Appendix D
Air Quality Data

Parenthetical URBEMIS2002 Assumptions
For: Existing Dana Point Harbor
Date: 1/17/06

LAND USES

Phase	Amount	Land Use Type	Trip Rate	Unit Type
Existing Commercial Core				
Operational	183	Car Trailer Parking	2.96	Spaces
	2.5	BSB – Number X	11.01	1,000 tsf.
	5	Boat Yard Building	1.91	1,000 tsf
	1.8	County Maintenance Yard – Office	11.01	1,000 tsf
	130	Car Trailer Parking	2.96	Spaces
	2	BSB – Number 1 Yacht	11.01	1,000 tsf
	52.5	Retail/Restaurant	44.32	1,000 tsf
	22.5	Retail/Restaurant – Restaurant	15.86	1,000 tsf
	10	Beach House Restaurant	22.9	1,000 tsf
Existing Harborwide				
Operational	136	Hotel	8.92	Occupied Rooms
	1.8	BSB – No. 2 Yacht Brokerage	11.01	1,000 tsf
	1.8	BSB – Number 3	11.01	1,000 tsf
	2.5	BSB – Number 4	11.01	1,000 tsf
	6	Harbor Patrol Building – Harbormaster	11.01	1,000 tsf
	10	Beach House Restaurant	89.95	1,000 tsf
	3.6	BSB – No. D Dana West Yacht Club	22.88	1,000 tsf
	1.8	BSB – Number E	11.01	1,000 tsf
	1.8	BSB – Number F	11.01	1,000 tsf
	2	BSB – Number 5	11.01	1,000 tsf
	1.8	BSB – Number 6	11.01	1,000 tsf
	1.8	BSB – Number 7	11.01	1,000 tsf
	1.8	BSB – Number 8	11.01	1,000 tsf
	12.4	Dana Point Yacht Club	22.88	1,000 tsf
	11	Youth and Group Facility	22.99	1,000 tsf
	1.8	BSB – Number A	11.01	1,000 tsf
	1.8	BSB – Number B	11.01	1,000 tsf

	1.8	BSB – Number C	11.01	1,000 tsf
	2,440	Boat Slips	2.96	Slips
	47	Boat Slips	2.96	Slips

AREA SOURCES

Natural Gas Fuel Combustion:

(Default all phases)

Wood Stoves Fuel Combustion:

Off

Fireplaces:

Off

Consumer Products:

(Default all phases)

Area Source Mitigation:

Refer to file output.

OPERATIONAL SOURCES

Vehicle Fleet %:

(Default all phases)

Year:

Commercial Core – 2012
Existing Harborwide – 2030

Trip Characteristics:

(Default all phases)

Temperature Data: (Phases I-II)

40 to 85 degrees Fahrenheit

Variable Starts:

(Default all phases)

Road Dust: (Phases I-II)

Paved – 100%
Unpaved – 0%

Pass By Trips:

On

Double-Counting:

Phase I	Off
Phase II	Off

Operational Mitigation Measures:

Refer to URBEMIS 2002 file output.

Parenthetical URBEMIS2002 Assumptions
For: Dana Point Harbor Revitalization Plan and Commercial Core
Date: 1/17/06

LAND USES

Revitalization Plan

Planning Area	Description	ITE Land Use (Code)	Size	Trip rate	ADT
1	Dry Stack Boat Storage	420	800 Slips	2.96	2,368
	Dry Stack Boat Storage – Office	710	5.6 tsf	11.01	62
	Car Trailer Parking	420	-83 Spaces	2.96	-246
	Boat Bard Building	942	-2.5 tsf	15.86	-39
	Removal of Maintenance Yard	710	-1.8 tsf	11.01	-20
	Dry Stack Boat Storage – New Marine Retail Store	814	9.1 tsf	44.32	403
	Lighthouse Facility – Museum	590	2.5 tsf	54.0	135
2	BSB	710	4.1 tsf	11.01	45
	Retail/Restaurant – Retail	814	6.2 tsf	44.32	275
	Retail/Restaurant – Restaurant	832	27.1 tsf	127.15	3,446
Commercial Core Total					**6,429**
3	Hotel	310	84 OR	8.92	749
	Hotel Restaurant	832	2.75 tsf	127.15	350
	BSB Relocation	710	-1.8 tsf	11.01	20
	BSB – Number 3	710	1.5 tsf	11.01	16
	BSB – Number 4	710	1.0 tsf	11.01	11
4	Harbor Patrol Building – Harbormaster	710	1.5 tsf	11.01	17
	Beach House Restaurant	931	5 tsf	89.95	449
	BSB – Number D Dana West Yacht Club	495	5.0 tsf	22.88	115
	BSB – Number E	710	1.0 tsf	11.01	11
	BSB – Number F	710	1.0 tsf	11.01	11
	BSB – Number 5	710	1.3 tsf	11.01	14
	BSB – Number 6	710	1.5 tsf	11.01	16
	BSB – Number 7	710	1.5 tsf	11.01	16

	BSB – Number 8	710	1.5 tsf	11.01	16
	Dana Point Yacht Club	495	5.6 tsf	22.88	128
5	Youth and Group Facility	495	6.0 tsf	22.88	137
	BSB – Number A	710	1.0 tsf	11.01	11
	BSB – Number B	710	1.0 tsf	11.01	11
	BSB – Number C	710	1.0 tsf	11.01	11
9 & 10	Boat Slips	420	-546 Slips	2.96	-1,616
11 & 12	Boat Slips	420	41 Slips	2.96	121
Total PA 3-12					**574**
Total PA 1-12					**7,003**

CONSTRUCTION SOURCES

Overall Construction Settings:

Construction Start Year

Phase	Year	Month	Working Days/Month
Revitalization Plan	2012	January	22 (assumed normal average)
Commercial Core	2005	January	22 (assumed normal average)

Revitalization Plan

Length of Construction Periods (Months) – Default (12 months)

Length of Phase 1 (Demolition)- Default
Length of Phase 2 (Site Grading) - Default
Length of Phase 3 (Building)- Default
Length of Subphase 3 - Default
    Building - Default
    Architectural Coatings - Default
    Asphalt - Default
Mitigation (On/Off)
    Phase 1 - On
    Phase 2 - On
    Phase 3 - On

Commercial Core

Length of Construction Periods (Months) – Default (12 months)

Length of Phase I (Demolition)- Default
Length of Phase 2 (Site Grading) - Default
Length of Phase 3 (Building)- Default
Length of Subphase 3 - Default
    Building - Default
    Architectural Coatings - Default
    Asphalt - Default
Mitigation (On/Off)
    Phase 1 - On
    Phase 2 - On
    Phase 3 - On

Revitalization Plan

Phase 1 - Demolition:

Demolition and On Road Emissions Settings

Total Volume (Length, Width, Height) – 482.4 feet, 482.4 feet,15 feet
Maximum Daily Volume (Length, Width, Height) – 13.3 feet, 13.3 feet, 15 feet

Equipment Exhaust

1 concrete/industrial saw	8 hour operation
2 Off-Highway Trucks	8 hour operation
1 Off-Highway Tractor	8 hour operation

Phase 2 - Site Grading:

Maximum Daily Acreage Disturbed

Total Acres – 1.4 acres

Total Disturbed – 1.4 acres

Fugitive Dust:

(Default all phases)

Soil Hauling

(Default all phases)

Equipment Exhaust:

2 Off-Highway Trucks	8 hour operation
1 Scraper	8 hour operation
1 Trenchers	8 hour operation

Commercial Core

Demolition and On Road Emissions Settings

Total Volume (Length, Width, Height) – 260.8 feet ,260.8 feet,10 feet
Maximum Daily Volume (Length, Width, Height) – 22.7 feet, 22.7 feet, 10 feet

Equipment Exhaust

2 concrete/industrial saw	8 hour operation
1 Crushing Equip.	8 hour operation
1 Off-Highway Trucks	8 hour operation
2 Off-Highway Tractor	8 hour operation

Phase 2 - Site Grading:

Maximum Daily Acreage Disturbed

Total Acres – 8 acres

Total Disturbed – 8 acres

Fugitive Dust:

(Default all phases)

Soil Hauling

(Default all phases)

Equipment Exhaust:

2 Off-Highway Trucks	8 hour operation
2 Scraper	8 hour operation

Revitalization Plan

Phase 3 – Building Equipment:

Equipment Exhaust: (Phases I and II)

1 Cranes	8 hour operation
1 Off-Highway trucks	8 hour operation

Phase 3 – Architectural Coatings:

(Default all phases)

Phase 3 – Asphalt

Asphalt Paving Emissions

Phase	Acres
Revitalization Plan	1.4

Equipment Exhaust

Phase I

1 Off-Highway Trucks	8 hour operation
1 Pavers	8 hour operation
1 Paving Equipment	8 hour operation
1 Rollers	8 hour operation

Phase 3 - Worker Commute

(Default all phases)

Construction Mitigation:

Refer to file output.

Commercial Core

Phase 3 – Building Equipment:

Equipment Exhaust: (Phases I and II)

1 Cranes	8 hour operation
1 Off-Highway trucks	8 hour operation
1 Rough Terrain Forklifts	8 hour operation
1 Trenchers	8 hour operation

Phase 3 – Architectural Coatings:

(Default all phases)

Phase 3 – Asphalt

Asphalt Paving Emissions

Phase	Acres
Commercial Core	4

Equipment Exhaust

Phase I

1 Off-Highway Trucks	8 hour operation
1 Pavers	8 hour operation
1 Paving Equipment	8 hour operation
1 Rollers	8 hour operation
1 Surfacing Equipment	8 hour operation

Phase 3 - Worker Commute

(Default all phases)

Construction Mitigation:

Refer to file output.

Revitalization Plan

AREA SOURCES

Natural Gas Fuel Combustion:

(Default all phases)

Wood Stoves Fuel Combustion:

Off

Fireplaces:

Off

Consumer Products:

(Default all phases)

Area Source Mitigation:

Refer to file output.

Commercial Core

AREA SOURCES

Natural Gas Fuel Combustion:

(Default all phases)

Wood Stoves Fuel Combustion:

Off

Fireplaces:

Off

Consumer Products:

(Default all phases)

Area Source Mitigation:

Refer to file output.

Revitalization Plan

OPERATIONAL SOURCES

Vehicle Fleet %:

(Default all phases)

Year:

Harborwide - 2030

Trip Characteristics:

(Default all phases)

Temperature Data: (Phases I-II)

40 to 85 degrees Fahrenheit

Variable Starts:

(Default all phases)

Road Dust: (Phases I-II)

Paved – 100%
Unpaved – 0%

Pass By Trips:

On

Double-Counting:

Phase I	Off
Phase II	Off

Operational Mitigation Measures:

Refer to URBEMIS 2002 file output.

Commercial Core

OPERATIONAL SOURCES

Vehicle Fleet %:

(URBEMIS2002 default all phases)

Year:

2012

Trip Characteristics:

(Default all phases)

Temperature Data: (Phases I-II)

40 to 85 degrees Fahrenheit

Variable Starts:

(URBEMIS2002 default all phases)

Road Dust: (Phases I-II)

Paved – 100%
Unpaved – 0%

Pass By Trips:

On

Double-Counting:

Phase I	Off
Phase II	Off

Operational Mitigation Measures:

Refer to URBEMIS 2002 file output.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor.urb
Project Name: Dana Point Harbor - Existing Harbor
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)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	4.70	39.09	44.48	0.00	0.11

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	157.94	142.66	1,364.06	1.10	106.67

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	162.65	181.75	1,408.54	1.10	106.78

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor.urb
Project Name: Dana Point Harbor - Existing Harbor
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)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	2.83	39.02	32.78	0.00	0.07

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	153.99	213.39	1,705.27	1.08	106.67

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	156.82	252.41	1,738.05	1.08	106.74

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor.urb
Project Name: Dana Point Harbor - Existing Harbor
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.69	7.13	7.04	0.00	0.02

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	28.58	30.34	269.70	0.20	19.47

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	29.27	37.47	276.73	0.20	19.48

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor.urb
Project Name: Dana Point Harbor - Existing Harbor
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)

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	2.83	39.02	32.78	0	0.07
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	0.00	-	-	-	-
TOTALS(lbs/day,unmitigated)	2.83	39.02	32.78	0.00	0.07

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Car Trailer Parking	8.31	13.80	103.00	0.07	7.28
Youth and Group Facility	2.14	3.25	25.08	0.02	1.67
Yacht Clubs	2.89	3.88	31.41	0.02	1.92
Harbor Patrol Building	0.52	0.70	5.67	0.00	0.35
Beach House Restaurant	7.22	9.75	78.61	0.05	4.84
Hotel	9.99	14.38	113.10	0.07	7.28
Boat Slips	60.69	87.38	687.44	0.45	44.25
Retail/Restaurant	8.94	11.41	94.44	0.06	5.53
Retail/Restaurant	49.47	63.13	522.52	0.31	30.61
Other BSBs	1.88	2.40	19.84	0.01	1.16
Boat SErvice Building	0.25	0.41	3.03	0.00	0.21
County Maintenance Yard O	0.22	0.38	2.75	0.00	0.20
BSB - Yacht Brokerage	0.30	0.54	3.85	0.00	0.30
Boat Yard Building	0.85	1.43	10.53	0.01	0.77
BSB - NUMBER X	0.31	0.55	3.98	0.00	0.30
TOTAL EMISSIONS (lbs/day)	153.99	213.39	1,705.27	1.08	106.67

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Car Trailer Parking		2.96 trips/Spaces	313.00	926.48
Youth and Group Facility		22.88 trips/acres	11.00	251.68
Yacht Clubs		22.88 trips/1000 sq. ft.	16.00	366.08
Harbor Patrol Building		11.01 trips/1000 sq. ft.	6.00	66.06
Beach House Restaurant		89.95 trips/1000 sq. ft.	10.00	899.50
Hotel		8.92 trips/rooms	136.00	1,213.12
Boat Slips		2.96 trips/Boat Berths	2,491.00	7,373.36
Retail/Restaurant		44.32 trips/1000 sq. ft.	26.60	1,178.91
Retail/Restaurant		127.15 trips/1000 sq. ft.	51.30	6,522.80
Other BSBs		11.01 trips/1000 sq. ft.	22.50	247.73
Boat SErvice Building		11.01 trips/1000 sq. ft.	2.50	27.53
County Maintenance Yard O		11.01 trips/1000 sq. ft.	1.80	19.82
BSB - Yacht Brokerage		11.01 trips/1000 sq. ft.	2.00	22.02
Boat Yard Building		15.86 trips/1000 sq. ft.	5.00	79.30
BSB - NUMBER X		11.01 trips/1000 sq. ft.	2.50	27.53
		Sum of Total Trips		19,221.90
		Total Vehicle Miles Traveled		70,184.43

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	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Car Trailer Parking				2.0	1.0	97.0
Youth and Group Facility				5.0	2.5	92.5
Yacht Clubs				5.0	2.5	92.5
Harbor Patrol Building				5.0	2.5	92.5
Beach House Restaurant				8.0	4.0	88.0
Hotel				5.0	2.5	92.5
Boat Slips				5.0	2.5	92.5
Retail/Restaurant				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Other BSBs				2.0	1.0	97.0
Boat SErvice Building				2.0	1.0	97.0
County Maintenance Yard Office				50.0	25.0	25.0
BSB - Yacht Brokerage				90.0	5.0	5.0
Boat Yard Building				41.5	20.8	37.8
BSB - NUMBER X				48.0	24.0	28.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.
The arch. coatings option switch changed from on to off.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor.urb
Project Name: Dana Point Harbor - Existing Harbor
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)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	2.83	39.02	32.78	0	0.07
Hearth - No summer emissions					
Landscaping	1.87	0.07	11.71	0.00	0.04
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	0.00	-	-	-	-
TOTALS(lbs/day,unmitigated)	4.70	39.09	44.48	0.00	0.11

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Car Trailer Parking	10.68	9.17	86.36	0.07	7.28
Youth and Group Facility	1.77	2.17	20.61	0.02	1.67
Yacht Clubs	2.37	2.60	24.94	0.02	1.92
Harbor Patrol Building	0.47	0.47	4.50	0.00	0.35
Beach House Restaurant	5.53	6.52	62.88	0.05	4.84
Hotel	9.37	9.60	91.62	0.08	7.28
Boat Slips	80.27	58.33	556.88	0.46	44.25
Retail/Restaurant	6.95	7.66	73.38	0.06	5.53
Retail/Restaurant	37.11	42.36	406.03	0.32	30.61
Other BSBs	1.70	1.61	15.42	0.01	1.16
Boat SErvice Building	0.22	0.27	2.54	0.00	0.21
County Maintenance Yard O	0.20	0.25	2.46	0.00	0.20
BSB - Yacht Brokerage	0.27	0.36	3.56	0.00	0.30
Boat Yard Building	0.74	0.95	9.31	0.01	0.77
BSB - NUMBER X	0.28	0.36	3.57	0.00	0.30
TOTAL EMISSIONS (lbs/day)	157.94	142.66	1,364.06	1.10	106.67

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Temperature (F): 85 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Car Trailer Parking		2.96 trips/Spaces	313.00	926.48
Youth and Group Facility		22.88 trips/acres	11.00	251.68
Yacht Clubs		22.88 trips/1000 sq. ft.	16.00	366.08
Harbor Patrol Building		11.01 trips/1000 sq. ft.	6.00	66.06
Beach House Restaurant		89.95 trips/1000 sq. ft.	10.00	899.50
Hotel		8.92 trips/rooms	136.00	1,213.12
Boat Slips		2.96 trips/Boat Berths	2,491.00	7,373.36
Retail/Restaurant		44.32 trips/1000 sq. ft.	26.60	1,178.91
Retail/Restaurant		127.15 trips/1000 sq. ft.	51.30	6,522.80
Other BSBs		11.01 trips/1000 sq. ft.	22.50	247.73
Boat SErvice Building		11.01 trips/1000 sq. ft.	2.50	27.53
County Maintenance Yard O		11.01 trips/1000 sq. ft.	1.80	19.82
BSB - Yacht Brokerage		11.01 trips/1000 sq. ft.	2.00	22.02
Boat Yard Building		15.86 trips/1000 sq. ft.	5.00	79.30
BSB - NUMBER X		11.01 trips/1000 sq. ft.	2.50	27.53
		Sum of Total Trips		19,221.90
		Total Vehicle Miles Traveled		70,184.43

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	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Car Trailer Parking				2.0	1.0	97.0
Youth and Group Facility				5.0	2.5	92.5
Yacht Clubs				5.0	2.5	92.5
Harbor Patrol Building				5.0	2.5	92.5
Beach House Restaurant				8.0	4.0	88.0
Hotel				5.0	2.5	92.5
Boat Slips				5.0	2.5	92.5
Retail/Restaurant				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Other BSBs				2.0	1.0	97.0
Boat SErvice Building				2.0	1.0	97.0
County Maintenance Yard Office				50.0	25.0	25.0
BSB - Yacht Brokerage				90.0	5.0	5.0
Boat Yard Building				41.5	20.8	37.8
BSB - NUMBER X				48.0	24.0	28.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.
The arch. coatings option switch changed from on to off.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor.urb
Project Name: Dana Point Harbor - Existing Harbor
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

AREA SOURCE EMISSION ESTIMATES (Tons per Year, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.52	7.12	5.98	0.00	0.01
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping	0.17	0.01	1.05	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	0.00	-	-	-	-
TOTALS (tpy, unmitigated)	0.69	7.13	7.04	0.00	0.02

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Car Trailer Parking	1.80	1.96	16.77	0.01	1.33
Youth and Group Facility	0.35	0.46	4.03	0.00	0.31
Yacht Clubs	0.46	0.55	4.95	0.00	0.35
Harbor Patrol Building	0.09	0.10	0.89	0.00	0.06
Beach House Restaurant	1.11	1.39	12.43	0.01	0.88
Hotel	1.75	2.04	18.03	0.01	1.33
Boat Slips	13.46	12.41	109.57	0.08	8.07
Retail/Restaurant	1.39	1.63	14.67	0.01	1.01
Retail/Restaurant	7.52	8.99	81.19	0.06	5.59
Other BSBs	0.32	0.34	3.08	0.00	0.21
Boat SErvice Building	0.04	0.06	0.49	0.00	0.04
County Maintenance Yard O	0.04	0.05	0.47	0.00	0.04
BSB - Yacht Brokerage	0.05	0.08	0.67	0.00	0.05
Boat Yard Building	0.14	0.20	1.77	0.00	0.14
BSB - NUMBER X	0.05	0.08	0.68	0.00	0.05
TOTAL EMISSIONS (tons/yr)	28.58	30.34	269.70	0.20	19.47

Includes 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
Car Trailer Parking		2.96 trips/Spaces	313.00	926.48
Youth and Group Facility		22.88 trips/acres	11.00	251.68
Yacht Clubs		22.88 trips/1000 sq. ft.	16.00	366.08
Harbor Patrol Building		11.01 trips/1000 sq. ft.	6.00	66.06
Beach House Restaurant		89.95 trips/1000 sq. ft.	10.00	899.50
Hotel		8.92 trips/rooms	136.00	1,213.12
Boat Slips		2.96 trips/Boat Berths	2,491.00	7,373.36
Retail/Restaurant		44.32 trips/1000 sq. ft.	26.60	1,178.91
Retail/Restaurant		127.15 trips/1000 sq. ft.	51.30	6,522.80
Other BSBs		11.01 trips/1000 sq. ft.	22.50	247.73
Boat SErvice Building		11.01 trips/1000 sq. ft.	2.50	27.53
County Maintenance Yard O		11.01 trips/1000 sq. ft.	1.80	19.82
BSB - Yacht Brokerage		11.01 trips/1000 sq. ft.	2.00	22.02
Boat Yard Building		15.86 trips/1000 sq. ft.	5.00	79.30
BSB - NUMBER X		11.01 trips/1000 sq. ft.	2.50	27.53
		Sum of Total Trips		19,221.90
		Total Vehicle Miles Traveled		70,184.43

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	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Car Trailer Parking				2.0	1.0	97.0
Youth and Group Facility				5.0	2.5	92.5
Yacht Clubs				5.0	2.5	92.5
Harbor Patrol Building				5.0	2.5	92.5
Beach House Restaurant				8.0	4.0	88.0
Hotel				5.0	2.5	92.5
Boat Slips				5.0	2.5	92.5
Retail/Restaurant				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Other BSBs				2.0	1.0	97.0
Boat SErvice Building				2.0	1.0	97.0
County Maintenance Yard Office				50.0	25.0	25.0
BSB - Yacht Brokerage				90.0	5.0	5.0
Boat Yard Building				41.5	20.8	37.8
BSB - NUMBER X				48.0	24.0	28.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.
The arch. coatings option switch changed from on to off.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core.urb
Project Name: Dana Point Harbor - Existing Commercial Core
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)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	1.16	4.01	8.80	0.00	0.03

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	56.18	61.01	583.63	0.46	44.91

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	57.34	65.02	592.43	0.47	44.93

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core.urb
Project Name: Dana Point Harbor - Existing Commercial Core
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)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	0.29	3.97	3.34	0.00	0.01

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	68.34	91.11	740.13	0.45	44.91

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	68.63	95.08	743.47	0.45	44.91

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core.urb
Project Name: Dana Point Harbor - Existing Commercial Core
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.13	0.73	1.10	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	10.99	12.97	116.03	0.08	8.20

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	11.12	13.69	117.13	0.08	8.20

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core.urb
Project Name: Dana Point Harbor - Existing Commercial Core
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)

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.29	3.97	3.34	0	0.01
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	0.00	-	-	-	-
TOTALS(lbs/day,unmitigated)	0.29	3.97	3.34	0.00	0.01

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Car Trailer Parking	8.31	13.80	103.00	0.07	7.28
Retail/Restaurant	49.47	63.13	522.52	0.31	30.61
Retail/Restaurant	8.94	11.41	94.44	0.06	5.53
Boat SErvice Building	0.25	0.41	3.03	0.00	0.21
County Maintenance Yard O	0.22	0.38	2.75	0.00	0.20
BSB - Yacht Brokerage	0.30	0.54	3.85	0.00	0.30
Boat Yard Building	0.85	1.43	10.53	0.01	0.77
TOTAL EMISSIONS (lbs/day)	68.34	91.11	740.13	0.45	44.91

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Car Trailer Parking		2.96 trips/Spaces	313.00	926.48
Retail/Restaurant		127.15 trips/1000 sq. ft.	51.30	6,522.80
Retail/Restaurant		44.32 trips/1000 sq. ft.	26.60	1,178.91
Boat SErvice Building		11.01 trips/1000 sq. ft.	2.50	27.53
County Maintenance Yard O		11.01 trips/1000 sq. ft.	1.80	19.82
BSB - Yacht Brokerage		11.01 trips/1000 sq. ft.	2.00	22.02
Boat Yard Building		15.86 trips/1000 sq. ft.	5.00	79.30
		Sum of Total Trips		8,776.85
		Total Vehicle Miles Traveled		29,540.83

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	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Car Trailer Parking				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Boat SErvice Building				2.0	1.0	97.0
County Maintenance Yard Office				50.0	25.0	25.0
BSB - Yacht Brokerage				90.0	5.0	5.0
Boat Yard Building				41.5	20.8	37.8

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.
The arch. coatings option switch changed from on to off.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core.urb
Project Name: Dana Point Harbor - Existing Commercial Core
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

AREA SOURCE EMISSION ESTIMATES (Tons per Year, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.05	0.73	0.61	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping	0.08	0.00	0.49	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	0.00	-	-	-	-
TOTALS (tpy, unmitigated)	0.13	0.73	1.10	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Car Trailer Parking	1.80	1.96	16.77	0.01	1.33
Retail/Restaurant	7.52	8.99	81.19	0.06	5.59
Retail/Restaurant	1.39	1.63	14.67	0.01	1.01
Boat SErvice Building	0.04	0.06	0.49	0.00	0.04
County Maintenance Yard O	0.04	0.05	0.47	0.00	0.04
BSB - Yacht Brokerage	0.05	0.08	0.67	0.00	0.05
Boat Yard Building	0.14	0.20	1.77	0.00	0.14
TOTAL EMISSIONS (tons/yr)	10.99	12.97	116.03	0.08	8.20

Includes 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
Car Trailer Parking		2.96 trips/Spaces	313.00	926.48
Retail/Restaurant		127.15 trips/1000 sq. ft.	51.30	6,522.80
Retail/Restaurant		44.32 trips/1000 sq. ft.	26.60	1,178.91
Boat SErvice Building		11.01 trips/1000 sq. ft.	2.50	27.53
County Maintenance Yard O		11.01 trips/1000 sq. ft.	1.80	19.82
BSB - Yacht Brokerage		11.01 trips/1000 sq. ft.	2.00	22.02
Boat Yard Building		15.86 trips/1000 sq. ft.	5.00	79.30
		Sum of Total Trips		8,776.85
		Total Vehicle Miles Traveled		29,540.83

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	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Car Trailer Parking				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Boat SErvice Building				2.0	1.0	97.0
County Maintenance Yard Office				50.0	25.0	25.0
BSB - Yacht Brokerage				90.0	5.0	5.0
Boat Yard Building				41.5	20.8	37.8

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.
The arch. coatings option switch changed from on to off.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core 2012.urb
Project Name: Dana Point Harbor - Existing Commercial Core 2012
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)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	0.92	4.04	7.76	0.00	0.02

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	39.15	42.05	394.00	0.26	44.82

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	40.06	46.09	401.76	0.26	44.84

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core 2012.urb
Project Name: Dana Point Harbor - Existing Commercial Core 2012
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)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	0.29	3.97	3.34	0.00	0.01

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	46.21	62.26	499.94	0.24	44.82

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	46.50	66.24	503.28	0.24	44.83

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core 2012.urb
Project Name: Dana Point Harbor - Existing Commercial Core 2012
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.11	0.73	1.01	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	7.57	8.90	78.35	0.05	8.18

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	7.68	9.64	79.36	0.05	8.18

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core 2012.urb
Project Name: Dana Point Harbor - Existing Commercial Core 2012
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)

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.29	3.97	3.34	0	0.01
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	0.00	-	-	-	-
TOTALS(lbs/day,unmitigated)	0.29	3.97	3.34	0.00	0.01

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Car Trailer Parking	5.57	9.34	68.82	0.04	7.27
Retail/Restaurant	33.50	43.25	353.74	0.16	30.55
Retail/Restaurant	6.06	7.82	63.93	0.03	5.52
Boat SErvice Building	0.16	0.27	2.03	0.00	0.21
County Maintenance Yard O	0.15	0.25	1.83	0.00	0.20
BSB - Yacht Brokerage	0.20	0.37	2.56	0.00	0.30
Boat Yard Building	0.57	0.97	7.03	0.00	0.77
TOTAL EMISSIONS (lbs/day)	46.21	62.26	499.94	0.24	44.82

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Car Trailer Parking		2.96 trips/Spaces	313.00	926.48
Retail/Restaurant		127.15 trips/1000 sq. ft.	51.30	6,522.80
Retail/Restaurant		44.32 trips/1000 sq. ft.	26.60	1,178.91
Boat SErvice Building		11.01 trips/1000 sq. ft.	2.50	27.53
County Maintenance Yard O		11.01 trips/1000 sq. ft.	1.80	19.82
BSB - Yacht Brokerage		11.01 trips/1000 sq. ft.	2.00	22.02
Boat Yard Building		15.86 trips/1000 sq. ft.	5.00	79.30
		Sum of Total Trips		8,776.85
		Total Vehicle Miles Traveled		29,540.83

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.70	1.10	98.70	0.20
Light Truck < 3,750 lbs	15.20	2.00	96.00	2.00
Light Truck 3,751- 5,750	16.20	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	68.80	31.20	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Car Trailer Parking				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Boat SErvice Building				2.0	1.0	97.0
County Maintenance Yard Office				50.0	25.0	25.0
BSB - Yacht Brokerage				90.0	5.0	5.0
Boat Yard Building				41.5	20.8	37.8

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.
The arch. coatings option switch changed from on to off.
The landscape year changed from 2005 to 2010.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2010.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core 2012.urb
Project Name: Dana Point Harbor - Existing Commercial Core 2012
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)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.29	3.97	3.34	0	0.01
Hearth - No summer emissions					
Landscaping	0.63	0.07	4.42	0.00	0.01
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	0.00	-	-	-	-
TOTALS(lbs/day,unmitigated)	0.92	4.04	7.76	0.00	0.02

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Car Trailer Parking	7.75	6.25	57.96	0.04	7.27
Retail/Restaurant	25.60	29.27	274.42	0.18	30.55
Retail/Restaurant	4.82	5.29	49.60	0.03	5.52
Boat SErvice Building	0.15	0.18	1.70	0.00	0.21
County Maintenance Yard O	0.14	0.17	1.65	0.00	0.20
BSB - Yacht Brokerage	0.18	0.24	2.39	0.00	0.30
Boat Yard Building	0.51	0.64	6.27	0.00	0.77
TOTAL EMISSIONS (lbs/day)	39.15	42.05	394.00	0.26	44.82

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 85 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Car Trailer Parking		2.96 trips/Spaces	313.00	926.48
Retail/Restaurant		127.15 trips/1000 sq. ft.	51.30	6,522.80
Retail/Restaurant		44.32 trips/1000 sq. ft.	26.60	1,178.91
Boat SErvice Building		11.01 trips/1000 sq. ft.	2.50	27.53
County Maintenance Yard O		11.01 trips/1000 sq. ft.	1.80	19.82
BSB - Yacht Brokerage		11.01 trips/1000 sq. ft.	2.00	22.02
Boat Yard Building		15.86 trips/1000 sq. ft.	5.00	79.30
		Sum of Total Trips		8,776.85
		Total Vehicle Miles Traveled		29,540.83

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.70	1.10	98.70	0.20
Light Truck < 3,750 lbs	15.20	2.00	96.00	2.00
Light Truck 3,751- 5,750	16.20	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	68.80	31.20	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Car Trailer Parking				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Boat SErvice Building				2.0	1.0	97.0
County Maintenance Yard Office				50.0	25.0	25.0
BSB - Yacht Brokerage				90.0	5.0	5.0
Boat Yard Building				41.5	20.8	37.8

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.
The arch. coatings option switch changed from on to off.
The landscape year changed from 2005 to 2010.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2010.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core 2012.urb
Project Name: Dana Point Harbor - Existing Commercial Core 2012
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

AREA SOURCE EMISSION ESTIMATES (Tons per Year, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.05	0.73	0.61	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping	0.06	0.01	0.40	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	0.00	-	-	-	-
TOTALS (tpy, unmitigated)	0.11	0.73	1.01	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Car Trailer Parking	1.28	1.33	11.24	0.01	1.33
Retail/Restaurant	5.15	6.19	54.91	0.03	5.58
Retail/Restaurant	0.95	1.12	9.92	0.01	1.01
Boat SErvice Building	0.03	0.04	0.33	0.00	0.04
County Maintenance Yard O	0.03	0.04	0.31	0.00	0.04
BSB - Yacht Brokerage	0.03	0.05	0.45	0.00	0.05
Boat Yard Building	0.10	0.14	1.19	0.00	0.14
TOTAL EMISSIONS (tons/yr)	7.57	8.90	78.35	0.05	8.18

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Car Trailer Parking		2.96 trips/Spaces	313.00	926.48
Retail/Restaurant		127.15 trips/1000 sq. ft.	51.30	6,522.80
Retail/Restaurant		44.32 trips/1000 sq. ft.	26.60	1,178.91
Boat SErvice Building		11.01 trips/1000 sq. ft.	2.50	27.53
County Maintenance Yard O		11.01 trips/1000 sq. ft.	1.80	19.82
BSB - Yacht Brokerage		11.01 trips/1000 sq. ft.	2.00	22.02
Boat Yard Building		15.86 trips/1000 sq. ft.	5.00	79.30
		Sum of Total Trips		8,776.85
		Total Vehicle Miles Traveled		29,540.83

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.70	1.10	98.70	0.20
Light Truck < 3,750 lbs	15.20	2.00	96.00	2.00
Light Truck 3,751- 5,750	16.20	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	68.80	31.20	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Car Trailer Parking				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Boat SErvice Building				2.0	1.0	97.0
County Maintenance Yard Office				50.0	25.0	25.0
BSB - Yacht Brokerage				90.0	5.0	5.0
Boat Yard Building				41.5	20.8	37.8

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.
The arch. coatings option switch changed from on to off.
The landscape year changed from 2005 to 2010.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2010.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor2030.urb
Project Name: Dana Point Harbor - Existing Harbor 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)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	24.53	38.93	41.43	0.00	0.09

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	34.44	21.59	232.64	0.62	107.56

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	58.98	60.52	274.06	0.62	107.65

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor2030.urb
Project Name: Dana Point Harbor - Existing Harbor 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)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	23.27	38.80	32.59	0.00	0.07

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	27.20	31.65	274.54	0.56	107.56

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	50.48	70.45	307.13	0.56	107.63

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor2030.urb
Project Name: Dana Point Harbor - Existing Harbor 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)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	3.33	7.09	6.74	0.00	0.01

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	5.85	4.55	45.01	0.11	19.63

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	9.17	11.65	51.75	0.11	19.64

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor2030.urb
Project Name: Dana Point Harbor - Existing Harbor 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)

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	2.82	38.80	32.59	0	0.07
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	20.46	-	-	-	-
TOTALS(lbs/day,unmitigated)	23.27	38.80	32.59	0.00	0.07

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Car Trailer Parking	1.44	1.99	16.19	0.04	7.24
Youth and Group Facility	0.37	0.47	3.97	0.01	1.66
Yacht Clubs	0.51	0.57	5.03	0.01	1.91
Harbor Patrol Building	0.09	0.10	0.91	0.00	0.34
Beach House Restaurant	1.27	1.43	12.58	0.03	4.81
Hotel	1.75	2.10	17.99	0.04	7.24
Boat Slips	10.63	12.75	109.35	0.23	43.99
Retail/Restaurant	1.57	1.69	15.17	0.03	5.50
Retail/Restaurant	8.71	9.36	83.93	0.16	30.43
Boat SErvice Building	0.04	0.06	0.48	0.00	0.21
County Maintenance Yard O	0.04	0.05	0.43	0.00	0.20
BSB - Yacht Brokerage	0.05	0.08	0.60	0.00	0.30
Boat Yard Building	0.15	0.20	1.66	0.00	0.76
BSB - NUMBER X	0.56	0.78	6.26	0.02	2.96
TOTAL EMISSIONS (lbs/day)	27.20	31.65	274.54	0.56	107.56

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Car Trailer Parking		2.96 trips/Spaces	313.00	926.48
Youth and Group Facility		22.88 trips/1000 sq. ft	11.00	251.68
Yacht Clubs		22.88 trips/1000 sq. ft.	16.00	366.08
Harbor Patrol Building		11.01 trips/1000 sq. ft.	6.00	66.06
Beach House Restaurant		89.95 trips/1000 sq. ft.	10.00	899.50
Hotel		8.92 trips/rooms	136.00	1,213.12
Boat Slips		2.96 trips/Boat Berths	2,491.00	7,373.36
Retail/Restaurant		44.32 trips/1000 sq. ft.	26.60	1,178.91
Retail/Restaurant		127.15 trips/1000 sq. ft.	51.30	6,522.80
Boat SErvice Building		11.01 trips/1000 sq. ft.	2.50	27.53
County Maintenance Yard O		11.01 trips/1000 sq. ft.	1.80	19.82
BSB - Yacht Brokerage		11.01 trips/1000 sq. ft.	2.00	22.02
Boat Yard Building		15.86 trips/1000 sq. ft.	5.00	79.30
BSB - NUMBER X		11.01 trips/1000 sq. ft.	25.00	275.25
		Sum of Total Trips		19,221.90
		Total Vehicle Miles Traveled		71,184.96

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	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5

Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Car Trailer Parking				2.0	1.0	97.0
Youth and Group Facility				5.0	2.5	92.5
Yacht Clubs				5.0	2.5	92.5
Harbor Patrol Building				5.0	2.5	92.5
Beach House Restaurant				8.0	4.0	88.0
Hotel				5.0	2.5	92.5
Boat Slips				5.0	2.5	92.5
Retail/Restaurant				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Boat SErvice Building				2.0	1.0	97.0
County Maintenance Yard Office				50.0	25.0	25.0
BSB - Yacht Brokerage				90.0	5.0	5.0
Boat Yard Building				41.5	20.8	37.8
BSB - NUMBER X				48.0	24.0	28.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.
The landscape year changed from 2005 to 2020.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2030.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor2030.urb
Project Name: Dana Point Harbor - Existing Harbor 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)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	2.82	38.80	32.59	0	0.07
Hearth - No summer emissions					
Landscaping	1.26	0.13	8.83	0.00	0.02
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	20.46	-	-	-	-
TOTALS(lbs/day,unmitigated)	24.53	38.93	41.43	0.00	0.09

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Car Trailer Parking	2.41	1.34	14.44	0.04	7.24
Youth and Group Facility	0.36	0.32	3.46	0.01	1.66
Yacht Clubs	0.48	0.39	4.21	0.01	1.91
Harbor Patrol Building	0.10	0.07	0.76	0.00	0.34
Beach House Restaurant	1.10	0.98	10.62	0.03	4.81
Hotel	1.98	1.43	15.42	0.04	7.24
Boat Slips	18.37	8.69	93.71	0.25	43.99
Retail/Restaurant	1.40	1.16	12.40	0.03	5.50
Retail/Restaurant	7.40	6.42	68.61	0.18	30.43
Boat SErvice Building	0.05	0.04	0.42	0.00	0.21
County Maintenance Yard O	0.04	0.04	0.41	0.00	0.20
BSB - Yacht Brokerage	0.05	0.05	0.60	0.00	0.30
Boat Yard Building	0.15	0.14	1.57	0.00	0.76
BSB - NUMBER X	0.57	0.52	6.00	0.02	2.96
TOTAL EMISSIONS (lbs/day)	34.44	21.59	232.64	0.62	107.56

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 85 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Car Trailer Parking		2.96 trips/Spaces	313.00	926.48
Youth and Group Facility		22.88 trips/1000 sq. ft	11.00	251.68
Yacht Clubs		22.88 trips/1000 sq. ft.	16.00	366.08
Harbor Patrol Building		11.01 trips/1000 sq. ft.	6.00	66.06
Beach House Restaurant		89.95 trips/1000 sq. ft.	10.00	899.50
Hotel		8.92 trips/rooms	136.00	1,213.12
Boat Slips		2.96 trips/Boat Berths	2,491.00	7,373.36
Retail/Restaurant		44.32 trips/1000 sq. ft.	26.60	1,178.91
Retail/Restaurant		127.15 trips/1000 sq. ft.	51.30	6,522.80
Boat SErvice Building		11.01 trips/1000 sq. ft.	2.50	27.53
County Maintenance Yard O		11.01 trips/1000 sq. ft.	1.80	19.82
BSB - Yacht Brokerage		11.01 trips/1000 sq. ft.	2.00	22.02
Boat Yard Building		15.86 trips/1000 sq. ft.	5.00	79.30
BSB - NUMBER X		11.01 trips/1000 sq. ft.	25.00	275.25
		Sum of Total Trips		19,221.90
		Total Vehicle Miles Traveled		71,184.96

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	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5

Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Car Trailer Parking				2.0	1.0	97.0
Youth and Group Facility				5.0	2.5	92.5
Yacht Clubs				5.0	2.5	92.5
Harbor Patrol Building				5.0	2.5	92.5
Beach House Restaurant				8.0	4.0	88.0
Hotel				5.0	2.5	92.5
Boat Slips				5.0	2.5	92.5
Retail/Restaurant				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Boat SErvice Building				2.0	1.0	97.0
County Maintenance Yard Office				50.0	25.0	25.0
BSB - Yacht Brokerage				90.0	5.0	5.0
Boat Yard Building				41.5	20.8	37.8
BSB - NUMBER X				48.0	24.0	28.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.
The landscape year changed from 2005 to 2020.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2030.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor2030.urb
Project Name: Dana Point Harbor - Existing Harbor 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)

AREA SOURCE EMISSION ESTIMATES (Tons per Year, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.51	7.08	5.95	0.00	0.01
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping	0.11	0.01	0.80	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	2.70	-	-	-	-
TOTALS (tpy, unmitigated)	3.33	7.09	6.74	0.00	0.01

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Car Trailer Parking	0.38	0.28	2.74	0.01	1.32
Youth and Group Facility	0.07	0.07	0.66	0.00	0.30
Yacht Clubs	0.09	0.08	0.82	0.00	0.35
Harbor Patrol Building	0.02	0.01	0.15	0.00	0.06
Beach House Restaurant	0.21	0.21	2.06	0.00	0.88
Hotel	0.35	0.30	2.97	0.01	1.32
Boat Slips	2.88	1.83	18.05	0.04	8.03
Retail/Restaurant	0.27	0.24	2.43	0.01	1.00
Retail/Restaurant	1.43	1.35	13.45	0.03	5.55
Boat SErvice Building	0.01	0.01	0.08	0.00	0.04
County Maintenance Yard O	0.01	0.01	0.08	0.00	0.04
BSB - Yacht Brokerage	0.01	0.01	0.11	0.00	0.05
Boat Yard Building	0.03	0.03	0.29	0.00	0.14
BSB - NUMBER X	0.10	0.11	1.11	0.00	0.54
TOTAL EMISSIONS (tons/yr)	5.85	4.55	45.01	0.11	19.63

Includes 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
Car Trailer Parking		2.96 trips/Spaces	313.00	926.48
Youth and Group Facility		22.88 trips/1000 sq. ft	11.00	251.68
Yacht Clubs		22.88 trips/1000 sq. ft.	16.00	366.08
Harbor Patrol Building		11.01 trips/1000 sq. ft.	6.00	66.06
Beach House Restaurant		89.95 trips/1000 sq. ft.	10.00	899.50
Hotel		8.92 trips/rooms	136.00	1,213.12
Boat Slips		2.96 trips/Boat Berths	2,491.00	7,373.36
Retail/Restaurant		44.32 trips/1000 sq. ft.	26.60	1,178.91
Retail/Restaurant		127.15 trips/1000 sq. ft.	51.30	6,522.80
Boat SErvice Building		11.01 trips/1000 sq. ft.	2.50	27.53
County Maintenance Yard O		11.01 trips/1000 sq. ft.	1.80	19.82
BSB - Yacht Brokerage		11.01 trips/1000 sq. ft.	2.00	22.02
Boat Yard Building		15.86 trips/1000 sq. ft.	5.00	79.30
BSB - NUMBER X		11.01 trips/1000 sq. ft.	25.00	275.25
		Sum of Total Trips		19,221.90
		Total Vehicle Miles Traveled		71,184.96

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	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5

Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Car Trailer Parking				2.0	1.0	97.0
Youth and Group Facility				5.0	2.5	92.5
Yacht Clubs				5.0	2.5	92.5
Harbor Patrol Building				5.0	2.5	92.5
Beach House Restaurant				8.0	4.0	88.0
Hotel				5.0	2.5	92.5
Boat Slips				5.0	2.5	92.5
Retail/Restaurant				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Boat SErvice Building				2.0	1.0	97.0
County Maintenance Yard Office				50.0	25.0	25.0
BSB - Yacht Brokerage				90.0	5.0	5.0
Boat Yard Building				41.5	20.8	37.8
BSB - NUMBER X				48.0	24.0	28.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off.
The landscape year changed from 2005 to 2020.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2030.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-CC.urb
Project Name: Dana Point Harbor - Proposed Commercial Core
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

*** 2006 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	25.45	167.53	208.88	0.12	87.05	7.04	80.01
TOTALS (lbs/day, mitigated)	25.45	167.53	208.88	0.12	18.99	7.04	11.95

*** 2007 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	35.40	227.17	291.08	0.00	8.73	8.67	0.06
TOTALS (lbs/day, mitigated)	35.40	227.17	291.08	0.00	8.73	8.67	0.06

*** 2008 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	17.52	103.01	150.11	0.00	3.44	3.39	0.05
TOTALS (lbs/day, mitigated)	17.52	103.01	150.11	0.00	3.44	3.39	0.05

*** 2009 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	17.50	101.46	149.85	0.00	3.03	2.98	0.05
TOTALS (lbs/day, mitigated)	17.50	101.46	149.85	0.00	3.03	2.98	0.05

*** 2010 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	17.48	100.26	149.60	0.00	2.82	2.77	0.05
TOTALS (lbs/day, mitigated)	17.48	100.26	149.60	0.00	2.82	2.77	0.05

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	3.08	4.49	9.38	0.00	0.02
TOTALS (lbs/day, mitigated)	3.08	4.49	9.38	0.00	0.02

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	76.28	82.32	768.31	0.53	90.89
TOTALS (lbs/day, mitigated)	59.22	60.13	561.22	0.38	66.39

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	79.37	86.82	777.69	0.53	90.91
TOTALS (lbs/day, mitigated)	62.31	64.63	570.60	0.39	66.41

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-CC.urb
Project Name: Dana Point Harbor - Proposed Commercial Core
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)

CONSTRUCTION EMISSION ESTIMATES

*** 2006 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	25.45	167.53	208.88	0.12	87.05	7.04	80.01
TOTALS (lbs/day, mitigated)	25.45	167.53	208.88	0.12	18.99	7.04	11.95

*** 2007 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	35.40	227.17	291.08	0.00	8.73	8.67	0.06
TOTALS (lbs/day, mitigated)	35.40	227.17	291.08	0.00	8.73	8.67	0.06

*** 2008 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	17.52	103.01	150.11	0.00	3.44	3.39	0.05
TOTALS (lbs/day, mitigated)	17.52	103.01	150.11	0.00	3.44	3.39	0.05

*** 2009 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	17.50	101.46	149.85	0.00	3.03	2.98	0.05
TOTALS (lbs/day, mitigated)	17.50	101.46	149.85	0.00	3.03	2.98	0.05

*** 2010 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	17.48	100.26	149.60	0.00	2.82	2.77	0.05
TOTALS (lbs/day, mitigated)	17.48	100.26	149.60	0.00	2.82	2.77	0.05

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	2.28	4.41	3.70	0.00	0.01
TOTALS (lbs/day, mitigated)	2.28	4.41	3.70	0.00	0.01

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	83.71	122.31	950.03	0.48	90.89
TOTALS (lbs/day, mitigated)	61.15	89.34	693.96	0.35	66.39

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	85.99	126.72	953.73	0.48	90.90
TOTALS (lbs/day, mitigated)	63.42	93.75	697.66	0.35	66.40

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-CC.urb
Project Name: Dana Point Harbor - Proposed Commercial Core
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

*** 2006 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (tpy, unmitigated)	2.84	19.86	22.90	0.01	6.26	0.84	5.42
TOTALS (tpy, mitigated)	2.84	19.86	22.90	0.01	1.77	0.84	0.93

*** 2007 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (tpy, unmitigated)	3.50	21.90	29.09	0.00	0.83	0.82	0.01
TOTALS (tpy, mitigated)	3.50	21.90	29.09	0.00	0.83	0.82	0.01

*** 2008 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (tpy, unmitigated)	2.31	13.60	19.82	0.00	0.46	0.45	0.01
TOTALS (tpy, mitigated)	2.31	13.60	19.82	0.00	0.46	0.45	0.01

*** 2009 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (tpy, unmitigated)	2.31	13.39	19.74	0.00	0.40	0.39	0.01
TOTALS (tpy, mitigated)	2.31	13.39	19.74	0.00	0.40	0.39	0.01

*** 2010 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (tpy, unmitigated)	0.96	5.52	8.22	0.00	0.15	0.15	0.00
TOTALS (tpy, mitigated)	0.96	5.52	8.22	0.00	0.15	0.15	0.00

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.39	0.81	1.19	0.00	0.00
TOTALS (tpy, mitigated)	0.39	0.81	1.19	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	14.37	17.46	151.27	0.09	16.59
TOTALS (tpy, mitigated)	10.93	12.75	110.50	0.07	12.12

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	14.76	18.27	152.46	0.09	16.59
TOTALS (tpy, mitigated)	11.31	13.56	111.68	0.07	12.12

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-CC.urb
Project Name: Dana Point Harbor - Proposed Commercial Core
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)

Construction Start Month and Year: January, 2006
Construction Duration: 60
Total Land Use Area to be Developed: 8 acres
Maximum Acreage Disturbed Per Day: 8 acres
Single Family Units: 0 Multi-Family Units: 0
Retail/Office/Institutional/Industrial Square Footage: 139500

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	2.16	-	2.16
Off-Road Diesel	17.28	125.57	132.97	-	5.60	5.60	0.00
On-Road Diesel	0.37	8.35	1.36	0.12	0.19	0.16	0.03
Worker Trips	0.19	0.38	3.94	0.00	0.02	0.01	0.01
Maximum lbs/day	17.84	134.30	138.27	0.12	7.97	5.77	2.20
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	80.00	-	80.00
Off-Road Diesel	25.37	167.48	207.88	-	7.04	7.04	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.08	0.05	1.00	0.00	0.01	0.00	0.01
Maximum lbs/day	25.45	167.53	208.88	0.00	87.05	7.04	80.01
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	25.45	167.53	208.88	0.12	87.05	7.04	80.01
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	17.26	104.60	146.73	-	3.71	3.71	0.00
Bldg Const Worker Trips	0.28	0.17	3.62	0.00	0.05	0.00	0.05
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.08	-	-	-	-	-	-
Asphalt Off-Road Diesel	17.69	122.03	139.80	-	4.95	4.95	0.00
Asphalt On-Road Diesel	0.02	0.33	0.06	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.07	0.04	0.86	0.00	0.01	0.00	0.01
Maximum lbs/day	35.40	227.17	291.08	0.00	8.73	8.67	0.06
Max lbs/day all phases	35.40	227.17	291.08	0.00	8.73	8.67	0.06
*** 2008***							

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	17.26	102.85	146.73	-	3.39	3.39	0.00
Bldg Const Worker Trips	0.26	0.16	3.37	0.00	0.05	0.00	0.05
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	17.52	103.01	150.11	0.00	3.44	3.39	0.05
Max lbs/day all phases	17.52	103.01	150.11	0.00	3.44	3.39	0.05

*** 2009***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	17.26	101.31	146.73	-	2.98	2.98	0.00
Bldg Const Worker Trips	0.24	0.15	3.11	0.00	0.05	0.00	0.05
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	17.50	101.46	149.85	0.00	3.03	2.98	0.05
Max lbs/day all phases	17.50	101.46	149.85	0.00	3.03	2.98	0.05

*** 2010***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	17.26	100.12	146.73	-	2.76	2.76	0.00
Bldg Const Worker Trips	0.21	0.13	2.86	0.00	0.05	0.00	0.05
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-

Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	17.48	100.26	149.60	0.00	2.82	2.77	0.05
Max lbs/day all phases	17.48	100.26	149.60	0.00	2.82	2.77	0.05

Phase 1 - Demolition Assumptions
Start Month/Year for Phase 1: Jan '06
Phase 1 Duration: 6 months
Building Volume Total (cubic feet): 680166.4
Building Volume Daily (cubic feet): 5152.9
On-Road Truck Travel (VMT): 285
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Concrete/Industrial saws	84	0.730	8.0
2	Crushing/Processing Equip	154	0.780	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Jul '06
Phase 2 Duration: 6 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Excavators	180	0.580	8.0
2	Graders	174	0.575	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0
2	Scrapers	313	0.660	8.0

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jan '07
Phase 3 Duration: 48 months
Start Month/Year for SubPhase Building: Jan '07
SubPhase Building Duration: 41 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
3	Off Highway Trucks	417	0.490	8.0
2	Rough Terrain Forklifts	94	0.475	8.0
2	Trenchers	82	0.695	8.0

SubPhase Architectural Coatings Turned OFF
Start Month/Year for SubPhase Asphalt: Jun '07
SubPhase Asphalt Duration: 6 months
Acres to be Paved: 4
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Off Highway Trucks	417	0.490	8.0
2	Pavers	132	0.590	8.0
2	Paving Equipment	111	0.530	8.0
2	Rollers	114	0.430	8.0
2	Surfacing Equipment	437	0.490	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	2.16	-	2.16
Off-Road Diesel	17.28	125.57	132.97	-	5.60	5.60	0.00
On-Road Diesel	0.37	8.35	1.36	0.12	0.19	0.16	0.03
Worker Trips	0.19	0.38	3.94	0.00	0.02	0.01	0.01
Maximum lbs/day	17.84	134.30	138.27	0.12	7.97	5.77	2.20
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	11.94	-	11.94
Off-Road Diesel	25.37	167.48	207.88	-	7.04	7.04	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.08	0.05	1.00	0.00	0.01	0.00	0.01
Maximum lbs/day	25.45	167.53	208.88	0.00	18.99	7.04	11.95
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00

Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	25.45	167.53	208.88	0.12	18.99	7.04	11.95

*** 2007***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	17.26	104.60	146.73	-	3.71	3.71	0.00
Bldg Const Worker Trips	0.28	0.17	3.62	0.00	0.05	0.00	0.05
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.08	-	-	-	-	-	-
Asphalt Off-Road Diesel	17.69	122.03	139.80	-	4.95	4.95	0.00
Asphalt On-Road Diesel	0.02	0.33	0.06	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.07	0.04	0.86	0.00	0.01	0.00	0.01
Maximum lbs/day	35.40	227.17	291.08	0.00	8.73	8.67	0.06
Max lbs/day all phases	35.40	227.17	291.08	0.00	8.73	8.67	0.06

*** 2008***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	17.26	102.85	146.73	-	3.39	3.39	0.00
Bldg Const Worker Trips	0.26	0.16	3.37	0.00	0.05	0.00	0.05
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	17.52	103.01	150.11	0.00	3.44	3.39	0.05
Max lbs/day all phases	17.52	103.01	150.11	0.00	3.44	3.39	0.05

*** 2009***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	17.26	101.31	146.73	-	2.98	2.98	0.00
Bldg Const Worker Trips	0.24	0.15	3.11	0.00	0.05	0.00	0.05
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	17.50	101.46	149.85	0.00	3.03	2.98	0.05
Max lbs/day all phases	17.50	101.46	149.85	0.00	3.03	2.98	0.05

*** 2010***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	17.26	100.12	146.73	-	2.76	2.76	0.00
Bldg Const Worker Trips	0.21	0.13	2.86	0.00	0.05	0.00	0.05
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	17.48	100.26	149.60	0.00	2.82	2.77	0.05
Max lbs/day all phases	17.48	100.26	149.60	0.00	2.82	2.77	0.05

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 15.0%)
Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)
Phase 2: Stockpiles: Cover all stock piles with tarps
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 9.5%)
Phase 2: Unpaved Roads: Water all haul roads 2x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)
Phase 1 - Demolition Assumptions
Start Month/Year for Phase 1: Jan '06
Phase 1 Duration: 6 months
Building Volume Total (cubic feet): 680166.4
Building Volume Daily (cubic feet): 5152.9
On-Road Truck Travel (VMT): 285
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Concrete/Industrial saws	84	0.730	8.0
2	Crushing/Processing Equip	154	0.780	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Jul '06
Phase 2 Duration: 6 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Excavators	180	0.580	8.0
2	Graders	174	0.575	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0
2	Scrapers	313	0.660	8.0

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jan '07
Phase 3 Duration: 48 months
Start Month/Year for SubPhase Building: Jan '07
SubPhase Building Duration: 41 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
3	Off Highway Trucks	417	0.490	8.0
2	Rough Terrain Forklifts	94	0.475	8.0
2	Trenchers	82	0.695	8.0

SubPhase Architectural Coatings Turned OFF
Start Month/Year for SubPhase Asphalt: Jun '07
SubPhase Asphalt Duration: 6 months
Acres to be Paved: 4
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Off Highway Trucks	417	0.490	8.0
2	Pavers	132	0.590	8.0
2	Paving Equipment	111	0.530	8.0
2	Rollers	114	0.430	8.0
2	Surfacing Equipment	437	0.490	8.0

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.32	4.41	3.70	0	0.01
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	1.96	-	-	-	-
TOTALS(lbs/day,unmitigated)	2.28	4.41	3.70	0.00	0.01

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Mitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.32	4.41	3.70	0	0.01
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	1.96	-	-	-	-
TOTALS (lbs/day, mitigated)	2.28	4.41	3.70	0.00	0.01

Area Source Mitigation Measures

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Light House Museum	0.71	0.93	7.54	0.00	0.66
Dry Stack Boat Storage an	18.33	30.73	226.46	0.13	23.91
Retail/Restaurant	7.51	9.80	79.77	0.04	6.96
Retail-Restaurant-Restaur	53.51	75.20	593.58	0.29	55.04
Dry Stack Boat Storage -	2.17	3.04	24.02	0.01	2.23
Dry Stack Boat Storage Of	0.37	0.61	4.54	0.00	0.48
Boat Yard Building	0.30	0.51	3.67	0.00	0.40
BSB- Yacht Brokerage	0.68	1.24	8.69	0.01	1.02
BSB - 2	0.14	0.24	1.76	0.00	0.19
TOTAL EMISSIONS (lbs/day)	83.71	122.31	950.03	0.48	90.89

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Light House Museum		54.00 trips/1000 sq. ft.	2.50	135.00
Dry Stack Boat Storage an		2.96 trips/Slips	1,030.00	3,048.80
Retail/Restaurant		44.32 trips/1000 sq. ft.	32.80	1,453.70
Retail-Restaurant-Restaur		127.15 trips/1000 sq. ft.	78.40	9,968.56
Dry Stack Boat Storage -		44.32 trips/1000 sq. ft.	9.10	403.31
Dry Stack Boat Storage Of		11.01 trips/1000 sq. ft.	5.60	61.66
Boat Yard Building		15.86 trips/1000 sq. ft.	2.50	39.65
BSB- Yacht Brokerage		11.01 trips/1000 sq. ft.	6.80	74.87
BSB - 2		11.01 trips/1000 sq. ft.	1.80	19.82
		Sum of Total Trips		15,205.36
		Total Vehicle Miles Traveled		59,936.54

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.70	1.10	98.70	0.20
Light Truck < 3,750 lbs	15.20	2.00	96.00	2.00
Light Truck 3,751- 5,750	16.20	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	68.80	31.20	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Light House Museum				5.0	2.5	92.5
Dry Stack Boat Storage and Car Trailer Parking				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Retail-Restaurant-Restaurant				2.0	1.0	97.0
Dry Stack Boat Storage - Retail STore				2.0	1.0	97.0
Dry Stack Boat Storage Office				2.0	1.0	97.0

Boat Yard Building	50.0	25.0	25.0
BSB- Yacht Brokerage	90.0	5.0	5.0
BSB - 2	41.5	20.8	37.8

MITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Light House Museum	0.52	0.68	5.51	0.00	0.48
Dry Stack Boat Storage an	13.39	22.44	165.42	0.09	17.47
Retail/Restaurant	5.48	7.16	58.27	0.03	5.08
Retail-Restaurant-Restaur	39.09	54.93	433.59	0.21	40.20
Dry Stack Boat Storage -	1.58	2.22	17.54	0.01	1.63
Dry Stack Boat Storage Of	0.27	0.45	3.32	0.00	0.35
Boat Yard Building	0.22	0.37	2.68	0.00	0.29
BSB- Yacht Brokerage	0.50	0.91	6.35	0.00	0.74
BSB - 2	0.10	0.18	1.28	0.00	0.14
TOTAL EMISSIONS (lbs/day)	61.15	89.34	693.96	0.35	66.39
PERCENTAGE REDUCTION %	27	27	27	27	27

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Light House Museum		39.44 trips/1000 sq. ft.	2.50	98.61
Dry Stack Boat Storage an		2.16 trips/Slips	1,030.00	2,227.02
Retail/Restaurant		32.37 trips/1000 sq. ft.	32.80	1,061.86
Retail-Restaurant-Restaur		92.88 trips/1000 sq. ft.	78.40	7,281.60
Dry Stack Boat Storage -		32.37 trips/1000 sq. ft.	9.10	294.60
Dry Stack Boat Storage Of		8.04 trips/1000 sq. ft.	5.60	45.04
Boat Yard Building		11.59 trips/1000 sq. ft.	2.50	28.96
BSB- Yacht Brokerage		8.04 trips/1000 sq. ft.	6.80	54.69
BSB - 2		8.04 trips/1000 sq. ft.	1.80	14.48
		Sum of Total Trips		11,106.86
		Total Vehicle Miles Traveled		43,781.07

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.70	1.10	98.70	0.20
Light Truck < 3,750 lbs	15.20	2.00	96.00	2.00
Light Truck 3,751- 5,750	16.20	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	68.80	31.20	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Light House Museum				5.0	2.5	92.5
Dry Stack Boat Storage and Car Trailer Parking				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Retail-Restaurant-Restaurant				2.0	1.0	97.0
Dry Stack Boat Storage - Retail STore				2.0	1.0	97.0

Dry Stack Boat Storage Office	2.0	1.0	97.0
Boat Yard Building	50.0	25.0	25.0
BSB- Yacht Brokerage	90.0	5.0	5.0
BSB - 2	41.5	20.8	37.8

MITIGATION OPTIONS SELECTED

Non-Residential Mitigation Measures
==========

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 2%
Inputs Selected:
The Presence of Local-Serving Retail checkbox was selected.

Non-Residential Transit Service Mitigation

Percent Reduction in Trips is 0.04%
Inputs Selected:
The Number of Daily Weekday Buses Stopping Within 1/4 Mile of Site is 3
The Number of Daily Rail or Bus Rapid Transit Stops Within 1/2 Mile of Site is 0
The Number of Dedicated Daily Shuttle Trips is 0

Non-Residential Pedestrian/Bicycle Friendliness Mitigation

Percent Reduction in Trips is 4.08%
Inputs Selected:
The Number of Intersections per Square Mile is 15
The Percent of Streets with Sidewalks on One Side is %
The Percent of Streets with Sidewalks on Both Sides is 75%
The Percent of Arterials/Collectors with Bike Lanes or where Suitable,
Direct Parallel Routes Exist is 60%

Non-Residential Parking Pricing/Cash Out Mitigation

Percent Reduction in Trips is 20.83%
Inputs Selected:
The Daily Parking Change was set to 5 dollars

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths
Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.
Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Water all haul roads 2x daily
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
has been changed from off to on.

Changes made to the default values for Area

The hearth option switch changed from on to off.
The area souce mitigation measure option switch changed from off to on.
The landscape year changed from 2005 to 2012.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The mitigation option switch changed from off to on.
The operational emission year changed from 2005 to 2010.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.
The Res and Non-Res Local-Serving Retail Mitigation changed from off to on.
The Res and Non-Res Transit Service Mitigation changed from off to on.
The Res and Non-Res Ped/Bike Mitigation changed from off to on.
The Res and Non-Res Trans Demand Mgmt Measures Mitigation changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-CC.urb
Project Name: Dana Point Harbor - Proposed Commercial Core
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: January, 2006
Construction Duration: 60
Total Land Use Area to be Developed: 8 acres
Maximum Acreage Disturbed Per Day: 8 acres
Single Family Units: 0 Multi-Family Units: 0
Retail/Office/Institutional/Industrial Square Footage: 139500

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	2.16	-	2.16
Off-Road Diesel	17.28	125.57	132.97	-	5.60	5.60	0.00
On-Road Diesel	0.37	8.35	1.36	0.12	0.19	0.16	0.03
Worker Trips	0.19	0.38	3.94	0.00	0.02	0.01	0.01
Maximum lbs/day	17.84	134.30	138.27	0.12	7.97	5.77	2.20
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	80.00	-	80.00
Off-Road Diesel	25.37	167.48	207.88	-	7.04	7.04	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.08	0.05	1.00	0.00	0.01	0.00	0.01
Maximum lbs/day	25.45	167.53	208.88	0.00	87.05	7.04	80.01
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	25.45	167.53	208.88	0.12	87.05	7.04	80.01
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	17.26	104.60	146.73	-	3.71	3.71	0.00
Bldg Const Worker Trips	0.28	0.17	3.62	0.00	0.05	0.00	0.05
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.08	-	-	-	-	-	-
Asphalt Off-Road Diesel	17.69	122.03	139.80	-	4.95	4.95	0.00
Asphalt On-Road Diesel	0.02	0.33	0.06	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.07	0.04	0.86	0.00	0.01	0.00	0.01
Maximum lbs/day	35.40	227.17	291.08	0.00	8.73	8.67	0.06
Max lbs/day all phases	35.40	227.17	291.08	0.00	8.73	8.67	0.06
*** 2008***							

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	17.26	102.85	146.73	-	3.39	3.39	0.00
Bldg Const Worker Trips	0.26	0.16	3.37	0.00	0.05	0.00	0.05
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	17.52	103.01	150.11	0.00	3.44	3.39	0.05
Max lbs/day all phases	17.52	103.01	150.11	0.00	3.44	3.39	0.05

*** 2009***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	17.26	101.31	146.73	-	2.98	2.98	0.00
Bldg Const Worker Trips	0.24	0.15	3.11	0.00	0.05	0.00	0.05
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	17.50	101.46	149.85	0.00	3.03	2.98	0.05
Max lbs/day all phases	17.50	101.46	149.85	0.00	3.03	2.98	0.05

*** 2010***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	17.26	100.12	146.73	-	2.76	2.76	0.00
Bldg Const Worker Trips	0.21	0.13	2.86	0.00	0.05	0.00	0.05
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-

Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	17.48	100.26	149.60	0.00	2.82	2.77	0.05
Max lbs/day all phases	17.48	100.26	149.60	0.00	2.82	2.77	0.05

Phase 1 - Demolition Assumptions
Start Month/Year for Phase 1: Jan '06
Phase 1 Duration: 6 months
Building Volume Total (cubic feet): 680166.4
Building Volume Daily (cubic feet): 5152.9
On-Road Truck Travel (VMT): 285
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Concrete/Industrial saws	84	0.730	8.0
2	Crushing/Processing Equip	154	0.780	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Jul '06
Phase 2 Duration: 6 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Excavators	180	0.580	8.0
2	Graders	174	0.575	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0
2	Scrapers	313	0.660	8.0

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jan '07
Phase 3 Duration: 48 months
Start Month/Year for SubPhase Building: Jan '07
SubPhase Building Duration: 41 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
3	Off Highway Trucks	417	0.490	8.0
2	Rough Terrain Forklifts	94	0.475	8.0
2	Trenchers	82	0.695	8.0

SubPhase Architectural Coatings Turned OFF
Start Month/Year for SubPhase Asphalt: Jun '07
SubPhase Asphalt Duration: 6 months
Acres to be Paved: 4
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Off Highway Trucks	417	0.490	8.0
2	Pavers	132	0.590	8.0
2	Paving Equipment	111	0.530	8.0
2	Rollers	114	0.430	8.0
2	Surfacing Equipment	437	0.490	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	2.16	-	2.16
Off-Road Diesel	17.28	125.57	132.97	-	5.60	5.60	0.00
On-Road Diesel	0.37	8.35	1.36	0.12	0.19	0.16	0.03
Worker Trips	0.19	0.38	3.94	0.00	0.02	0.01	0.01
Maximum lbs/day	17.84	134.30	138.27	0.12	7.97	5.77	2.20
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	11.94	-	11.94
Off-Road Diesel	25.37	167.48	207.88	-	7.04	7.04	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.08	0.05	1.00	0.00	0.01	0.00	0.01
Maximum lbs/day	25.45	167.53	208.88	0.00	18.99	7.04	11.95
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00

Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	25.45	167.53	208.88	0.12	18.99	7.04	11.95

*** 2007***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	17.26	104.60	146.73	-	3.71	3.71	0.00
Bldg Const Worker Trips	0.28	0.17	3.62	0.00	0.05	0.00	0.05
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.08	-	-	-	-	-	-
Asphalt Off-Road Diesel	17.69	122.03	139.80	-	4.95	4.95	0.00
Asphalt On-Road Diesel	0.02	0.33	0.06	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.07	0.04	0.86	0.00	0.01	0.00	0.01
Maximum lbs/day	35.40	227.17	291.08	0.00	8.73	8.67	0.06
Max lbs/day all phases	35.40	227.17	291.08	0.00	8.73	8.67	0.06

*** 2008***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	17.26	102.85	146.73	-	3.39	3.39	0.00
Bldg Const Worker Trips	0.26	0.16	3.37	0.00	0.05	0.00	0.05
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	17.52	103.01	150.11	0.00	3.44	3.39	0.05
Max lbs/day all phases	17.52	103.01	150.11	0.00	3.44	3.39	0.05

*** 2009***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	17.26	101.31	146.73	-	2.98	2.98	0.00
Bldg Const Worker Trips	0.24	0.15	3.11	0.00	0.05	0.00	0.05
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	17.50	101.46	149.85	0.00	3.03	2.98	0.05
Max lbs/day all phases	17.50	101.46	149.85	0.00	3.03	2.98	0.05

*** 2010***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	17.26	100.12	146.73	-	2.76	2.76	0.00
Bldg Const Worker Trips	0.21	0.13	2.86	0.00	0.05	0.00	0.05
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	17.48	100.26	149.60	0.00	2.82	2.77	0.05
Max lbs/day all phases	17.48	100.26	149.60	0.00	2.82	2.77	0.05

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 15.0%)
Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)
Phase 2: Stockpiles: Cover all stock piles with tarps
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 9.5%)
Phase 2: Unpaved Roads: Water all haul roads 2x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)

Phase 1 - Demolition Assumptions
Start Month/Year for Phase 1: Jan '06
Phase 1 Duration: 6 months
Building Volume Total (cubic feet): 680166.4
Building Volume Daily (cubic feet): 5152.9
On-Road Truck Travel (VMT): 285
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Concrete/Industrial saws	84	0.730	8.0
2	Crushing/Processing Equip	154	0.780	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Jul '06
Phase 2 Duration: 6 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Excavators	180	0.580	8.0
2	Graders	174	0.575	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0
2	Scrapers	313	0.660	8.0

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jan '07
Phase 3 Duration: 48 months
Start Month/Year for SubPhase Building: Jan '07
SubPhase Building Duration: 41 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
3	Off Highway Trucks	417	0.490	8.0
2	Rough Terrain Forklifts	94	0.475	8.0
2	Trenchers	82	0.695	8.0

SubPhase Architectural Coatings Turned OFF
Start Month/Year for SubPhase Asphalt: Jun '07
SubPhase Asphalt Duration: 6 months
Acres to be Paved: 4
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Off Highway Trucks	417	0.490	8.0
2	Pavers	132	0.590	8.0
2	Paving Equipment	111	0.530	8.0
2	Rollers	114	0.430	8.0
2	Surfacing Equipment	437	0.490	8.0

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.32	4.41	3.70	0	0.01
Hearth - No summer emissions					
Landscaping	0.81	0.08	5.68	0.00	0.01
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	1.96	-	-	-	-
TOTALS(lbs/day,unmitigated)	3.08	4.49	9.38	0.00	0.02

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Mitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.32	4.41	3.70	0	0.01
Hearth - No summer emissions					
Landscaping	0.81	0.08	5.68	0.00	0.01
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	1.96	-	-	-	-
TOTALS (lbs/day, mitigated)	3.08	4.49	9.38	0.00	0.02

Area Source Mitigation Measures

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Light House Museum	0.56	0.63	5.92	0.00	0.66
Dry Stack Boat Storage an	25.49	20.57	190.74	0.14	23.91
Retail/Restaurant	5.98	6.63	62.12	0.04	6.96
Retail-Restaurant-Restaur	41.15	50.70	473.54	0.32	55.04
Dry Stack Boat Storage -	1.73	2.05	19.16	0.01	2.23
Dry Stack Boat Storage Of	0.34	0.41	3.82	0.00	0.48
Boat Yard Building	0.26	0.34	3.31	0.00	0.40
BSB- Yacht Brokerage	0.63	0.82	8.13	0.01	1.02
BSB - 2	0.13	0.16	1.57	0.00	0.19
TOTAL EMISSIONS (lbs/day)	76.28	82.32	768.31	0.53	90.89

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 85 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Light House Museum		54.00 trips/1000 sq. ft.	2.50	135.00
Dry Stack Boat Storage an		2.96 trips/Slips	1,030.00	3,048.80
Retail/Restaurant		44.32 trips/1000 sq. ft.	32.80	1,453.70
Retail-Restaurant-Restaur		127.15 trips/1000 sq. ft.	78.40	9,968.56
Dry Stack Boat Storage -		44.32 trips/1000 sq. ft.	9.10	403.31
Dry Stack Boat Storage Of		11.01 trips/1000 sq. ft.	5.60	61.66
Boat Yard Building		15.86 trips/1000 sq. ft.	2.50	39.65
BSB- Yacht Brokerage		11.01 trips/1000 sq. ft.	6.80	74.87
BSB - 2		11.01 trips/1000 sq. ft.	1.80	19.82
		Sum of Total Trips		15,205.36
		Total Vehicle Miles Traveled		59,936.54

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.70	1.10	98.70	0.20
Light Truck < 3,750 lbs	15.20	2.00	96.00	2.00
Light Truck 3,751- 5,750	16.20	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	68.80	31.20	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Light House Museum				5.0	2.5	92.5
Dry Stack Boat Storage and Car Trailer Parking				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Retail-Restaurant-Restaurant				2.0	1.0	97.0
Dry Stack Boat Storage - Retail STore				2.0	1.0	97.0
Dry Stack Boat Storage Office				2.0	1.0	97.0

Boat Yard Building	50.0	25.0	25.0
BSB- Yacht Brokerage	90.0	5.0	5.0
BSB - 2	41.5	20.8	37.8

MITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Light House Museum	0.42	0.46	4.33	0.00	0.48
Dry Stack Boat Storage an	21.70	15.03	139.33	0.10	17.47
Retail/Restaurant	4.46	4.84	45.37	0.03	5.08
Retail-Restaurant-Restaur	30.30	37.04	345.90	0.23	40.20
Dry Stack Boat Storage -	1.29	1.50	13.99	0.01	1.63
Dry Stack Boat Storage Of	0.27	0.30	2.79	0.00	0.35
Boat Yard Building	0.20	0.25	2.42	0.00	0.29
BSB- Yacht Brokerage	0.48	0.60	5.94	0.00	0.74
BSB - 2	0.10	0.12	1.14	0.00	0.14
TOTAL EMISSIONS (lbs/day)	59.22	60.13	561.22	0.38	66.39
PERCENTAGE REDUCTION %	22	27	27	27	27

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 85 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Light House Museum		39.44 trips/1000 sq. ft.	2.50	98.61
Dry Stack Boat Storage an		2.16 trips/Slips	1,030.00	2,227.02
Retail/Restaurant		32.37 trips/1000 sq. ft.	32.80	1,061.86
Retail-Restaurant-Restaur		92.88 trips/1000 sq. ft.	78.40	7,281.60
Dry Stack Boat Storage -		32.37 trips/1000 sq. ft.	9.10	294.60
Dry Stack Boat Storage Of		8.04 trips/1000 sq. ft.	5.60	45.04
Boat Yard Building		11.59 trips/1000 sq. ft.	2.50	28.96
BSB- Yacht Brokerage		8.04 trips/1000 sq. ft.	6.80	54.69
BSB - 2		8.04 trips/1000 sq. ft.	1.80	14.48
		Sum of Total Trips		11,106.86
		Total Vehicle Miles Traveled		43,781.07

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.70	1.10	98.70	0.20
Light Truck < 3,750 lbs	15.20	2.00	96.00	2.00
Light Truck 3,751- 5,750	16.20	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	68.80	31.20	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Light House Museum				5.0	2.5	92.5
Dry Stack Boat Storage and Car Trailer Parking				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Retail-Restaurant-Restaurant				2.0	1.0	97.0
Dry Stack Boat Storage - Retail STore				2.0	1.0	97.0

Dry Stack Boat Storage Office	2.0	1.0	97.0
Boat Yard Building	50.0	25.0	25.0
BSB- Yacht Brokerage	90.0	5.0	5.0
BSB - 2	41.5	20.8	37.8

MITIGATION OPTIONS SELECTED

Non-Residential Mitigation Measures

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 2%
Inputs Selected:
The Presence of Local-Serving Retail checkbox was selected.

Non-Residential Transit Service Mitigation

Percent Reduction in Trips is 0.04%
Inputs Selected:
The Number of Daily Weekday Buses Stopping Within 1/4 Mile of Site is 3
The Number of Daily Rail or Bus Rapid Transit Stops Within 1/2 Mile of Site is 0
The Number of Dedicated Daily Shuttle Trips is 0

Non-Residential Pedestrian/Bicycle Friendliness Mitigation

Percent Reduction in Trips is 4.08%
Inputs Selected:
The Number of Intersections per Square Mile is 15
The Percent of Streets with Sidewalks on One Side is %
The Percent of Streets with Sidewalks on Both Sides is 75%
The Percent of Arterials/Collectors with Bike Lanes or where Suitable,
Direct Parallel Routes Exist is 60%

Non-Residential Parking Pricing/Cash Out Mitigation

Percent Reduction in Trips is 20.83%
Inputs Selected:
The Daily Parking Change was set to 5 dollars

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths
Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.
Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Water all haul roads 2x daily
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
has been changed from off to on.

Changes made to the default values for Area

The hearth option switch changed from on to off.
The area souce mitigation measure option switch changed from off to on.
The landscape year changed from 2005 to 2012.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The mitigation option switch changed from off to on.
The operational emission year changed from 2005 to 2010.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.
The Res and Non-Res Local-Serving Retail Mitigation changed from off to on.
The Res and Non-Res Transit Service Mitigation changed from off to on.
The Res and Non-Res Ped/Bike Mitigation changed from off to on.
The Res and Non-Res Trans Demand Mgmt Measures Mitigation changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-CC.urb
Project Name: Dana Point Harbor - Proposed Commercial Core
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

Construction Start Month and Year: January, 2006
Construction Duration: 60
Total Land Use Area to be Developed: 8 acres
Maximum Acreage Disturbed Per Day: 8 acres
Single Family Units: 0 Multi-Family Units: 0
Retail/Office/Institutional/Industrial Square Footage: 139500

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (tons/year)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.14	-	0.14
Off-Road Diesel	1.14	8.29	8.78	-	0.37	0.37	0.00
On-Road Diesel	0.02	0.50	0.09	0.01	0.01	0.01	0.00
Worker Trips	0.01	0.02	0.25	0.00	0.00	0.00	0.00
Total tons/year	1.17	8.81	9.12	0.01	0.52	0.38	0.14
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	5.28	-	5.28
Off-Road Diesel	1.67	11.05	13.72	-	0.46	0.46	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.06	0.00	0.00	0.00	0.00
Total tons/year	1.67	11.05	13.78	0.00	5.74	0.46	5.28
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total all phases tons/yr	2.84	19.86	22.90	0.01	6.26	0.84	5.42
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	2.28	13.81	19.37	-	0.49	0.49	0.00
Bldg Const Worker Trips	0.04	0.02	0.44	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.01	-	-	-	-	-	-
Asphalt Off-Road Diesel	1.17	8.05	9.23	-	0.33	0.33	0.00
Asphalt On-Road Diesel	0.00	0.02	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.05	0.00	0.00	0.00	0.00
Total tons/year	3.50	21.90	29.09	0.00	0.83	0.82	0.01
Total all phases tons/yr	3.50	21.90	29.09	0.00	0.83	0.82	0.01
*** 2008***							

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	2.28	13.58	19.37	-	0.45	0.45	0.00
Bldg Const Worker Trips	0.03	0.02	0.45	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	2.31	13.60	19.82	0.00	0.46	0.45	0.01
Total all phases tons/yr	2.31	13.60	19.82	0.00	0.46	0.45	0.01

*** 2009***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	2.28	13.37	19.37	-	0.39	0.39	0.00
Bldg Const Worker Trips	0.03	0.02	0.37	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	2.31	13.39	19.74	0.00	0.40	0.39	0.01
Total all phases tons/yr	2.31	13.39	19.74	0.00	0.40	0.39	0.01

*** 2010***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.95	5.51	8.07	-	0.15	0.15	0.00
Bldg Const Worker Trips	0.01	0.01	0.15	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-

Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.96	5.52	8.22	0.00	0.15	0.15	0.00
Total all phases tons/yr	0.96	5.52	8.22	0.00	0.15	0.15	0.00

Phase 1 - Demolition Assumptions
Start Month/Year for Phase 1: Jan '06
Phase 1 Duration: 6 months
Building Volume Total (cubic feet): 680166.4
Building Volume Daily (cubic feet): 5152.9
On-Road Truck Travel (VMT): 285
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Concrete/Industrial saws	84	0.730	8.0
2	Crushing/Processing Equip	154	0.780	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Jul '06
Phase 2 Duration: 6 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Excavators	180	0.580	8.0
2	Graders	174	0.575	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0
2	Scrapers	313	0.660	8.0

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jan '07
Phase 3 Duration: 48 months
Start Month/Year for SubPhase Building: Jan '07
SubPhase Building Duration: 41 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
3	Off Highway Trucks	417	0.490	8.0
2	Rough Terrain Forklifts	94	0.475	8.0
2	Trenchers	82	0.695	8.0

SubPhase Architectural Coatings Turned OFF
Start Month/Year for SubPhase Asphalt: Jun '07
SubPhase Asphalt Duration: 6 months
Acres to be Paved: 4
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Off Highway Trucks	417	0.490	8.0
2	Pavers	132	0.590	8.0
2	Paving Equipment	111	0.530	8.0
2	Rollers	114	0.430	8.0
2	Surfacing Equipment	437	0.490	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (tons/year)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.14	-	0.14
Off-Road Diesel	1.14	8.29	8.78	-	0.37	0.37	0.00
On-Road Diesel	0.02	0.50	0.09	0.01	0.01	0.01	0.00
Worker Trips	0.01	0.02	0.25	0.00	0.00	0.00	0.00
Total tons/year	1.17	8.81	9.12	0.01	0.52	0.38	0.14
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.79	-	0.79
Off-Road Diesel	1.67	11.05	13.72	-	0.46	0.46	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.06	0.00	0.00	0.00	0.00
Total tons/year	1.67	11.05	13.78	0.00	1.25	0.46	0.79
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00

Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total all phases tons/yr	2.84	19.86	22.90	0.01	1.77	0.84	0.93

*** 2007***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	2.28	13.81	19.37	-	0.49	0.49	0.00
Bldg Const Worker Trips	0.04	0.02	0.44	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.01	-	-	-	-	-	-
Asphalt Off-Road Diesel	1.17	8.05	9.23	-	0.33	0.33	0.00
Asphalt On-Road Diesel	0.00	0.02	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.05	0.00	0.00	0.00	0.00
Total tons/year	3.50	21.90	29.09	0.00	0.83	0.82	0.01
Total all phases tons/yr	3.50	21.90	29.09	0.00	0.83	0.82	0.01

*** 2008***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	2.28	13.58	19.37	-	0.45	0.45	0.00
Bldg Const Worker Trips	0.03	0.02	0.45	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	2.31	13.60	19.82	0.00	0.46	0.45	0.01
Total all phases tons/yr	2.31	13.60	19.82	0.00	0.46	0.45	0.01

*** 2009***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	2.28	13.37	19.37	-	0.39	0.39	0.00
Bldg Const Worker Trips	0.03	0.02	0.37	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	2.31	13.39	19.74	0.00	0.40	0.39	0.01
Total all phases tons/yr	2.31	13.39	19.74	0.00	0.40	0.39	0.01

*** 2010***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.95	5.51	8.07	-	0.15	0.15	0.00
Bldg Const Worker Trips	0.01	0.01	0.15	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.96	5.52	8.22	0.00	0.15	0.15	0.00
Total all phases tons/yr	0.96	5.52	8.22	0.00	0.15	0.15	0.00

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 15.0%)
Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)
Phase 2: Stockpiles: Cover all stock piles with tarps
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 9.5%)
Phase 2: Unpaved Roads: Water all haul roads 2x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)
Phase 1 - Demolition Assumptions
Start Month/Year for Phase 1: Jan '06
Phase 1 Duration: 6 months
Building Volume Total (cubic feet): 680166.4
Building Volume Daily (cubic feet): 5152.9
On-Road Truck Travel (VMT): 285
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Concrete/Industrial saws	84	0.730	8.0
2	Crushing/Processing Equip	154	0.780	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Jul '06
Phase 2 Duration: 6 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Excavators	180	0.580	8.0
2	Graders	174	0.575	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0
2	Scrapers	313	0.660	8.0

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jan '07
Phase 3 Duration: 48 months
Start Month/Year for SubPhase Building: Jan '07
SubPhase Building Duration: 41 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
3	Off Highway Trucks	417	0.490	8.0
2	Rough Terrain Forklifts	94	0.475	8.0
2	Trenchers	82	0.695	8.0

SubPhase Architectural Coatings Turned OFF
Start Month/Year for SubPhase Asphalt: Jun '07
SubPhase Asphalt Duration: 6 months
Acres to be Paved: 4
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Off Highway Trucks	417	0.490	8.0
2	Pavers	132	0.590	8.0
2	Paving Equipment	111	0.530	8.0
2	Rollers	114	0.430	8.0
2	Surfacing Equipment	437	0.490	8.0

AREA SOURCE EMISSION ESTIMATES (Tons per Year, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.06	0.80	0.68	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping	0.07	0.01	0.51	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	0.26	-	-	-	-
TOTALS (tpy, unmitigated)	0.39	0.81	1.19	0.00	0.00

AREA SOURCE EMISSION ESTIMATES (Tons per Year, Mitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.06	0.80	0.68	0	0.00
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping	0.07	0.01	0.51	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	0.26	-	-	-	-
TOTALS (tpy, mitigated)	0.39	0.81	1.19	0.00	0.00

Area Source Mitigation Measures

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Light House Museum	0.11	0.13	1.18	0.00	0.12
Dry Stack Boat Storage an	4.22	4.37	36.98	0.02	4.36
Retail/Restaurant	1.18	1.40	12.41	0.01	1.27
Retail-Restaurant-Restaur	8.26	10.74	93.72	0.06	10.04
Dry Stack Boat Storage -	0.34	0.43	3.79	0.00	0.41
Dry Stack Boat Storage Of	0.06	0.09	0.74	0.00	0.09
Boat Yard Building	0.05	0.07	0.63	0.00	0.07
BSB- Yacht Brokerage	0.12	0.18	1.52	0.00	0.19
BSB - 2	0.02	0.03	0.30	0.00	0.03
TOTAL EMISSIONS (tons/yr)	14.37	17.46	151.27	0.09	16.59

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Light House Museum		54.00 trips/1000 sq. ft.	2.50	135.00
Dry Stack Boat Storage an		2.96 trips/Slips	1,030.00	3,048.80
Retail/Restaurant		44.32 trips/1000 sq. ft.	32.80	1,453.70
Retail-Restaurant-Restaur		127.15 trips/1000 sq. ft.	78.40	9,968.56
Dry Stack Boat Storage -		44.32 trips/1000 sq. ft.	9.10	403.31
Dry Stack Boat Storage Of		11.01 trips/1000 sq. ft.	5.60	61.66
Boat Yard Building		15.86 trips/1000 sq. ft.	2.50	39.65
BSB- Yacht Brokerage		11.01 trips/1000 sq. ft.	6.80	74.87
BSB - 2		11.01 trips/1000 sq. ft.	1.80	19.82
		Sum of Total Trips		15,205.36
		Total Vehicle Miles Traveled		59,936.54

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.70	1.10	98.70	0.20
Light Truck < 3,750 lbs	15.20	2.00	96.00	2.00
Light Truck 3,751- 5,750	16.20	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	68.80	31.20	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Light House Museum				5.0	2.5	92.5
Dry Stack Boat Storage and Car Trailer Parking				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Retail-Restaurant-Restaurant				2.0	1.0	97.0
Dry Stack Boat Storage - Retail STore				2.0	1.0	97.0
Dry Stack Boat Storage Office				2.0	1.0	97.0

Boat Yard Building	50.0	25.0	25.0
BSB- Yacht Brokerage	90.0	5.0	5.0
BSB - 2	41.5	20.8	37.8

MITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Light House Museum	0.08	0.10	0.86	0.00	0.09
Dry Stack Boat Storage an	3.45	3.19	27.02	0.02	3.19
Retail/Restaurant	0.88	1.02	9.07	0.01	0.93
Retail-Restaurant-Restaur	6.06	7.85	68.46	0.04	7.34
Dry Stack Boat Storage -	0.25	0.32	2.77	0.00	0.30
Dry Stack Boat Storage Of	0.05	0.06	0.54	0.00	0.06
Boat Yard Building	0.04	0.05	0.46	0.00	0.05
BSB- Yacht Brokerage	0.09	0.13	1.11	0.00	0.14
BSB - 2	0.02	0.03	0.22	0.00	0.03
TOTAL EMISSIONS (tons/yr)	10.93	12.75	110.50	0.07	12.12
PERCENTAGE REDUCTION %	24	27	27	27	27

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Light House Museum		54.00 trips/1000 sq. ft.	2.50	135.00
Dry Stack Boat Storage an		2.96 trips/Slips	1,030.00	3,048.80
Retail/Restaurant		44.32 trips/1000 sq. ft.	32.80	1,453.70
Retail-Restaurant-Restaur		127.15 trips/1000 sq. ft.	78.40	9,968.56
Dry Stack Boat Storage -		44.32 trips/1000 sq. ft.	9.10	403.31
Dry Stack Boat Storage Of		11.01 trips/1000 sq. ft.	5.60	61.66
Boat Yard Building		15.86 trips/1000 sq. ft.	2.50	39.65
BSB- Yacht Brokerage		11.01 trips/1000 sq. ft.	6.80	74.87
BSB - 2		11.01 trips/1000 sq. ft.	1.80	19.82
		Sum of Total Trips		15,205.36
		Total Vehicle Miles Traveled		59,936.54

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.70	1.10	98.70	0.20
Light Truck < 3,750 lbs	15.20	2.00	96.00	2.00
Light Truck 3,751- 5,750	16.20	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	68.80	31.20	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Light House Museum				5.0	2.5	92.5
Dry Stack Boat Storage and Car Trailer Parking				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Retail-Restaurant-Restaurant				2.0	1.0	97.0
Dry Stack Boat Storage - Retail STore				2.0	1.0	97.0

Dry Stack Boat Storage Office	2.0	1.0	97.0
Boat Yard Building	50.0	25.0	25.0
BSB- Yacht Brokerage	90.0	5.0	5.0
BSB - 2	41.5	20.8	37.8

MITIGATION OPTIONS SELECTED

Non-Residential Mitigation Measures

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 2%
Inputs Selected:
The Presence of Local-Serving Retail checkbox was selected.

Non-Residential Transit Service Mitigation

Percent Reduction in Trips is 0.04%
Inputs Selected:
The Number of Daily Weekday Buses Stopping Within 1/4 Mile of Site is 3
The Number of Daily Rail or Bus Rapid Transit Stops Within 1/2 Mile of Site is 0
The Number of Dedicated Daily Shuttle Trips is 0

Non-Residential Pedestrian/Bicycle Friendliness Mitigation

Percent Reduction in Trips is 4.08%
Inputs Selected:
The Number of Intersections per Square Mile is 15
The Percent of Streets with Sidewalks on One Side is %
The Percent of Streets with Sidewalks on Both Sides is 75%
The Percent of Arterials/Collectors with Bike Lanes or where Suitable,
Direct Parallel Routes Exist is 60%

Non-Residential Parking Pricing/Cash Out Mitigation

Percent Reduction in Trips is 20.83%
Inputs Selected:
The Daily Parking Change was set to 5 dollars

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths
Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.
Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Water all haul roads 2x daily
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
has been changed from off to on.

Changes made to the default values for Area

The hearth option switch changed from on to off.
The area souce mitigation measure option switch changed from off to on.
The landscape year changed from 2005 to 2012.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The mitigation option switch changed from off to on.
The operational emission year changed from 2005 to 2010.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.
The Res and Non-Res Local-Serving Retail Mitigation changed from off to on.
The Res and Non-Res Transit Service Mitigation changed from off to on.
The Res and Non-Res Ped/Bike Mitigation changed from off to on.
The Res and Non-Res Trans Demand Mgmt Measures Mitigation changed from off to on.

URBEMIS 2002 For Windows 8.7.0

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Project Name: Dana Point Harbor - Proposed Harborwide
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

*** 2012 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	11.87	69.37	101.00	0.01	16.05	2.04	14.01
TOTALS (lbs/day, mitigated)	11.87	69.37	101.00	0.01	4.14	2.04	2.10

*** 2013 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	19.78	111.43	174.89	0.00	4.38	3.91	0.47
TOTALS (lbs/day, mitigated)	19.78	111.43	174.89	0.00	4.38	3.91	0.47

*** 2014 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	19.78	111.43	174.89	0.00	4.38	3.91	0.47
TOTALS (lbs/day, mitigated)	19.78	111.43	174.89	0.00	4.38	3.91	0.47

*** 2015 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	4.51	21.12	44.96	0.00	1.20	0.74	0.46
TOTALS (lbs/day, mitigated)	4.51	21.12	44.96	0.00	1.20	0.74	0.46

*** 2016 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	4.51	21.12	44.96	0.00	1.20	0.74	0.46
TOTALS (lbs/day, mitigated)	4.51	21.12	44.96	0.00	1.20	0.74	0.46

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	22.74	34.18	39.31	0.00	0.08
TOTALS (lbs/day, mitigated)	22.74	34.18	39.31	0.00	0.08

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	44.29	29.73	320.21	0.86	148.58
TOTALS (lbs/day, mitigated)	42.40	27.91	300.61	0.81	139.49

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	67.03	63.92	359.51	0.86	148.66
TOTALS (lbs/day, mitigated)	65.14	62.10	339.91	0.81	139.57

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On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

*** 2012 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	11.87	69.37	101.00	0.01	16.05	2.04	14.01
TOTALS (lbs/day, mitigated)	11.87	69.37	101.00	0.01	4.14	2.04	2.10

*** 2013 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	19.78	111.43	174.89	0.00	4.38	3.91	0.47
TOTALS (lbs/day, mitigated)	19.78	111.43	174.89	0.00	4.38	3.91	0.47

*** 2014 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	19.78	111.43	174.89	0.00	4.38	3.91	0.47
TOTALS (lbs/day, mitigated)	19.78	111.43	174.89	0.00	4.38	3.91	0.47

*** 2015 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	4.51	21.12	44.96	0.00	1.20	0.74	0.46
TOTALS (lbs/day, mitigated)	4.51	21.12	44.96	0.00	1.20	0.74	0.46

*** 2016 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	4.51	21.12	44.96	0.00	1.20	0.74	0.46
TOTALS (lbs/day, mitigated)	4.51	21.12	44.96	0.00	1.20	0.74	0.46

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	21.21	34.02	28.58	0.00	0.06
TOTALS (lbs/day, mitigated)	21.21	34.02	28.58	0.00	0.06

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	37.23	43.59	377.30	0.77	148.58
TOTALS (lbs/day, mitigated)	34.95	40.93	354.21	0.73	139.49

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	58.44	77.62	405.88	0.77	148.64
TOTALS (lbs/day, mitigated)	56.16	74.95	382.79	0.73	139.55

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On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

*** 2012 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (tpy, unmitigated)	1.46	8.77	12.42	0.00	1.25	0.26	0.99
TOTALS (tpy, mitigated)	1.46	8.77	12.42	0.00	0.47	0.26	0.21

*** 2013 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (tpy, unmitigated)	1.00	4.80	9.49	0.00	0.22	0.16	0.06
TOTALS (tpy, mitigated)	1.00	4.80	9.49	0.00	0.22	0.16	0.06

*** 2014 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (tpy, unmitigated)	1.32	6.81	12.46	0.00	0.29	0.23	0.06
TOTALS (tpy, mitigated)	1.32	6.81	12.46	0.00	0.29	0.23	0.06

*** 2015 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (tpy, unmitigated)	0.58	2.78	5.73	0.00	0.15	0.09	0.06
TOTALS (tpy, mitigated)	0.58	2.78	5.73	0.00	0.15	0.09	0.06

*** 2016 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (tpy, unmitigated)	0.24	1.16	2.41	0.00	0.07	0.04	0.03
TOTALS (tpy, mitigated)	0.24	1.16	2.41	0.00	0.07	0.04	0.03

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	3.06	6.22	6.18	0.00	0.01
TOTALS (tpy, mitigated)	3.06	6.22	6.18	0.00	0.01

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	7.65	6.27	61.91	0.15	27.12
TOTALS (tpy, mitigated)	7.28	5.89	58.12	0.14	25.46

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	10.72	12.49	68.09	0.15	27.13
TOTALS (tpy, mitigated)	10.35	12.11	64.30	0.14	25.47

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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)

Construction Start Month and Year: January, 2012
Construction Duration: 60
Total Land Use Area to be Developed: 1.4 acres
Maximum Acreage Disturbed Per Day: 1.4 acres
Single Family Units: 0 Multi-Family Units: 0
Retail/Office/Institutional/Industrial Square Footage: 1337150

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2012***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	1.11	-	1.11
Off-Road Diesel	10.12	60.79	85.23	-	1.91	1.91	0.00
On-Road Diesel	0.14	2.86	0.51	0.01	0.08	0.06	0.02
Worker Trips	0.06	0.13	1.43	0.00	0.01	0.00	0.01
Maximum lbs/day	10.32	63.78	87.17	0.01	3.11	1.97	1.14
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	14.00	-	14.00
Off-Road Diesel	11.85	69.36	100.69	-	2.04	2.04	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.02	0.01	0.31	0.00	0.01	0.00	0.01
Maximum lbs/day	11.87	69.37	101.00	0.00	16.05	2.04	14.01
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	11.87	69.37	101.00	0.01	16.05	2.04	14.01
*** 2013***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	3.28	20.34	27.38	-	0.71	0.71	0.00
Bldg Const Worker Trips	2.00	1.26	26.83	0.00	0.49	0.03	0.46
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.03	-	-	-	-	-	-
Asphalt Off-Road Diesel	14.42	89.73	120.16	-	3.17	3.17	0.00
Asphalt On-Road Diesel	0.00	0.08	0.02	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.04	0.02	0.49	0.00	0.01	0.00	0.01
Maximum lbs/day	19.78	111.43	174.89	0.00	4.38	3.91	0.47
Max lbs/day all phases	19.78	111.43	174.89	0.00	4.38	3.91	0.47
*** 2014***							

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	3.28	20.34	27.38	-	0.71	0.71	0.00
Bldg Const Worker Trips	2.00	1.26	26.83	0.00	0.49	0.03	0.46
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.03	-	-	-	-	-	-
Asphalt Off-Road Diesel	14.42	89.73	120.16	-	3.17	3.17	0.00
Asphalt On-Road Diesel	0.00	0.08	0.02	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.04	0.02	0.49	0.00	0.01	0.00	0.01
Maximum lbs/day	19.78	111.43	174.89	0.00	4.38	3.91	0.47
Max lbs/day all phases	19.78	111.43	174.89	0.00	4.38	3.91	0.47

*** 2015***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	3.28	20.34	27.38	-	0.71	0.71	0.00
Bldg Const Worker Trips	1.23	0.78	17.58	0.00	0.49	0.03	0.46
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	4.51	21.12	44.96	0.00	1.20	0.74	0.46
Max lbs/day all phases	4.51	21.12	44.96	0.00	1.20	0.74	0.46

*** 2016***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	3.28	20.34	27.38	-	0.71	0.71	0.00
Bldg Const Worker Trips	1.23	0.78	17.58	0.00	0.49	0.03	0.46
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-

Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	4.51	21.12	44.96	0.00	1.20	0.74	0.46
Max lbs/day all phases	4.51	21.12	44.96	0.00	1.20	0.74	0.46

Phase 1 - Demolition Assumptions
Start Month/Year for Phase 1: Jan '12
Phase 1 Duration: 6 months
Building Volume Total (cubic feet): 3490646.4
Building Volume Daily (cubic feet): 2653.35
On-Road Truck Travel (VMT): 147
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Jul '12
Phase 2 Duration: 6 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Off Highway Trucks	417	0.490	8.0
1	Scrapers	313	0.660	8.0
1	Trenchers	82	0.695	8.0

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jan '13
Phase 3 Duration: 48 months
Start Month/Year for SubPhase Building: Jan '13
SubPhase Building Duration: 41 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Cranes	190	0.430	8.0
1	Off Highway Tractors	255	0.410	8.0

SubPhase Architectural Coatings Turned OFF
Start Month/Year for SubPhase Asphalt: Nov '13
SubPhase Asphalt Duration: 6 months
Acres to be Paved: 1.4
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Off Highway Trucks	417	0.490	8.0
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Rollers	114	0.430	8.0
2	Surfacing Equipment	437	0.490	8.0

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	2.47	34.02	28.58	0	0.06
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	18.74	-	-	-	-
TOTALS(lbs/day,unmitigated)	21.21	34.02	28.58	0.00	0.06

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Light House Museum	0.18	0.20	1.79	0.00	0.66
Car Trailer Parking	4.73	6.53	53.26	0.12	23.82
Youth Group Facilities	0.58	0.73	6.14	0.01	2.57
Yacht Clubs	0.85	0.95	8.36	0.02	3.17
Harbor Patrol Building	0.11	0.13	1.13	0.00	0.43
Beach House Restaurant	1.91	2.15	18.87	0.04	7.21
Hotel	2.83	3.39	29.10	0.06	11.71
Boat Slips	8.48	10.17	87.18	0.18	35.07
Hotel Restaurant	0.43	0.51	4.39	0.01	1.71
Retail/Restaurant	1.94	2.09	18.70	0.04	6.78
Retail/Restaurant-Restaur	13.31	14.31	128.27	0.24	46.51
Dry Stack Boat Storage -	0.54	0.58	5.19	0.01	1.88
Dry Stack Boat Storage Of	0.10	0.13	1.07	0.00	0.48
Boat Yard Building	0.08	0.11	0.87	0.00	0.40
BSB- Yacht Brokerage	0.18	0.26	2.05	0.01	1.01
BSB - ALL 12	0.77	1.08	8.66	0.02	4.07
Dry Stack Boat Storage-Re	0.20	0.28	2.28	0.01	1.08
TOTAL EMISSIONS (lbs/day)	37.23	43.59	377.30	0.77	148.58

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Light House Museum		54.00 trips/1000 sq. ft.	2.50	135.00
Car Trailer Parking		2.96 trips/Slips	1,030.00	3,048.80
Youth Group Facilities		22.88 trips/1000 sq. ft.	17.00	388.96
Yacht Clubs		22.88 trips/1000 sq. ft.	26.60	608.61
Harbor Patrol Building		11.01 trips/1000 sq. ft.	7.50	82.58
Beach House Restaurant		89.95 trips/1000 sq. ft.	15.00	1,349.25
Hotel		8.92 trips/occupied room	220.00	1,962.40
Boat Slips		2.96 trips/slips	1,986.00	5,878.56
Hotel Restaurant		127.15 trips/1000 sq. ft.	2.45	311.52
Retail/Restaurant		44.32 trips/1000 sq. ft.	32.80	1,453.70
Retail/Restaurant-Restaur		127.15 trips/1000 sq. ft.	78.40	9,968.56
Dry Stack Boat Storage -		44.32 trips/1000 sq. ft.	9.10	403.31
Dry Stack Boat Storage Of		11.01 trips/1000 sq. ft.	5.60	61.66
Boat Yard Building		15.86 trips/1000 sq. ft.	2.50	39.65
BSB- Yacht Brokerage		11.01 trips/1000 sq. ft.	6.80	74.87
BSB - ALL 12		11.01 trips/1000 sq. ft.	35.80	394.16
Dry Stack Boat Storage-Re		11.01 trips/1000 sq. ft.	9.10	100.19
		Sum of Total Trips		26,261.76
		Total Vehicle Miles Traveled		98,334.75

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	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Light House Museum				5.0	2.5	92.5
Car Trailer Parking				2.0	1.0	97.0
Youth Group Facilities				5.0	2.5	92.5
Yacht Clubs				5.0	2.5	92.5
Harbor Patrol Building				5.0	2.5	92.5
Beach House Restaurant				8.0	4.0	88.0
Hotel				5.0	2.5	92.5
Boat Slips				5.0	2.5	92.5
Hotel Restaurant				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Retail/Restaurant-Restaurant				2.0	1.0	97.0
Dry Stack Boat Storage - Retail Store				2.0	1.0	97.0
Dry Stack Boat Storage Office				2.0	1.0	97.0
Boat Yard Building				50.0	25.0	25.0
BSB- Yacht Brokerage				90.0	5.0	5.0
BSB - ALL 12				41.5	20.8	37.8
Dry Stack Boat Storage-Retail				48.0	24.0	28.0

Changes made to the default values for Land Use Trip Percentages

The Primary Trip % for Industrial park changed from 80 to 90
The Diverted Trip % for Industrial park changed from 20 to 5
The Pass-By Trip % for Industrial park changed from 0 to 5

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths
Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.
Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Water all haul roads 2x daily
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
has been changed from off to on.

Changes made to the default values for Area

The hearth option switch changed from on to off.
The area souce mitigation measure option switch changed from off to on.
The landscape year changed from 2005 to 2020.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The mitigation option switch changed from off to on.
The operational emission year changed from 2005 to 2030.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.
The Res and Non-Res Local-Serving Retail Mitigation changed from off to on.
The Res and Non-Res Transit Service Mitigation changed from off to on.
The Res and Non-Res Ped/Bike Mitigation changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-Harborwide.urb
Project Name: Dana Point Harbor - Proposed Harborwide
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: January, 2012
Construction Duration: 60
Total Land Use Area to be Developed: 1.4 acres
Maximum Acreage Disturbed Per Day: 1.4 acres
Single Family Units: 0 Multi-Family Units: 0
Retail/Office/Institutional/Industrial Square Footage: 1337150

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2012***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	1.11	-	1.11
Off-Road Diesel	10.12	60.79	85.23	-	1.91	1.91	0.00
On-Road Diesel	0.14	2.86	0.51	0.01	0.08	0.06	0.02
Worker Trips	0.06	0.13	1.43	0.00	0.01	0.00	0.01
Maximum lbs/day	10.32	63.78	87.17	0.01	3.11	1.97	1.14
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	14.00	-	14.00
Off-Road Diesel	11.85	69.36	100.69	-	2.04	2.04	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.02	0.01	0.31	0.00	0.01	0.00	0.01
Maximum lbs/day	11.87	69.37	101.00	0.00	16.05	2.04	14.01
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	11.87	69.37	101.00	0.01	16.05	2.04	14.01
*** 2013***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	3.28	20.34	27.38	-	0.71	0.71	0.00
Bldg Const Worker Trips	2.00	1.26	26.83	0.00	0.49	0.03	0.46
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.03	-	-	-	-	-	-
Asphalt Off-Road Diesel	14.42	89.73	120.16	-	3.17	3.17	0.00
Asphalt On-Road Diesel	0.00	0.08	0.02	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.04	0.02	0.49	0.00	0.01	0.00	0.01
Maximum lbs/day	19.78	111.43	174.89	0.00	4.38	3.91	0.47
Max lbs/day all phases	19.78	111.43	174.89	0.00	4.38	3.91	0.47
*** 2014***							

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	3.28	20.34	27.38	-	0.71	0.71	0.00
Bldg Const Worker Trips	2.00	1.26	26.83	0.00	0.49	0.03	0.46
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.03	-	-	-	-	-	-
Asphalt Off-Road Diesel	14.42	89.73	120.16	-	3.17	3.17	0.00
Asphalt On-Road Diesel	0.00	0.08	0.02	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.04	0.02	0.49	0.00	0.01	0.00	0.01
Maximum lbs/day	19.78	111.43	174.89	0.00	4.38	3.91	0.47
Max lbs/day all phases	19.78	111.43	174.89	0.00	4.38	3.91	0.47

*** 2015***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	3.28	20.34	27.38	-	0.71	0.71	0.00
Bldg Const Worker Trips	1.23	0.78	17.58	0.00	0.49	0.03	0.46
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	4.51	21.12	44.96	0.00	1.20	0.74	0.46
Max lbs/day all phases	4.51	21.12	44.96	0.00	1.20	0.74	0.46

*** 2016***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	3.28	20.34	27.38	-	0.71	0.71	0.00
Bldg Const Worker Trips	1.23	0.78	17.58	0.00	0.49	0.03	0.46
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-

Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	4.51	21.12	44.96	0.00	1.20	0.74	0.46
Max lbs/day all phases	4.51	21.12	44.96	0.00	1.20	0.74	0.46

Phase 1 - Demolition Assumptions
Start Month/Year for Phase 1: Jan '12
Phase 1 Duration: 6 months
Building Volume Total (cubic feet): 3490646.4
Building Volume Daily (cubic feet): 2653.35
On-Road Truck Travel (VMT): 147
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Jul '12
Phase 2 Duration: 6 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Off Highway Trucks	417	0.490	8.0
1	Scrapers	313	0.660	8.0
1	Trenchers	82	0.695	8.0

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jan '13
Phase 3 Duration: 48 months
Start Month/Year for SubPhase Building: Jan '13
SubPhase Building Duration: 41 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Cranes	190	0.430	8.0
1	Off Highway Tractors	255	0.410	8.0

SubPhase Architectural Coatings Turned OFF
Start Month/Year for SubPhase Asphalt: Nov '13
SubPhase Asphalt Duration: 6 months
Acres to be Paved: 1.4
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Off Highway Trucks	417	0.490	8.0
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Rollers	114	0.430	8.0
2	Surfacing Equipment	437	0.490	8.0

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	2.47	34.02	28.58	0	0.06
Hearth - No summer emissions					
Landscaping	1.53	0.16	10.73	0.00	0.02
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	18.74	-	-	-	-
TOTALS(lbs/day,unmitigated)	22.74	34.18	39.31	0.00	0.08

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Light House Museum	0.16	0.14	1.48	0.00	0.66
Car Trailer Parking	7.93	4.42	47.53	0.14	23.82
Youth Group Facilities	0.55	0.50	5.35	0.01	2.57
Yacht Clubs	0.80	0.65	7.00	0.02	3.17
Harbor Patrol Building	0.12	0.09	0.95	0.00	0.43
Beach House Restaurant	1.64	1.47	15.93	0.04	7.21
Hotel	3.20	2.31	24.94	0.07	11.71
Boat Slips	14.65	6.93	74.71	0.20	35.07
Hotel Restaurant	0.37	0.35	3.70	0.01	1.71
Retail/Restaurant	1.73	1.43	15.29	0.04	6.78
Retail/Restaurant-Restaur	11.30	9.81	104.85	0.27	46.51
Dry Stack Boat Storage -	0.48	0.40	4.24	0.01	1.88
Dry Stack Boat Storage Of	0.10	0.09	0.95	0.00	0.48
Boat Yard Building	0.08	0.07	0.83	0.00	0.40
BSB- Yacht Brokerage	0.18	0.17	2.03	0.01	1.01
BSB - ALL 12	0.79	0.73	8.24	0.02	4.07
Dry Stack Boat Storage-Re	0.21	0.19	2.18	0.01	1.08
TOTAL EMISSIONS (lbs/day)	44.29	29.73	320.21	0.86	148.58

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 85 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Light House Museum		54.00 trips/1000 sq. ft.	2.50	135.00
Car Trailer Parking		2.96 trips/Slips	1,030.00	3,048.80
Youth Group Facilities		22.88 trips/1000 sq. ft.	17.00	388.96
Yacht Clubs		22.88 trips/1000 sq. ft.	26.60	608.61
Harbor Patrol Building		11.01 trips/1000 sq. ft.	7.50	82.58
Beach House Restaurant		89.95 trips/1000 sq. ft.	15.00	1,349.25
Hotel		8.92 trips/occupied room	220.00	1,962.40
Boat Slips		2.96 trips/slips	1,986.00	5,878.56
Hotel Restaurant		127.15 trips/1000 sq. ft.	2.45	311.52
Retail/Restaurant		44.32 trips/1000 sq. ft.	32.80	1,453.70
Retail/Restaurant-Restaur		127.15 trips/1000 sq. ft.	78.40	9,968.56
Dry Stack Boat Storage -		44.32 trips/1000 sq. ft.	9.10	403.31
Dry Stack Boat Storage Of		11.01 trips/1000 sq. ft.	5.60	61.66
Boat Yard Building		15.86 trips/1000 sq. ft.	2.50	39.65
BSB- Yacht Brokerage		11.01 trips/1000 sq. ft.	6.80	74.87
BSB - ALL 12		11.01 trips/1000 sq. ft.	35.80	394.16
Dry Stack Boat Storage-Re		11.01 trips/1000 sq. ft.	9.10	100.19
		Sum of Total Trips		26,261.76
		Total Vehicle Miles Traveled		98,334.75

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	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Light House Museum				5.0	2.5	92.5
Car Trailer Parking				2.0	1.0	97.0
Youth Group Facilities				5.0	2.5	92.5
Yacht Clubs				5.0	2.5	92.5
Harbor Patrol Building				5.0	2.5	92.5
Beach House Restaurant				8.0	4.0	88.0
Hotel				5.0	2.5	92.5
Boat Slips				5.0	2.5	92.5
Hotel Restaurant				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Retail/Restaurant-Restaurant				2.0	1.0	97.0
Dry Stack Boat Storage - Retail Store				2.0	1.0	97.0
Dry Stack Boat Storage Office				2.0	1.0	97.0
Boat Yard Building				50.0	25.0	25.0
BSB- Yacht Brokerage				90.0	5.0	5.0
BSB - ALL 12				41.5	20.8	37.8
Dry Stack Boat Storage-Retail				48.0	24.0	28.0

Changes made to the default values for Land Use Trip Percentages

The Primary Trip % for Industrial park changed from 80 to 90
The Diverted Trip % for Industrial park changed from 20 to 5
The Pass-By Trip % for Industrial park changed from 0 to 5

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths
Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.
Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Water all haul roads 2x daily
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
has been changed from off to on.

Changes made to the default values for Area

The hearth option switch changed from on to off.
The area souce mitigation measure option switch changed from off to on.
The landscape year changed from 2005 to 2020.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The mitigation option switch changed from off to on.
The operational emission year changed from 2005 to 2030.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.
The Res and Non-Res Local-Serving Retail Mitigation changed from off to on.
The Res and Non-Res Transit Service Mitigation changed from off to on.
The Res and Non-Res Ped/Bike Mitigation changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-Harborwide.urb
Project Name: Dana Point Harbor - Proposed Harborwide
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

Construction Start Month and Year: January, 2012
Construction Duration: 60
Total Land Use Area to be Developed: 1.4 acres
Maximum Acreage Disturbed Per Day: 1.4 acres
Single Family Units: 0 Multi-Family Units: 0
Retail/Office/Institutional/Industrial Square Footage: 1337150

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (tons/year)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2012***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.07	-	0.07
Off-Road Diesel	0.67	4.01	5.63	-	0.13	0.13	0.00
On-Road Diesel	0.01	0.17	0.03	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.01	0.09	0.00	0.00	0.00	0.00
Total tons/year	0.68	4.19	5.75	0.00	0.20	0.13	0.07
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.92	-	0.92
Off-Road Diesel	0.78	4.58	6.65	-	0.13	0.13	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00
Total tons/year	0.78	4.58	6.67	0.00	1.05	0.13	0.92
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total all phases tons/yr	1.46	8.77	12.42	0.00	1.25	0.26	0.99
*** 2013***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.43	2.69	3.61	-	0.09	0.09	0.00
Bldg Const Worker Trips	0.25	0.14	3.23	0.00	0.06	0.00	0.06
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.32	1.97	2.64	-	0.07	0.07	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Total tons/year	1.00	4.80	9.49	0.00	0.22	0.16	0.06
Total all phases tons/yr	1.00	4.80	9.49	0.00	0.22	0.16	0.06
*** 2014***							

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.43	2.69	3.61	-	0.09	0.09	0.00
Bldg Const Worker Trips	0.26	0.17	3.54	0.00	0.06	0.00	0.06
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.63	3.95	5.29	-	0.14	0.14	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00
Total tons/year	1.32	6.81	12.46	0.00	0.29	0.23	0.06
Total all phases tons/yr	1.32	6.81	12.46	0.00	0.29	0.23	0.06

*** 2015***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.43	2.69	3.61	-	0.09	0.09	0.00
Bldg Const Worker Trips	0.15	0.09	2.12	0.00	0.06	0.00	0.06
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.58	2.78	5.73	0.00	0.15	0.09	0.06
Total all phases tons/yr	0.58	2.78	5.73	0.00	0.15	0.09	0.06

*** 2016***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.18	1.12	1.51	-	0.04	0.04	0.00
Bldg Const Worker Trips	0.06	0.04	0.90	0.00	0.03	0.00	0.03
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-

Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.24	1.16	2.41	0.00	0.07	0.04	0.03
Total all phases tons/yr	0.24	1.16	2.41	0.00	0.07	0.04	0.03

Phase 1 - Demolition Assumptions
Start Month/Year for Phase 1: Jan '12
Phase 1 Duration: 6 months
Building Volume Total (cubic feet): 3490646.4
Building Volume Daily (cubic feet): 2653.35
On-Road Truck Travel (VMT): 147
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Jul '12
Phase 2 Duration: 6 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Off Highway Trucks	417	0.490	8.0
1	Scrapers	313	0.660	8.0
1	Trenchers	82	0.695	8.0

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jan '13
Phase 3 Duration: 48 months
Start Month/Year for SubPhase Building: Jan '13
SubPhase Building Duration: 41 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Cranes	190	0.430	8.0
1	Off Highway Tractors	255	0.410	8.0

SubPhase Architectural Coatings Turned OFF
Start Month/Year for SubPhase Asphalt: Nov '13
SubPhase Asphalt Duration: 6 months
Acres to be Paved: 1.4
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Off Highway Trucks	417	0.490	8.0
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Rollers	114	0.430	8.0
2	Surfacing Equipment	437	0.490	8.0

AREA SOURCE EMISSION ESTIMATES (Tons per Year, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.45	6.21	5.22	0.00	0.01
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping	0.14	0.01	0.97	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	2.47	-	-	-	-
TOTALS (tpy, unmitigated)	3.06	6.22	6.18	0.00	0.01

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Light House Museum	0.03	0.03	0.29	0.00	0.12
Car Trailer Parking	1.25	0.93	9.02	0.02	4.35
Youth Group Facilities	0.10	0.10	1.02	0.00	0.47
Yacht Clubs	0.15	0.14	1.36	0.00	0.58
Harbor Patrol Building	0.02	0.02	0.18	0.00	0.08
Beach House Restaurant	0.32	0.31	3.09	0.01	1.32
Hotel	0.56	0.49	4.80	0.01	2.14
Boat Slips	2.30	1.46	14.39	0.04	6.40
Hotel Restaurant	0.07	0.07	0.72	0.00	0.31
Retail/Restaurant	0.33	0.30	3.00	0.01	1.24
Retail/Restaurant-Restaur	2.19	2.06	20.56	0.05	8.49
Dry Stack Boat Storage -	0.09	0.08	0.83	0.00	0.34
Dry Stack Boat Storage Of	0.02	0.02	0.18	0.00	0.09
Boat Yard Building	0.01	0.02	0.15	0.00	0.07
BSB- Yacht Brokerage	0.03	0.04	0.37	0.00	0.18
BSB - ALL 12	0.14	0.15	1.53	0.00	0.74
Dry Stack Boat Storage-Re	0.04	0.04	0.40	0.00	0.20
TOTAL EMISSIONS (tons/yr)	7.65	6.27	61.91	0.15	27.12

Includes 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
Light House Museum		54.00 trips/1000 sq. ft.	2.50	135.00
Car Trailer Parking		2.96 trips/Slips	1,030.00	3,048.80
Youth Group Facilities		22.88 trips/1000 sq. ft.	17.00	388.96
Yacht Clubs		22.88 trips/1000 sq. ft.	26.60	608.61
Harbor Patrol Building		11.01 trips/1000 sq. ft.	7.50	82.58
Beach House Restaurant		89.95 trips/1000 sq. ft.	15.00	1,349.25
Hotel		8.92 trips/occupied room	220.00	1,962.40
Boat Slips		2.96 trips/slips	1,986.00	5,878.56
Hotel Restaurant		127.15 trips/1000 sq. ft.	2.45	311.52
Retail/Restaurant		44.32 trips/1000 sq. ft.	32.80	1,453.70
Retail/Restaurant-Restaur		127.15 trips/1000 sq. ft.	78.40	9,968.56
Dry Stack Boat Storage -		44.32 trips/1000 sq. ft.	9.10	403.31
Dry Stack Boat Storage Of		11.01 trips/1000 sq. ft.	5.60	61.66
Boat Yard Building		15.86 trips/1000 sq. ft.	2.50	39.65
BSB- Yacht Brokerage		11.01 trips/1000 sq. ft.	6.80	74.87
BSB - ALL 12		11.01 trips/1000 sq. ft.	35.80	394.16
Dry Stack Boat Storage-Re		11.01 trips/1000 sq. ft.	9.10	100.19
		Sum of Total Trips		26,261.76
		Total Vehicle Miles Traveled		98,334.75

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	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Light House Museum				5.0	2.5	92.5
Car Trailer Parking				2.0	1.0	97.0
Youth Group Facilities				5.0	2.5	92.5
Yacht Clubs				5.0	2.5	92.5
Harbor Patrol Building				5.0	2.5	92.5
Beach House Restaurant				8.0	4.0	88.0
Hotel				5.0	2.5	92.5
Boat Slips				5.0	2.5	92.5
Hotel Restaurant				2.0	1.0	97.0
Retail/Restaurant				2.0	1.0	97.0
Retail/Restaurant-Restaurant				2.0	1.0	97.0
Dry Stack Boat Storage - Retail Store				2.0	1.0	97.0
Dry Stack Boat Storage Office				2.0	1.0	97.0
Boat Yard Building				50.0	25.0	25.0
BSB- Yacht Brokerage				90.0	5.0	5.0
BSB - ALL 12				41.5	20.8	37.8
Dry Stack Boat Storage-Retail				48.0	24.0	28.0

Changes made to the default values for Land Use Trip Percentages

The Primary Trip % for Industrial park changed from 80 to 90
The Diverted Trip % for Industrial park changed from 20 to 5
The Pass-By Trip % for Industrial park changed from 0 to 5

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths
Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.
Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Water all haul roads 2x daily
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
has been changed from off to on.

Changes made to the default values for Area

The hearth option switch changed from on to off.
The area souce mitigation measure option switch changed from off to on.
The landscape year changed from 2005 to 2020.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The mitigation option switch changed from off to on.
The operational emission year changed from 2005 to 2030.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.
The Res and Non-Res Local-Serving Retail Mitigation changed from off to on.
The Res and Non-Res Transit Service Mitigation changed from off to on.
The Res and Non-Res Ped/Bike Mitigation changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2002\DPH-Cumulative.urb
Project Name: Dana Point Harbor - Cumulative Projects
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)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	18.63	12.20	24.25	0.14	0.08

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	55.95	42.83	516.35	1.28	220.03

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	74.58	55.03	540.60	1.43	220.11

URBEMIS 2002 For Windows 8.7.0

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2002\DPH-Cumulative.urb
Project Name: Dana Point Harbor - Cumulative Projects
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)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	16.21	12.11	8.55	0.00	0.02

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	55.57	60.40	515.05	1.15	220.03

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	71.78	72.51	523.60	1.16	220.05

URBEMIS 2002 For Windows 8.7.0

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2002\DPH-Cumulative.urb
Project Name: Dana Point Harbor - Cumulative Projects
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	3.18	2.22	2.97	0.01	0.01

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	10.19	8.89	94.16	0.23	40.16

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	13.36	11.10	97.13	0.24	40.17

URBEMIS 2002 For Windows 8.7.0

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2002\DPH-Cumulative.urb
Project Name: Dana Point Harbor - Cumulative Projects
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)

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.90	12.11	8.55	0	0.02
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	15.31	-	-	-	-
Architectural Coatings	0.00	-	-	-	-
TOTALS(lbs/day,unmitigated)	16.21	12.11	8.55	0.00	0.02

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	5.55	6.66	55.82	0.14	26.51
City park	0.07	0.08	0.64	0.00	0.29
Quality resturant	32.49	35.24	300.62	0.67	127.47
Hotel	1.05	1.18	9.85	0.02	4.39
Strip mall	14.64	15.17	131.14	0.28	53.12
General office building	1.76	2.08	16.99	0.04	8.25
TOTAL EMISSIONS (lbs/day)	55.57	60.40	515.05	1.15	220.03

Includes 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	104.33	9.57 trips/dwelling unit	313.00	2,995.41
City park		1.59 trips/acres	28.00	44.52
Quality resturant		89.95 trips/1000 sq. ft.	265.152	3,850.02
Hotel		8.17 trips/rooms	90.00	735.30
Strip mall		42.94 trips/1000 sq. ft.	265.151	1,385.43
General office building		3.32 trips/1000 sq. ft.	286.13	949.94
		Sum of Total Trips		39,960.62
		Total Vehicle Miles Traveled		145,582.43

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	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
City park				5.0	2.5	92.5
Quality resturant				8.0	4.0	88.0
Hotel				5.0	2.5	92.5
Strip mall				2.0	1.0	97.0
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 Area

The hearth option switch changed from on to off.
The arch. coatings option switch changed from on to off.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2030.

URBEMIS 2002 For Windows 8.7.0

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2002\DPH-Cumulative.urb
Project Name: Dana Point Harbor - Cumulative Projects
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)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.90	12.11	8.55	0	0.02
Hearth - No summer emissions					
Landscaping	2.42	0.08	15.70	0.14	0.06
Consumer Prdcts	15.31	-	-	-	-
Architectural Coatings	0.00	-	-	-	-
TOTALS(lbs/day,unmitigated)	18.63	12.20	24.25	0.14	0.08

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	6.44	4.65	60.02	0.16	26.51
City park	0.19	0.05	0.65	0.00	0.29
Quality resturant	30.63	25.02	299.94	0.74	127.47
Hotel	1.36	0.83	9.97	0.03	4.39
Strip mall	14.47	10.82	127.46	0.31	53.12
General office building	2.87	1.45	18.31	0.05	8.25
TOTAL EMISSIONS (lbs/day)	55.95	42.83	516.35	1.28	220.03

Includes 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	104.33	9.57 trips/dwelling unit	313.00	2,995.41
City park		1.59 trips/acres	28.00	44.52
Quality resturant		89.95 trips/1000 sq. ft.	265.15	23,850.02
Hotel		8.17 trips/rooms	90.00	735.30
Strip mall		42.94 trips/1000 sq. ft.	265.15	11,385.43
General office building		3.32 trips/1000 sq. ft.	286.13	949.94
		Sum of Total Trips		39,960.62
		Total Vehicle Miles Traveled		145,582.43

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	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
City park				5.0	2.5	92.5
Quality resturant				8.0	4.0	88.0
Hotel				5.0	2.5	92.5
Strip mall				2.0	1.0	97.0
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 Area

The hearth option switch changed from on to off.
The arch. coatings option switch changed from on to off.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2030.

URBEMIS 2002 For Windows 8.7.0

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2002\DPH-Cumulative.urb
Project Name: Dana Point Harbor - Cumulative Projects
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

AREA SOURCE EMISSION ESTIMATES (Tons per Year, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.16	2.21	1.56	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping	0.22	0.01	1.41	0.01	0.01
Consumer Prdcts	2.79	-	-	-	-
Architectural Coatings	0.00	-	-	-	-
TOTALS (tpy, unmitigated)	3.18	2.22	2.97	0.01	0.01

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	1.12	0.97	10.70	0.03	4.84
City park	0.03	0.01	0.12	0.00	0.05
Quality resturant	5.70	5.19	54.78	0.13	23.26
Hotel	0.23	0.17	1.81	0.00	0.80
Strip mall	2.65	2.24	23.48	0.05	9.69
General office building	0.46	0.30	3.26	0.01	1.50
TOTAL EMISSIONS (tons/yr)	10.19	8.89	94.16	0.23	40.16

Includes 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	104.33	9.57 trips/dwelling unit	313.00	2,995.41
City park		1.59 trips/acres	28.00	44.52
Quality resturant		89.95 trips/1000 sq. ft.	265.152	3,850.02
Hotel		8.17 trips/rooms	90.00	735.30
Strip mall		42.94 trips/1000 sq. ft.	265.151	1,385.43
General office building		3.32 trips/1000 sq. ft.	286.13	949.94
		Sum of Total Trips		39,960.62
		Total Vehicle Miles Traveled		145,582.43

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	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
City park				5.0	2.5	92.5
Quality resturant				8.0	4.0	88.0
Hotel				5.0	2.5	92.5
Strip mall				2.0	1.0	97.0
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 Area

The hearth option switch changed from on to off.
The arch. coatings option switch changed from on to off.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2030.

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

JOB: 30-WD-DOB-Stone
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	3.9 PPM		
SIGTH=	20. DEGREES	TEMP=	4.4 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	770	424	732	420	AG	2026	.8	.0	15.7
B. Link B	732	420	697	416	AG	1822	1.6	.0	15.7
C. Link C	697	416	603	404	AG	1623	.8	.0	15.7
D. Link D	603	399	647	404	AG	1205	.8	.0	15.7
E. Link E	647	404	694	410	AG	957	1.6	.0	15.7
F. Link F	694	410	770	419	AG	1290	.8	.0	15.7
G. Link G	707	336	702	379	AG	613	.8	.0	15.7
H. Link H	702	379	698	411	AG	411	1.6	.0	15.7
I. Link I	698	411	686	504	AG	693	.8	.0	15.7
J. Link J	682	502	688	455	AG	777	.8	.0	15.7
K. Link K	688	455	693	415	AG	483	1.6	.0	15.7
L. Link L	693	415	703	336	AG	642	.8	.0	15.7
M. Link M	699	389	695	413	AG	202	1.6	.0	15.7
N. Link N	695	413	692	437	AG	294	1.6	.0	15.7
O. Link O	666	408	695	413	AG	248	1.6	.0	15.7
P. Link P	695	413	723	417	AG	204	1.6	.0	15.7

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	710	425	1.8
2. Recpt 2	710	404	1.8
3. Recpt 3	684	399	1.8
4. Recpt 4	684	423	1.8

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

JOB: 30-WD-DOB-Stone
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	241.	4.3	.0	.1	.0	.0	.0	.0	.0	.0
2. Recpt 2	327.	4.2	.0	.1	.0	.0	.0	.0	.0	.0
3. Recpt 3	52.	4.2	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	104.	4.3	.0	.1	.0	.0	.0	.0	.0	.0

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: CC-DOB-PCH
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	3.9 PPM		
SIGTH=	20. DEGREES	TEMP=	4.4 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	770	424	732	420	AG	1975	2.6	.0	15.7
B. Link B	732	420	697	416	AG	1685	5.5	.0	15.7
C. Link C	697	416	603	404	AG	1678	2.6	.0	15.7
D. Link D	603	399	647	404	AG	1632	2.6	.0	15.7
E. Link E	647	404	694	410	AG	1447	5.5	.0	15.7
F. Link F	694	410	770	419	AG	2007	2.6	.0	15.7
G. Link G	707	336	702	379	AG	578	2.6	.0	15.7
H. Link H	702	379	698	411	AG	499	5.5	.0	15.7
I. Link I	698	411	686	504	AG	753	2.6	.0	15.7
J. Link J	682	502	688	455	AG	518	2.6	.0	15.7
K. Link K	688	455	693	415	AG	254	5.5	.0	15.7
L. Link L	693	415	703	336	AG	502	2.6	.0	15.7
M. Link M	699	389	695	413	AG	79	5.5	.0	15.7
N. Link N	695	413	692	437	AG	264	5.5	.0	15.7
O. Link O	666	408	695	413	AG	185	5.5	.0	15.7
P. Link P	695	413	723	417	AG	290	5.5	.0	15.7

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	710	425	1.8
2. Recpt 2	710	404	1.8
3. Recpt 3	684	399	1.8
4. Recpt 4	684	423	1.8

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

JOB: CC-DOB-PCH
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	239.	5.2	.0	.4	.2	.0	.3	.0	.0	.0
2. Recpt 2	283.	5.1	.0	.0	.2	.0	.4	.2	.0	.1
3. Recpt 3	53.	5.0	.0	.3	.0	.0	.2	.2	.0	.0
4. Recpt 4	104.	5.1	.0	.4	.1	.0	.0	.3	.0	.0

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0

□□

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

JOB: 2012-CC-ED-CAP-Stone
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	3.9 PPM		
SIGTH=	20. DEGREES	TEMP=	4.4 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	*	770	424	732	420	* AG	0	2.6	.0	15.7
B. Link B	*	732	420	697	416	* AG	0	5.5	.0	15.7
C. Link C	*	697	416	603	404	* AG	1043	2.6	.0	15.7
D. Link D	*	603	399	647	404	* AG	1048	2.6	.0	15.7
E. Link E	*	647	404	694	410	* AG	889	5.5	.0	15.7
F. Link F	*	694	410	770	419	* AG	764	2.6	.0	15.7
G. Link G	*	707	336	702	379	* AG	936	2.6	.0	15.7
H. Link H	*	702	379	698	411	* AG	465	5.5	.0	15.7
I. Link I	*	698	411	686	504	* AG	445	2.6	.0	15.7
J. Link J	*	682	502	688	455	* AG	1987	2.6	.0	15.7
K. Link K	*	688	455	693	415	* AG	1916	5.5	.0	15.7
L. Link L	*	693	415	703	336	* AG	1755	2.6	.0	15.7
M. Link M	*	699	389	695	413	* AG	471	5.5	.0	15.7
N. Link N	*	695	413	692	437	* AG	71	5.5	.0	15.7
O. Link O	*	666	408	695	413	* AG	195	5.5	.0	15.7
P. Link P	*	695	413	723	417	* AG	0	5.5	.0	15.7

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. Recpt 1	*	710	425	1.8
2. Recpt 2	*	710	404	1.8
3. Recpt 3	*	684	399	1.8
4. Recpt 4	*	684	423	1.8

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

JOB: Ex-CC -DOB-PCH
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	247.	4.8	.0	.0	.2	.0	.2	.0	.0	.0
2. Recpt 2	281.	4.9	.0	.0	.2	.0	.2	.0	.0	.1
3. Recpt 3	13.	5.0	.0	.0	.1	.0	.3	.0	.0	.0
4. Recpt 4	153.	5.1	.0	.0	.2	.0	.2	.0	.0	.0

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.3	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.2	.1	.0	.0	.0
3. Recpt 3	.0	.0	.4	.1	.0	.0	.0	.0
4. Recpt 4	.0	.0	.2	.3	.0	.0	.0	.0

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Emfac3030
Title : Orange County Avg 2030 Winter Default Title
Version : Emfac2002 V2.2 Sept 23 2002
Run Date : 07/21/05 13:20:30
Scen Year: 2030 -- Model Years: 1985 to 2030
Season : Winter
Area : Orange County
****
*****
Year:2030 -- Model Years 1985 to 2030 Inclusive -- Winter
Emfac2002 Emission Factors: V2.2 Sept 23 2002

County Average Orange Count County Average

Table 1: Running Exhaust Emissions (grams/mile)

Pollutant Name: Total Organic Gases Temperature: 40F Relative Humidity: 0%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.081	0.134	0.194	0.526	2.328	5.527	0.149
35	0.014	0.023	0.036	0.161	0.426	2.278	0.033

Pollutant Name: Carbon Monoxide Temperature: 40F Relative Humidity: 0%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	1.014	1.633	2.123	4.566	20.926	28.297	1.589
35	0.599	0.948	1.164	0.956	3.964	18.435	0.827

Pollutant Name: Oxides of Nitrogen Temperature: 40F Relative Humidity: 0%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.118	0.231	0.395	1.938	12.171	1.598	0.298
35	0.067	0.127	0.226	1.129	6.631	1.468	0.170

Pollutant Name: Carbon Dioxide Temperature: 40F Relative Humidity: 0%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	943.933	1189.625	1676.660	2053.904	2441.505	266.223	1128.656
35	307.064	387.137	522.519	1715.824	1445.168	139.873	414.031

Pollutant Name: Sulfur Dioxide Temperature: 40F Relative Humidity: 0%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.009	0.011	0.016	0.020	0.024	0.003	0.011
35	0.003	0.004	0.005	0.016	0.014	0.002	0.004

Pollutant Name: PM10 Temperature: 40F Relative Humidity: 0%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.053	0.096	0.113	0.203	0.344	0.030	0.078
35	0.009	0.016	0.019	0.065	0.080	0.014	0.014

Pollutant Name: PM10 - Tire Wear Temperature: 40F Relative Humidity: 0%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.008	0.008	0.009	0.026	0.010	0.004	0.009
35	0.008	0.008	0.009	0.026	0.010	0.004	0.009

Pollutant Name: PM10 - Break Wear Temperature: 40F Relative Humidity: 0%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.013	0.013	0.013	0.013	0.013	0.013	0.013
35	0.013	0.013	0.013	0.013	0.013	0.013	0.013

Pollutant Name: Gasoline - mi/gal Temperature: 40F Relative Humidity: 0%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	9.367	7.424	5.207	3.510	3.427	25.887	8.430
35	28.763	22.792	16.878	17.741	17.348	48.811	25.929

Pollutant Name: Diesel - mi/gal Temperature: 40F Relative Humidity: 0%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	29.156	29.156	19.980	5.295	4.251	0.000	6.748
35	29.156	29.156	19.980	5.295	4.251	0.000	6.748

Title : Orange County Avg 2030 Winter Default Title
Version : Emfac2002 V2.2 Sept 23 2002
Run Date : 07/21/05 13:20:30
Scen Year: 2030 -- Model Years: 1985 to 2030
Season : Winter
Area : Orange County
****
*****

Year:2030 -- Model Years 1985 to 2030 Inclusive -- Winter
Emfac2002 Emission Factors: V2.2 Sept 23 2002

County Average Orange Count County Average

Table 2: Starting Emissions (grams/trip)

Pollutant Name: Total Organic Gases Temperature: 40F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.016	0.026	0.069	0.115	0.468	1.643	0.037
10	0.031	0.052	0.136	0.223	0.912	1.963	0.067
20	0.060	0.100	0.264	0.423	1.730	2.583	0.124
30	0.086	0.144	0.383	0.600	2.452	3.179	0.177
40	0.110	0.185	0.494	0.754	3.079	3.750	0.225
50	0.133	0.223	0.597	0.884	3.611	4.296	0.269
60	0.153	0.258	0.692	0.991	4.048	4.685	0.308
120	0.220	0.370	0.977	0.680	2.777	3.941	0.390
180	0.106	0.183	0.600	0.721	2.946	2.845	0.229
240	0.112	0.194	0.637	0.762	3.111	3.028	0.243
300	0.119	0.205	0.674	0.800	3.269	3.208	0.257
360	0.125	0.216	0.711	0.838	3.423	3.385	0.270
420	0.131	0.227	0.747	0.874	3.571	3.558	0.284
480	0.137	0.237	0.783	0.909	3.714	3.727	0.297
540	0.143	0.248	0.819	0.943	3.851	3.893	0.310
600	0.149	0.258	0.854	0.975	3.983	4.056	0.322
660	0.155	0.269	0.889	1.006	4.109	4.215	0.335
720	0.161	0.279	0.923	1.036	4.230	4.371	0.347

Pollutant Name: Carbon Monoxide Temperature: 40F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.226	0.378	1.015	2.560	8.082	4.671	0.501
10	0.446	0.746	2.004	5.016	15.836	6.894	0.978
20	0.868	1.451	3.905	9.616	30.359	11.084	1.886
30	1.266	2.115	5.704	13.800	43.569	14.933	2.735
40	1.639	2.737	7.401	17.568	55.464	18.439	3.523
50	1.988	3.318	8.995	20.920	66.046	21.604	4.252
60	2.312	3.857	10.487	23.856	75.315	24.428	4.920
120	3.472	5.634	15.017	10.642	33.599	29.234	5.918

180	1.723	2.862	6.613	10.953	34.581	12.848	3.144
240	1.857	3.082	7.152	11.275	35.596	14.164	3.365
300	1.977	3.277	7.629	11.606	36.642	15.368	3.563
360	2.081	3.449	8.045	11.948	37.722	16.458	3.739
420	2.171	3.597	8.400	12.300	38.833	17.435	3.894
480	2.246	3.721	8.693	12.663	39.978	18.299	4.026
540	2.306	3.821	8.926	13.035	41.154	19.049	4.137
600	2.352	3.897	9.097	13.418	42.363	19.687	4.226
660	2.383	3.950	9.206	13.811	43.604	20.210	4.293
720	2.399	3.979	9.255	14.215	44.878	20.621	4.339

Pollutant Name: Oxides of Nitrogen Temperature: 40F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.050	0.107	0.611	0.282	1.449	0.190	0.145
10	0.055	0.116	0.654	0.425	2.183	0.237	0.163
20	0.063	0.132	0.732	0.677	3.472	0.320	0.195
30	0.071	0.146	0.798	0.882	4.522	0.389	0.222
40	0.076	0.158	0.853	1.040	5.334	0.444	0.244
50	0.081	0.166	0.895	1.151	5.907	0.484	0.260
60	0.084	0.172	0.926	1.217	6.242	0.509	0.270
120	0.090	0.187	1.007	1.254	6.432	0.521	0.289
180	0.100	0.206	1.039	1.249	6.409	0.523	0.303
240	0.099	0.205	1.031	1.242	6.373	0.515	0.301
300	0.098	0.202	1.019	1.233	6.324	0.504	0.298
360	0.097	0.199	1.001	1.221	6.263	0.491	0.294
420	0.095	0.195	0.979	1.206	6.189	0.476	0.288
480	0.092	0.190	0.953	1.190	6.103	0.459	0.281
540	0.089	0.184	0.921	1.170	6.005	0.440	0.273
600	0.086	0.177	0.885	1.149	5.894	0.418	0.264
660	0.083	0.169	0.844	1.125	5.770	0.395	0.253
720	0.078	0.160	0.798	1.098	5.634	0.369	0.242

Pollutant Name: Carbon Dioxide Temperature: 40F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	12.197	15.286	21.147	2.790	4.717	13.302	13.637
10	13.702	17.210	24.090	5.565	9.409	15.500	15.497
20	17.210	21.682	30.821	11.069	18.713	19.816	19.759
30	21.384	26.984	38.675	16.511	27.913	24.025	24.747
40	26.223	33.117	47.654	21.891	37.009	28.127	30.460
50	31.727	40.080	57.756	27.209	46.000	32.121	36.899
60	37.897	47.873	68.983	32.466	54.887	36.007	44.062
120	88.235	111.137	157.805	55.218	93.353	53.465	101.000
180	100.164	126.203	179.491	65.236	110.289	57.696	114.826
240	112.071	141.233	201.060	74.663	126.226	61.679	128.585
300	123.958	156.228	222.511	83.498	141.163	65.413	142.278
360	135.824	171.186	243.846	91.742	155.101	68.900	155.904
420	147.668	186.109	265.062	99.395	168.039	72.137	169.464
480	159.492	200.996	286.162	106.457	179.977	75.127	182.956
540	171.294	215.847	307.144	112.927	190.916	77.868	196.383
600	183.076	230.663	328.008	118.806	200.855	80.361	209.742
660	194.836	245.442	348.755	124.094	209.794	82.606	223.035

720	206.575	260.186	369.385	128.790	217.734	84.602	236.261

Pollutant Name: Sulfur Dioxide Temperature: 40F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.001	0.001	0.000
30	0.000	0.000	0.000	0.000	0.001	0.001	0.000
40	0.000	0.000	0.001	0.001	0.001	0.001	0.000
50	0.000	0.000	0.001	0.001	0.002	0.001	0.000
60	0.000	0.001	0.001	0.001	0.002	0.001	0.001
120	0.001	0.001	0.002	0.001	0.002	0.001	0.001
180	0.001	0.001	0.002	0.001	0.002	0.001	0.001
240	0.001	0.001	0.002	0.001	0.002	0.001	0.001
300	0.001	0.002	0.002	0.001	0.002	0.001	0.001
360	0.001	0.002	0.003	0.001	0.002	0.001	0.002
420	0.001	0.002	0.003	0.001	0.002	0.001	0.002
480	0.002	0.002	0.003	0.001	0.003	0.001	0.002
540	0.002	0.002	0.003	0.001	0.003	0.001	0.002
600	0.002	0.002	0.003	0.001	0.003	0.001	0.002
660	0.002	0.002	0.004	0.001	0.003	0.001	0.002
720	0.002	0.003	0.004	0.002	0.003	0.001	0.002

Pollutant Name: PM10 Temperature: 40F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.001	0.001	0.000	0.001	0.007	0.001
10	0.001	0.002	0.002	0.001	0.002	0.006	0.001
20	0.002	0.004	0.004	0.001	0.003	0.005	0.003
30	0.003	0.005	0.006	0.002	0.004	0.004	0.004
40	0.004	0.007	0.007	0.003	0.005	0.003	0.005
50	0.004	0.008	0.009	0.003	0.006	0.003	0.006
60	0.005	0.010	0.011	0.004	0.007	0.003	0.007
120	0.008	0.016	0.017	0.005	0.010	0.006	0.011
180	0.009	0.017	0.019	0.005	0.010	0.008	0.013
240	0.010	0.019	0.021	0.005	0.010	0.011	0.014
300	0.011	0.020	0.022	0.005	0.011	0.013	0.015
360	0.012	0.022	0.024	0.005	0.011	0.014	0.016
420	0.012	0.023	0.025	0.006	0.011	0.016	0.016
480	0.013	0.024	0.026	0.006	0.012	0.017	0.017
540	0.013	0.024	0.026	0.006	0.012	0.018	0.017
600	0.013	0.025	0.027	0.006	0.012	0.019	0.018
660	0.013	0.025	0.027	0.006	0.013	0.019	0.018
720	0.013	0.025	0.027	0.007	0.013	0.019	0.018

Emfac3030
Version : Emfac2002 V2.2 Sept 23 2002
Run Date : 07/21/05 13:20:30
Scen Year: 2030 -- Model Years: 1985 to 2030
Season : Winter
Area : Orange County
****
*****
Year:2030 -- Model Years 1985 to 2030 Inclusive -- Winter
Emfac2002 Emission Factors: V2.2 Sept 23 2002

County Average Orange Count County Average

Table 4: Hot Soak Emissions (grams/trip)

Pollutant Name: Total Organic Gases Temperature: 40F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.004	0.007	0.006	0.001	0.019	0.021	0.005
10	0.008	0.014	0.012	0.003	0.035	0.040	0.010
20	0.015	0.025	0.022	0.005	0.062	0.073	0.018
30	0.020	0.034	0.031	0.007	0.083	0.102	0.025
40	0.022	0.038	0.035	0.008	0.092	0.116	0.028

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : Orange County Avg 2030 Winter Default Title
Version : Emfac2002 V2.2 Sept 23 2002
Run Date : 07/21/05 13:20:30
Scen Year: 2030 -- Model Years: 1985 to 2030
Season : Winter
Area : Orange County
****
*****
Year:2030 -- Model Years 1985 to 2030 Inclusive -- Winter
Emfac2002 Emission Factors: V2.2 Sept 23 2002

County Average Orange Count County Average

Table 5a: Partial Day Diurnal Loss Emissions (grams/hour)

Pollutant Name: Total Organic Gases Temperature: ALL Relative Humidity: ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : Orange County Avg 2030 Winter Default Title
Version : Emfac2002 V2.2 Sept 23 2002
Run Date : 07/21/05 13:20:30
Scen Year: 2030 -- Model Years: 1985 to 2030
Season : Winter
Area : Orange County
****
*****
Year:2030 -- Model Years 1985 to 2030 Inclusive -- Winter
Emfac2002 Emission Factors: V2.2 Sept 23 2002

County Average Orange Count County Average

Table 5b: Multi-Day Diurnal Loss Emissions (grams/hour)

Pollutant Name: Total Organic Gases Temperature: ALL Relative Humidity: ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : Orange County Avg 2030 Winter Default Title
Version : Emfac2002 V2.2 Sept 23 2002
Run Date : 07/21/05 13:20:30
Scen Year: 2030 -- Model Years: 1985 to 2030
Season : Winter
Area : Orange County
****
*****
Year:2030 -- Model Years 1985 to 2030 Inclusive -- Winter
Emfac2002 Emission Factors: V2.2 Sept 23 2002

County Average Orange Count County Average

Table 6a: Partial Day Resting Loss Emissions (grams/hour)

Pollutant Name: Total Organic Gases Temperature: ALL Relative Humidity: ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : Orange County Avg 2030 Winter Default Title
Version : Emfac2002 V2.2 Sept 23 2002
Run Date : 07/21/05 13:20:30
Scen Year: 2030 -- Model Years: 1985 to 2030
Season : Winter
Area : Orange County
****
*****
Year:2030 -- Model Years 1985 to 2030 Inclusive -- Winter
Emfac2002 Emission Factors: V2.2 Sept 23 2002

County Average Orange Count County Average

Table 6b: Multi-Day Resting Loss Emissions (grams/hour)

Pollutant Name: Total Organic Gases Temperature: ALL Relative Humidity: ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Title : Orange County Avg 2030 Winter Default Title
Version : Emfac2002 V2.2 Sept 23 2002
Run Date : 07/21/05 13:20:30
Scen Year: 2030 -- Model Years: 1985 to 2030
Season : Winter
Area : Orange County
****
*****
Year:2030 -- Model Years 1985 to 2030 Inclusive -- Winter
Emfac2002 Emission Factors: V2.2 Sept 23 2002

County Average Orange Count County Average

Table 7: Estimated Travel Fractions

Pollutant Name: Temperature: ALL Relative Humidity: ALL

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.578	0.287	0.085	0.044	0.003	0.003	1.000
%TRIP	0.550	0.276	0.118	0.050	0.001	0.004	1.000
%VEH	0.578	0.295	0.085	0.028	0.001	0.013	1.000

Title : Orange County Avg 2030 Winter Default Title
Version : Emfac2002 V2.2 Sept 23 2002
Run Date : 07/21/05 13:20:30
Scen Year: 2030 -- Model Years: 1985 to 2030
Season : Winter
Area : Orange County
****
*****

Year:2030 -- Model Years 1985 to 2030 Inclusive -- Winter
Emfac2002 Emission Factors: V2.2 Sept 23 2002

County Average Orange Count County Average

Table 8: Evaporative Running Loss Emissions (grams/minute)

Pollutant Name: Total Organic Gases Temperature: 40F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.008	0.262	0.375	0.187	1.071	0.004	0.123
2	0.006	0.136	0.193	0.096	0.550	0.037	0.065
3	0.007	0.096	0.135	0.066	0.378	0.056	0.047
4	0.009	0.077	0.108	0.051	0.293	0.068	0.040
5	0.010	0.066	0.092	0.042	0.243	0.075	0.035
10	0.013	0.046	0.061	0.025	0.144	0.095	0.028
15	0.014	0.041	0.053	0.020	0.115	0.105	0.026
20	0.016	0.040	0.051	0.018	0.103	0.113	0.026
25	0.017	0.041	0.051	0.017	0.098	0.119	0.027
30	0.017	0.042	0.052	0.017	0.101	0.124	0.028
35	0.018	0.044	0.054	0.017	0.104	0.129	0.029
40	0.018	0.045	0.055	0.017	0.107	0.133	0.030
45	0.019	0.046	0.056	0.017	0.110	0.137	0.030
50	0.019	0.048	0.058	0.017	0.113	0.141	0.031
55	0.020	0.049	0.059	0.017	0.115	0.144	0.032
60	0.020	0.050	0.060	0.017	0.118	0.148	0.033