405	432		
Work + Other	5175	6607	6,677		
Total	11,306	14,201	14,529	28.5%	2.3%

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Number: 10579-01
Project Title: Newport GP EIR

Background Information

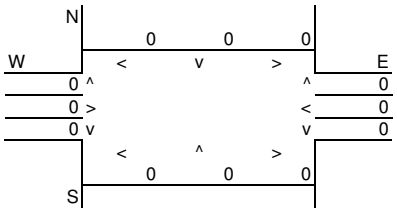
Nearest Air Monitoring Station measuring CO:	X
Background 1-hour CO Concentration (ppm):	7.0
Background 8-hour CO Concentration (ppm):	5.9
Persistence Factor:	0.7
Analysis Year:	2005

Roadway Data

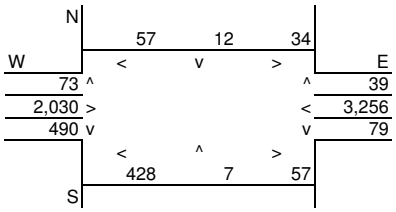
Intersection: 28. Bayside & Coast Highway
Analysis Condition: Existing Traffic Volumes

		Roadway Type	No. of Lanes	Average Speed A.M.	Average Speed P.M.
North-South Roadway:	28. Bayside	At Grade	4	15	30
East-West Roadway:	28. Coast Highway	At Grade	6	15	30

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	1,073
E-W Road:	0	E-W Road:	6,334

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000[1]

Roadway	A_1 Reference CO Concentrations 25 Feet	A_2 Reference CO Concentrations 50 Feet	A_3 Reference CO Concentrations 100 Feet	B Traffic Volume	C Emission Factors[2]	Estimated CO Concentrations 25 Feet	Estimated CO Concentrations 50 Feet	Estimated CO Concentrations 100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	0	8.10	0.00	0.00	0.00
East-West Road	2.3	2.0	1.7	0	8.10	0.00	0.00	0.00
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,073	5.51	0.15	0.13	0.10
East-West Road	6.1	4.9	3.5	6,334	5.51	2.13	1.71	1.22

[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 Concentration[2]
8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration[2]

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	9.3	7.5
50 Feet from Roadway Edge	7.0	8.8	7.2
100 Feet from Roadway Edge	7.0	8.3	6.8

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

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Number: 10579-01
Project Title: Newport GP EIR

Background Information

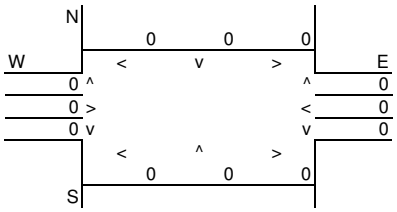
Nearest Air Monitoring Station measuring CO:	X
Background 1-hour CO Concentration (ppm):	7.0
Background 8-hour CO Concentration (ppm):	5.9
Persistence Factor:	0.7
Analysis Year:	2005

Roadway Data

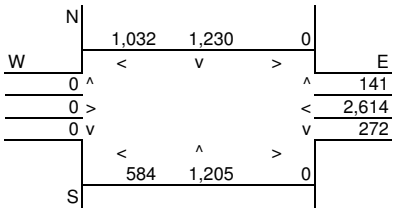
Intersection: 15. Campus & Bristol N
Analysis Condition: Existing Traffic Volumes

		Roadway Type	No. of Lanes	Average Speed A.M.	Average Speed P.M.
North-South Roadway:	15. Campus Dr.	At Grade	4	15	15
East-West Roadway:	15. Bristol N	At Grade	4	15	15

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	3,608
E-W Road:	0	E-W Road:	4,230

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000[1]

Roadway	A_1 Reference CO Concentrations 25 Feet	A_2 Reference CO Concentrations 50 Feet	A_3 Reference CO Concentrations 100 Feet	B Traffic Volume	C Emission Factors[2]	Estimated CO Concentrations 25 Feet	Estimated CO Concentrations 50 Feet	Estimated CO Concentrations 100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	0	8.10	0.00	0.00	0.00
East-West Road	2.6	2.2	1.7	0	8.10	0.00	0.00	0.00
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	3,608	8.10	0.76	0.64	0.50
East-West Road	7.0	5.4	3.8	4,230	8.10	2.40	1.85	1.30

[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 Concentration[2]
8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration[2]

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	10.2	8.1
50 Feet from Roadway Edge	7.0	9.5	7.6
100 Feet from Roadway Edge	7.0	8.8	7.2

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

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Number: 10579-01
Project Title: Newport GP EIR

Background Information

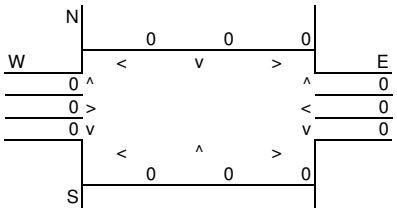
Nearest Air Monitoring Station measuring CO:	X
Background 1-hour CO Concentration (ppm):	7.0
Background 8-hour CO Concentration (ppm):	5.9
Persistence Factor:	0.7
Analysis Year:	2005

Roadway Data

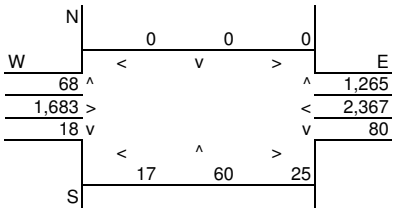
Intersection: 27. Dover & Coast Highway
Analysis Condition: Existing Traffic Volumes

		Roadway Type	No. of Lanes	Average Speed A.M.	Average Speed P.M.
North-South Roadway:	27. Dover	At Grade	2	15	25
East-West Roadway:	27. Coast Highway	At Grade	4	15	25

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	1,393
E-W Road:	0	E-W Road:	5,420

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000[1]

Roadway	A_1 Reference CO Concentrations 25 Feet	A_2 Reference CO Concentrations 50 Feet	A_3 Reference CO Concentrations 100 Feet	B Traffic Volume	C Emission Factors[2]	Estimated CO Concentrations 25 Feet	Estimated CO Concentrations 50 Feet	Estimated CO Concentrations 100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	0	8.10	0.00	0.00	0.00
East-West Road	2.6	2.2	1.7	0	8.10	0.00	0.00	0.00
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,393	6.10	0.23	0.19	0.14
East-West Road	7.0	5.4	3.8	5,420	6.10	2.32	1.79	1.26

[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 Concentration[2]
8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration[2]

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	9.5	7.7
50 Feet from Roadway Edge	7.0	9.0	7.3
100 Feet from Roadway Edge	7.0	8.4	6.9

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

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Number: 10579-01
Project Title: Newport GP EIR

Background Information

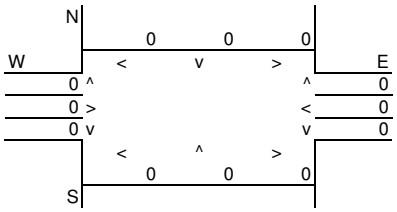
Nearest Air Monitoring Station measuring CO:	X
Background 1-hour CO Concentration (ppm):	7.0
Background 8-hour CO Concentration (ppm):	5.9
Persistence Factor:	0.7
Analysis Year:	2005

Roadway Data

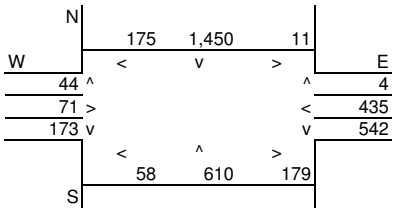
Intersection: 19. Irvine & Mesa
Analysis Condition: Existing Traffic Volumes

		Roadway Type	No. of Lanes	Average Speed A.M.	Average Speed P.M.
North-South Roadway:	19. Irvine	At Grade	4	15	15
East-West Roadway:	19. Mesa	At Grade	4	15	15

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	3,012
E-W Road:	0	E-W Road:	1,242

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000[1]

Roadway	A_1 Reference CO Concentrations 25 Feet	A_2 Reference CO Concentrations 50 Feet	A_3 Reference CO Concentrations 100 Feet	B Traffic Volume	C Emission Factors[2]	Estimated CO Concentrations 25 Feet	Estimated CO Concentrations 50 Feet	Estimated CO Concentrations 100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	0	8.10	0.00	0.00	0.00
East-West Road	2.6	2.2	1.7	0	8.10	0.00	0.00	0.00
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	3,012	8.10	1.71	1.32	0.93
East-West Road	2.6	2.2	1.7	1,242	8.10	0.26	0.22	0.17

[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 Concentration[2]
8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration[2]

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	9.0	7.3
50 Feet from Roadway Edge	7.0	8.5	7.0
100 Feet from Roadway Edge	7.0	8.1	6.7

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

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Number: 10579-01
Project Title: Newport GP EIR

Background Information

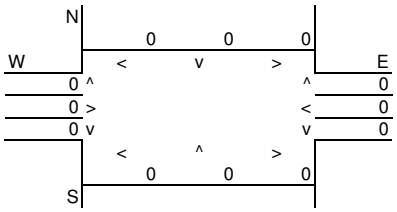
Nearest Air Monitoring Station measuring CO:	X
Background 1-hour CO Concentration (ppm):	7.0
Background 8-hour CO Concentration (ppm):	5.9
Persistence Factor:	0.7
Analysis Year:	2005

Roadway Data

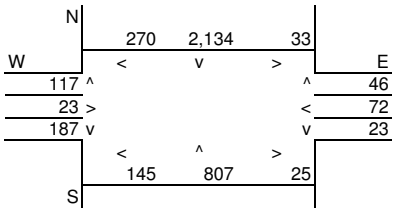
Intersection: 20. Irvine & University
Analysis Condition: Existing Traffic Volumes

		Roadway Type	No. of Lanes	Average Speed A.M.	Average Speed P.M.
North-South Roadway:	20. Irvine	At Grade	4	15	20
East-West Roadway:	20. University	At Grade	4	15	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	3,407
E-W Road:	0	E-W Road:	814

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000[1]

Roadway	A_1 Reference CO Concentrations 25 Feet	A_2 Reference CO Concentrations 50 Feet	A_3 Reference CO Concentrations 100 Feet	B Traffic Volume	C Emission Factors[2]	Estimated CO Concentrations 25 Feet	Estimated CO Concentrations 50 Feet	Estimated CO Concentrations 100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	0	8.10	0.00	0.00	0.00
East-West Road	2.6	2.2	1.7	0	8.10	0.00	0.00	0.00
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	3,407	6.93	1.65	1.28	0.90
East-West Road	2.6	2.2	1.7	814	6.93	0.15	0.12	0.10

[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 Concentration[2]
8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration[2]

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	8.8	7.2
50 Feet from Roadway Edge	7.0	8.4	6.9
100 Feet from Roadway Edge	7.0	8.0	6.6

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

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Number: 10579-01
Project Title: Newport GP EIR

Background Information

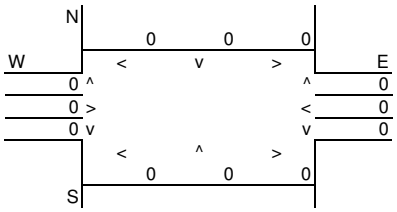
Nearest Air Monitoring Station measuring CO:	X
Background 1-hour CO Concentration (ppm):	7.0
Background 8-hour CO Concentration (ppm):	5.9
Persistence Factor:	0.7
Analysis Year:	2005

Roadway Data

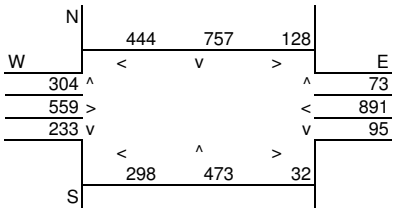
Intersection: 24. Irvine & Westcliff
Analysis Condition: Existing Traffic Volumes

		Roadway Type	No. of Lanes	Average Speed A.M.	Average Speed P.M.
North-South Roadway:	24. Irvine	At Grade	4	15	25
East-West Roadway:	24. Westcliff	At Grade	4	15	25

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	2,179
E-W Road:	0	E-W Road:	2,729

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000[1]

Roadway	A_1 Reference CO Concentrations 25 Feet	A_2 Reference CO Concentrations 50 Feet	A_3 Reference CO Concentrations 100 Feet	B Traffic Volume	C Emission Factors[2]	Estimated CO Concentrations 25 Feet	Estimated CO Concentrations 50 Feet	Estimated CO Concentrations 100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	0	8.10	0.00	0.00	0.00
East-West Road	2.6	2.2	1.7	0	8.10	0.00	0.00	0.00
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	2,179	6.10	0.35	0.29	0.23
East-West Road	7.0	5.4	3.8	2,729	6.10	1.17	0.90	0.63

[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 Concentration[2]
8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration[2]

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	8.5	7.0
50 Feet from Roadway Edge	7.0	8.2	6.7
100 Feet from Roadway Edge	7.0	7.9	6.5

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

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Number: 10579-01
Project Title: Newport GP EIR

Background Information

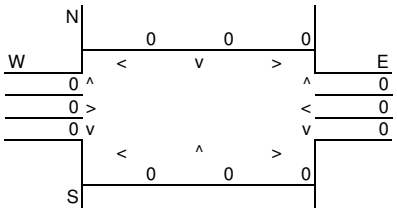
Nearest Air Monitoring Station measuring CO:	X
Background 1-hour CO Concentration (ppm):	7.0
Background 8-hour CO Concentration (ppm):	5.9
Persistence Factor:	0.7
Analysis Year:	2005

Roadway Data

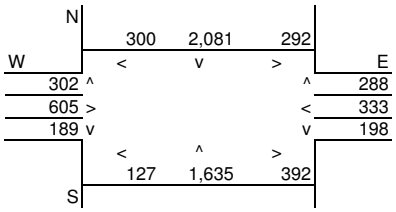
Intersection: 13. Jamboree & Campus
Analysis Condition: Existing Traffic Volumes

		Roadway Type	No. of Lanes	Average Speed A.M.	Average Speed P.M.
North-South Roadway:	13. Jamboree	At Grade	6	15	20
East-West Roadway:	13. Campus Dr.	At Grade	4	15	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	4,898
E-W Road:	0	E-W Road:	2,108

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000[1]

Roadway	A_1 Reference CO Concentrations 25 Feet	A_2 Reference CO Concentrations 50 Feet	A_3 Reference CO Concentrations 100 Feet	B Traffic Volume	C Emission Factors[2]	Estimated CO Concentrations 25 Feet	Estimated CO Concentrations 50 Feet	Estimated CO Concentrations 100 Feet
A.M. Peak Traffic Hour								
North-South Road	6.1	4.9	3.5	0	8.10	0.00	0.00	0.00
East-West Road	2.6	2.2	1.7	0	8.10	0.00	0.00	0.00
P.M. Peak Traffic Hour								
North-South Road	6.1	4.9	3.5	4,898	6.93	2.07	1.66	1.19
East-West Road	2.6	2.2	1.7	2,108	6.93	0.38	0.32	0.25

[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 Concentration[2]
8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration[2]

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	9.5	7.6
50 Feet from Roadway Edge	7.0	9.0	7.3
100 Feet from Roadway Edge	7.0	8.4	6.9

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

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Number: 10579-01
Project Title: Newport GP EIR

Background Information

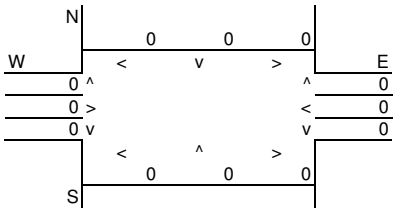
Nearest Air Monitoring Station measuring CO:	X
Background 1-hour CO Concentration (ppm):	7.0
Background 8-hour CO Concentration (ppm):	5.9
Persistence Factor:	0.7
Analysis Year:	2005

Roadway Data

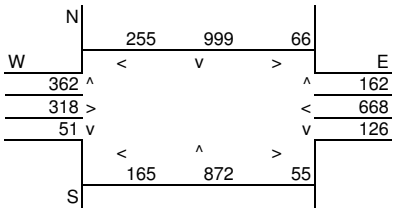
Intersection: 10. MacArthur Bl. & Birch St.
Analysis Condition: Existing Traffic Volumes

		Roadway Type	No. of Lanes	Average Speed A.M.	Average Speed P.M.
North-South Roadway:	10. MacArthur Bl.	At Grade	6	15	30
East-West Roadway:	10. Birch St.	At Grade	4	15	30

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	2,716
E-W Road:	0	E-W Road:	1,819

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000[1]

Roadway	A_1 Reference CO Concentrations 25 Feet	A_2 Reference CO Concentrations 50 Feet	A_3 Reference CO Concentrations 100 Feet	B Traffic Volume	C Emission Factors[2]	Estimated CO Concentrations 25 Feet	Estimated CO Concentrations 50 Feet	Estimated CO Concentrations 100 Feet
A.M. Peak Traffic Hour								
North-South Road	6.1	4.9	3.5	0	8.10	0.00	0.00	0.00
East-West Road	2.6	2.2	1.7	0	8.10	0.00	0.00	0.00
P.M. Peak Traffic Hour								
North-South Road	6.1	4.9	3.5	2,716	5.51	0.91	0.73	0.52
East-West Road	2.6	2.2	1.7	1,819	5.51	0.26	0.22	0.17

[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 Concentration[2]
8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration[2]

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	8.2	6.7
50 Feet from Roadway Edge	7.0	8.0	6.6
100 Feet from Roadway Edge	7.0	7.7	6.4

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

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Number: 10579-01
Project Title: Newport GP EIR

Background Information

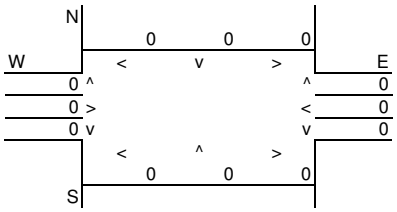
Nearest Air Monitoring Station measuring CO:	X
Background 1-hour CO Concentration (ppm):	7.0
Background 8-hour CO Concentration (ppm):	5.9
Persistence Factor:	0.7
Analysis Year:	2005

Roadway Data

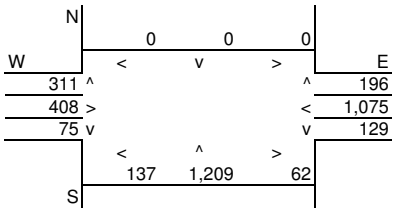
Intersection: 9. MacArthur Bl. & Campus Dr.
Analysis Condition: Existing Traffic Volumes

		Roadway Type	No. of Lanes	Average Speed A.M.	Average Speed P.M.
North-South Roadway:	9. MacArthur Bl.	At Grade	6	15	20
East-West Roadway:	9. Campus Dr.	At Grade	4	15	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	1,716
E-W Road:	0	E-W Road:	2,006

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000[1]

Roadway	A_1 Reference CO Concentrations 25 Feet	A_2 Reference CO Concentrations 50 Feet	A_3 Reference CO Concentrations 100 Feet	B Traffic Volume	C Emission Factors[2]	Estimated CO Concentrations 25 Feet	Estimated CO Concentrations 50 Feet	Estimated CO Concentrations 100 Feet
A.M. Peak Traffic Hour								
North-South Road	6.1	4.9	3.5	0	8.10	0.00	0.00	0.00
East-West Road	2.6	2.2	1.7	0	8.10	0.00	0.00	0.00
P.M. Peak Traffic Hour								
North-South Road	2.3	2.0	1.7	1,716	6.93	0.27	0.24	0.20
East-West Road	7.0	5.4	3.8	2,006	6.93	0.97	0.75	0.53

[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 Concentration[2]
8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration[2]

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	8.2	6.8
50 Feet from Roadway Edge	7.0	8.0	6.6
100 Feet from Roadway Edge	7.0	7.7	6.4

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

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Number: 10579-01
Project Title: Newport GP EIR

Background Information

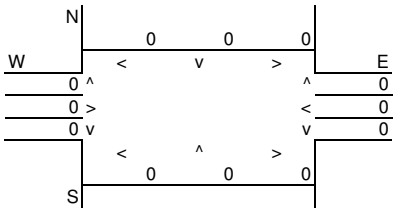
Nearest Air Monitoring Station measuring CO:	X
Background 1-hour CO Concentration (ppm):	7.0
Background 8-hour CO Concentration (ppm):	5.9
Persistence Factor:	0.7
Analysis Year:	2005

Roadway Data

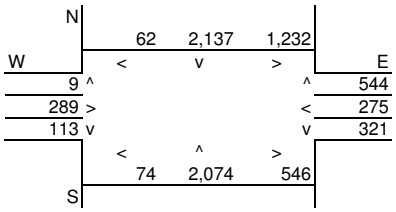
Intersection: 49. MacArthur & Ford/Bonita
Analysis Condition: Existing Traffic Volumes

		Roadway Type	No. of Lanes	Average Speed A.M.	Average Speed P.M.
North-South Roadway:	49. MacArthur	At Grade	8	15	20
East-West Roadway:	49. Ford/Bonita	At Grade	4	15	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	6,058
E-W Road:	0	E-W Road:	3,207

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000[1]

Roadway	A_1 Reference CO Concentrations 25 Feet	A_2 Reference CO Concentrations 50 Feet	A_3 Reference CO Concentrations 100 Feet	B Traffic Volume	C Emission Factors[2]	Estimated CO Concentrations 25 Feet	Estimated CO Concentrations 50 Feet	Estimated CO Concentrations 100 Feet
A.M. Peak Traffic Hour								
North-South Road	5.7	4.6	3.4	0	8.10	0.00	0.00	0.00
East-West Road	2.6	2.2	1.7	0	8.10	0.00	0.00	0.00
P.M. Peak Traffic Hour								
North-South Road	5.7	4.6	3.4	6,058	6.93	2.39	1.93	1.43
East-West Road	2.6	2.2	1.7	3,207	6.93	0.58	0.49	0.38

[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 Concentration[2]
8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration[2]

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	10.0	8.0
50 Feet from Roadway Edge	7.0	9.4	7.6
100 Feet from Roadway Edge	7.0	8.8	7.2

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

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Number: 10579-01
Project Title: Newport GP EIR

Background Information

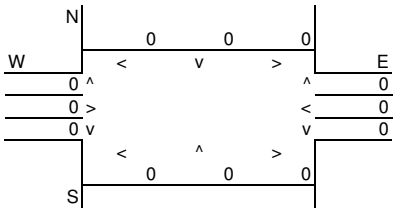
Nearest Air Monitoring Station measuring CO:	X
Background 1-hour CO Concentration (ppm):	7.0
Background 8-hour CO Concentration (ppm):	5.9
Persistence Factor:	0.7
Analysis Year:	2005

Roadway Data

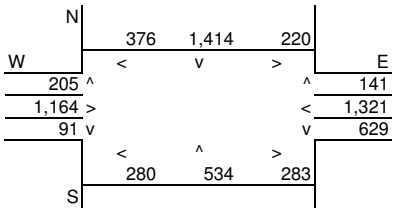
Intersection: 29. MacArthur & Jamboree
Analysis Condition: Existing Traffic Volumes

		Roadway Type	No. of Lanes	Average Speed A.M.	Average Speed P.M.
North-South Roadway:	29. MacArthur	At Grade	6	15	15
East-West Roadway:	29. Jamboree	At Grade	6	15	15

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	3,231
E-W Road:	0	E-W Road:	3,758

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000[1]

Roadway	A_1 Reference CO Concentrations 25 Feet	A_2 Reference CO Concentrations 50 Feet	A_3 Reference CO Concentrations 100 Feet	B Traffic Volume	C Emission Factors[2]	Estimated CO Concentrations 25 Feet	Estimated CO Concentrations 50 Feet	Estimated CO Concentrations 100 Feet
A.M. Peak Traffic Hour								
North-South Road	6.1	4.9	3.5	0	8.10	0.00	0.00	0.00
East-West Road	2.3	2.0	1.7	0	8.10	0.00	0.00	0.00
P.M. Peak Traffic Hour								
North-South Road	2.3	2.0	1.7	3,231	8.10	0.60	0.52	0.44
East-West Road	6.1	4.9	3.5	3,758	8.10	1.86	1.49	1.07

[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 Concentration[2]
8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration[2]

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	9.5	7.6
50 Feet from Roadway Edge	7.0	9.0	7.3
100 Feet from Roadway Edge	7.0	8.5	7.0

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

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Number: 10579-01
Project Title: Newport GP EIR

Background Information

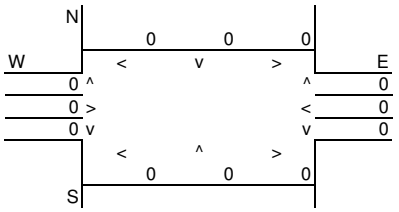
Nearest Air Monitoring Station measuring CO:	X
Background 1-hour CO Concentration (ppm):	7.0
Background 8-hour CO Concentration (ppm):	5.9
Persistence Factor:	0.7
Analysis Year:	2005

Roadway Data

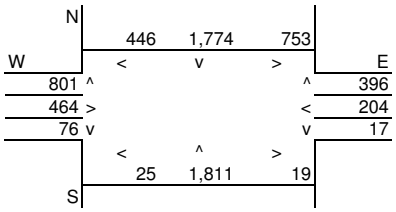
Intersection: 50. MacArthur & San Joaquin Hills
Analysis Condition: Existing Traffic Volumes

		Roadway Type	No. of Lanes	Average Speed A.M.	Average Speed P.M.
North-South Roadway:	50. MacArthur	At Grade	8	15	15
East-West Roadway:	50. San Joaquin Hills	At Grade	6	15	15

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	5,981
E-W Road:	0	E-W Road:	2,016

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000[1]

Roadway	A_1 Reference CO Concentrations 25 Feet	A_2 Reference CO Concentrations 50 Feet	A_3 Reference CO Concentrations 100 Feet	B Traffic Volume	C Emission Factors[2]	Estimated CO Concentrations 25 Feet	Estimated CO Concentrations 50 Feet	Estimated CO Concentrations 100 Feet
A.M. Peak Traffic Hour								
North-South Road	5.7	4.6	3.4	0	8.10	0.00	0.00	0.00
East-West Road	2.3	2.0	1.7	0	8.10	0.00	0.00	0.00
P.M. Peak Traffic Hour								
North-South Road	5.7	4.6	3.4	5,981	8.10	2.76	2.23	1.65
East-West Road	2.3	2.0	1.7	2,016	8.10	0.38	0.33	0.28

[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 Concentration[2]
8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration[2]

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	10.1	8.1
50 Feet from Roadway Edge	7.0	9.6	7.7
100 Feet from Roadway Edge	7.0	8.9	7.2

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

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Number: 10579-01
Project Title: Newport GP EIR

Background Information

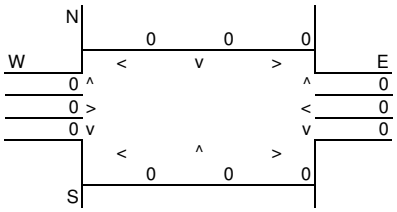
Nearest Air Monitoring Station measuring CO:	X
Background 1-hour CO Concentration (ppm):	7.0
Background 8-hour CO Concentration (ppm):	5.9
Persistence Factor:	0.7
Analysis Year:	2005

Roadway Data

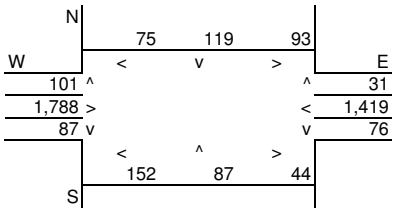
Intersection: 59. Margurite & Coast Highway
Analysis Condition: Existing Traffic Volumes

		Roadway Type	No. of Lanes	Average Speed A.M.	Average Speed P.M.
North-South Roadway:	59. Margurite	At Grade	2	15	20
East-West Roadway:	59. Coast Highway	At Grade	4	15	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	565
E-W Road:	0	E-W Road:	3,622

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000[1]

Roadway	A_1 Reference CO Concentrations 25 Feet	A_2 Reference CO Concentrations 50 Feet	A_3 Reference CO Concentrations 100 Feet	B Traffic Volume	C Emission Factors[2]	Estimated CO Concentrations 25 Feet	Estimated CO Concentrations 50 Feet	Estimated CO Concentrations 100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	0	8.10	0.00	0.00	0.00
East-West Road	2.6	2.2	1.7	0	8.10	0.00	0.00	0.00
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	565	6.93	0.11	0.09	0.07
East-West Road	7.0	5.4	3.8	3,622	6.93	1.76	1.36	0.95

[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 Concentration[2]
8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration[2]

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	8.9	7.2
50 Feet from Roadway Edge	7.0	8.4	6.9
100 Feet from Roadway Edge	7.0	8.0	6.6

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

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Number: 10579-01
Project Title: Newport GP EIR

Background Information

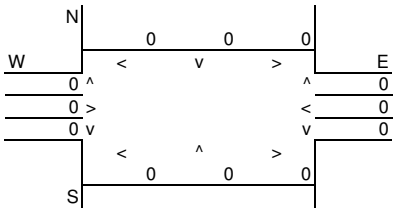
Nearest Air Monitoring Station measuring CO:	X
Background 1-hour CO Concentration (ppm):	7.0
Background 8-hour CO Concentration (ppm):	5.9
Persistence Factor:	0.7
Analysis Year:	2005

Roadway Data

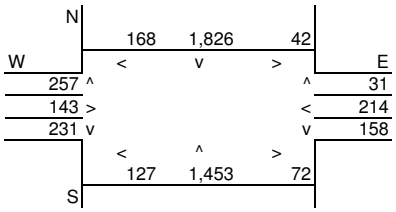
Intersection: 4. Newport Bl. & Hospital Rd.
Analysis Condition: Existing Traffic Volumes

		Roadway Type	No. of Lanes	Average Speed A.M.	Average Speed P.M.
North-South Roadway:	4. Newport Bl	At Grade	6	15	30
East-West Roadway:	4. Hospital Rd.	At Grade	4	15	30

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	3,867
E-W Road:	0	E-W Road:	1,140

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000[1]

Roadway	A_1 Reference CO Concentrations 25 Feet	A_2 Reference CO Concentrations 50 Feet	A_3 Reference CO Concentrations 100 Feet	B Traffic Volume	C Emission Factors[2]	Estimated CO Concentrations 25 Feet	Estimated CO Concentrations 50 Feet	Estimated CO Concentrations 100 Feet
A.M. Peak Traffic Hour								
North-South Road	6.1	4.9	3.5	0	8.10	0.00	0.00	0.00
East-West Road	2.6	2.2	1.7	0	8.10	0.00	0.00	0.00
P.M. Peak Traffic Hour								
North-South Road	6.1	4.9	3.5	3,867	5.51	1.30	1.04	0.75
East-West Road	2.6	2.2	1.7	1,140	5.51	0.16	0.14	0.11

[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 Concentration[2]
8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration[2]

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	8.5	6.9
50 Feet from Roadway Edge	7.0	8.2	6.7
100 Feet from Roadway Edge	7.0	7.9	6.5

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

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Number: 10579-01
Project Title: Newport GP EIR

Background Information

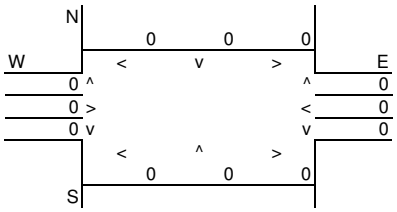
Nearest Air Monitoring Station measuring CO:	X
Background 1-hour CO Concentration (ppm):	7.0
Background 8-hour CO Concentration (ppm):	5.9
Persistence Factor:	0.7
Analysis Year:	2005

Roadway Data

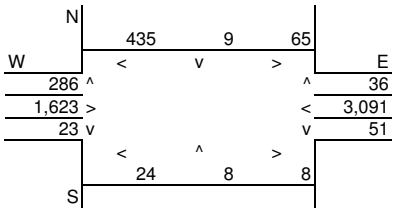
Intersection: 7. Riverside Av. & Coast Hw.
Analysis Condition: Existing Traffic Volumes

		Roadway Type	No. of Lanes	Average Speed A.M.	Average Speed P.M.
North-South Roadway:	7. Riverside Av.	At Grade	2	15	15
East-West Roadway:	7. Coast Hw.	At Grade	6	15	15

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	839
E-W Road:	0	E-W Road:	5,482

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000[1]

Roadway	A_1 Reference CO Concentrations 25 Feet	A_2 50 Feet	A_3 100 Feet	B Traffic Volume	C Emission Factors[2]	Estimated CO Concentrations 25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	0	8.10	0.00	0.00	0.00
East-West Road	2.3	2.0	1.7	0	8.10	0.00	0.00	0.00
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	839	8.10	0.18	0.15	0.12
East-West Road	6.1	4.9	3.5	5,482	8.10	2.71	2.18	1.55

[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 Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration[2]
8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration[2]

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	9.9	7.9
50 Feet from Roadway Edge	7.0	9.3	7.5
100 Feet from Roadway Edge	7.0	8.7	7.1

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

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Number: 10579-01
Project Title: Newport GP EIR

Background Information

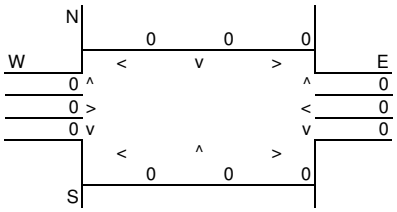
Nearest Air Monitoring Station measuring CO:	X
Background 1-hour CO Concentration (ppm):	7.0
Background 8-hour CO Concentration (ppm):	5.9
Persistence Factor:	0.7
Analysis Year:	2005

Roadway Data

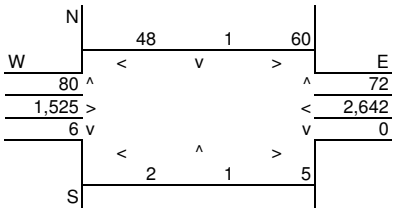
Intersection: 8. Tustin Av. & Coast Hw.
Analysis Condition: Existing Traffic Volumes

		Roadway Type	No. of Lanes	Average Speed A.M.	Average Speed P.M.
North-South Roadway:	8. Tustin Av.	At Grade	2	15	30
East-West Roadway:	8. Coast Hw.	At Grade	4	15	30

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	262
E-W Road:	0	E-W Road:	4,304

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000[1]

Roadway	A_1 Reference CO Concentrations 25 Feet	A_2 Reference CO Concentrations 50 Feet	A_3 Reference CO Concentrations 100 Feet	B Traffic Volume	C Emission Factors[2]	Estimated CO Concentrations 25 Feet	Estimated CO Concentrations 50 Feet	Estimated CO Concentrations 100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	0	8.10	0.00	0.00	0.00
East-West Road	2.6	2.2	1.7	0	8.10	0.00	0.00	0.00
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	262	5.51	0.04	0.03	0.02
East-West Road	7.0	5.4	3.8	4,304	5.51	1.66	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 Concentration[2]
8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration[2]

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	8.7	7.1
50 Feet from Roadway Edge	7.0	8.3	6.8
100 Feet from Roadway Edge	7.0	7.9	6.5

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

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Number: 10579-01
Project Title: Newport GP EIR

Background Information

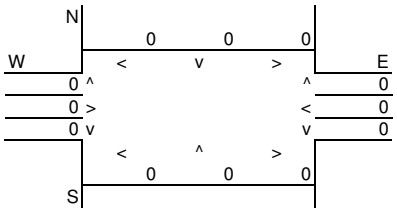
Nearest Air Monitoring Station measuring CO:	X
Background 1-hour CO Concentration (ppm):	7.0
Background 8-hour CO Concentration (ppm):	5.9
Persistence Factor:	0.7
Analysis Year:	2005

Roadway Data

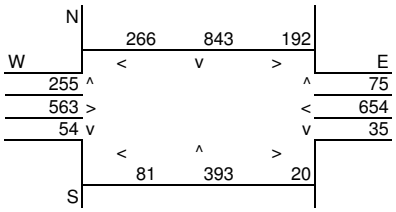
Intersection: 11. VonKarman & Campus Dr.
Analysis Condition: Existing Traffic Volumes

		Roadway Type	No. of Lanes	Average Speed A.M.	Average Speed P.M.
North-South Roadway:	11. VonKarman	At Grade	4	15	25
East-West Roadway:	11. Campus Dr.	At Grade	4	15	25

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	2,024
E-W Road:	0	E-W Road:	1,873

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000[1]

Roadway	A_1 Reference CO Concentrations 25 Feet	A_2 Reference CO Concentrations 50 Feet	A_3 Reference CO Concentrations 100 Feet	B Traffic Volume	C Emission Factors[2]	Estimated CO Concentrations 25 Feet	Estimated CO Concentrations 50 Feet	Estimated CO Concentrations 100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	0	8.10	0.00	0.00	0.00
East-West Road	2.6	2.2	1.7	0	8.10	0.00	0.00	0.00
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,024	6.10	0.86	0.67	0.47
East-West Road	2.6	2.2	1.7	1,873	6.10	0.30	0.25	0.19

[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 Concentration[2]
8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration[2]

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	8.2	6.7
50 Feet from Roadway Edge	7.0	7.9	6.5
100 Feet from Roadway Edge	7.0	7.7	6.4

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