

FINAL AIR QUALITY REPORT

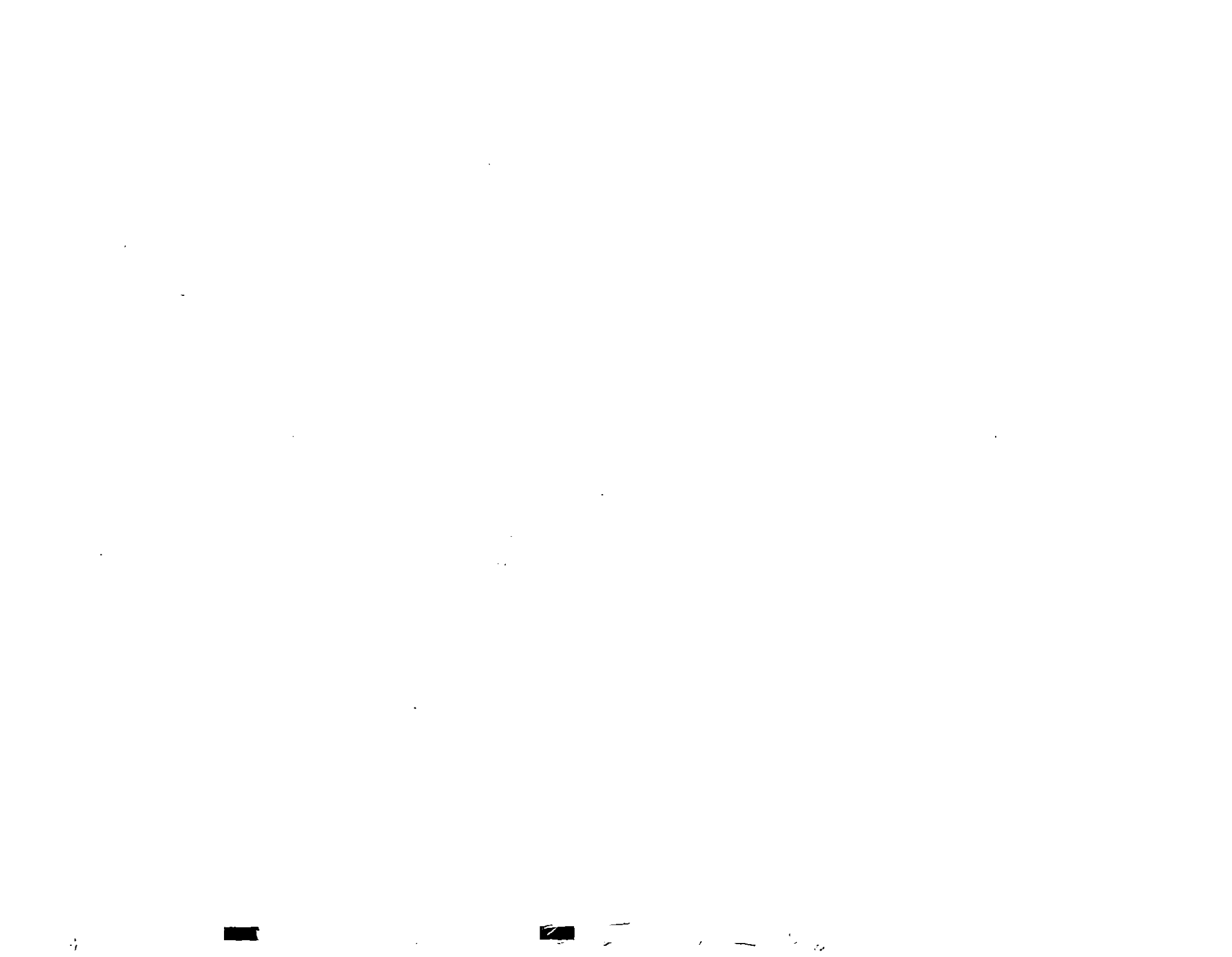
DESIGN CHANGE/ROW AUTHORIZATION REEVALUATION FOR NORTHWEST HILLSBOROUGH EXPRESSWAY FEIS (1987) - LINKS STAGE 1 FROM CYPRESS STREET TO THE SOUTHERN TERMINUS OF VETERAN'S EXPRESSWAY

**WPI Segment Numbers: 255630 1 & 255703 1
State Project Numbers: 10140-1552 & 10130-1549
Federal Aid Project Number: SU-1842 (13)
WPI Numbers: 7113871 & 7113944**

Prepared for

**The Florida Department of Transportation
District 7
11201 N. Malcolm McKinley Drive
Tampa, Florida 33612-6403**

May 1999



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URS Greiner Woodward Clyde

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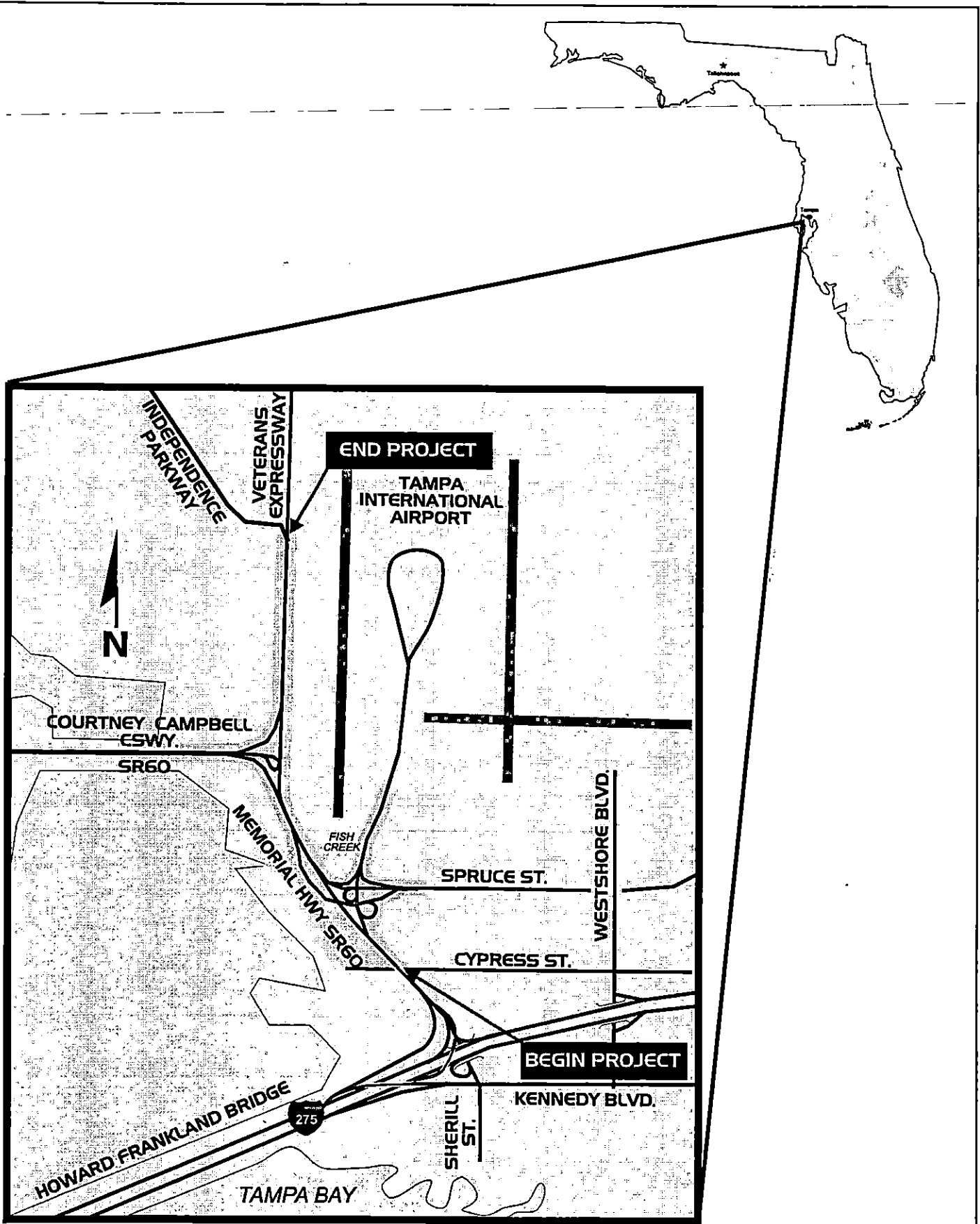
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EXECUTIVE SUMMARY

In accordance with the Florida Department of Transportation (FDOT) *Project Development and Environment (PD&E) Manual*, an air quality impact analysis was conducted to ascertain the effect of the Project, which is in Hillsborough County, on local and regional air quality conditions. For the purposes of this assessment, the dispersion of carbon monoxide (CO) was modeled and emissions of volatile organic compounds (VOCs) were calculated. Based on the results of the air quality analysis, the Project will not cause violations of the National Ambient Air Quality Standards (NAAQS) for CO. Emissions of VOCs associated with the Project are comparable to the No-Build Alternative. Therefore, this Project will not have a significant impact on air quality.



WPI Segment Nos.: 255630 1 & 255703 1
 State Project Nos.: 10140-1552 & 10130-1549
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PROJECT LOCATION MAP
 LINKS STAGE 1
 DESIGN CHANGE
 REEVALUATION Exhibit 1

manufacturing. The lead content of motor-vehicle emissions, which was the major source of lead in the past, has significantly declined with the widespread use of unleaded fuel.

- Nitrogen dioxide (NO₂), nitric oxide (NO), and the nitrate radical (NO₃) are collectively called oxides of nitrogen (NO_x). These three species are interrelated, often changing from one form to another in chemical reactions, and NO₂ is the species commonly measured with ambient air monitors. NO_x is generally emitted in the form of NO, which is oxidized to NO₂. The principal anthropogenic source of NO_x is fuel combustion in motor vehicles and power plants. Reactions of NO_x with other atmospheric chemicals can lead to formation of ozone and acidic precipitation
- Particulate matter is now separated into two different sizes for the purposes of the NAAQS: PM-10 and PM-2.5. The nomenclature refers to particulate matter with a diameter of 10 microns (µm) or less and 2.5 µm or less, respectively. PM-2.5 is considered to be in the respirable range, meaning these particles can reach the alveolar region of the lungs and penetrate deeper than PM-10. There are many sources of particulate matter, both natural and anthropogenic.
- Ground-level ozone is a secondary pollutant, formed from daytime reactions of NO_x and volatile organic compounds (VOCs) rather than being directly emitted by natural or anthropogenic sources. VOCs, which have no NAAQS, are released in industrial processes and from evaporation of gasoline and solvents.
- SO₂ is emitted in natural processes, such as volcanic activity, and by anthropogenic sources such as combustion of sulfuric fuels and sulfuric acid manufacturing. SO₂ can lead to the formation of acidic precipitation.

In accordance with the Clean Air Act Amendments (CAAA) of 1977, all areas within the State of Florida are designated with respect to the NAAQS as either *attainment*, *nonattainment*, or *unclassifiable*. An area with air quality better than the NAAQS is designated as attainment; an area with air quality worse than the NAAQS is designated as nonattainment. An area may be designated as unclassifiable when there is a lack of data to form a basis of attainment status. Nonattainment areas are further classified as extreme, severe, serious, moderate, and marginal. Furthermore, areas that have been reclassified from nonattainment to attainment since 1990 are designated *maintenance*. Notably, Hillsborough County has been designated as attainment for all criteria pollutants; ozone is classified as attainment/maintenance.

The Hillsborough County Environmental Protection Commission operates several ambient air monitoring sites, of which three have CO monitors. Table 2 provides a summary of these sites and monitoring data from 1998. Ambient air monitors allow the managing air agency to determine compliance with the NAAQS and to evaluate the effectiveness of pollution control measures.

3.0 AIR QUALITY IMPACT ANALYSIS

The purpose of the air quality analysis is to discern the impact of the proposed improvements on future air quality conditions in the project vicinity. FDOT has issued guidelines for determining which of the criteria air pollutants need to be analyzed to evaluate the air quality impact of a roadway improvement project. According to FDOT's *Project Development and Environment Manual*, CO must be considered for every project. Thus, the analysis investigates the generation and dispersion of CO. The results of the analysis are used to indicate whether motor vehicle emissions associated with the Project would contribute to violations of the NAAQS for CO. In addition, modeling HC emissions was warranted for the Project because all of the following criteria are met:

1. The document is an EIS,
2. The Project does not pass the screening test (see below),
3. The Project is located in a maintenance area designated by EPA after 1990,
4. The Project's average daily traffic volume is more than 30,000 vehicles in the design year, for the heaviest link traveled, and
5. The Project length is greater than one mile.

The air quality analysis is described below.

4.0 SCREENING TEST METHODOLOGY AND RESULTS

In accordance with FDOT guidelines, the Project was subjected to a graphical screening test that makes several conservative worst-case assumptions about the meteorology, traffic, and site conditions. The screening test uses these assumptions in the MOBILE Series Model and CALINE3

TABLE 2

1998 AIR MONITORING DATA – HILLSBOROUGH COUNTY, FLORIDA
 LINKS Stage I Design Change Reevaluation

Monitoring Station	Pollutants Monitored	Distance from Project	Direction from Project	Highest Recorded Level	Annual Arithmetic Mean	Averaging Time	Above NAAQS
220 Madison Avenue	CO	9 miles	SE	6.7 ppm	0.99 ppm	1 hour	No
				2.8 ppm	Not Reported	8 hours	No
Coast Guard Station, Davis Island	CO	6 miles	SE	3.3 ppm	0.56 ppm	1 hour	No
				2.3 ppm	Not Reported	8 hours	No
4702 Central Avenue, Seminole Adult Day School	CO	5 miles	NE	6.9 ppm	1.14 ppm	1 hour	No
				4.1 ppm	Not Reported	8 hours	No

Source: EPA AIRS Database, 1999.

model to produce a series of curves that can be used to determine the critical distance for receptors.

The critical distance is the closest a receptor can be to a given intersection or link without a significant air quality impact. The premise of this approach is that CO concentrations elsewhere along the Project corridor will be lower than these worst-case screening locations. Traffic data and aerial photography showing the concept design were reviewed to identify areas having a combination of heavy traffic volumes, low vehicular speeds, and neighboring reasonable receptor sites. Receptor sites are areas where the public has routine access and may spend one to several hours. The most heavily traveled links within the Project boundaries, SR 60 and George Bean Parkway, have traffic volumes greater than 10,000 vehicles per hour (vph) and thereby automatically fail the screening test. Accordingly, a full microscale dispersion analysis is required for CO.

5.0 MICROSCALE CARBON MONOXIDE ANALYSIS METHODOLOGY AND RESULTS

Conforming to FDOT specifications, the computer models used in the microscale analysis were the latest FHWA-approved MOBILE Series Model and CAL3QHC CO dispersion model. MOBILE5b input parameters were provided by the Florida Department of Environmental Protection (FDEP). Traffic input parameters included peak hour volumes, vehicular speeds, and roadway widths. Traffic input parameters were supplied by design plans, traffic models, and by recommendations in the *User's Guide to CAL3QHC Version 2.0*. Meteorological inputs, which are generally specified by FDOT, included wind speed, wind direction, ambient pollutant concentration, and atmospheric stability. Ambient concentrations of CO were obtained from the EPA AIRS database. In 1998, the highest annual arithmetic mean background concentration of CO in Hillsborough County was 1.1 parts per million (ppm). In addition, the highest observed 1-hour and 8-hour concentrations were 6.9 and 4.1 ppm, respectively. Additional details of model inputs can be found in Table 3, and a full compilation of input files is in the Appendix.

The modeling includes the entire length of the Project, for Years 2010 and 2025. The receptors selected for the analysis are detailed in Table 4, and their locations are mapped in Exhibit 2. Plans of both the No-Build and Build Alternatives were divided into an appropriate number of links to allow for proper modeling of the network. A link is a segment of roadway with constant traffic volume, width, elevation, traffic velocity, and vehicle emission factors. The maximum number of

TABLE 3

**SUMMARY OF MICROSCALE ANALYSIS MODELING PARAMETERS
LINKS Stage I Design Change Reevaluation**

Model	Parameter	Value
MOBILE5b	Region	Low altitude
	Operating Mode	20.6% cold start / 27.3% hot re-start
	Ambient Temperature	Calculated by the model based on season (winter for CO, summer for VOCs)
	Vehicle Mix	Default
	Analysis Year	2010 and 2025
	Inspection / Maintenance	Yes
	Anti-tampering Program	Yes
	Reformulated Gas	No
	Vehicle Velocity	27 mph
	Vehicle Types	All
CAL3QHC 2.0	Stability Class	Pasquill Class D (4)
	Wind Speed	1 meter/second
	Wind Direction - Coarse	0° - 350° at 10° intervals
	Wind Direction - refined	20° angle around wind direction causing maximum impact for receptor with maximum concentration; at 1° intervals
	Mixing Height	1000 meters
	Traffic Persistence Factor	0.75
	Meteorological Persistence Factor	0.6
	Surface Roughness	108 cm
	Settling Velocity	0.0
	Deposit Velocity	0.0

TABLE 4

**SENSITIVE RECEPTOR DESCRIPTIONS
LINKS Stage I Design Change Reevaluation**

Receptor Number	Description
1	Residence in Dana Shores
2	Residence in Dana Shores
3	Residence in Dana Shores
4	Residence in Dana Shores
5	Hotel (Hyatt)
6	Residential Building
7	Residence near LaSalle Street
8	Business
9	Business (Building at Airport)
10	Residential
11	Tennis Courts near Residential

links allowed in CAL3QHC is 120, which can be *free-flow* links or *queue* links. The No-Build Alternative required 87 links, and the Build Alternative required 115 links. The CAL3QHC input files are in the Appendix.

The computer modeling of worst-case traffic and meteorological data was conducted for the peak one-hour period. To account for the long-term variation in traffic and meteorological data over time, persistence factors were used to convert the one-hour modeled conditions to corresponding eight-hour conditions. In this way, results can be compared to the NAAQS, which are based on one-hour and eight-hour averaging times for CO. For this analysis, traffic and meteorological persistence factors of 0.75 and 0.60, respectively, were used. The eight-hour concentrations were derived from the one-hour values with the following equation:

$$[CO]_{8hr} = \{([CO]_{1hr} - [CO]_{background}) \times MPF \times TPF\} + [CO]_{background}$$

[CO]_{8hr} is the average concentration of CO over an 8-hour period.

[CO]_{1hr} is the average concentration of CO over a 1-hour period, using the calculated worst-case conditions.

[CO]_{background} is the ambient concentration of CO in the study area, obtained from the EPA AIRS Database (1.14 ppm for the annual arithmetic mean, 6.9 and 4.1 ppm for the worst-case 1-hour and 8-hour averages, respectively).

MPF is the meteorological persistence factor (0.6).

TPF is the traffic persistence factor (0.75).

The results are shown in the Tables 5 and 6, and they are graphed in Exhibits 3 and 4. The full output of the modeling is contained in the Appendix. In the figures, the data are compared to the NAAQS for CO. Notably, CO concentrations will be within standards for both the Build and No-Build conditions in the years 2010 and 2025. Therefore, this Project will not have a significant impact on air quality.

TABLE 5

**PREDICTED CARBON MONOXIDE LEVELS FOR YEAR 2010
LINKS Stage I Design Change Reevaluation**

Receptor Number	Average 1-hour Concentration ^a		Maximum 1-hour Concentration ^b		Average 8-hour Concentration ^a		Maximum 8-hour Concentration ^b	
	No-Build	Build	No-Build	Build	No-Build	Build	No-Build	Build
1	1.3	1.3	7.1	7.1	1.2	1.2	4.2	4.2
2	1.4	1.3	7.2	7.1	1.2	1.2	4.2	4.2
3	1.5	1.6	7.3	7.4	1.3	1.3	4.3	4.3
4	1.3	1.3	7.1	7.1	1.2	1.2	4.2	4.2
5	1.7	1.7	7.5	7.5	1.4	1.4	4.4	4.4
6	1.5	1.4	7.3	7.2	1.3	1.2	4.3	4.2
7	1.9	1.8	7.7	7.6	1.5	1.4	4.5	4.4
8	2.2	1.8	8.0	7.6	1.6	1.4	4.6	4.4
9	1.5	1.5	7.3	7.3	1.3	1.3	4.3	4.3
10	1.4	1.3	7.2	7.1	1.2	1.2	4.2	4.2
11	2.9	2.3	8.7	8.1	1.9	1.6	4.9	4.6

^a Includes background concentration of 1.14 parts per million (ppm) provided from local data in the EPA AIRS Database.

^b Includes 1-hour background concentration of 6.9 ppm and 8-hour background concentration of 4.1 ppm.

The NAAQS for CO are as follows: 35 ppm for 1 hour and 9 ppm for 8 hours.

TABLE 6

**PREDICTED CARBON MONOXIDE LEVELS FOR YEAR 2025
LINKS Stage I Design Change Reevaluation**

Receptor Number	Average 1-hour Concentration ^a		Maximum 1-hour Concentration ^b		Average 8-hour Concentration ^a		Maximum 8-hour Concentration ^b	
	No-Build	Build	No-Build	Build	No-Build	Build	No-Build	Build
1	1.5	1.4	7.3	7.2	1.3	1.2	4.3	4.2
2	1.5	1.4	7.3	7.2	1.3	1.2	4.3	4.2
3	1.6	2.0	7.4	7.8	1.3	1.5	4.3	4.5
4	1.3	1.4	7.1	7.2	1.2	1.2	4.2	4.2
5	2.0	1.9	7.8	7.7	1.5	1.5	4.5	4.5
6	1.6	1.6	7.4	7.4	1.3	1.3	4.3	4.3
7	2.2	2.7	8.0	8.5	1.6	1.8	4.6	4.8
8	2.3	2.2	8.1	8.0	1.6	1.6	4.6	4.6
9	1.7	1.6	7.5	7.4	1.4	1.3	4.4	4.3
10	1.5	1.5	7.3	7.3	1.3	1.3	4.3	4.3
11	3.2	2.4	9.0	8.2	2.0	1.7	5.0	4.7

^a Includes background concentration of 1.14 parts per million (ppm) provided from local data in the EPA AIRS Database.

^b Includes 1-hour background concentration of 6.9 ppm and 8-hour background concentration of 4.1 ppm.

The NAAQS for CO are as follows: 35 ppm for 1 hour and 9 ppm for 8 hours.

EXHIBIT 3

YEAR 2010 CO CONCENTRATIONS LINKS Stage I Design Change Reevaluation

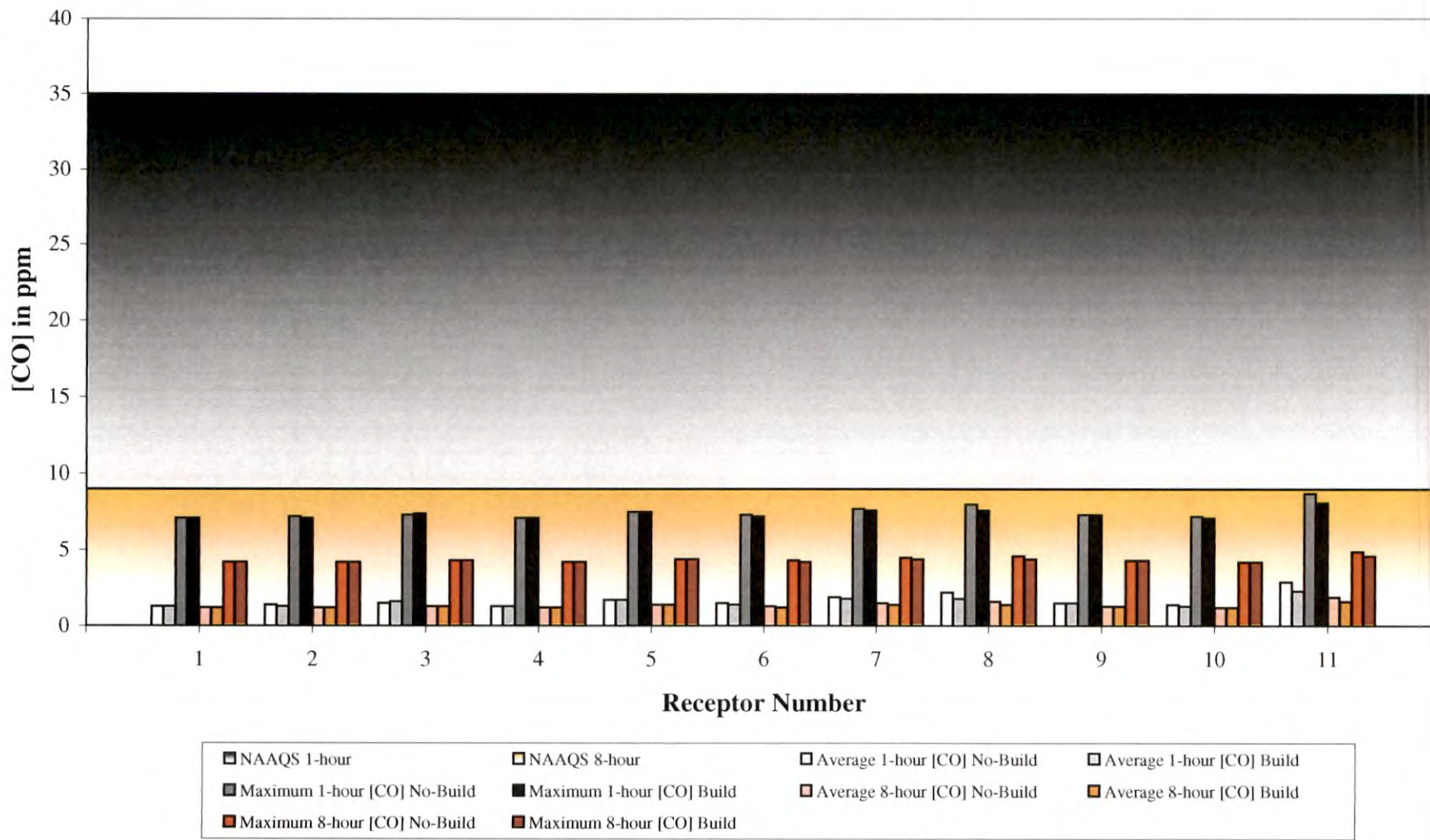
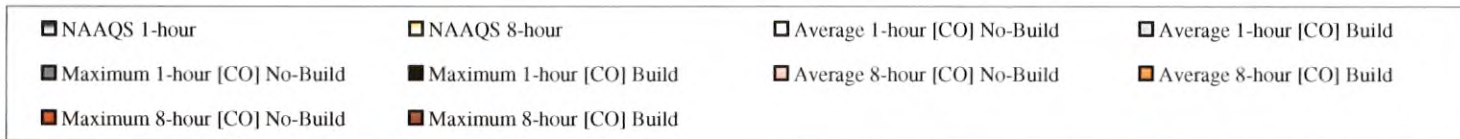
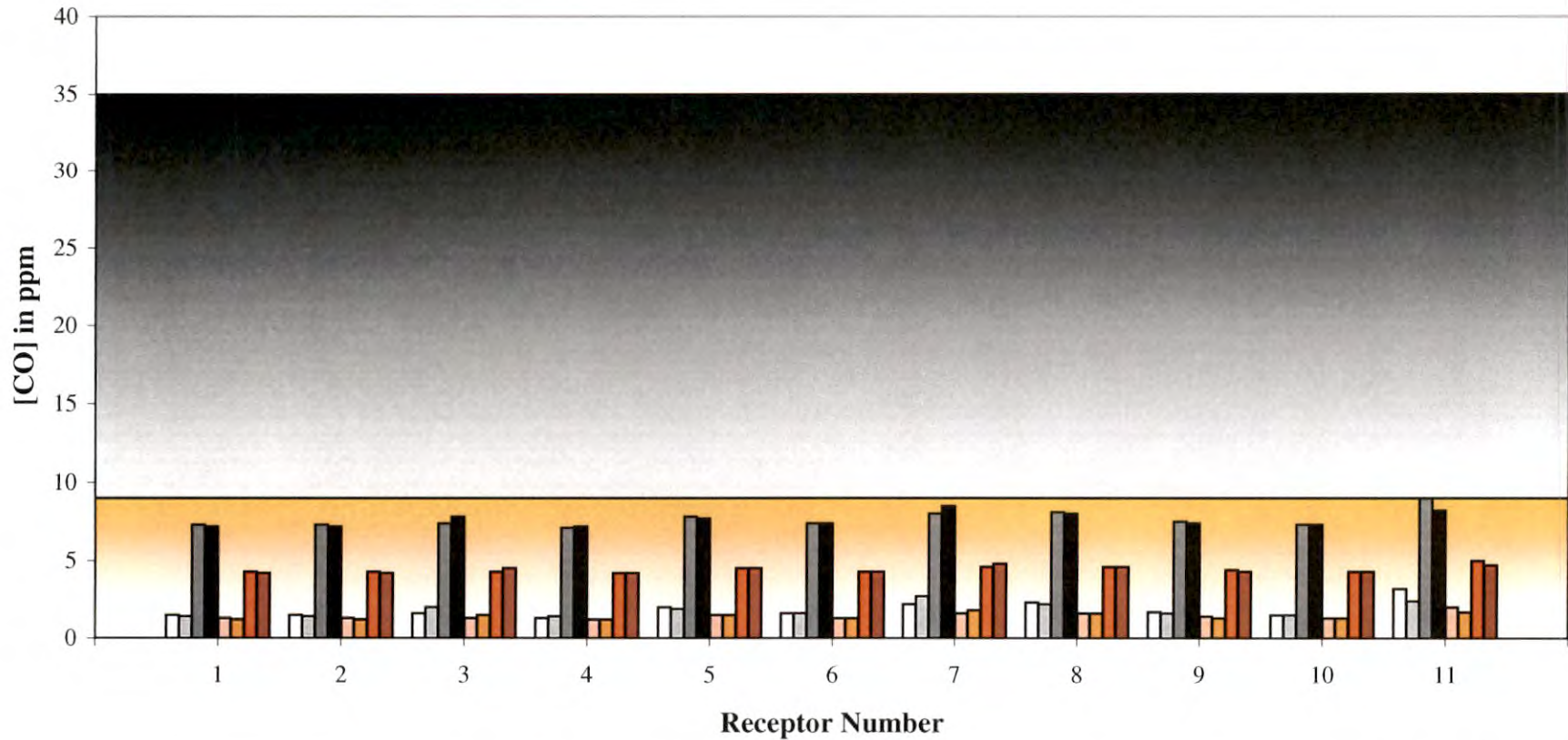


EXHIBIT 4

YEAR 2025 CO CONCENTRATIONS LINKS Stage I Design Change Reevaluation



6.0 HYDROCARBON EMISSIONS ANALYSIS METHODOLOGY AND RESULTS

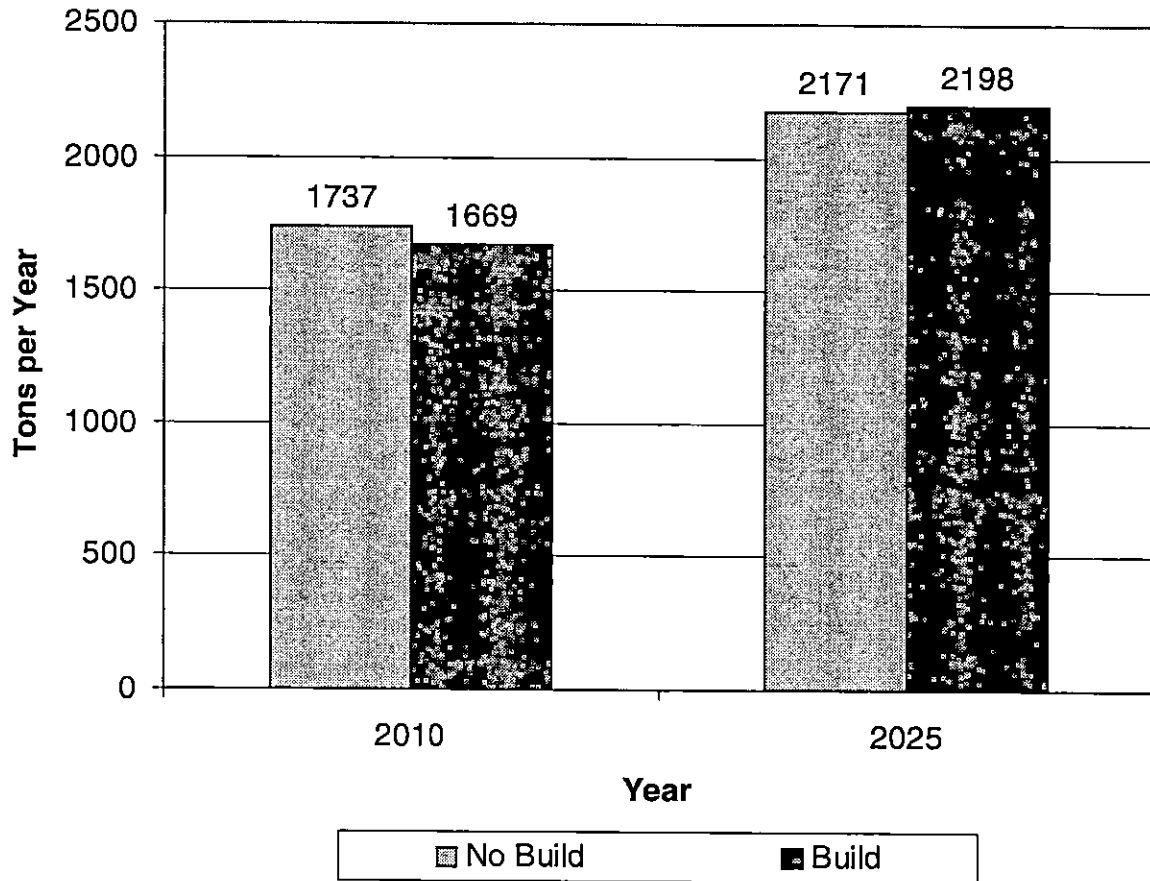
As stated, hydrocarbon (HC) emissions calculations are required for this Project because it meets the criteria set forth by FDOT. Because a hydrocarbon emissions inventory for the entire urban area is not feasible, hydrocarbon emissions were calculated for the Project alone. An emissions inventory was completed for both the No-Build and Build Alternatives in 2010 and 2025. Furthermore, because VOCs constitute the component of HC that contributes to ozone formation, the emissions inventory focuses solely on VOCs.

The MOBILE5b summer input files provided by FDEP were used to calculate VOC emission factors for 2010 and 2025, using an average speed of 27 mph for free-flow links and 2.5 mph for queue links. The roadway links that were created for the purposes of CAL3QHC CO dispersion modeling were used to determine the length of each roadway segment in kilometers and miles. These two factors, multiplied by average daily traffic for each segment, yield daily emissions of VOCs. Daily emissions in grams are then multiplied by 0.000402 to convert the daily amount to a quantity in the standard unit of tons per year.

In general, the increased capacity and better level of service of the roadway network related to the Build Alternative will reduce emissions of VOCs upon completion of the Project. However, the Build Alternative modeling consists of more roadway segments (109 miles) than the No-Build Alternative (71 miles). In summary, the emissions of VOCs for the Build and No-Build Alternatives are virtually indistinguishable. The results, which show the No-Build Alternative to have slightly higher emissions in 2010 and slightly lower emissions in 2025 than the Build Alternative, are depicted in Exhibit 5.

EXHIBIT 5

**TOTAL ANNUAL EMISSIONS
OF VOLATILE ORGANIC COMPOUNDS (VOCs)
Links Stage I Design Change Reevaluation**



7.0 CONCLUSIONS

The air quality analysis assessed the dispersion of carbon monoxide (CO) as well as the aggregate generation of volatile organic compounds (VOCs) for both the No-Build and Build Alternatives. Based on the CAL3QHC modeling results, neither Alternative will lead to a violation of the NAAQS for CO. Overall, the concentration of CO is slightly lower under the Build Alternative, when compared to the No-Build Alternative. Hydrocarbon emissions vary only slightly between the two Alternatives, with the No-Build Alternative having slightly higher emissions in 2010 and slightly lower emissions in 2025 than the Build Alternative.

This Project construction is outside the approved FDOT 5-year Work Program. The construction date is subject to change, depending on funding availability.

Construction activities will cause minor short-term air quality impacts in the form of dust from earthwork and unpaved roads and smoke from open burning. These impacts will be minimized by adherence to all State and local regulations and to the FDOT *Standard Specifications for Road and Bridge Construction*.

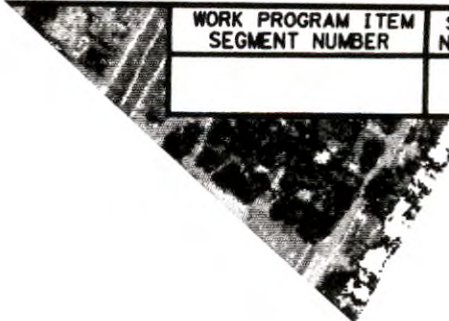
This Project is in an area where the State Implementation Plan does not contain any transportation control measures. Therefore, the conformity procedures of 23 CFR 770 do not apply to this project.

All State and local agencies were provided with an opportunity to comment on this project. There were no adverse comments regarding air quality.

The Project is in an area that has been designated as maintenance for the ozone standards under the criteria provided in the Clean Air Act Amendments (CAAA) of 1990. This project is in conformance with the State Implementation Plan because it will not cause violations of the NAAQS.

AUTHORIZATION
FOR
THROUGH EXPRESSWAY
(1987)

FILE: e:\Inks\Nov.
DATE: 28-Apr-99 07,



WORK PROGRAM ITEM SEGMENT NUMBER	SHEET NUMBER

APPENDIX

MOBILE5b INPUT FILE FOR CO - 2010

```
1      PROMPT - 05_tbwi.inp      3/22/99
MOBILE5b 2010 Winter Emissions with MVIP and new diesel NOx emission factors
1      TAMFLG - Use MOBILE5 Default Rates
1      SPDFLG - One speed applied to all vehicle types
1      VMFLAG - Use MOBILE5 VMT default mix
1      MYMRFG - Use MOBILE5 default annual mileage acc/registration
2      NEWFLG - Use new diesel exhaust emission rates
2      IMFLAG - I/M Program in use
1      ALHFLG - No additional correction factors (A/C, trailers, etc.)
2      ATPFLG - Anti-tampering program
5      RLFLAG - Zero out refueling losses
2      LOCFLG - Use a single LAP record for all scenarios
1      TEMFLG - Calculate exhaust temperatures (ambient temp not used)
4      OUTFMT - 80-column descriptive format.
4      PRPFLG - Print exhaust HC, CO and NOx results.
1      IDLFLG - No idle emission factors calculated
3      NMHFLG - Calculate emissions for volatile organic hydrocarbons (NMHC)
3      HCFLAG - Print HC components
004
1 7 3 90 90 05.639 00.000
1 7 3 91 97 04.598 00.000
1 7 3 98 03 03.679 00.000
1 7 3 04 20 01.840 00.000
91 27 75 20 .0 .0 100 1 1 2221 1 11
91 75 20 2221 11 100. 12111112
Tampa Bay      FL C 49.2 69.9 9.2 7.8 92
1 10 27.0 59.5 20.6 27.3 20.6 1
```

MOBILE5b OUTPUT FILE FOR CO - 2010

1MOBILE5b 2010 Winter Emissions with MVIP and new diesel NOx emission factors
MOBILE5b (14-Sep-96)

0

-M170 Warning:

+ Exhaust emissions for gasoline fueled vehicles beginning in 1995 have been reduced as a result of Gasoline Detergent Additive Regulations (1994).

-M153 Warning:

+ Refueling emissions in grams-per-gallon are only available using the 120 column descriptive output option (OUTFMT =3 or 5). See MOBILE5 Users Guide chapters 2.1.15, 2.1.19 and 2.1.20 for more information.

0

+

Equation	Reg	Veh	Pol	First MY	Last MY	Base	DR	Altered
1	1	7	3	1990	1990	11.65	0.00	Yes
2	1	7	3	1991	1997	9.37	0.00	Yes
3	1	7	3	1998	2003	7.49	0.00	Yes
4	1	7	3	2004	2020	3.75	0.00	Yes

OI/M program selected:

0

Start year (January 1): 1991
Pre-1981 MYR stringency rate: 27%
First model year covered: 1975
Last model year covered: 2020
Waiver rate (pre-1981): 0.%
Waiver rate (1981 and newer): 0.%
Compliance Rate: 100.%
Inspection type: Test Only
Inspection frequency: Annual
Vehicle types covered:
LDGV - Yes
LDGT1 - Yes
LDGT2 - Yes
HDGV - No
1981 & later MYR test type: Idle
Cutpoints, HC: 220.000 CO: 1.200 NOx: 999.000
Low alt, Annl and Bien Insp Freq TECH 1 & 2 I/M cred data
Annl Insp Freq & TECH 4+ I/M credit Idle test data

OFunctional Check Program Description:

Check	Start	Model Yrs	Vehicle	Classes	Covered	Inspection	Comp	Eff	
(Jan1)	Covered	LDGV	LDGT1	LDGT2	HDGV	Type	Freq	Rate	Adj
ATP	1991	1975-2020	Yes	Yes	Yes	No Test Only	Annual	100.0%	1.00

0Air pump system disablements: No Catalyst removals: Yes
Fuel inlet restrictor disablements: No Tailpipe lead deposit test: No
EGR disablement: No Evaporative system disablements: No
PCV system disablements: No Missing gas caps: Yes

OTampa Bay FL

Minimum Temp: 49. (F) Maximum Temp: 70. (F)
Period 1 RVP: 9.2 Period 2 RVP: 7.8 Period 2 Yr: 2002

OVOC HC emission factors include evaporative HC emission factors.

0

O Emission factors are as of Jan. 1st of the indicated calendar year.

O User supplied basic exhaust emissions rates.

O Cal. Year: 2010

Region: Low Altitude: 500. Ft.
I/M Program: Yes Ambient Temp: 64.6 / 64.6 / 64.6 F
Anti-tam. Program: Yes Operating Mode: 20.6 / 27.3 / 20.6
Reformulated Gas: No

O Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh

+

Veh. Spd.:	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
VMT Mix:	0.590	0.201	0.088	0.032	0.002	0.003	0.079	0.005	

O Composite Emission Factors (Gm/Mile)

VOC HC:	1.10	1.29	1.78	1.44	1.91	0.39	0.54	1.63	2.39	1.27
Exhst HC:	0.91	1.08	1.53	1.21	1.33	0.39	0.54	1.63	1.62	1.07
Evap. HC:	0.09	0.10	0.11	0.11	0.40				0.54	0.10
Refuel HC:	0.00	0.00	0.00	0.00	0.00					0.00
Runing HC:	0.09	0.09	0.12	0.10	0.15					0.09

Rsting HC:	0.01	0.02	0.01	0.02	0.02				0.23	0.01
Exhst CO:	12.24	14.82	19.87	16.36	16.37	1.01	1.12	7.98	16.03	13.19
Exhst NOX:	1.35	1.48	2.12	1.68	4.21	0.96	1.09	5.30	1.01	1.85

MOBILE5b INPUT FILE FOR CO - 2025

```
1 PROMPT - 05_tbwi.inp 3/22/99
MOBILE5b 2025 Winter Emissions with MVIP and new diesel NOx emission factors
1 TAMFLG - Use MOBILE5 Default Rates
1 SPDFLG - One speed applied to all vehicle types
1 VMFLAG - Use MOBILE5 VMT default mix
1 MYMRFG - Use MOBILE5 default annual mileage acc/registration
2 NEWFLG - Use new diesel exhaust emission rates
2 IMFLAG - I/M Program in use
1 ALHFLG - No additional correction factors (A/C, trailers, etc.)
2 ATPFLG - Anti-tampering program
5 RLFLAG - Zero out refueling losses
2 LOCFLG - Use a single LAP record for all scenarios
1 TEMFLG - Calculate exhaust temperatures (ambient temp not used)
4 OUTFMT - 80-column descriptive format.
4 PRTEFLG - Print exhaust HC, CO and NOx results.
1 IDLFLG - No idle emission factors calculated
3 NMHFLG - Calculate emissions for volatile organic hydrocarbons (NMHC)
3 HCFLAG - Print HC components
004
1 7 3 90 90 05.639 00.000
1 7 3 91 97 04.598 00.000
1 7 3 98 03 03.679 00.000
1 7 3 04 20 01.840 00.000
91 27 75 20 .0 .0 100 1 1 2221 1 11
91 75 20 2221 11 100. 12111112
Tampa Bay FL C 49.2 69.9 9.2 7.8 92
1 25 27.0 59.5 20.6 27.3 20.6 1
```

MOBILE5b OUTPUT FILE FOR CO - 2025

1MOBILE5b 2025 Winter Emissions with MVIP and new diesel NOx emission factors
MOBILE5b (14-Sep-96)

0

-M170 Warning:

+ Exhaust emissions for gasoline fueled vehicles beginning in 1995 have been reduced as a result of Gasoline Detergent Additive Regulations (1994).

-M153 Warning:

+ Refueling emissions in grams-per-gallon are only available using the 120 column descriptive output option (OUTFMT =3 or 5). See MOBILE5 Users Guide chapters 2.1.15, 2.1.19 and 2.1.20 for more information.

0

+

Equation	Reg	Veh	Pol	First MY	Last MY	Base	DR	Altered
1	1	7	3	1990	1990	11.65	0.00	Yes
2	1	7	3	1991	1997	9.37	0.00	Yes
3	1	7	3	1998	2003	7.49	0.00	Yes
4	1	7	3	2004	2020	3.75	0.00	Yes

OI/M program selected:

0

Start year (January 1): 1991
Pre-1981 MYR stringency rate: 27%
First model year covered: 1975
Last model year covered: 2020
Waiver rate (pre-1981): 0.%
Waiver rate (1981 and newer): 0.%
Compliance Rate: 100.%
Inspection type: Test Only
Inspection frequency: Annual
Vehicle types covered:
LDGV - Yes
LDGT1 - Yes
LDGT2 - Yes
HDGV - No
Idle

1981 & later MYR test type:
Cutpoints, HC: 220.000 CO: 1.200 NOx: 999.000
Low alt, Annl and Bien Insp Freq TECH 1 & 2 I/M cred data
Annl Insp Freq & TECH 4+ I/M credit Idle test data

OFunctional Check Program Description:

Check	Start	Model Yrs	Vehicle	Classes	Covered	Inspection	Comp	Eff
	(Jan1)	Covered	LDGV	LDGT1	LDGT2	HDGV	Rate	Adj
ATP	1991	1975-2020	Yes	Yes	Yes	No Test Only	100.0%	1.00
OA	Air pump system	disablements:	No	Catalyst	removals:			Yes
	Fuel inlet restrictor	disablements:	No	Tailpipe	lead deposit test:			No
	EGR disablement:	No	Evaporative	system	disablements:			No
	PCV system	disablements:	No	Missing	gas caps:			Yes

OTampa Bay FL

Minimum Temp: 49. (F) Maximum Temp: 70. (F)
Period 1 RVP: 9.2 Period 2 RVP: 7.8 Period 2 Yr: 2002

OVOC HC emission factors include evaporative HC emission factors.

0

O Emission factors are as of Jan. 1st of the indicated calendar year.

O User supplied basic exhaust emissions rates.

O Cal. Year: 2025

Region: Low Altitude: 500. Ft.
I/M Program: Yes Ambient Temp: 64.6 / 64.6 / 64.6 F
Anti-tam. Program: Yes Operating Mode: 20.6 / 27.3 / 20.6
Reformulated Gas: No

Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	27.0	27.0	27.0		27.0	27.0	27.0	27.0	27.0	
VMT Mix:	0.575	0.207	0.089		0.034	0.002	0.005	0.084	0.004	

O Composite Emission Factors (Gm/Mile)

	VOC	HC	CO	NOx	SOx	PM	Other	MC	All Veh	
VOC HC:	1.10	1.28	1.74	1.42	1.85	0.41	0.58	1.63	2.39	1.26
Exhst HC:	0.91	1.08	1.51	1.21	1.32	0.41	0.58	1.63	1.62	1.07
Evap. HC:	0.09	0.10	0.11	0.10	0.38				0.54	0.10
Refuel HC:	0.00	0.00	0.00	0.00	0.00					0.00
Runing HC:	0.09	0.09	0.12	0.10	0.14					0.08

Rsting HC:	0.01	0.01	0.01	0.01	0.01				0.23	0.01
Exhst CO:	12.32	14.83	19.69	16.29	15.54	1.03	1.16	7.97	16.03	13.17
Exhst NOX:	1.35	1.45	2.05	1.63	3.84	0.98	1.12	4.74	1.01	1.80

MOBILE5b INPUT FILE FOR CO IDLE EMISSIONS FACTOR - 2010

```
1 PROMPT - 05_tbwi.inp 3/22/99
MOBILE5b 2010 Winter Emissions with MVIP and new diesel NOx emission factors
1 TAMFLG - Use MOBILE5 Default Rates
1 SPDFLG - One speed applied to all vehicle types
1 VMFLAG - Use MOBILE5 VMT default mix
1 MYMFLG - Use MOBILE5 default annual mileage acc/registration
2 NEWFLG - Use new diesel exhaust emission rates
2 IMFLAG - I/M Program in use
1 ALHFLG - No additional correction factors (A/C, trailers, etc.)
2 ATPFLG - Anti-tampering program
5 RLFLAG - Zero out refueling losses
2 LOCFLG - Use a single LAP record for all scenarios
1 TEMFLG - Calculate exhaust temperatures (ambient temp not used)
4 OUTFMT - 80-column descriptive format.
4 PRNFLG - Print exhaust HC, CO and NOx results.
1 IDLFLG - No idle emission factors calculated
3 NMHFLG - Calculate emissions for volatile organic hydrocarbons (NMHC)
3 HCFLAG - Print HC components
004
1 7 3 90 90 05.639 00.000
1 7 3 91 97 04.598 00.000
1 7 3 98 03 03.679 00.000
1 7 3 04 20 01.840 00.000
91 27 75 20 .0 .0 100 1 1 2221 1 11
91 75 20 2221 11 100. 12111112
Tampa Bay FL C 49.2 69.9 9.2 7.8 92
1 10 02.5 59.5 20.6 27.3 20.6 1
```

MOBILE5b OUTPUT FILE FOR CO IDLE EMISSIONS FACTOR - 2010

1MOBILE5b 2010 Winter Emissions with MVIP and new diesel NOx emission factors
MOBILE5b (14-Sep-96)

0
-M170 Warning:
+ Exhaust emissions for gasoline fueled vehicles beginning in 1995 have been reduced as a result of Gasoline Detergent Additive Regulations (1994).
-M153 Warning:
+ Refueling emissions in grams-per-gallon are only available using the 120 column descriptive output option (OUTFMT =3 or 5). See MOBILE5 Users Guide chapters 2.1.15, 2.1.19 and 2.1.20 for more information.
0
+ Emission Factor Modification Profile

Equation	Reg	Veh	Pol	First MY	Last MY	Base	DR	Altered
1	1	7	3	1990	1990	11.65	0.00	Yes
2	1	7	3	1991	1997	9.37	0.00	Yes
3	1	7	3	1998	2003	7.49	0.00	Yes
4	1	7	3	2004	2020	3.75	0.00	Yes

0I/M program selected:

0 Start year (January 1): 1991
Pre-1981 MYR stringency rate: 27%
First model year covered: 1975
Last model year covered: 2020
Waiver rate (pre-1981): 0.0%
Waiver rate (1981 and newer): 0.0%
Compliance Rate: 100.0%
Inspection type: Test Only
Inspection frequency: Annual
Vehicle types covered:
LDGV - Yes
LDGT1 - Yes
LDGT2 - Yes
HDGV - No
1981 & later MYR test type: Idle
Cutpoints, HC: 220.000 CO: 1.200 NOx: 999.000
Low alt, Annl and Bien Insp Freq TECH 1 & 2 I/M cred data
Annl Insp Freq & TECH 4+ I/M credit Idle test data

0Functional Check Program Description:

Check	Start	Model Yrs	Vehicle Classes	Covered	Inspection	Comp	Eff		
(Jan1)	Covered	LDGV	LDGT1	LDGT2	HDGV	Type	Freq	Rate	Adj
ATP	1991	1975-2020	Yes	Yes	Yes	No Test Only	Annual	100.0%	1.00
Air pump system disablements:					No	Catalyst removals:	Yes		
Fuel inlet restrictor disablements:					No	Tailpipe lead deposit test:	No		
EGR disablement:					No	Evaporative system disablements:	No		
PCV system disablements:					No	Missing gas caps:	Yes		

0Tampa Bay FL

Minimum Temp: 49. (F) Maximum Temp: 70. (F)
Period 1 RVP: 9.2 Period 2 RVP: 7.8 Period 2 Yr: 2002

0VOC HC emission factors include evaporative HC emission factors.

0Emission factors are as of Jan. 1st of the indicated calendar year.
0User supplied basic exhaust emissions rates.

0Cal. Year: 2010 Region: Low Altitude: 500. Ft.
I/M Program: Yes Ambient Temp: 64.6 / 64.6 / 64.6 F
Anti-tam. Program: Yes Operating Mode: 20.6 / 27.3 / 20.6
Reformulated Gas: No

Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	2.5	2.5	2.5		2.5	2.5	2.5	2.5	2.5	
VMT Mix:	0.590	0.201	0.088		0.032	0.002	0.003	0.079	0.005	

0Composite Emission Factors (Gm/Mile)

	HC:	8.13	9.63	13.41	10.78	12.55	1.09	1.50	4.55	11.02	8.73
VOC	HC:	5.54	6.78	9.64	7.65	7.84	1.09	1.50	4.55	10.25	6.15
Evap.	HC:	0.09	0.10	0.11	0.11	0.40				0.54	0.10
Refuel	HC:	0.00	0.00	0.00	0.00	0.00					0.00
Runing	HC:	2.49	2.73	3.64	3.00	4.29					2.47

Rsting HC:	0.01	0.02	0.01	0.02	0.02					.023	0.01
Exhst CO:	78.73	87.33	118.10	96.71	81.57	4.53	5.03	35.72	161.77	80.67	
Exhst NOX:	1.96	2.22	3.18	2.51	3.36	1.86	2.11	10.28	0.97	2.82	

IDLE EMISSIONS FACTOR = 80.67 g/mi * 2.6 mi/hr = 202 g/hr for Year 2010.

MOBILE5b INPUT FILE FOR CO IDLE EMISSIONS FACTOR - 2025

```
1          PROMPT - 05_tzwi.inp      3/22/99
MOBILE5b 2025 Winter Emissions with MVIP and new diesel NOx emission factors
1          TAMFLG - Use MOBILE5 Default Rates
1          SPDFLG - One speed applied to all vehicle types
1          VMFLAG - Use MOBILE5 VMT default mix
1          MYMRFG - Use MOBILE5 default annual mileage acc/registration
2          NEWFLG - Use new diesel exhaust emission rates
2          IMFLAG - I/M Program in use
1          ALHFLG - No additional correction factors (A/C, trailers, etc.)
2          ATPFLG - Anti-tampering program
5          RLFLAG - Zero out refueling losses
2          LOCFLG - Use a single LAP record for all scenarios
1          TEMFLG - Calculate exhaust temperatures (ambient temp not used)
4          OUTFMT - 80-column descriptive format.
4          PRTFLG - Print exhaust HC, CO and NOx results.
1          IDLFLG - No idle emission factors calculated
3          NMHFLG - Calculate emissions for volatile organic hydrocarbons (NMHC)
3          HCFLAG - Print HC components
004
1 7 3 90 90 05.639 00.000
1 7 3 91 97 04.598 00.000
1 7 3 98 03 03.679 00.000
1 7 3 04 20 01.840 00.000
91 27 75 20 .0 .0 100 1 1 2221 1 11
91 75 20 2221 11 100. 12111112
Tampa Bay      FL C 49.2 69.9 9.2 7.8 92
1 25 02.5 59.5 20.6 27.3 20.6 1
```

MOBILE5b OUTPUT FILE FOR CO IDLE EMISSIONS FACTOR - 2025

1MOBILE5b 2025 Winter Emissions with MVIP and new diesel NOx emission factors
MOBILE5b (14-Sep-96)

0
-M170 Warning:
+ Exhaust emissions for gasoline fueled vehicles beginning in 1995 have been reduced as a result of Gasoline Detergent Additive Regulations (1994).

-M153 Warning:
+ Refueling emissions in grams-per-gallon are only available using the 120 column descriptive output option (OUTFMT =3 or 5). See MOBILE5 Users Guide chapters 2.1.15, 2.1.19 and 2.1.20 for more information.
0 Emission Factor Modification Profile

Equation	Reg	Veh	Pol	First MY	Last MY	Base	DR	Altered
1	1	7	3	1990	1990	11.65	0.00	Yes
2	1	7	3	1991	1997	9.37	0.00	Yes
3	1	7	3	1998	2003	7.49	0.00	Yes
4	1	7	3	2004	2020	3.75	0.00	Yes

0I/M program selected:

0 Start year (January 1): 1991
Pre-1981 MYR stringency rate: 27%
First model year covered: 1975
Last model year covered: 2020
Waiver rate (pre-1981): 0.0%
Waiver rate (1981 and newer): 0.0%
Compliance Rate: 100.0%
Inspection type: Test Only
Inspection frequency: Annual
Vehicle types covered:
LDGV - Yes
LDGT1 - Yes
LDGT2 - Yes
HDGV - No
1981 & later MYR test type: Idle
Cutpoints, HC: 220.000 CO: 1.200 NOx: 999.000

Low alt, Annl and Bien Insp Freq TECH 1 & 2 I/M cred data
Annl Insp Freq & TECH 4+ I/M credit Idle test data

0Functional Check Program Description:

Check	Start	Model Yrs	Vehicle Classes	Covered	Inspection	Comp	Eff			
(Jan1)	Covered	LDGV	LDGT1	LDGT2	HDGV	Type	Freq	Rate	Adj	
ATP	1991	1975-2020	Yes	Yes	Yes	No	Test Only	Annual	100.0%	1.00

Air pump system disablements: No Catalyst removals: Yes
Fuel inlet restrictor disablements: No Tailpipe lead deposit test: No
EGR disablement: No Evaporative system disablements: No
PCV system disablements: No Missing gas caps: Yes

0Tampa Bay FL

Minimum Temp: 49. (F) Maximum Temp: 70. (F)
Period 1 RVP: 9.2 Period 2 RVP: 7.8 Period 2 Yr: 2002

0VOC HC emission factors include evaporative HC emission factors.

0 Emission factors are as of Jan. 1st of the indicated calendar year.
0 User supplied basic exhaust emissions rates.

0Cal. Year: 2025 Region: Low Altitude: 500. Ft.
I/M Program: Yes Ambient Temp: 64.6 / 64.6 / 64.6 F
Anti-tam. Program: Yes Operating Mode: 20.6 / 27.3 / 20.6
Reformulated Gas: No

Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	2.5	2.5	2.5		2.5	2.5	2.5	2.5	2.5	
VMT Mix:	0.575	0.207	0.089		0.034	0.002	0.005	0.084	0.004	

0Composite Emission Factors (Gm/Mile)

	VOC	HC	CO	NOx	PM10	PM2.5	SO2	NO	HC	CO
VOC	8.06	9.51	13.08	10.58	12.33	1.14	1.62	4.55	11.02	8.62
Exhst	5.53	6.76	9.44	7.56	7.82	1.14	1.62	4.55	10.25	6.12
Evap.	0.09	0.10	0.11	0.10	0.38				0.54	0.10
Refuel	0.00	0.00	0.00	0.00	0.00					0.00
Runing	2.44	2.64	3.52	2.90	4.13					2.40

Rsting HC:	0.01	0.01	0.01	0.01	0.01				0.23	0.01
Exhst CO:	79.12	86.08	114.30	94.55	77.44	4.61	5.21	35.66	161.77	79.80
Exhst NOX:	1.96	2.18	3.08	2.45	3.06	1.90	2.18	9.21	0.97	2.75

IDLE EMISSIONS FACTOR = 79.80 g/mi * 2.6 mi/hr = 200 g/hr for Year 2025.

MOBILE5b INPUT FILE FOR VOCs - 2010

```
1          PROMPT - 05_tbwi.inp          3/22/99
MOBILE5b 2010 Summer Emissions with MVIP and new diesel NOx emission factors
1          TAMFLG - Use MOBILE5 Default Rates
1          SPDFLG - One speed applied to all vehicle types
1          VMFLAG - Use MOBILE5 VMT default mix
1          MYMRFG - Use MOBILE5 default annual mileage acc/registration
2          NEWFLG - Use new diesel exhaust emission rates
2          IMFLAG - I/M Program in use
1          ALHFLG - No additional correction factors (A/C, trailers, etc.)
2          ATPFLG - Anti-tampering program
5          RLFLAG - Zero out refueling losses
2          LOCFLG - Use a single LAP record for all scenarios
1          TEMFLG - Calculate exhaust temperatures (ambient temp not used)
4          OUTFMT - 80-column descriptive format.
4          PRTEFLG - Print exhaust HC, CO and NOx results.
1          IDLFLG - No idle emission factors calculated
3          NMHFLG - Calculate emissions for volatile organic hydrocarbons (NMHC)
1          HCFLAG - Do not print HC components
004
1 7 3 90 90 05.639 00.000
1 7 3 91 97 04.598 00.000
1 7 3 98 03 03.679 00.000
1 7 3 04 20 01.840 00.000
91 27 75 20 .0 .0 100 1 1 2221 1 11
91 75 20 2221 11 100. 12111112
Tampa Bay      FL C 69.8 91.3 9.2 7.8 92
1 10 27.0 84.1 20.6 27.3 20.6 7
```

MOBILE5b OUTPUT FILE FOR VOCs - 2010

1MOBILE5b 2010 Summer Emissions with MVIP and new diesel NOx emission factors
MOBILE5b (14-Sep-96)

0
-M170 Warning:

+ Exhaust emissions for gasoline fueled vehicles beginning in 1995 have been reduced as a result of Gasoline Detergent Additive Regulations (1994).
0 Emission Factor Modification Profile

Equation	Reg	Veh	Pol	First MY	Last MY	Base	DR	Altered
1	1	7	3	1990	1990	11.65	0.00	Yes
2	1	7	3	1991	1997	9.37	0.00	Yes
3	1	7	3	1998	2003	7.49	0.00	Yes
4	1	7	3	2004	2020	3.75	0.00	Yes

0I/M program selected:

0 Start year (January 1): 1991
Pre-1981 MYR stringency rate: 27%
First model year covered: 1975
Last model year covered: 2020
Waiver rate (pre-1981): 0.%
Waiver rate (1981 and newer): 0.%
Compliance Rate: 100.%
Inspection type: Test Only
Inspection frequency: Annual
Vehicle types covered: LDGV - Yes
LDGT1 - Yes
LDGT2 - Yes
HDGV - No
1981 & later MYR test type: Idle
Cutpoints, HC: 220.000 CO: 1.200 NOx: 999.000
Low alt, Annl and Bien Insp Freq TECH 1 & 2 I/M cred data
Annl Insp Freq & TECH 4+ I/M credit Idle test data

0Functional Check Program Description:

Check	Start Model Yrs	Vehicle Classes Covered	Inspection Type	Comp Rate	Eff Adj
ATP	1991	1975-2020	Yes Yes Yes No Test Only	Annual	100.0% 1.00
0Air pump system disablements:	No	Catalyst removals:	Yes		
Fuel inlet restrictor disablements:	No	Tailpipe lead deposit test:	No		
EGR disablement:	No	Evaporative system disablements:	No		
PCV system disablements:	No	Missing gas caps:	Yes		

0Tampa Bay FL

Minimum Temp: 70. (F) Maximum Temp: 91. (F)
Period 1 RVP: 9.2 Period 2 RVP: 7.8 Period 2 Yr: 2002

0VOC HC emission factors include evaporative HC emission factors.

0 Emission factors are as of July 1st of the indicated calendar year.
0 User supplied basic exhaust emissions rates.

0Cal. Year: 2010 Region: Low Altitude: 500. Ft.
I/M Program: Yes Ambient Temp: 86.4 / 86.4 / 86.4 F
Anti-tam. Program: Yes Operating Mode: 20.6 / 27.3 / 20.6
Reformulated Gas: No

Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	27.0	27.0	27.0		27.0	27.0	27.0	27.0	27.0	
VMT Mix:	0.589	0.201	0.088		0.032	0.002	0.003	0.080	0.005	

0Composite Emission Factors (Gm/Mile)

	HC:	1.14	1.29	1.75	1.43	2.47	0.39	0.54	1.63	4.54	1.32
Exhst CO:	10.57	12.37	16.80	13.72	14.98	1.01	1.13	7.98	17.29	11.40	
Exhst NOX:	1.27	1.37	1.96	1.55	4.36	0.96	1.09	5.17	0.88	1.76	

MOBILE5b INPUT FILE FOR VOCs - 2025

```
1          PROMPT - 05_tbwi.inp      3/22/99
MOBILE5b 2025 Summer Emissions with MVIP and new diesel NOx emission factors
1          TAMFLG - Use MOBILE5 Default Rates
1          SPDFLG - One speed applied to all vehicle types
1          VMFLAG - Use MOBILE5 VMT default mix
1          MYMFRG - Use MOBILE5 default annual mileage acc/registration
2          NEWFLG - Use new diesel exhaust emission rates
2          IMFLAG - I/M Program in use
1          ALHFLG - No additional correction factors (A/C, trailers, etc.)
2          ATPFLG - Anti-tampering program
5          RLFLAG - Zero out refueling losses
2          LOCFLG - Use a single LAP record for all scenarios
1          TEMFLG - Calculate exhaust temperatures (ambient temp not used)
4          OUTFMT - 80-column descriptive format.
4          PRNFLG - Print exhaust HC, CO and NOx results.
1          IDLFLG - No idle emission factors calculated
3          NMHFLG - Calculate emissions for volatile organic hydrocarbons (NMHC)
1          HCFLAG - Do not print HC components
004
1 7 3 90 90 05.639 00.000
1 7 3 91 97 04.598 00.000
1 7 3 98 03 03.679 00.000
1 7 3 04 20 01.840 00.000
91 27 75 20 .0 .0 100 1 1 2221 1 11
91 75 20 2221 11 100. 12111112
Tampa Bay      FL C 69.8 91.3 9.2 7.8 92
1 25 27.0 84.1 20.6 27.3 20.6 7
```

MOBILE5b OUTPUT FILE FOR VOC - 2025

1MOBILE5b 2025 Summer Emissions with MVIP and new diesel NOx emission factors
MOBILE5b (14-Sep-96)

0
-M170 Warning:

+ Exhaust emissions for gasoline fueled vehicles beginning in 1995 have been reduced as a result of Gasoline Detergent Additive Regulations (1994).
0 Emission Factor Modification Profile
+

Equation	Reg	Veh	Pol	First MY	Last MY	Base	DR	Altered
1	1	7	3	1990	1990	11.65	0.00	Yes
2	1	7	3	1991	1997	9.37	0.00	Yes
3	1	7	3	1998	2003	7.49	0.00	Yes
4	1	7	3	2004	2020	3.75	0.00	Yes

0I/M program selected:

0 Start year (January 1): 1991
Pre-1981 MYR stringency rate: 27%
First model year covered: 1975
Last model year covered: 2020
Waiver rate (pre-1981): 0.%
Waiver rate (1981 and newer): 0.%
Compliance Rate: 100.%
Inspection type: Test Only
Inspection frequency: Annual
Vehicle types covered: LDGV - Yes
LDGT1 - Yes
LDGT2 - Yes
HDGV - No
Idle
1981 & later MYR test type: Idle
Cutpoints, HC: 220.000 CO: 1.200 NOx: 999.000
Low alt, Annl and Bien Insp Freq TECH 1 & 2 I/M cred data
Annl Insp Freq & TECH 4+ I/M credit Idle test data

0Functional Check Program Description:

Check	Start Model	Yrs Covered	Vehicle Classes	Inspection	Comp Rate	Eff Adj
ATP	1991	1975-2020	Yes Yes Yes	No Test Only	100.0%	1.00

0Air pump system disablements: No Catalyst removals: Yes
Fuel inlet restrictor disablements: No Tailpipe lead deposit test: No
EGR disablement: No Evaporative system disablements: No
PCV system disablements: No Missing gas caps: Yes

0Tampa Bay FL

Minimum Temp: 70. (F) Maximum Temp: 91. (F)
Period 1 RVP: 9.2 Period 2 RVP: 7.8 Period 2 Yr: 2002

0VOC HC emission factors include evaporative HC emission factors.

0Emission factors are as of July 1st of the indicated calendar year.
0User supplied basic exhaust emissions rates.

0Cal. Year: 2025 Region: Low Altitude: 500. Ft.
I/M Program: Yes Ambient Temp: 86.4 / 86.4 / 86.4 F
Anti-tam. Program: Yes Operating Mode: 20.6 / 27.3 / 20.6
Reformulated Gas: No

Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	27.0	27.0	27.0		27.0	27.0	27.0	27.0	27.0	
VMT Mix:	0.575	0.207	0.089		0.034	0.002	0.006	0.084	0.004	

0Composite Emission Factors (Gm/Mile)

	VOC	HC	CO	NOx	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Exhst	1.12	1.27	1.70	1.40	2.28	0.41	0.58	1.63	4.54	1.29				
Exhst	10.74	12.50	16.80	13.79	14.60	1.03	1.16	7.97	17.29	11.50				
Exhst	1.26	1.35	1.91	1.52	4.00	0.98	1.13	4.89	0.88	1.73				

MOBILE5b INPUT FILE FOR VOCs IDLE EMISSIONS FACTOR - 2010

```
1 PROMPT - 05_tbwi.inp 3/22/99
MOBILE5b 2010 Summer Emissions with MVIP and new diesel NOx emission factors
1 TAMFLG - Use MOBILE5 Default Rates
1 SPDFLG - One speed applied to all vehicle types
1 VMFLAG - Use MOBILE5 VMT default mix
1 MYMRFG - Use MOBILE5 default annual mileage acc/registration
2 NEWFLG - Use new diesel exhaust emission rates
2 IMFLAG - I/M Program in use
1 ALHFLG - No additional correction factors (A/C, trailers, etc.)
2 ATPFLG - Anti-tampering program
5 RLFLAG - Zero out refueling losses
2 LOCFLAG - Use a single LAP record for all scenarios
1 TEMFLAG - Calculate exhaust temperatures (ambient temp not used)
4 OUTFMT - 80-column descriptive format.
4 PRFFLAG - Print exhaust HC, CO and NOx results.
1 IDLFLAG - No idle emission factors calculated
3 NMHFLAG - Calculate emissions for volatile organic hydrocarbons (NMHC)
1 HCFLAG - Do not print HC components
004
1 7 3 90 90 05.639 00.000
1 7 3 91 97 04.598 00.000
1 7 3 98 03 03.679 00.000
1 7 3 04 20 01.840 00.000
91 27 75 20 .0 .0 100 1 1 2221 1 11
91 75 20 2221 11 100. 12111112
Tampa Bay FL C 69.8 91.3 9.2 7.8 92
1 10 02.5 84.1 20.6 27.3 20.6 7
```

MOBILE5b OUTPUT FILE FOR VOCs IDLE EMISSIONS FACTOR - 2010

1MOBILE5b 2010 Summer Emissions with MVIP and new diesel NOx emission factors
 MOBILE5b (14-Sep-96)

0

-M170 Warning:

+ Exhaust emissions for gasoline fueled vehicles beginning in 1995 have been reduced as a result of Gasoline Detergent Additive Regulations (1994).
 0 Emission Factor Modification Profile

Equation	Reg	Veh	Pol	First MY	Last MY	Base	DR	Altered
1	1	7	3	1990	1990	11.65	0.00	Yes
2	1	7	3	1991	1997	9.37	0.00	Yes
3	1	7	3	1998	2003	7.49	0.00	Yes
4	1	7	3	2004	2020	3.75	0.00	Yes

0I/M program selected:

0 Start year (January 1): 1991
 Pre-1981 MYR stringency rate: 27%
 First model year covered: 1975
 Last model year covered: 2020
 Waiver rate (pre-1981): 0.%
 Waiver rate (1981 and newer): 0.%
 Compliance Rate: 100.%
 Inspection type: Test Only
 Inspection frequency: Annual
 Vehicle types covered: LDGV - Yes
 LDGT1 - Yes
 LDGT2 - Yes
 HDGV - No
 1981 & later MYR test type: Idle
 Cutpoints, HC: 220.000 CO: 1.200 NOx: 999.000
 Low alt, Annl and Bien Insp Freq TECH 1 & 2 I/M cred data
 Annl Insp Freq & TECH 4+ I/M credit Idle test data

0Functional Check Program Description:

Check	Start	Model Yrs	Vehicle Classes	Covered	Inspection Type	Comp Rate	Eff Adj
ATP	1991	1975-2020	Yes	Yes	Yes	No	Test Only Annual 100.0% 1.00

0Air pump system disablements: No Catalyst removals: Yes
 Fuel inlet restrictor disablements: No Tailpipe lead deposit test: No
 EGR disablement: No Evaporative system disablements: No
 PCV system disablements: No Missing gas caps: Yes

0Tampa Bay FL

Minimum Temp: 70. (F) Maximum Temp: 91. (F)
 Period 1 RVP: 9.2 Period 2 RVP: 7.8 Period 2 Yr: 2002

0VOC HC emission factors include evaporative HC emission factors.

0

0Emission factors are as of July 1st of the indicated calendar year.

0User supplied basic exhaust emissions rates.

0Cal. Year: 2010 Region: Low Altitude: 500. Ft.
 I/M Program: Yes Ambient Temp: 86.4 / 86.4 / 86.4 F
 Anti-tam. Program: Yes Operating Mode: 20.6 / 27.3 / 20.6
 Reformulated Gas: No

Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
VMT Mix:	0.589	0.201	0.088		0.032	0.002	0.003	0.080	0.005	

0Composite Emission Factors (Gm/Mile)

VOC	HC:	9.76	11.10	15.45	12.42	16.80	1.10	1.50	4.55	12.54	10.31
Exhst CO:	67.91	72.55	99.12	80.64	74.65	4.53	5.03	35.71	174.42	69.47	
Exhst NOX:	1.84	2.06	2.95	2.33	3.47	1.86	2.11	10.03	0.85	2.68	

MOBILE5b INPUT FILE FOR VOCs IDLE EMISSIONS FACTOR -- 2025--

```
1 PROMPT - 05_tbwi.inp 3/22/99
MOBILE5b 2025 Summer Emissions with MVIP and new diesel NOx emission factors
1 TAMFLG - Use MOBILE5 Default Rates
1 SPDFLG - One speed applied to all vehicle types
1 VMFLAG - Use MOBILE5 VMT default mix
1 MYMRFG - Use MOBILE5 default annual mileage acc/registration
2 NEWFLG - Use new diesel exhaust emission rates
2 IMFLAG - I/M Program in use
1 ALHFLG - No additional correction factors (A/C, trailers, etc.)
2 ATPFLG - Anti-tampering program
5 RLFLAG - Zero out refueling losses
2 LOCFLG - Use a single LAP record for all scenarios
1 TEMFLG - Calculate exhaust temperatures (ambient temp not used)
4 OUTFMT - 80-column descriptive format.
4 PRNFLG - Print exhaust HC, CO and NOx results.
1 IDLFLG - No idle emission factors calculated
3 NMHFLG - Calculate emissions for volatile organic hydrocarbons (NMHC)
1 HCFLAG - Do not print HC components
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1 7 3 90 90 05.639 00.000
1 7 3 91 97 04.598 00.000
1 7 3 98 03 03.679 00.000
1 7 3 04 20 01.840 00.000
91 27 75 20 .0 .0 100 1 1 2221 1 11
91 75 20 2221 11 100. 12111112
Tampa Bay FL C 69.8 91.3 9.2 7.8 92
1 25 02.5 84.1 20.6 27.3 20.6 7
```

MOBILE5b OUTPUT FILE FOR VOCs IDLE EMISSIONS FACTOR -- 2025

1MOBILE5b 2025 Summer Emissions with MVIP and new diesel NOx emission factors
MOBILE5b (14-Sep-96)

0
-M170 Warning:

+ Exhaust emissions for gasoline fueled vehicles beginning in 1995 have been reduced as a result of Gasoline Detergent Additive Regulations (1994).
0 Emission Factor Modification Profile
+

Equation	Reg	Veh	Pol	First MY	Last MY	Base	DR	Altered
1	1	7	3	1990	1990	11.65	0.00	Yes
2	1	7	3	1991	1997	9.37	0.00	Yes
3	1	7	3	1998	2003	7.49	0.00	Yes
4	1	7	3	2004	2020	3.75	0.00	Yes

0I/M program selected:

0 Start year (January 1): 1991
Pre-1981 MYR stringency rate: 27%
First model year covered: 1975
Last model year covered: 2020
Waiver rate (pre-1981): 0.%
Waiver rate (1981 and newer): 0.%
Compliance Rate: 100.%
Inspection type: Test Only
Inspection frequency: Annual
Vehicle types covered: LDGV - Yes
LDGT1 - Yes
LDGT2 - Yes
HDGV - No
1981 & later MYR test type: Idle
Cutpoints, HC: 220.000 CO: 1.200 NOx: 999.000
Low alt, Annl and Bien Insp Freq TECH 1 & 2 I/M cred data
Annl Insp Freq & TECH 4+ I/M credit Idle test data

0Functional Check Program Description:

Check	Start Model Yrs	Vehicle Classes Covered	Inspection Type	Comp Rate	Eff Adj
ATP	1991	1975-2020	Yes Yes Yes No Test Only Annual	100.0%	1.00
0Air pump system disablements:	No Catalyst removals:			Yes	
Fuel inlet restrictor disablements:	No Tailpipe lead deposit test:			No	
EGR disablement:	No Evaporative system disablements:			No	
PCV system disablements:	No Missing gas caps:			Yes	

0Tampa Bay FL

Minimum Temp: 70. (F) Maximum Temp: 91. (F)
Period 1 RVP: 9.2 Period 2 RVP: 7.8 Period 2 Yr: 2002

0VOC HC emission factors include evaporative HC emission factors.

0 Emission factors are as of July 1st of the indicated calendar year.

0User supplied basic exhaust emissions rates.

0Cal. Year: 2025 Region: Low Altitude: 500. Ft.
I/M Program: Yes Ambient Temp: 86.4 / 86.4 / 86.4 F
Anti-tam. Program: Yes Operating Mode: 20.6 / 27.3 / 20.6
Reformulated Gas: No

Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
VMT Mix:	0.575	0.207	0.089		0.034	0.002	0.006	0.084	0.004	

0Composite Emission Factors (Gm/Mile)

VOC	HC:	9.47	10.68	14.62	11.86	15.34	1.14	1.63	4.55	12.54	9.91
Exhst CO:	69.00	72.58	97.52	80.06	72.74	4.61	5.21	35.66	174.42	69.59	
Exhst NOX:	1.83	2.04	2.87	2.29	3.19	1.90	2.18	9.49	0.85	2.65	

CAL3QHC INPUT FILE FOR NO-BUILD - 2010

'LINKS Stage I'	60.	108.	0.	0.	11	1.0	0	1	
'R1-House @ SW Dana'	-8505	-4399	1.7						
'R2-House @ S Dana'	-7757	-3252	1.7						
'R3-House @ SE Dana'	-6278	-748	1.7						
'R4-House @ NE Dana'	-9158	1181	1.7						
'R5-Hyatt'	-4500	-698	1.7						
'R6-Condo on bay'	-2312	-2250	1.7						
'R7-House nr LaSalle'	4314	1204	1.7						
'R8-Business nr rmp'	3825	2475	1.7						
'R9-Airport Bldg'	1359	3821	1.7						
'R10-Unkown bldg'	3881	-1395	1.7						
'R11-Remnis courts'	-1181	-1058	1.7						
'LINKS Stage I - Year 2010'	87	4	0	'C'					
'Link 1'	'AG'	-8882.	-6998.	-6008.	-1896.	4141.	13.	0.	17.
'Link 2'	'AG'	-9023.	-6924.	-6069.	-1811.	3720.	13.	0.	17.
'Link 3'	'AG'	-5558.	-1103.	-5108.	-574.	2768.	13.	0.	13.
'Link 4'	'AG'	-5108.	-574.	-4461.	-338.	2768.	13.	0.	13.
'Link 5'	'AG'	-4461.	-338.	-2919.	-529.	2768.	13.	0.	13.
'Link 6'	'AG'	-2919.	-529.	-844.	-788.	10616.	13.	0.	24.
'Link 7'	'AG'	-844.	-788.	79.	-534.	10616.	13.	0.	24.
'Link 8'	'AG'	79.	-534.	2503.	1069.	4095.	13.	0.	13.
'Link 9'	'AG'	2503.	1069.	2588.	2379.	4095.	13.	0.	13.
'Link 10'	'AG'	2588.	2379.	2829.	3758.	4095.	13.	0.	13.
'Link 11'	'AG'	79.	-534.	2481.	1238.	6521.	13.	0.	17.
'Link 12'	'AG'	2481.	1238.	4219.	1778.	6521.	13.	0.	17.
'Link 13'	'AG'	4219.	1778.	6030.	1851.	6521.	13.	0.	17.
'Link 14'	'AG'	6030.	1851.	6300.	1835.	9547.	13.	0.	20.
'Link 15'	'AG'	-5558.	-1103.	-4609.	377.	1339.	13.	0.	13.
'Link 16'	'AG'	-4905.	135.	-5141.	-191.	2846.	13.	0.	17.
'Link 17'	'AG'	-4609.	377.	-3825.	253.	1339.	13.	0.	13.
'Link 18'	'AG'	-9568.	3645.	-7189.	2132.	1893.	13.	0.	11.
'Link 19'	'AG'	-9709.	3533.	-8027.	2559.	7203.	13.	0.	20.
'Link 20'	'AG'	-8027.	2559.	-7189.	2132.	5955.	13.	0.	17.
'Link 21'	'AG'	-7189.	2132.	-5726.	1553.	7848.	13.	0.	17.
'Link 22'	'AG'	-5726.	1553.	-4894.	478.	7848.	13.	0.	17.
'Link 23'	'AG'	-4894.	478.	-4635.	62.	7848.	13.	0.	17.
'Link 24'	'AG'	-4635.	62.	-2919.	-529.	7848.	13.	0.	17.
'Link 25'	'AG'	-8027.	2559.	-6638.	1800.	1248.	13.	0.	13.
'Link 26'	'AG'	-6638.	1800.	-5361.	911.	1248.	13.	0.	13.
'Link 27'	'AG'	-5361.	911.	-5057.	287.	1248.	13.	0.	11.

'Link 28'	'AG'	-5057.	287.	-5141.	-191.	1248.	13.	0.	11.
'Link 29'	'AG'	-5141.	-191.	-6069.	-1811.	4094.	13.	0.	17.
'Link 30'	'AG'	3780.	2205.	3240.	4095.	1246.	13.	0.	11.
'Link 31'	'AG'	6030.	1986.	4292.	1963.	9767.	13.	0.	20.
'Link 32'	'AG'	4292.	1963.	2667.	2081.	3395.	13.	0.	13.
'Link 33'	'AG'	2667.	2081.	1153.	2649.	3395.	13.	0.	13.
'Link 34'	'AG'	1153.	2649.	-1153.	4016.	6916.	13.	0.	17.
'Link 35'	'AG'	4292.	1963.	2723.	1553.	6372.	13.	0.	17.
'Link 36'	'AG'	2723.	1553.	174.	-276.	6372.	13.	0.	17.
'Link 37'	'AG'	174.	-276.	-855.	-630.	10883.	13.	0.	24.
'Link 38'	'AG'	-855.	-630.	-3178.	225.	10883.	13.	0.	24.
'Link 39'	'AG'	-4646.	1086.	-6559.	2211.	9376.	13.	0.	24.
'Link 40'	'AG'	3054.	4500.	1654.	2588.	1430.	13.	0.	11.
'Link 41'	'AG'	1654.	2588.	1153.	2649.	1430.	13.	0.	11.
'Link 42'	'AG'	3054.	4500.	2087.	2807.	2192.	13.	0.	13.
'Link 43'	'AG'	2087.	2807.	1676.	1913.	2192.	13.	0.	13.
'Link 44'	'AG'	1676.	1913.	872.	371.	2192.	13.	0.	13.
'Link 45'	'AG'	872.	371.	174.	-276.	4511.	13.	0.	13.
'Link 46'	'AG'	-1451.	3645.	821.	2633.	6903.	13.	0.	17.
'Link 47'	'AG'	821.	2633.	1463.	1856.	2319.	13.	0.	11.
'Link 48'	'AG'	1463.	1856.	872.	371.	2319.	13.	0.	11.
'Link 49'	'AG'	821.	2633.	2064.	2154.	4584.	13.	0.	13.
'Link 50'	'AG'	2064.	2154.	2430.	1873.	1558.	13.	0.	11.
'Link 51'	'AG'	2430.	1873.	2211.	1378.	1558.	13.	0.	11.
'Link 52'	'BR'	2211.	1378.	1789.	1868.	1558.	13.	10.	11.
'Link 53'	'AG'	1789.	1868.	2194.	2728.	1558.	13.	0.	11.
'Link 54'	'AG'	2194.	2728.	2829.	3758.	1558.	13.	0.	11.
'Link 55'	'AG'	2829.	3758.	3105.	4264.	3562.	13.	0.	17.
'Link 56'	'AG'	2064.	2154.	2796.	1912.	3026.	13.	0.	13.
'Link 57'	'AG'	2796.	1912.	3971.	1524.	3026.	13.	0.	13.
'Link 58'	'AG'	3971.	1524.	6030.	1851.	3026.	13.	0.	13.
'Link 59'	'AG'	2588.	2379.	2908.	2751.	2091.	13.	0.	11.
'Link 60'	'BR'	2908.	2751.	3291.	2424.	2091.	13.	10.	11.
'Link 61'	'AG'	3291.	2424.	3133.	2126.	2091.	13.	0.	11.
'Link 62'	'AG'	3133.	2126.	2667.	2081.	2091.	13.	0.	11.
'Link 63'	'AG'	-6008.	-1896.	-5558.	-1103.	4107.	13.	0.	17.

1	'Link	64'	'AG'	-5878.	-1772.	-6120.	-1198.	.227.	13.	0.	11.
1	'Link	65'	'AG'	-5979.	-1856.	-5636.	-1744.	690.	13.	0.	11.
1	'Link	66'	'AG'	-5664.	-1688.	-5979.	-1856.	780.	13.	10.	13.
1	'Link	67'	'AG'	-5979.	-1856.	-6227.	-1744.	35.	13.	10.	13.
1	'Link	68'	'AG'	-3178.	225.	-4646.	1086.	8037.	13.	10.	17.
1	'Link	69'	'AG'	-3178.	225.	-3926.	613.	2846.	13.	0.	17.
1	'Link	70'	'AG'	-3926.	613.	-4905.	135.	2846.	13.	0.	17.
1	'Link	71'	'AG'	-3825.	253.	-3713.	484.	1339.	13.	0.	13.
1	'Link	72'	'AG'	-3713.	484.	-4646.	1086.	1339.	13.	0.	13.
1	'Link	73'	'AG'	3105.	4264.	3600.	5090.	3562.	13.	10.	17.
1	'Link	74'	'AG'	3600.	5090.	3713.	5288.	3095.	13.	0.	13.
1	'Link	75'	'AG'	3600.	5400.	3488.	5175.	3801.	13.	0.	20.
1	'Link	76'	'AG'	3488.	5175.	3054.	4500.	3622.	13.	0.	20.
1	'Link	77'	'AG'	3240.	4095.	3656.	5119.	1246.	13.	0.	13.
2	'Link	78'	'AG'	-6018.	-1980.	-6761.	-3150.	0.	11.	3	
2	'Link	120	40	2.0	.4141	202.0	1900	2	3		
2	'Link	79'	'AG'	-5963.	-1811.	-5850.	-1519.	0.	4.	1	
2	'Link	120	94	2.0	375	202.0	1900	2	3		
2	'Link	80'	'AG'	-6120.	-1198.	-5805.	-1283.	0.	5.	1	
2	'Link	120	106	2.0	227	202.0	1900	2	3		
2	'Link	81'	'AG'	-5985.	-1761.	-5400.	-103.	0.	11.	3	
2	'Link	120	26	2.0	3719	202.0	1900	2	3		
2	'Link	82'	'AG'	-5895.	-1896.	-5664.	-1688.	0.	5.	1	
2	'Link	120	106	2.0	90	202.0	1900	2	3		
2	'Link	83'	'AG'	-3656.	448.	-3178.	225.	0.	11.	3	
2	'Link	120	50	2.0	2846	202.0	1900	2	3		
2	'Link	84'	'AG'	-3713.	484.	-3825.	253.	0.	7.	2	
2	'Link	120	70	2.0	1339	202.0	1900	2	3		
2	'Link	85'	'AG'	3572.	5006.	3105.	4264.	0.	11.	3	
2	'Link	110	45	2.0	3562	202.0	1900	2	3		
2	'Link	86'	'AG'	3544.	5299.	3600.	5400.	0.	14.	4	
2	'Link	110	17	2.0	3801	202.0	1900	2	3		
2	'Link	87'	'AG'	3656.	5119.	3240.	4095.	0.	5.	1	
2	'Link	110	93	2.0	300	202.0	1900	2	3		
1		1	0	4	1000	1.14	'Y'	10	0	35	
1		1	0	4	1000	6.9	'Y'	10	0	35	
1		1	0	4	1000	1.14	'Y'	1	50	70	
1		1	0	4	1000	6.9	'Y'	1	50	70	

CAL3QHC OUTPUT FILE FOR NO-BUILD - 2010

CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221

PAGE 1

JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2010

DATE : 4/25/99

TIME : 18:21:45

The MODE flag has been set to C for calculating CO averages.

SITE & METEOROLOGICAL VARIABLES

VS = .0 CM/S VD = .0 CM/S Z0 = 108. CM
 U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 1.1 PPM

LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* LENGTH (M)	BRG TYPE (DEG)	VPH	EF (G/MI)	H (M)	W (M)	V/C QUEUE (VEH)
1. Link 1	* -8882.0	-6998.0	-6008.0	-1896.0	* 5856.	29. AG	4141.	13.0	.0	17.0	
2. Link 2	* -9023.0	-6924.0	-6069.0	-1811.0	* 5905.	30. AG	3720.	13.0	.0	17.0	
3. Link 3	* -5558.0	-1103.0	-5108.0	-574.0	* 695.	40. AG	2768.	13.0	.0	13.0	
4. Link 4	* -5108.0	-574.0	-4461.0	-338.0	* 689.	70. AG	2768.	13.0	.0	13.0	
5. Link 5	* -4461.0	-338.0	-2919.0	-529.0	* 1554.	97. AG	2768.	13.0	.0	13.0	
6. Link 6	* -2919.0	-529.0	-844.0	-788.0	* 2091.	97. AG	10616.	13.0	.0	24.0	
7. Link 7	* -844.0	-788.0	79.0	-534.0	* 957.	75. AG	10616.	13.0	.0	24.0	
8. Link 8	* 79.0	-534.0	2503.0	1069.0	* 2906.	57. AG	4095.	13.0	.0	13.0	
9. Link 9	* 2503.0	1069.0	2588.0	2379.0	* 1313.	4. AG	4095.	13.0	.0	13.0	
10. Link 10	* 2588.0	2379.0	2829.0	3758.0	* 1400.	10. AG	4095.	13.0	.0	13.0	
11. Link 11	* 79.0	-534.0	2481.0	1238.0	* 2985.	54. AG	6521.	13.0	.0	17.0	
12. Link 12	* 2481.0	1238.0	4219.0	1778.0	* 1820.	73. AG	6521.	13.0	.0	17.0	
13. Link 13	* 4219.0	1778.0	6030.0	1851.0	* 1812.	88. AG	6521.	13.0	.0	17.0	
14. Link 14	* 6030.0	1851.0	6300.0	1835.0	* 270.	93. AG	9547.	13.0	.0	20.0	
15. Link 15	* -5558.0	-1103.0	-4609.0	377.0	* 1758.	33. AG	1339.	13.0	.0	13.0	
16. Link 16	* -4905.0	135.0	-5141.0	-191.0	* 402.	216. AG	2846.	13.0	.0	17.0	
17. Link 17	* -4609.0	377.0	-3825.0	253.0	* 794.	99. AG	1339.	13.0	.0	13.0	
18. Link 18	* -9568.0	3645.0	-7189.0	2132.0	* 2819.	122. AG	1893.	13.0	.0	11.0	
19. Link 19	* -9709.0	3533.0	-8027.0	2559.0	* 1944.	120. AG	7203.	13.0	.0	20.0	
20. Link 20	* -8027.0	2559.0	-7189.0	2132.0	* 941.	117. AG	5955.	13.0	.0	17.0	
21. Link 21	* -7189.0	2132.0	-5726.0	1553.0	* 1573.	112. AG	7848.	13.0	.0	17.0	
22. Link 22	* -5726.0	1553.0	-4894.0	478.0	* 1359.	142. AG	7848.	13.0	.0	17.0	
23. Link 23	* -4894.0	478.0	-4635.0	62.0	* 490.	148. AG	7848.	13.0	.0	17.0	
24. Link 24	* -4635.0	62.0	-2919.0	-529.0	* 1815.	109. AG	7848.	13.0	.0	17.0	
25. Link 25	* -8027.0	2559.0	-6638.0	1800.0	* 1583.	119. AG	1248.	13.0	.0	13.0	
26. Link 26	* -6638.0	1800.0	-5361.0	911.0	* 1556.	125. AG	1248.	13.0	.0	13.0	
27. Link 27	* -5361.0	911.0	-5057.0	287.0	* 694.	154. AG	1248.	13.0	.0	11.0	
28. Link 28	* -5057.0	287.0	-5141.0	-191.0	* 485.	190. AG	1248.	13.0	.0	11.0	
29. Link 29	* -5141.0	-191.0	-6069.0	-1811.0	* 1867.	210. AG	4094.	13.0	.0	17.0	

30. Link 30	*	3780.0	2205.0	3240.0	4095.0	*	1966.	344. AG	1246.	13.0	.0	11.0
31. Link 31	*	6030.0	1986.0	4292.0	1963.0	*	1738.	269. AG	9767.	13.0	.0	20.0
32. Link 32	*	4292.0	1963.0	2667.0	2081.0	*	1629.	274. AG	3395.	13.0	.0	13.0
33. Link 33	*	2667.0	2081.0	1153.0	2649.0	*	1617.	291. AG	3395.	13.0	.0	13.0
34. Link 34	*	1153.0	2649.0	-1153.0	4016.0	*	2681.	301. AG	6916.	13.0	.0	17.0
35. Link 35	*	4292.0	1963.0	2723.0	1553.0	*	1622.	255. AG	6372.	13.0	.0	17.0
36. Link 36	*	2723.0	1553.0	174.0	-276.0	*	3137.	234. AG	6372.	13.0	.0	17.0
37. Link 37	*	174.0	-276.0	-855.0	-630.0	*	1088.	251. AG	10883.	13.0	.0	24.0
38. Link 38	*	-855.0	-630.0	-3178.0	225.0	*	2475.	290. AG	10883.	13.0	.0	24.0
39. Link 39	*	-4646.0	1086.0	-6559.0	2211.0	*	2219.	300. AG	9376.	13.0	.0	24.0
40. Link 40	*	3054.0	4500.0	1654.0	2588.0	*	2370.	216. AG	1430.	13.0	.0	11.0
41. Link 41	*	1654.0	2588.0	1153.0	2649.0	*	505.	277. AG	1430.	13.0	.0	11.0
42. Link 42	*	3054.0	4500.0	2087.0	2807.0	*	1950.	210. AG	2192.	13.0	.0	13.0
43. Link 43	*	2087.0	2807.0	1676.0	1913.0	*	984.	205. AG	2192.	13.0	.0	13.0
44. Link 44	*	1676.0	1913.0	872.0	371.0	*	1739.	208. AG	2192.	13.0	.0	13.0

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JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2010

DATE : 4/25/99

TIME : 18:21:45

LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M)				*	LENGTH	BRG TYPE	VPH	EF	H	W	V/C QUEUE
	*	X1	Y1	X2	Y2	*	(M)	(DEG)	(G/MI)	(M)	(M)	(VEH)	
45. Link 45	*	872.0	371.0	174.0	-276.0	*	952.	227. AG	4511.	13.0	.0	13.0	
46. Link 46	*	-1451.0	3645.0	821.0	2633.0	*	2487.	114. AG	6903.	13.0	.0	17.0	
47. Link 47	*	821.0	2633.0	1463.0	1856.0	*	1008.	140. AG	2319.	13.0	.0	11.0	
48. Link 48	*	1463.0	1856.0	872.0	371.0	*	1598.	202. AG	2319.	13.0	.0	11.0	
49. Link 49	*	821.0	2633.0	2064.0	2154.0	*	1332.	111. AG	4584.	13.0	.0	13.0	
50. Link 50	*	2064.0	2154.0	2430.0	1873.0	*	461.	128. AG	1558.	13.0	.0	11.0	
51. Link 51	*	2430.0	1873.0	2211.0	1378.0	*	541.	204. AG	1558.	13.0	.0	11.0	
52. Link 52	*	2211.0	1378.0	1789.0	1868.0	*	647.	319. BR	1558.	13.0	10.0	11.0	
53. Link 53	*	1789.0	1868.0	2194.0	2728.0	*	951.	25. AG	1558.	13.0	.0	11.0	
54. Link 54	*	2194.0	2728.0	2829.0	3758.0	*	1210.	32. AG	1558.	13.0	.0	11.0	
55. Link 55	*	2829.0	3758.0	3105.0	4264.0	*	576.	29. AG	3562.	13.0	.0	17.0	
56. Link 56	*	2064.0	2154.0	2796.0	1912.0	*	771.	108. AG	3026.	13.0	.0	13.0	
57. Link 57	*	2796.0	1912.0	3971.0	1524.0	*	1237.	108. AG	3026.	13.0	.0	13.0	
58. Link 58	*	3971.0	1524.0	6030.0	1851.0	*	2085.	81. AG	3026.	13.0	.0	13.0	
59. Link 59	*	2588.0	2379.0	2908.0	2751.0	*	491.	41. AG	2091.	13.0	.0	11.0	
60. Link 60	*	2908.0	2751.0	3291.0	2424.0	*	504.	130. BR	2091.	13.0	10.0	11.0	
61. Link 61	*	3291.0	2424.0	3133.0	2126.0	*	337.	208. AG	2091.	13.0	.0	11.0	
62. Link 62	*	3133.0	2126.0	2667.0	2081.0	*	468.	264. AG	2091.	13.0	.0	11.0	
63. Link 63	*	-6008.0	-1896.0	-5558.0	-1103.0	*	912.	30. AG	4107.	13.0	.0	17.0	
64. Link 64	*	-5878.0	-1772.0	-6120.0	-1198.0	*	623.	337. AG	227.	13.0	.0	11.0	
65. Link 65	*	-5979.0	-1856.0	-5636.0	-1744.0	*	361.	72. AG	690.	13.0	.0	11.0	
66. Link 66	*	-5664.0	-1688.0	-5979.0	-1856.0	*	357.	242. AG	780.	13.0	10.0	13.0	
67. Link 67	*	-5979.0	-1856.0	-6227.0	-1744.0	*	272.	294. AG	35.	13.0	10.0	13.0	
68. Link 68	*	-3178.0	225.0	-4646.0	1086.0	*	1702.	300. AG	8037.	13.0	10.0	17.0	

69. Link 69	*	-3178.0	225.0	-3926.0	613.0	*	843.	297. AG	2846.	13.0	.0	17.0			
70. Link 70	*	-3926.0	613.0	-4905.0	135.0	*	1089.	244. AG	2846.	13.0	.0	17.0			
71. Link 71	*	-3825.0	253.0	-3713.0	484.0	*	257.	26. AG	1339.	13.0	.0	13.0			
72. Link 72	*	-3713.0	484.0	-4646.0	1086.0	*	1110.	303. AG	1339.	13.0	.0	13.0			
73. Link 73	*	3105.0	4264.0	3600.0	5090.0	*	963.	31. AG	3562.	13.0	10.0	17.0			
74. Link 74	*	3600.0	5090.0	3713.0	5288.0	*	228.	30. AG	3095.	13.0	.0	13.0			
75. Link 75	*	3600.0	5400.0	3488.0	5175.0	*	251.	206. AG	3801.	13.0	.0	20.0			
76. Link 76	*	3488.0	5175.0	3054.0	4500.0	*	802.	213. AG	3622.	13.0	.0	20.0			
77. Link 77	*	3240.0	4095.0	3656.0	5119.0	*	1105.	22. AG	1246.	13.0	.0	13.0			
78. Link 78	*	-6018.0	-1980.0	-6375.2	-2542.5	*	666.	212. AG	542.	100.0	.0	11.0	1.15	111.1	
79. Link 79	*	-5963.0	-1811.0	-5905.0	-1661.2	*	161.	21. AG	424.	100.0	.0	4.0	1.08	26.8	
80. Link 80	*	-6120.0	-1198.0	-5862.3	-1267.5	*	267.	105. AG	479.	100.0	.0	5.0	1.44	44.5	
81. Link 81	*	-5985.0	-1761.0	-5967.1	-1710.4	*	54.	19. AG	352.	100.0	.0	11.0	.87	8.9	
82. Link 82	*	-5895.0	-1896.0	-5883.2	-1885.4	*	16.	48. AG	479.	100.0	.0	5.0	.57	2.7	
83. Link 83	*	-3656.0	448.0	-3580.6	412.8	*	83.	115. AG	677.	100.0	.0	11.0	.91	13.9	
84. Link 84	*	-3713.0	484.0	-3750.0	407.6	*	85.	206. AG	632.	100.0	.0	7.0	.92	14.1	
85. Link 85	*	3572.0	5006.0	3289.4	4557.0	*	531.	212. AG	665.	100.0	.0	11.0	1.13	88.4	
86. Link 86	*	3544.0	5299.0	3557.1	5322.5	*	27.	29. AG	335.	100.0	.0	14.0	.62	4.5	
87. Link 87	*	3656.0	5119.0	3544.5	4844.5	*	296.	202. AG	458.	100.0	.0	5.0	1.34	49.4	

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JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2010

DATE : 4/25/99
TIME : 18:21:45

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	* * *	CYCLE LENGTH (SEC)	RED TIME (SEC)	CLEARANCE LOST TIME (SEC)	APPROACH VOL (VPH)	SATURATION FLOW RATE (VPH)	IDLE EM FAC (gm/hr)	SIGNAL TYPE	ARRIVAL RATE
78. Link 78	*	120	40	2.0	4141	1900	202.00	2	3
79. Link 79	*	120	94	2.0	375	1900	202.00	2	3
80. Link 80	*	120	106	2.0	227	1900	202.00	2	3
81. Link 81	*	120	26	2.0	3719	1900	202.00	2	3
82. Link 82	*	120	106	2.0	90	1900	202.00	2	3
83. Link 83	*	120	50	2.0	2846	1900	202.00	2	3
84. Link 84	*	120	70	2.0	1339	1900	202.00	2	3
85. Link 85	*	110	45	2.0	3562	1900	202.00	2	3
86. Link 86	*	110	17	2.0	3801	1900	202.00	2	3
87. Link 87	*	110	93	2.0	300	1900	202.00	2	3

RECEPTOR LOCATIONS

RECEPTOR	* * *	COORDINATES (M)			* * *
		X	Y	Z	
1. R1-House @ SW Dana	*	-8505.0	-4399.0	1.7	*
2. R2-House @ S Dana	*	-7757.0	-3252.0	1.7	*
3. R3-House @ SE Dana	*	-6278.0	-748.0	1.7	*

4. R4-House @ NE Dana	*	-9158.0	1181.0	1.7	*
5. R5-Hyatt	*	-4500.0	-698.0	1.7	*
6. R6-Condo on bay	*	-2312.0	-2250.0	1.7	*
7. R7-House nr LaSalle	*	4314.0	1204.0	1.7	*
8. R8-Business nr rmp	*	3825.0	2475.0	1.7	*
9. R9-Airport bldg	*	1359.0	3821.0	1.7	*
10. R10-Unknown bldg	*	3881.0	-1395.0	1.7	*
11. R11-Tennis courts	*	-1181.0	-1058.0	1.7	*

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JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2010

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-350.

WIND ANGLE (DEGR)	* CONCENTRATION (PPM)	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11
0.	*	1.1	1.1	1.3	1.2	1.6	1.3	1.5	1.1	1.1	1.1	1.8
10.	*	1.1	1.1	1.2	1.2	1.6	1.3	1.6	1.1	1.1	1.1	1.8
20.	*	1.1	1.1	1.3	1.2	1.5	1.3	1.6	1.1	1.1	1.2	1.8
30.	*	1.1	1.1	1.3	1.2	1.5	1.3	1.6	1.1	1.1	1.1	1.8
40.	*	1.1	1.1	1.3	1.1	1.5	1.4	1.6	1.1	1.1	1.1	2.0
50.	*	1.3	1.2	1.2	1.2	1.5	1.5	1.6	1.1	1.1	1.1	2.5
60.	*	1.3	1.4	1.3	1.2	1.5	1.2	1.6	1.1	1.1	1.1	2.7
70.	*	1.3	1.3	1.4	1.3	1.6	1.1	1.4	1.1	1.1	1.1	1.8
80.	*	1.3	1.3	1.4	1.3	1.7	1.1	1.1	1.1	1.1	1.1	1.2
90.	*	1.3	1.3	1.5	1.2	1.6	1.1	1.1	1.1	1.1	1.1	1.1
100.	*	1.3	1.3	1.3	1.2	1.2	1.1	1.1	1.2	1.1	1.1	1.1
110.	*	1.3	1.3	1.2	1.1	1.1	1.1	1.1	1.5	1.3	1.1	1.1
120.	*	1.3	1.3	1.3	1.1	1.1	1.1	1.1	1.7	1.3	1.1	1.1
130.	*	1.3	1.3	1.3	1.1	1.1	1.1	1.1	1.6	1.2	1.1	1.1
140.	*	1.3	1.3	1.3	1.1	1.1	1.1	1.1	1.6	1.2	1.1	1.1
150.	*	1.3	1.3	1.4	1.1	1.1	1.1	1.1	1.6	1.2	1.1	1.1
160.	*	1.3	1.3	1.4	1.1	1.1	1.1	1.1	1.5	1.3	1.1	1.1
170.	*	1.3	1.3	1.2	1.1	1.1	1.1	1.1	1.5	1.5	1.1	1.1
180.	*	1.3	1.3	1.4	1.1	1.1	1.1	1.1	1.5	1.4	1.1	1.1
190.	*	1.2	1.3	1.3	1.1	1.1	1.1	1.1	1.7	1.5	1.1	1.1
200.	*	1.1	1.2	1.3	1.1	1.1	1.1	1.1	1.7	1.2	1.1	1.1
210.	*	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.3	1.1	1.1
220.	*	1.1	1.1	1.1	1.1	1.3	1.1	1.1	2.0	1.4	1.1	1.1
230.	*	1.1	1.1	1.1	1.1	1.3	1.1	1.1	2.2	1.3	1.1	1.1
240.	*	1.1	1.1	1.1	1.1	1.3	1.1	1.1	1.6	1.3	1.1	1.1

250.	*	1.1	1.1	1.1	1.1	1.2	1.1	1.4	1.4	1.3	1.1	1.1
260.	*	1.1	1.1	1.1	1.1	1.3	1.1	1.5	1.3	1.3	1.1	1.1
270.	*	1.1	1.1	1.1	1.1	1.3	1.1	1.4	1.5	1.2	1.1	1.1
280.	*	1.1	1.1	1.1	1.1	1.3	1.1	1.5	1.6	1.1	1.4	1.3
290.	*	1.1	1.1	1.1	1.1	1.3	1.1	1.7	1.3	1.1	1.1	1.6
300.	*	1.1	1.1	1.1	1.1	1.3	1.1	1.9	1.3	1.1	1.2	2.0
310.	*	1.1	1.1	1.1	1.1	1.2	1.1	1.6	1.3	1.1	1.2	2.0
320.	*	1.1	1.1	1.1	1.1	1.3	1.3	1.6	1.2	1.1	1.1	2.0
330.	*	1.1	1.1	1.1	1.1	1.5	1.3	1.6	1.2	1.1	1.1	1.9
340.	*	1.1	1.1	1.1	1.1	1.6	1.5	1.5	1.2	1.1	1.1	1.8
350.	*	1.1	1.1	1.2	1.2	1.7	1.3	1.6	1.1	1.1	1.2	1.8
-----*												
MAX	*	1.3	1.4	1.5	1.3	1.7	1.5	1.9	2.2	1.5	1.4	2.7
DEGR.	*	50	60	90	70	80	50	300	230	170	280	60

THE HIGHEST CONCENTRATION OF 2.74 PPM OCCURRED AT RECEPTOR REC11.

JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2010

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METEOROLOGICAL VARIABLES

 U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 6.9 PPM

JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2010

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MODEL RESULTS

 REMARKS : In search of the angle corresponding to
 the maximum concentration, only the first
 angle, of the angles with same maximum
 concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-350.

WIND ANGLE (DEGR)	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	
0.	*	6.9	6.9	7.1	7.0	7.4	7.1	7.3	6.9	6.9	6.9	7.6
10.	*	6.9	6.9	7.0	7.0	7.4	7.1	7.4	6.9	6.9	6.9	7.6
20.	*	6.9	6.9	7.1	7.0	7.3	7.1	7.4	6.9	6.9	7.0	7.6
30.	*	6.9	6.9	7.1	7.0	7.3	7.1	7.4	6.9	6.9	6.9	7.6
40.	*	6.9	6.9	7.1	6.9	7.3	7.2	7.4	6.9	6.9	6.9	7.8
50.	*	7.1	7.0	7.0	7.0	7.3	7.3	7.4	6.9	6.9	6.9	8.3
60.	*	7.1	7.2	7.1	7.0	7.3	7.0	7.4	6.9	6.9	6.9	8.5
70.	*	7.1	7.1	7.2	7.1	7.4	6.9	7.2	6.9	6.9	6.9	7.6
80.	*	7.1	7.1	7.2	7.1	7.5	6.9	6.9	6.9	6.9	6.9	7.0

90.	*	7.1	7.1	7.3	7.0	7.4	6.9	6.9	6.9	6.9	6.9	
100.	*	7.1	7.1	7.1	7.0	7.0	6.9	6.9	7.0	6.9	6.9	
110.	*	7.1	7.1	7.0	6.9	6.9	6.9	6.9	7.3	7.1	6.9	
120.	*	7.1	7.1	7.1	6.9	6.9	6.9	6.9	7.5	7.1	6.9	
130.	*	7.1	7.1	7.1	6.9	6.9	6.9	6.9	7.4	7.0	6.9	
140.	*	7.1	7.1	7.1	6.9	6.9	6.9	6.9	7.4	7.0	6.9	
150.	*	7.1	7.1	7.2	6.9	6.9	6.9	6.9	7.4	7.0	6.9	
160.	*	7.1	7.1	7.2	6.9	6.9	6.9	6.9	7.3	7.1	6.9	
170.	*	7.1	7.1	7.0	6.9	6.9	6.9	6.9	7.3	7.3	6.9	
180.	*	7.1	7.1	7.2	6.9	6.9	6.9	6.9	7.3	7.2	6.9	
190.	*	7.0	7.1	7.1	6.9	6.9	6.9	6.9	7.5	7.3	6.9	
200.	*	6.9	7.0	7.1	6.9	6.9	6.9	6.9	7.5	7.0	6.9	
210.	*	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.5	7.1	6.9	
220.	*	6.9	6.9	6.9	6.9	7.1	6.9	6.9	7.8	7.2	6.9	
230.	*	6.9	6.9	6.9	6.9	7.1	6.9	6.9	8.0	7.1	6.9	
240.	*	6.9	6.9	6.9	6.9	7.1	6.9	6.9	7.4	7.1	6.9	
250.	*	6.9	6.9	6.9	6.9	7.0	6.9	7.2	7.2	7.1	6.9	
260.	*	6.9	6.9	6.9	6.9	7.1	6.9	7.3	7.1	7.1	6.9	
270.	*	6.9	6.9	6.9	6.9	7.1	6.9	7.2	7.3	7.0	6.9	
280.	*	6.9	6.9	6.9	6.9	7.1	6.9	7.3	7.4	6.9	7.2	
290.	*	6.9	6.9	6.9	6.9	7.1	6.9	7.5	7.1	6.9	7.4	
300.	*	6.9	6.9	6.9	6.9	7.1	6.9	7.7	7.1	6.9	7.8	
310.	*	6.9	6.9	6.9	6.9	7.0	6.9	7.4	7.1	6.9	7.8	
320.	*	6.9	6.9	6.9	6.9	7.1	7.1	7.4	7.0	6.9	7.8	
330.	*	6.9	6.9	6.9	6.9	7.3	7.1	7.4	7.0	6.9	7.7	
340.	*	6.9	6.9	6.9	6.9	7.4	7.3	7.3	7.0	6.9	7.6	
350.	*	6.9	6.9	7.0	7.0	7.5	7.1	7.4	6.9	6.9	7.6	
-----*												
MAX	*	7.1	7.2	7.3	7.1	7.5	7.3	7.7	8.0	7.3	7.2	8.5
DEGR.	*	50	60	90	70	80	50	300	230	170	280	60

THE HIGHEST CONCENTRATION OF 8.50 PPM OCCURRED AT RECEPTOR REC11.

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JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2010

METEOROLOGICAL VARIABLES

U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 1.1 PPM

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 50.- 70.

WIND ANGLE (DEGR)	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11
50.	1.3	1.2	1.2	1.2	1.5	1.5	1.6	1.1	1.1	1.1	2.5
51.	1.3	1.2	1.3	1.2	1.5	1.5	1.6	1.1	1.1	1.1	2.4
52.	1.3	1.3	1.3	1.2	1.6	1.6	1.6	1.1	1.1	1.1	2.5
53.	1.3	1.3	1.3	1.2	1.6	1.6	1.6	1.1	1.1	1.1	2.8
54.	1.3	1.3	1.3	1.2	1.6	1.6	1.6	1.1	1.1	1.1	2.8
55.	1.3	1.3	1.3	1.2	1.6	1.6	1.6	1.1	1.1	1.1	2.9
56.	1.3	1.3	1.3	1.2	1.5	1.6	1.6	1.1	1.1	1.1	2.9
57.	1.3	1.3	1.3	1.2	1.5	1.6	1.6	1.1	1.1	1.1	2.8
58.	1.3	1.3	1.3	1.2	1.5	1.5	1.6	1.1	1.1	1.1	2.8
59.	1.3	1.3	1.3	1.2	1.5	1.4	1.6	1.1	1.1	1.1	2.8
60.	1.3	1.4	1.3	1.2	1.5	1.2	1.6	1.1	1.1	1.1	2.7
61.	1.3	1.4	1.3	1.1	1.5	1.2	1.6	1.1	1.1	1.1	2.7
62.	1.3	1.4	1.2	1.1	1.5	1.1	1.6	1.1	1.1	1.1	2.7
63.	1.3	1.4	1.3	1.1	1.5	1.1	1.6	1.1	1.1	1.1	2.5
64.	1.3	1.5	1.4	1.2	1.5	1.1	1.6	1.1	1.1	1.1	2.3
65.	1.3	1.4	1.4	1.2	1.6	1.1	1.5	1.1	1.1	1.1	2.3
66.	1.3	1.4	1.4	1.2	1.6	1.1	1.4	1.1	1.1	1.1	2.3
67.	1.3	1.4	1.4	1.2	1.6	1.1	1.4	1.1	1.1	1.1	2.1
68.	1.3	1.4	1.4	1.2	1.6	1.1	1.4	1.1	1.1	1.1	2.1
69.	1.3	1.3	1.4	1.2	1.6	1.1	1.4	1.1	1.1	1.1	1.9
70.	1.3	1.3	1.4	1.3	1.6	1.1	1.4	1.1	1.1	1.1	1.8
MAX	1.3	1.5	1.4	1.3	1.6	1.6	1.6	1.1	1.1	1.1	2.9
DEGR.	50	64	64	70	52	52	50	50	50	50	55

THE HIGHEST CONCENTRATION OF 2.94 PPM OCCURRED AT RECEPTOR REC11.

JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2010

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METEOROLOGICAL VARIABLES

U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 6.9 PPM

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 50.- 70.

WIND * CONCENTRATION
ANGLE * (PPM)

(DEGR) *	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11
50.	7.1	7.0	7.0	7.0	7.3	7.3	7.4	6.9	6.9	6.9	8.3
51.	7.1	7.0	7.1	7.0	7.3	7.3	7.4	6.9	6.9	6.9	8.2
52.	7.1	7.1	7.1	7.0	7.4	7.4	7.4	6.9	6.9	6.9	8.3
53.	7.1	7.1	7.1	7.0	7.4	7.4	7.4	6.9	6.9	6.9	8.6
54.	7.1	7.1	7.1	7.0	7.4	7.4	7.4	6.9	6.9	6.9	8.6
55.	7.1	7.1	7.1	7.0	7.4	7.4	7.4	6.9	6.9	6.9	8.7
56.	7.1	7.1	7.1	7.0	7.3	7.4	7.4	6.9	6.9	6.9	8.7
57.	7.1	7.1	7.1	7.0	7.3	7.4	7.4	6.9	6.9	6.9	8.6
58.	7.1	7.1	7.1	7.0	7.3	7.3	7.4	6.9	6.9	6.9	8.6
59.	7.1	7.1	7.1	7.0	7.3	7.2	7.4	6.9	6.9	6.9	8.6
60.	7.1	7.2	7.1	7.0	7.3	7.0	7.4	6.9	6.9	6.9	8.5
61.	7.1	7.2	7.1	6.9	7.3	7.0	7.4	6.9	6.9	6.9	8.5
62.	7.1	7.2	7.0	6.9	7.3	6.9	7.4	6.9	6.9	6.9	8.5
63.	7.1	7.2	7.1	6.9	7.3	6.9	7.4	6.9	6.9	6.9	8.3
64.	7.1	7.3	7.2	7.0	7.4	6.9	7.3	6.9	6.9	6.9	8.1
65.	7.1	7.2	7.2	7.0	7.4	6.9	7.3	6.9	6.9	6.9	8.1
66.	7.1	7.2	7.2	7.0	7.4	6.9	7.2	6.9	6.9	6.9	8.1
67.	7.1	7.2	7.2	7.0	7.4	6.9	7.2	6.9	6.9	6.9	7.9
68.	7.1	7.2	7.2	7.0	7.4	6.9	7.2	6.9	6.9	6.9	7.9
69.	7.1	7.1	7.2	7.0	7.4	6.9	7.2	6.9	6.9	6.9	7.7
70.	7.1	7.1	7.2	7.1	7.4	6.9	7.2	6.9	6.9	6.9	7.6
MAX	7.1	7.3	7.2	7.1	7.4	7.4	7.4	6.9	6.9	6.9	8.7
DEGR.	50	64	64	70	52	52	50	50	50	50	55

THE HIGHEST CONCENTRATION OF 8.70 PPM OCCURRED AT RECEPTOR REC11.

CAL3QHC INPUT FILE FOR NO-BUILD - 2025

'LINKS Stage I'		60.	108.	0.	0.	11	1.0	0	1
'R1-House @ SW Dana'		-8505	-4399	1.7					
'R2-House @ S Dana'		-7757	-3252	1.7					
'R3-House @ SE Dana'		-6278	-748	1.7					
'R4-House @ NE Dana'		-9158	1181	1.7					
'R5-Hyatt'		-4500	-698	1.7					
'R6-Condo on bay'		-2312	-2250	1.7					
'R7-House nr LaSalle'		4314	1204	1.7					
'R8-Business nr rmp'		3825	2475	1.7					
'R9-Airport bldg'		1359	3821	1.7					
'R10-Unknown bldg'		3881	-1395	1.7					
'R11-Tennis courts'		-1181	-1058	1.7					
'LINKS Stage I - Year 2025'		87	4	0		'C'			
1									
'Link 1'	'AG'	-8882.	-6998.	-6008.	-1896.	4468.	13.	0.	17.
1									
'Link 2'	'AG'	-9023.	-6924.	-6069.	-1811.	4048.	13.	0.	17.
1									
'Link 3'	'AG'	-5558.	-1103.	-5108.	-574.	2908.	13.	0.	13.
1									
'Link 4'	'AG'	-5108.	-574.	-4461.	-338.	2908.	13.	0.	13.
1									
'Link 5'	'AG'	-4461.	-338.	-2919.	-529.	2908.	13.	0.	13.
1									
'Link 6'	'AG'	-2919.	-529.	-844.	-788.	13215.	13.	0.	24.
1									
'Link 7'	'AG'	-844.	-788.	79.	-534.	13215.	13.	0.	24.
1									
'Link 8'	'AG'	79.	-534.	2503.	1069.	5328.	13.	0.	13.
1									
'Link 9'	'AG'	2503.	1069.	2588.	2379.	5328.	13.	0.	13.
1									
'Link 10'	'AG'	2588.	2379.	2829.	3758.	5328.	13.	0.	13.
1									
'Link 11'	'AG'	79.	-534.	2481.	1238.	7887.	13.	0.	17.
1									
'Link 12'	'AG'	2481.	1238.	4219.	1778.	7887.	13.	0.	17.
1									
'Link 13'	'AG'	4219.	1778.	6030.	1851.	7887.	13.	0.	17.
1									
'Link 14'	'AG'	6030.	1851.	6300.	1835.	13072.	13.	0.	20.
1									
'Link 15'	'AG'	-5558.	-1103.	-4609.	377.	1449.	13.	0.	13.
1									
'Link 16'	'AG'	-4905.	135.	-5141.	-191.	3091.	13.	0.	17.
1									
'Link 17'	'AG'	-4609.	377.	-3825.	253.	1449.	13.	0.	13.
1									
'Link 18'	'AG'	-9568.	3645.	-7189.	2132.	2078.	13.	0.	11.
1									
'Link 19'	'AG'	-9709.	3533.	-8027.	2559.	9578.	13.	0.	20.
1									
'Link 20'	'AG'	-8027.	2559.	-7189.	2132.	8229.	13.	0.	17.
1									
'Link 21'	'AG'	-7189.	2132.	-5726.	1553.	10307.	13.	0.	17.
1									
'Link 22'	'AG'	-5726.	1553.	-4894.	478.	10307.	13.	0.	17.
1									
'Link 23'	'AG'	-4894.	478.	-4635.	62.	10307.	13.	0.	17.
1									
'Link 24'	'AG'	-4635.	62.	-2919.	-529.	10307.	13.	0.	17.
1									
'Link 25'	'AG'	-8027.	2559.	-6638.	1800.	1349.	13.	0.	13.
1									
'Link 26'	'AG'	-6638.	1800.	-5361.	911.	1349.	13.	0.	13.
1									
'Link 27'	'AG'	-5361.	911.	-5057.	287.	1349.	13.	0.	11.
1									

'Link 28'	'AG'	-5057.	287.	-5141.	-191.	1349.	13.	0.	11.
'Link 29'	'AG'	-5141.	-191.	-6069.	-1811.	4440.	13.	0.	17.
'Link 30'	'AG'	3780.	2205.	3240.	4095.	2064.	13.	0.	11.
'Link 31'	'AG'	6030.	1986.	4292.	1963.	13201.	13.	0.	20.
'Link 32'	'AG'	4292.	1963.	2667.	2081.	5978.	13.	0.	13.
'Link 33'	'AG'	2667.	2081.	1153.	2649.	5978.	13.	0.	13.
'Link 34'	'AG'	1153.	2649.	-1153.	4016.	12204.	13.	0.	17.
'Link 35'	'AG'	4292.	1963.	2723.	1553.	7223.	13.	0.	17.
'Link 36'	'AG'	2723.	1553.	174.	-276.	7223.	13.	0.	17.
'Link 37'	'AG'	174.	-276.	-855.	-630.	13748.	13.	0.	24.
'Link 38'	'AG'	-855.	-630.	-3178.	225.	13748.	13.	0.	24.
'Link 39'	'AG'	-4646.	1086.	-6559.	2211.	12106.	13.	0.	24.
'Link 40'	'AG'	3054.	4500.	1654.	2588.	2548.	13.	0.	11.
'Link 41'	'AG'	1654.	2588.	1153.	2649.	2548.	13.	0.	11.
'Link 42'	'AG'	3054.	4500.	2087.	2807.	2351.	13.	0.	13.
'Link 43'	'AG'	2087.	2807.	1676.	1913.	2351.	13.	0.	13.
'Link 44'	'AG'	1676.	1913.	872.	371.	2351.	13.	0.	13.
'Link 45'	'AG'	872.	371.	174.	-276.	6525.	13.	0.	13.
'Link 46'	'AG'	-1451.	3645.	821.	2633.	12194.	13.	0.	17.
'Link 47'	'AG'	821.	2633.	1463.	1856.	4173.	13.	0.	11.
'Link 48'	'AG'	1463.	1856.	872.	371.	4173.	13.	0.	11.
'Link 49'	'AG'	821.	2633.	2064.	2154.	8021.	13.	0.	13.
'Link 50'	'AG'	2064.	2154.	2430.	1873.	2836.	13.	0.	11.
'Link 51'	'AG'	2430.	1873.	2211.	1378.	2836.	13.	0.	11.
'Link 52'	'BR'	2211.	1378.	1789.	1868.	2836.	13.	10.	11.
'Link 53'	'AG'	1789.	1868.	2194.	2728.	2836.	13.	0.	11.
'Link 54'	'AG'	2194.	2728.	2829.	3758.	2836.	13.	0.	11.
'Link 55'	'AG'	2829.	3758.	3105.	4264.	4486.	13.	0.	17.
'Link 56'	'AG'	2064.	2154.	2796.	1912.	5185.	13.	0.	13.
'Link 57'	'AG'	2796.	1912.	3971.	1524.	5185.	13.	0.	13.
'Link 58'	'AG'	3971.	1524.	6030.	1851.	5185.	13.	0.	13.
'Link 59'	'AG'	2588.	2379.	2908.	2751.	3678.	13.	0.	11.
'Link 60'	'BR'	2908.	2751.	3291.	2424.	3678.	13.	10.	11.
'Link 61'	'AG'	3291.	2424.	3133.	2126.	3678.	13.	0.	11.
'Link 62'	'AG'	3133.	2126.	2667.	2081.	3678.	13.	0.	11.
'Link 63'	'AG'	-6008.	-1896.	-5558.	-1103.	4357.	13.	0.	17.

1	'Link	64'	'AG'	-5878.	-1772.	-6120.	-1198.	261.	13.	0.	11.
1	'Link	65'	'AG'	-5979.	-1856.	-5636.	-1744.	819.	13.	0.	11.
1	'Link	66'	'AG'	-5664.	-1688.	-5979.	-1856.	923.	13.	10.	13.
1	'Link	67'	'AG'	-5979.	-1856.	-6227.	-1744.	49.	13.	10.	13.
1	'Link	68'	'AG'	-3178.	225.	-4646.	1086.	10657.	13.	10.	17.
1	'Link	69'	'AG'	-3178.	225.	-3926.	613.	3091.	13.	0.	17.
1	'Link	70'	'AG'	-3926.	613.	-4905.	135.	3091.	13.	0.	17.
1	'Link	71'	'AG'	-3825.	253.	-3713.	484.	1449.	13.	0.	13.
1	'Link	72'	'AG'	-3713.	484.	-4646.	1086.	1449.	13.	0.	13.
1	'Link	73'	'AG'	3105.	4264.	3600.	5090.	4486.	13.	10.	17.
1	'Link	74'	'AG'	3600.	5090.	3713.	5288.	3730.	13.	0.	13.
1	'Link	75'	'AG'	3600.	5400.	3488.	5175.	5173.	13.	0.	20.
1	'Link	76'	'AG'	3488.	5175.	3054.	4500.	4899.	13.	0.	20.
1	'Link	77'	'AG'	3240.	4095.	3656.	5119.	2064.	13.	0.	13.
2	'Link	78'	'AG'	-6018.	-1980.	-6761.	-3150.	0.	11.	3	
2	'Link	120	'AG'	2.0	4468	200.0	1900	2	3		
2	'Link	79'	'AG'	-5963.	-1811.	-5850.	-1519.	0.	4.	1	
2	'Link	120	'AG'	2.0	400	200.0	1900	2	3		
2	'Link	80'	'AG'	-6120.	-1198.	-5805.	-1283.	0.	5.	1	
2	'Link	120	'AG'	2.0	261	200.0	1900	2	3		
2	'Link	81'	'AG'	-5985.	-1761.	-5400.	-103.	0.	11.	3	
2	'Link	120	'AG'	2.0	4040	200.0	1900	2	3		
2	'Link	82'	'AG'	-5895.	-1896.	-5664.	-1688.	0.	5.	1	
2	'Link	120	'AG'	2.0	104	200.0	1900	2	3		
2	'Link	83'	'AG'	-3656.	448.	-3178.	225.	0.	11.	3	
2	'Link	140	'AG'	2.0	3091	200.0	1900	2	3		
2	'Link	84'	'AG'	-3713.	484.	-3825.	253.	0.	7.	2	
2	'Link	140	'AG'	2.0	1449	200.0	1900	2	3		
2	'Link	85'	'AG'	3572.	5006.	3105.	4264.	0.	11.	3	
2	'Link	110	'AG'	2.0	4486	200.0	1900	2	3		
2	'Link	86'	'AG'	3544.	5299.	3600.	5400.	0.	14.	4	
2	'Link	110	'AG'	2.0	5173	200.0	1900	2	3		
2	'Link	87'	'AG'	3656.	5119.	3240.	4095.	0.	5.	1	
2	'Link	110	'AG'	2.0	517	200.0	1900	2	3		
1		1		4	1000	1.14	'Y'	10	0	35	
1		1		4	1000	6.9	'Y'	10	0	35	
1		1		4	1000	1.14	'Y'	1	50	70	
1		1		4	1000	6.9	'Y'	1	50	70	

CAL3QHC OUTPUT FILE FOR NO-BUILD - 2025

CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221

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JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2025

DATE : 4/25/99
TIME : 19:30:34

The MODE flag has been set to C for calculating CO averages.

SITE & METEOROLOGICAL VARIABLES

VS = .0 CM/S VD = .0 CM/S Z0 = 108. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 1.1 PPM

LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* LENGTH (M)	BRG TYPE (DEG)	VPH	EF (G/MI)	H (M)	W (M)	V/C QUEUE (VEH)
1. Link 1	* -8882.0	-6998.0	-6008.0	-1896.0	* 5856.	29. AG	4468.	13.0	.0	17.0	
2. Link 2	* -9023.0	-6924.0	-6069.0	-1811.0	* 5905.	30. AG	4048.	13.0	.0	17.0	
3. Link 3	* -5558.0	-1103.0	-5108.0	-574.0	* 695.	40. AG	2908.	13.0	.0	13.0	
4. Link 4	* -5108.0	-574.0	-4461.0	-338.0	* 689.	70. AG	2908.	13.0	.0	13.0	
5. Link 5	* -4461.0	-338.0	-2919.0	-529.0	* 1554.	97. AG	2908.	13.0	.0	13.0	
6. Link 6	* -2919.0	-529.0	-844.0	-788.0	* 2091.	97. AG	13215.	13.0	.0	24.0	
7. Link 7	* -844.0	-788.0	79.0	-534.0	* 957.	75. AG	13215.	13.0	.0	24.0	
8. Link 8	* 79.0	-534.0	2503.0	1069.0	* 2906.	57. AG	5328.	13.0	.0	13.0	
9. Link 9	* 2503.0	1069.0	2588.0	2379.0	* 1313.	4. AG	5328.	13.0	.0	13.0	
10. Link 10	* 2588.0	2379.0	2829.0	3758.0	* 1400.	10. AG	5328.	13.0	.0	13.0	
11. Link 11	* 79.0	-534.0	2481.0	1238.0	* 2985.	54. AG	7887.	13.0	.0	17.0	
12. Link 12	* 2481.0	1238.0	4219.0	1778.0	* 1820.	73. AG	7887.	13.0	.0	17.0	
13. Link 13	* 4219.0	1778.0	6030.0	1851.0	* 1812.	88. AG	7887.	13.0	.0	17.0	
14. Link 14	* 6030.0	1851.0	6300.0	1835.0	* 270.	93. AG	13072.	13.0	.0	20.0	
15. Link 15	* -5558.0	-1103.0	-4609.0	377.0	* 1758.	33. AG	1449.	13.0	.0	13.0	
16. Link 16	* -4905.0	135.0	-5141.0	-191.0	* 402.	216. AG	3091.	13.0	.0	17.0	
17. Link 17	* -4609.0	377.0	-3825.0	253.0	* 794.	99. AG	1449.	13.0	.0	13.0	
18. Link 18	* -9568.0	3645.0	-7189.0	2132.0	* 2819.	122. AG	2078.	13.0	.0	11.0	
19. Link 19	* -9709.0	3533.0	-8027.0	2559.0	* 1944.	120. AG	9578.	13.0	.0	20.0	
20. Link 20	* -8027.0	2559.0	-7189.0	2132.0	* 941.	117. AG	8229.	13.0	.0	17.0	
21. Link 21	* -7189.0	2132.0	-5726.0	1553.0	* 1573.	112. AG	10307.	13.0	.0	17.0	
22. Link 22	* -5726.0	1553.0	-4894.0	478.0	* 1359.	142. AG	10307.	13.0	.0	17.0	
23. Link 23	* -4894.0	478.0	-4635.0	62.0	* 490.	148. AG	10307.	13.0	.0	17.0	
24. Link 24	* -4635.0	62.0	-2919.0	-529.0	* 1815.	109. AG	10307.	13.0	.0	17.0	
25. Link 25	* -8027.0	2559.0	-6638.0	1800.0	* 1583.	119. AG	1349.	13.0	.0	13.0	
26. Link 26	* -6638.0	1800.0	-5361.0	911.0	* 1556.	125. AG	1349.	13.0	.0	13.0	
27. Link 27	* -5361.0	911.0	-5057.0	287.0	* 694.	154. AG	1349.	13.0	.0	11.0	
28. Link 28	* -5057.0	287.0	-5141.0	-191.0	* 485.	190. AG	1349.	13.0	.0	11.0	
29. Link 29	* -5141.0	-191.0	-6069.0	-1811.0	* 1867.	210. AG	4440.	13.0	.0	17.0	

30. Link 30	*	3780.0	2205.0	3240.0	4095.0	*	1966.	344. AG	2064.	13.0	.0	11.0
31. Link 31	*	6030.0	1986.0	4292.0	1963.0	*	1738.	269. AG	13201.	13.0	.0	20.0
32. Link 32	*	4292.0	1963.0	2667.0	2081.0	*	1629.	274. AG	5978.	13.0	.0	13.0
33. Link 33	*	2667.0	2081.0	1153.0	2649.0	*	1617.	291. AG	5978.	13.0	.0	13.0
34. Link 34	*	1153.0	2649.0	-1153.0	4016.0	*	2681.	301. AG	12204.	13.0	.0	17.0
35. Link 35	*	4292.0	1963.0	2723.0	1553.0	*	1622.	255. AG	7223.	13.0	.0	17.0
36. Link 36	*	2723.0	1553.0	174.0	-276.0	*	3137.	234. AG	7223.	13.0	.0	17.0
37. Link 37	*	174.0	-276.0	-855.0	-630.0	*	1088.	251. AG	13748.	13.0	.0	24.0
38. Link 38	*	-855.0	-630.0	-3178.0	225.0	*	2475.	290. AG	13748.	13.0	.0	24.0
39. Link 39	*	-4646.0	1086.0	-6559.0	2211.0	*	2219.	300. AG	12106.	13.0	.0	24.0
40. Link 40	*	3054.0	4500.0	1654.0	2588.0	*	2370.	216. AG	2548.	13.0	.0	11.0
41. Link 41	*	1654.0	2588.0	1153.0	2649.0	*	505.	277. AG	2548.	13.0	.0	11.0
42. Link 42	*	3054.0	4500.0	2087.0	2807.0	*	1950.	210. AG	2351.	13.0	.0	13.0
43. Link 43	*	2087.0	2807.0	1676.0	1913.0	*	984.	205. AG	2351.	13.0	.0	13.0
44. Link 44	*	1676.0	1913.0	872.0	371.0	*	1739.	208. AG	2351.	13.0	.0	13.0

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JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2025

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LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M)				*	LENGTH (M)	BRG TYPE (DEG)	VPH	EF (G/MI)	H (M)	W (M)	V/C QUEUE (VEH)
		X1	Y1	X2	Y2								
45. Link 45	*	872.0	371.0	174.0	-276.0	*	952.	227. AG	6525.	13.0	.0	13.0	
46. Link 46	*	-1451.0	3645.0	821.0	2633.0	*	2487.	114. AG	12194.	13.0	.0	17.0	
47. Link 47	*	821.0	2633.0	1463.0	1856.0	*	1008.	140. AG	4173.	13.0	.0	11.0	
48. Link 48	*	1463.0	1856.0	872.0	371.0	*	1598.	202. AG	4173.	13.0	.0	11.0	
49. Link 49	*	821.0	2633.0	2064.0	2154.0	*	1332.	111. AG	8021.	13.0	.0	13.0	
50. Link 50	*	2064.0	2154.0	2430.0	1873.0	*	461.	128. AG	2836.	13.0	.0	11.0	
51. Link 51	*	2430.0	1873.0	2211.0	1378.0	*	541.	204. AG	2836.	13.0	.0	11.0	
52. Link 52	*	2211.0	1378.0	1789.0	1868.0	*	647.	319. BR	2836.	13.0	10.0	11.0	
53. Link 53	*	1789.0	1868.0	2194.0	2728.0	*	951.	25. AG	2836.	13.0	.0	11.0	
54. Link 54	*	2194.0	2728.0	2829.0	3758.0	*	1210.	32. AG	2836.	13.0	.0	11.0	
55. Link 55	*	2829.0	3758.0	3105.0	4264.0	*	576.	29. AG	4486.	13.0	.0	17.0	
56. Link 56	*	2064.0	2154.0	2796.0	1912.0	*	771.	108. AG	5185.	13.0	.0	13.0	
57. Link 57	*	2796.0	1912.0	3971.0	1524.0	*	1237.	108. AG	5185.	13.0	.0	13.0	
58. Link 58	*	3971.0	1524.0	6030.0	1851.0	*	2085.	81. AG	5185.	13.0	.0	13.0	
59. Link 59	*	2588.0	2379.0	2908.0	2751.0	*	491.	41. AG	3678.	13.0	.0	11.0	
60. Link 60	*	2908.0	2751.0	3291.0	2424.0	*	504.	130. BR	3678.	13.0	10.0	11.0	
61. Link 61	*	3291.0	2424.0	3133.0	2126.0	*	337.	208. AG	3678.	13.0	.0	11.0	
62. Link 62	*	3133.0	2126.0	2667.0	2081.0	*	468.	264. AG	3678.	13.0	.0	11.0	
63. Link 63	*	-6008.0	-1896.0	-5558.0	-1103.0	*	912.	30. AG	4357.	13.0	.0	17.0	
64. Link 64	*	-5878.0	-1772.0	-6120.0	-1198.0	*	623.	337. AG	261.	13.0	.0	11.0	
65. Link 65	*	-5979.0	-1856.0	-5636.0	-1744.0	*	361.	72. AG	819.	13.0	.0	11.0	
66. Link 66	*	-5664.0	-1688.0	-5979.0	-1856.0	*	357.	242. AG	923.	13.0	10.0	13.0	
67. Link 67	*	-5979.0	-1856.0	-6227.0	-1744.0	*	272.	294. AG	49.	13.0	10.0	13.0	
68. Link 68	*	-3178.0	225.0	-4646.0	1086.0	*	1702.	300. AG	10657.	13.0	10.0	17.0	

69. Link 69	*	-3178.0	225.0	-3926.0	613.0	*	843.	297. AG	3091.	13.0	.0	17.0
70. Link 70	*	-3926.0	613.0	-4905.0	135.0	*	1089.	244. AG	3091.	13.0	.0	17.0
71. Link 71	*	-3825.0	253.0	-3713.0	484.0	*	257.	26. AG	1449.	13.0	.0	13.0
72. Link 72	*	-3713.0	484.0	-4646.0	1086.0	*	1110.	303. AG	1449.	13.0	.0	13.0
73. Link 73	*	3105.0	4264.0	3600.0	5090.0	*	963.	31. AG	4486.	13.0	10.0	17.0
74. Link 74	*	3600.0	5090.0	3713.0	5288.0	*	228.	30. AG	3730.	13.0	.0	13.0
75. Link 75	*	3600.0	5400.0	3488.0	5175.0	*	251.	206. AG	5173.	13.0	.0	20.0
76. Link 76	*	3488.0	5175.0	3054.0	4500.0	*	802.	213. AG	4899.	13.0	.0	20.0
77. Link 77	*	3240.0	4095.0	3656.0	5119.0	*	1105.	22. AG	2064.	13.0	.0	13.0
78. Link 78	*	-6018.0	-1980.0	-6556.2	-2827.6	*	1004.	212. AG	536.	100.0	.0	11.0 1.24 167.3
79. Link 79	*	-5963.0	-1811.0	-5876.0	-1586.3	*	241.	21. AG	420.	100.0	.0	4.0 1.15 40.2
80. Link 80	*	-6120.0	-1198.0	-5755.2	-1296.4	*	378.	105. AG	474.	100.0	.0	5.0 1.65 63.0
81. Link 81	*	-5985.0	-1761.0	-5960.6	-1691.8	*	73.	19. AG	349.	100.0	.0	11.0 .95 12.2
82. Link 82	*	-5895.0	-1896.0	-5881.3	-1883.7	*	18.	48. AG	474.	100.0	.0	5.0 .66 3.1
83. Link 83	*	-3656.0	448.0	-3540.3	394.0	*	128.	115. AG	678.	100.0	.0	11.0 .99 21.3
84. Link 84	*	-3713.0	484.0	-3763.0	380.8	*	115.	206. AG	621.	100.0	.0	7.0 .97 19.1
85. Link 85	*	3572.0	5006.0	2750.8	3701.3	*	1542.	212. AG	673.	100.0	.0	11.0 1.44 256.9
86. Link 86	*	3544.0	5299.0	3561.8	5331.0	*	37.	29. AG	332.	100.0	.0	14.0 .84 6.1
87. Link 87	*	3656.0	5119.0	3280.9	4195.6	*	997.	202. AG	454.	100.0	.0	5.0 2.31 166.1

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JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2025

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ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	* * *	CYCLE LENGTH (SEC)	RED TIME (SEC)	CLEARANCE LOST TIME (SEC)	APPROACH VOL (VPH)	SATURATION FLOW RATE (VPH)	IDLE EM FAC (gm/hr)	SIGNAL TYPE	ARRIVAL RATE
78. Link 78	*	120	40	2.0	4468	1900	200.00	2	3
79. Link 79	*	120	94	2.0	400	1900	200.00	2	3
80. Link 80	*	120	106	2.0	261	1900	200.00	2	3
81. Link 81	*	120	26	2.0	4040	1900	200.00	2	3
82. Link 82	*	120	106	2.0	104	1900	200.00	2	3
83. Link 83	*	140	59	2.0	3091	1900	200.00	2	3
84. Link 84	*	140	81	2.0	1449	1900	200.00	2	3
85. Link 85	*	110	46	2.0	4486	1900	200.00	2	3
86. Link 86	*	110	17	2.0	5173	1900	200.00	2	3
87. Link 87	*	110	93	2.0	517	1900	200.00	2	3

RECEPTOR LOCATIONS

RECEPTOR	* * *	COORDINATES (M)			* * *
		X	Y	Z	
1. R1-House @ SW Dana	*	-8505.0	-4399.0	1.7	*
2. R2-House @ S Dana	*	-7757.0	-3252.0	1.7	*
3. R3-House @ SE Dana	*	-6278.0	-748.0	1.7	*

250.	*	1.1	1.1	1.1	1.1	1.2	1.1	1.6	1.9	1.5	1.1	1.1
260.	*	1.1	1.1	1.1	1.1	1.3	1.1	1.5	1.7	1.5	1.1	1.1
270.	*	1.1	1.1	1.1	1.1	1.3	1.1	1.4	1.8	1.4	1.1	1.1
280.	*	1.1	1.1	1.1	1.1	1.3	1.1	1.6	1.8	1.2	1.5	1.4
290.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.2	1.5	1.1	1.2	1.8
300.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.2	1.4	1.1	1.3	2.3
310.	*	1.1	1.1	1.1	1.1	1.3	1.1	1.9	1.4	1.1	1.3	2.2
320.	*	1.1	1.1	1.2	1.1	1.5	1.4	1.9	1.4	1.1	1.5	2.2
330.	*	1.1	1.1	1.2	1.1	1.7	1.3	1.8	1.4	1.1	1.1	2.1
340.	*	1.1	1.1	1.1	1.1	1.8	1.5	1.8	1.3	1.1	1.2	2.1
350.	*	1.1	1.1	1.2	1.2	1.8	1.3	1.7	1.2	1.1	1.3	2.0
-----*												
MAX	*	1.5	1.5	1.6	1.3	2.0	1.6	2.2	2.3	1.7	1.5	3.2
DEGR.	*	60	60	90	70	80	20	290	230	220	280	60

THE HIGHEST CONCENTRATION OF 3.24 PPM OCCURRED AT RECEPTOR REC11.

JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2025

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METEOROLOGICAL VARIABLES

U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 6.9 PPM

JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2025

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MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-350.

WIND ANGLE (DEGR)	* CONCENTRATION (PPM)	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11
0.	*	6.9	6.9	7.1	7.0	7.5	7.2	7.7	6.9	6.9	7.0	7.9
10.	*	6.9	6.9	7.1	7.0	7.4	7.2	7.6	6.9	6.9	7.0	8.0
20.	*	6.9	7.0	7.1	7.0	7.3	7.4	7.6	6.9	6.9	7.1	8.0
30.	*	6.9	7.0	7.1	7.0	7.3	7.2	7.6	6.9	6.9	7.0	7.8
40.	*	6.9	7.0	7.1	7.0	7.3	7.3	7.6	6.9	6.9	6.9	8.1
50.	*	7.1	7.1	7.1	7.0	7.6	7.4	7.6	6.9	6.9	6.9	8.6
60.	*	7.3	7.3	7.1	7.0	7.4	7.3	7.6	6.9	7.0	6.9	9.0
70.	*	7.1	7.2	7.3	7.1	7.5	6.9	7.3	6.9	7.0	6.9	7.9
80.	*	7.1	7.1	7.3	7.1	7.8	6.9	6.9	6.9	7.0	6.9	7.0

90.	*	7.1	7.1	7.4	7.1	7.6	6.9	6.9	6.9	7.0	6.9	6.9
100.	*	7.1	7.1	7.1	7.0	7.0	6.9	6.9	7.2	7.0	6.9	6.9
110.	*	7.1	7.1	7.0	6.9	6.9	6.9	6.9	7.6	7.1	6.9	6.9
120.	*	7.1	7.1	7.1	6.9	6.9	6.9	6.9	7.6	7.2	6.9	6.9
130.	*	7.1	7.1	7.1	6.9	6.9	6.9	6.9	7.5	7.3	6.9	6.9
140.	*	7.1	7.1	7.2	6.9	6.9	6.9	6.9	7.6	7.1	6.9	6.9
150.	*	7.1	7.1	7.2	6.9	6.9	6.9	6.9	7.6	7.3	6.9	6.9
160.	*	7.1	7.1	7.2	6.9	6.9	6.9	6.9	7.5	7.2	6.9	6.9
170.	*	7.1	7.1	7.1	6.9	6.9	6.9	6.9	7.5	7.3	6.9	6.9
180.	*	7.1	7.1	7.2	6.9	6.9	6.9	6.9	7.6	7.4	6.9	6.9
190.	*	7.0	7.1	7.1	6.9	6.9	6.9	6.9	7.7	7.4	6.9	6.9
200.	*	6.9	7.0	7.1	6.9	6.9	6.9	6.9	7.7	7.4	6.9	6.9
210.	*	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.8	7.4	6.9	6.9
220.	*	6.9	6.9	6.9	6.9	7.1	6.9	6.9	8.0	7.5	6.9	6.9
230.	*	6.9	6.9	6.9	6.9	7.2	6.9	6.9	8.1	7.3	6.9	6.9
240.	*	6.9	6.9	6.9	6.9	7.1	6.9	6.9	7.9	7.3	6.9	6.9
250.	*	6.9	6.9	6.9	6.9	7.0	6.9	7.4	7.7	7.3	6.9	6.9
260.	*	6.9	6.9	6.9	6.9	7.1	6.9	7.3	7.5	7.3	6.9	6.9
270.	*	6.9	6.9	6.9	6.9	7.1	6.9	7.2	7.6	7.2	6.9	6.9
280.	*	6.9	6.9	6.9	6.9	7.1	6.9	7.4	7.6	7.0	7.3	7.2
290.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.0	7.3	6.9	7.0	7.6
300.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.0	7.2	6.9	7.1	8.1
310.	*	6.9	6.9	6.9	6.9	7.1	6.9	7.7	7.2	6.9	7.1	8.0
320.	*	6.9	6.9	7.0	6.9	7.3	7.2	7.7	7.2	6.9	7.3	8.0
330.	*	6.9	6.9	7.0	6.9	7.5	7.1	7.6	7.2	6.9	6.9	7.9
340.	*	6.9	6.9	6.9	6.9	7.6	7.3	7.6	7.1	6.9	7.0	7.9
350.	*	6.9	6.9	7.0	7.0	7.6	7.1	7.5	7.0	6.9	7.1	7.8

MAX	*	7.3	7.3	7.4	7.1	7.8	7.4	8.0	8.1	7.5	7.3	9.0
DEGR.	*	60	60	90	70	80	20	290	230	220	280	60

THE HIGHEST CONCENTRATION OF 9.00 PPM OCCURRED AT RECEPTOR REC11.

JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2025

PAGE 7

METEOROLOGICAL VARIABLES

U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 1.1 PPM

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 50.- 70.

(DEGR) *	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11
50.	* 7.1	7.1	7.1	7.0	7.6	7.4	7.6	6.9	6.9	6.9	8.6
51.	* 7.1	7.1	7.1	7.0	7.6	7.4	7.6	6.9	6.9	6.9	8.6
52.	* 7.1	7.2	7.1	7.0	7.6	7.4	7.6	6.9	6.9	6.9	8.8
53.	* 7.1	7.2	7.1	7.0	7.6	7.4	7.6	6.9	6.9	6.9	8.9
54.	* 7.1	7.3	7.1	7.0	7.4	7.4	7.6	6.9	6.9	6.9	8.8
55.	* 7.2	7.3	7.2	7.0	7.4	7.4	7.6	6.9	6.9	6.9	9.0
56.	* 7.2	7.4	7.2	7.0	7.4	7.4	7.6	6.9	6.9	6.9	9.0
57.	* 7.2	7.3	7.2	7.0	7.4	7.4	7.6	6.9	6.9	6.9	8.9
58.	* 7.2	7.3	7.2	7.0	7.4	7.4	7.6	6.9	6.9	6.9	8.9
59.	* 7.2	7.3	7.1	7.0	7.3	7.3	7.6	6.9	6.9	6.9	9.0
60.	* 7.3	7.3	7.1	7.0	7.4	7.3	7.6	6.9	7.0	6.9	9.0
61.	* 7.2	7.4	7.2	7.0	7.4	7.1	7.6	6.9	7.0	6.9	9.0
62.	* 7.1	7.4	7.2	7.1	7.5	7.0	7.5	6.9	7.0	6.9	8.9
63.	* 7.1	7.4	7.3	7.1	7.5	6.9	7.5	6.9	7.1	6.9	8.8
64.	* 7.1	7.4	7.3	7.1	7.5	6.9	7.5	6.9	7.0	6.9	8.8
65.	* 7.1	7.4	7.2	7.0	7.5	6.9	7.5	6.9	7.1	6.9	8.4
66.	* 7.1	7.4	7.2	7.0	7.5	6.9	7.5	6.9	7.1	6.9	8.4
67.	* 7.1	7.4	7.2	7.0	7.5	6.9	7.6	6.9	7.1	6.9	8.1
68.	* 7.1	7.3	7.2	7.1	7.5	6.9	7.3	6.9	7.1	6.9	8.0
69.	* 7.1	7.3	7.2	7.1	7.5	6.9	7.3	6.9	7.1	6.9	8.0
70.	* 7.1	7.2	7.3	7.1	7.5	6.9	7.3	6.9	7.0	6.9	7.9
MAX	* 7.3	7.4	7.3	7.1	7.6	7.4	7.6	6.9	7.1	6.9	9.0
DEGR.	* 60	56	63	62	50	50	50	50	63	50	55

THE HIGHEST CONCENTRATION OF 9.00 PPM OCCURRED AT RECEPTOR REC11.

CAL3QHC INPUT FILE FOR BUILD - 2010

'LINKS Stage I'	60.	108.	0.	0.	11	1.0	0	1	
'R1-House @ SW Dana'	-10238	-4050	1.7						
'R2-House @ S Dana'	-9450	-2817	1.7						
'R3-House @ SE Dana'	-7992	-675	1.7						
'R4-House @ NE Dana'	-10854	1575	1.7						
'R5-Hyatt'	-6192	-342	1.7						
'R6-Condo on bay'	-3996	-1854	1.7						
'R7-House nr Lasalle'	2700	1629	1.7						
'R8-Business nr rmp'	2142	3150	1.7						
'R9-Airport bldg'	-279	4329	1.7						
'R10-Unknown bldg'	2250	-1017	1.7						
'R11-Remnis courts'	-3504	-675	1.7						
'LINKS Stage I - Year 2010'	115	4	0	'C'					
'Link 1'	'AG'	-10800.	-6525.	-10012.	-5220.	4137.	13.	0.	20.
'Link 2'	'AG'	-10012.	-5220.	-9675.	-4680.	4060.	13.	0.	20.
'Link 3'	'AG'	-10012.	-5220.	-9504.	-4950.	150.	13.	0.	12.
'Link 4'	'AG'	-9675.	-4680.	-9504.	-4950.	73.	13.	0.	11.
'Link 5'	'AG'	-9675.	-4680.	-7992.	-1404.	4060.	13.	0.	20.
'Link 6'	'AG'	-9504.	-4950.	-9270.	-4842.	223.	13.	0.	14.
'Link 7'	'AG'	-9270.	-4842.	-9279.	-4167.	223.	13.	0.	14.
'Link 8'	'AG'	-9279.	-4167.	-7767.	-1575.	223.	13.	0.	14.
'Link 9'	'AG'	-9306.	-3717.	-10908.	-6246.	3705.	13.	0.	17.
'Link 10'	'AG'	-9309.	-2855.	-9306.	-3717.	12.	13.	0.	11.
'Link 11'	'AG'	-8837.	-2942.	-9306.	-3717.	3705.	13.	0.	17.
'Link 12'	'AG'	-8837.	-2942.	-9113.	-3122.	375.	13.	0.	11.
'Link 13'	'AG'	-9113.	-3122.	-9309.	-2855.	375.	13.	0.	11.
'Link 14'	'AG'	-9309.	-2855.	-7869.	-591.	387.	13.	0.	14.
'Link 15'	'AG'	-7509.	-338.	-8837.	-2942.	4068.	13.	0.	20.
'Link 16'	'AG'	-7639.	1125.	-7509.	-338.	1240.	13.	0.	13.
'Link 17'	'AG'	-6458.	956.	-7509.	-338.	2828.	13.	0.	17.
'Link 18'	'AG'	-8814.	2475.	-7639.	1125.	1240.	13.	0.	13.
'Link 19'	'AG'	-9563.	2869.	-8814.	2475.	7195.	13.	0.	24.
'Link 20'	'AG'	-8814.	2475.	-8460.	2250.	5955.	13.	0.	20.
'Link 21'	'AG'	-9011.	2703.	-8460.	2250.	1893.	13.	0.	13.
'Link 22'	'AG'	-10913.	3864.	-9011.	2703.	1893.	13.	0.	13.
'Link 23'	'BR'	-8460.	2250.	-6266.	281.	7848.	13.	0.	20.
'Link 24'	'AG'	-6266.	281.	-5063.	225.	7848.	13.	0.	20.
'Link 25'	'AG'	-5063.	225.	-3330.	-399.	10584.	13.	0.	30.
'Link 26'	'AG'	-7992.	-1404.	-7245.	-450.	2736.	13.	0.	13.
'Link 27'	'AG'	-7245.	-450.	-6469.	-62.	2120.	13.	0.	13.

'Link 28'	'AG'	-6469.	-62.	-5063.	225.	2120.	13.	0.	-13.
'Link 29'	'AG'	-7245.	-450.	-6474.	124.	616.	13.	0.	11.
'Link 30'	'AG'	-3330.	-399.	-2042.	-450.	10584.	13.	0.	30.
'Link 31'	'AG'	-6474.	124.	-5603.	225.	616.	13.	0.	11.
'Link 32'	'AG'	-5603.	225.	-3330.	-399.	616.	13.	0.	11.
'Link 33'	'AG'	-7992.	-1404.	-6919.	602.	1324.	13.	0.	13.
'Link 34'	'AG'	-6919.	602.	-7403.	1974.	1324.	13.	0.	13.
'Link 35'	'AG'	-7403.	1974.	-7774.	2385.	1324.	13.	0.	13.
'Link 36'	'AG'	-7774.	2385.	-10018.	3713.	5755.	13.	0.	24.
'Link 37'	'AG'	-6458.	956.	-5642.	608.	1358.	13.	0.	11.
'Link 38'	'AG'	-5642.	608.	-3846.	-118.	1358.	13.	0.	11.
'Link 39'	'AG'	-5659.	996.	-6458.	956.	1470.	13.	0.	13.
'Link 40'	'AG'	-4129.	225.	-5659.	996.	1470.	13.	0.	13.
'Link 41'	'AG'	-6570.	903.	-11700.	4483.	3606.	13.	0.	20.
'Link 42'	'BR'	-3846.	-118.	-6570.	903.	3606.	13.	10.	20.
'Link 43'	'AG'	-4129.	225.	-7774.	2385.	4431.	13.	0.	20.
'Link 44'	'AG'	-2042.	-450.	0.	113.	2004.	13.	0.	13.
'Link 45'	'AG'	0.	113.	827.	304.	637.	13.	0.	10.
'Link 46'	'AG'	827.	304.	3549.	-1181.	637.	13.	0.	10.
'Link 47'	'AG'	3549.	-1181.	1305.	270.	87.	13.	0.	10.
'Link 48'	'AG'	1305.	270.	1350.	731.	87.	13.	0.	10.
'Link 49'	'AG'	1350.	731.	1553.	1766.	1645.	13.	0.	13.
'Link 50'	'AG'	0.	113.	1086.	726.	1367.	13.	0.	13.
'Link 51'	'AG'	1086.	726.	1553.	1766.	1367.	13.	0.	13.
'Link 52'	'BR'	1553.	1766.	1479.	2756.	3012.	13.	10.	20.
'Link 53'	'AG'	1350.	3673.	1530.	4849.	3012.	13.	0.	20.
'Link 54'	'AG'	-2042.	-450.	-653.	51.	8580.	13.	0.	24.
'Link 55'	'AG'	-653.	51.	1125.	1221.	6489.	13.	0.	17.
'Link 56'	'AG'	1125.	1221.	1682.	1693.	6489.	13.	0.	17.
'Link 57'	'AG'	1682.	1693.	3088.	2188.	6489.	13.	0.	17.
'Link 58'	'AG'	3088.	2188.	4388.	2256.	6489.	13.	0.	17.
'Link 59'	'AG'	4388.	2256.	5484.	2301.	9515.	13.	0.	24.
'Link 60'	'BR'	1361.	3510.	1350.	3673.	3012.	13.	10.	20.
'Link 61'	'AG'	1479.	2756.	1361.	3510.	3012.	13.	0.	20.
'Link 62'	'AG'	1323.	253.	1350.	731.	1558.	13.	0.	11.
'Link 63'	'AG'	1997.	56.	1323.	253.	1558.	13.	0.	11.

1	'Link 64'	'AG'	2323.	298.	1997.	56.	1558.	13.	0.	11.
1	'Link 65'	'AG'	2402.	1136.	2323.	298.	1558.	13.	0.	13.
1	'Link 66'	'BR'	1761.	1839.	2402.	1136.	1558.	13.	10.	13.
1	'Link 67'	'BR'	197.	2588.	1761.	1839.	1558.	13.	10.	13.
1	'Link 68'	'BR'	197.	2588.	2419.	2952.	3026.	13.	10.	16.
1	'Link 69'	'AG'	2419.	2952.	4388.	2256.	3026.	13.	0.	16.
1	'Link 70'	'AG'	-2250.	3662.	197.	2588.	4584.	13.	0.	20.
1	'Link 71'	'AG'	-5079.	5085.	-2250.	3662.	6903.	13.	0.	20.
1	'Link 72'	'AG'	-2250.	3662.	-1024.	2981.	5106.	13.	0.	13.
1	'Link 73'	'BR'	-1024.	2981.	-506.	2649.	1797.	13.	10.	11.
1	'Link 74'	'AG'	-506.	2649.	-152.	1991.	1797.	13.	0.	11.
1	'Link 75'	'AG'	-152.	1991.	-394.	1018.	1797.	13.	0.	11.
1	'Link 76'	'AG'	-394.	1018.	-1311.	113.	3187.	13.	0.	17.
1	'Link 77'	'AG'	-1311.	113.	-4129.	225.	5901.	13.	0.	24.
1	'Link 78'	'AG'	-1024.	2981.	394.	2031.	522.	13.	0.	11.
1	'Link 79'	'AG'	394.	2031.	90.	1001.	522.	13.	0.	11.
1	'Link 80'	'AG'	90.	1001.	-1311.	113.	2714.	13.	0.	17.
1	'Link 81'	'AG'	686.	2048.	90.	1001.	2192.	13.	0.	13.
1	'Link 82'	'AG'	939.	3600.	686.	2048.	2192.	13.	0.	13.
1	'Link 83'	'AG'	1254.	4669.	939.	3600.	2192.	13.	0.	13.
1	'Link 84'	'AG'	1693.	5405.	1254.	4669.	3622.	13.	0.	17.
1	'Link 85'	'AG'	1254.	4669.	0.	3336.	1430.	13.	0.	11.
1	'Link 86'	'AG'	0.	3336.	-838.	3358.	1430.	13.	0.	11.
1	'Link 87'	'AG'	-838.	3358.	-2334.	4253.	3521.	13.	0.	13.
1	'Link 88'	'AG'	-2334.	4253.	-3600.	4748.	3521.	13.	0.	13.
1	'Link 89'	'AG'	-3600.	4748.	-4899.	5304.	6916.	13.	0.	17.
1	'Link 90'	'AG'	-956.	3319.	-3600.	4748.	3395.	13.	0.	17.
1	'Link 91'	'AG'	1744.	2610.	-956.	3319.	3395.	13.	0.	17.
1	'Link 92'	'AG'	3054.	2498.	1744.	2610.	3517.	13.	0.	17.
1	'Link 93'	'AG'	4185.	2453.	3054.	2498.	4907.	13.	0.	17.
1	'Link 94'	'AG'	5558.	2419.	4185.	2453.	9871.	13.	0.	24.
1	'Link 95'	'BR'	197.	2588.	2402.	1856.	3026.	13.	10.	16.
1	'Link 96'	'AG'	2402.	1856.	4388.	2256.	3026.	13.	0.	16.
1	'Link 97'	'AG'	4185.	2453.	2385.	2222.	4964.	13.	0.	17.
1	'Link 98'	'AG'	2385.	2222.	855.	1519.	4964.	13.	0.	17.

'Link	99'	'AG'	855.	1519.	-619.	309.	4964.	13.	0.	17.
1										
'Link	100'	'AG'	-619.	309.	-1800.	-169.	4964.	13.	0.	17.
1										
'Link	101'	'AG'	-1800.	-169.	-3846.	-118.	4964.	13.	0.	17.
1										
'Link	102'	'AG'	-394.	1018.	754.	2464.	1390.	13.	0.	13.
1										
'Link	103'	'AG'	754.	2464.	3054.	2498.	1390.	13.	0.	13.
1										
'Link	104'	'AG'	1744.	2610.	984.	3077.	122.	13.	0.	11.
1										
'Link	105'	'AG'	984.	3077.	1575.	3656.	122.	13.	0.	11.
1										
'Link	106'	'AG'	5794.	2644.	2166.	2756.	731.	13.	0.	13.
1										
'Link	107'	'AG'	2166.	2756.	1575.	3656.	731.	13.	0.	13.
1										
'Link	108'	'AG'	1575.	3656.	1581.	4629.	609.	13.	0.	13.
1										
'Link	109'	'AG'	1581.	4629.	1997.	5518.	609.	13.	0.	13.
1										
'Link	110'	'AG'	2053.	6002.	1828.	5625.	3801.	13.	0.	17.
1										
'Link	111'	'AG'	1530.	4849.	1912.	5558.	3012.	13.	0.	20.
1										
'Link	112'	'AG''	1912.	5558.	2149.	5940.	3095.	13.	0.	17.
2										
'Link	113'	'AG'	1997.	5518.	1581.	4629.	0.	5.	1	
2	110	93	2.0	213	202.0	1900	2	3		
'Link	114'	'AG'	1856.	5681.	2053.	6002.	0.	11.	3	
2	110	17	2.0	3801	202.0	1900	2	3		
'Link	115'	'AG'	1879.	5456.	1530.	4849.	0.	14.	4	
1	110	45	2.0	3012	202.0	1900	2	3		
1	1	0	4	1000	1.14	'Y'	10	0	35	
1	1	0	4	1000	6.9	'Y'	10	0	35	
1	1	0	4	1000	1.14	'Y'	1	50	70	
1	1	0	4	1000	6.9	'Y'	1	50	70	

CAL3QHC OUTPUT FILE FOR BUILD - 2010

CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221

PAGE 1

JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2010

DATE : 4/25/99
TIME : 15:48:32

The MODE flag has been set to C for calculating CO averages.

SITE & METEOROLOGICAL VARIABLES

VS = .0 CM/S VD = .0 CM/S Z0 = 108. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 1.1 PPM

LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* LENGTH (M)	BRG TYPE (DEG)	VPH	EF (G/MI)	H (M)	W (M)	V/C QUEUE (VEH)
1. Link 1	* -10800.0	-6525.0	-10012.0	-5220.0	* 1524.	31. AG	4137.	13.0	.0	20.0	
2. Link 2	* -10012.0	-5220.0	-9675.0	-4680.0	* 637.	32. AG	4060.	13.0	.0	20.0	
3. Link 3	* -10012.0	-5220.0	-9504.0	-4950.0	* 575.	62. AG	150.	13.0	.0	12.0	
4. Link 4	* -9675.0	-4680.0	-9504.0	-4950.0	* 320.	148. AG	73.	13.0	.0	11.0	
5. Link 5	* -9675.0	-4680.0	-7992.0	-1404.0	* 3683.	27. AG	4060.	13.0	.0	20.0	
6. Link 6	* -9504.0	-4950.0	-9270.0	-4842.0	* 258.	65. AG	223.	13.0	.0	14.0	
7. Link 7	* -9270.0	-4842.0	-9279.0	-4167.0	* 675.	359. AG	223.	13.0	.0	14.0	
8. Link 8	* -9279.0	-4167.0	-7767.0	-1575.0	* 3001.	30. AG	223.	13.0	.0	14.0	
9. Link 9	* -9306.0	-3717.0	-10908.0	-6246.0	* 2994.	212. AG	3705.	13.0	.0	17.0	
10. Link 10	* -9309.0	-2855.0	-9306.0	-3717.0	* 862.	180. AG	12.	13.0	.0	11.0	
11. Link 11	* -8837.0	-2942.0	-9306.0	-3717.0	* 906.	211. AG	3705.	13.0	.0	17.0	
12. Link 12	* -8837.0	-2942.0	-9113.0	-3122.0	* 330.	237. AG	375.	13.0	.0	11.0	
13. Link 13	* -9113.0	-3122.0	-9309.0	-2855.0	* 331.	324. AG	375.	13.0	.0	11.0	
14. Link 14	* -9309.0	-2855.0	-7869.0	-591.0	* 2683.	32. AG	387.	13.0	.0	14.0	
15. Link 15	* -7509.0	-338.0	-8837.0	-2942.0	* 2923.	207. AG	4068.	13.0	.0	20.0	
16. Link 16	* -7639.0	1125.0	-7509.0	-338.0	* 1469.	175. AG	1240.	13.0	.0	13.0	
17. Link 17	* -6458.0	956.0	-7509.0	-338.0	* 1667.	219. AG	2828.	13.0	.0	17.0	
18. Link 18	* -8814.0	2475.0	-7639.0	1125.0	* 1790.	139. AG	1240.	13.0	.0	13.0	
19. Link 19	* -9563.0	2869.0	-8814.0	2475.0	* 846.	118. AG	7195.	13.0	.0	24.0	
20. Link 20	* -8814.0	2475.0	-8460.0	2250.0	* 419.	122. AG	5955.	13.0	.0	20.0	
21. Link 21	* -9011.0	2703.0	-8460.0	2250.0	* 713.	129. AG	1893.	13.0	.0	13.0	
22. Link 22	* -10913.0	3864.0	-9011.0	2703.0	* 2228.	121. AG	1893.	13.0	.0	13.0	
23. Link 23	* -8460.0	2250.0	-6266.0	281.0	* 2948.	132. BR	7848.	13.0	.0	20.0	
24. Link 24	* -6266.0	281.0	-5063.0	225.0	* 1204.	93. AG	7848.	13.0	.0	20.0	
25. Link 25	* -5063.0	225.0	-3330.0	-399.0	* 1842.	110. AG	10584.	13.0	.0	30.0	
26. Link 26	* -7992.0	-1404.0	-7245.0	-450.0	* 1212.	38. AG	2736.	13.0	.0	13.0	
27. Link 27	* -7245.0	-450.0	-6469.0	-62.0	* 868.	63. AG	2120.	13.0	.0	13.0	
28. Link 28	* -6469.0	-62.0	-5063.0	225.0	* 1435.	78. AG	2120.	13.0	.0	13.0	
29. Link 29	* -7245.0	-450.0	-6474.0	124.0	* 961.	53. AG	616.	13.0	.0	11.0	

30. Link 30	*	-3330.0	-399.0	-2042.0	-450.0	*	1289.	92. AG	10584.	13.0	.0	30.0
31. Link 31	*	-6474.0	124.0	-5603.0	225.0	*	877.	83. AG	616.	13.0	.0	11.0
32. Link 32	*	-5603.0	225.0	-3330.0	-399.0	*	2357.	105. AG	616.	13.0	.0	11.0
33. Link 33	*	-7992.0	-1404.0	-6919.0	602.0	*	2275.	28. AG	1324.	13.0	.0	13.0
34. Link 34	*	-6919.0	602.0	-7403.0	1974.0	*	1455.	341. AG	1324.	13.0	.0	13.0
35. Link 35	*	-7403.0	1974.0	-7774.0	2385.0	*	554.	318. AG	1324.	13.0	.0	13.0
36. Link 36	*	-7774.0	2385.0	-10018.0	3713.0	*	2608.	301. AG	5755.	13.0	.0	24.0
37. Link 37	*	-6458.0	956.0	-5642.0	608.0	*	887.	113. AG	1358.	13.0	.0	11.0
38. Link 38	*	-5642.0	608.0	-3846.0	-118.0	*	1937.	112. AG	1358.	13.0	.0	11.0
39. Link 39	*	-5659.0	996.0	-6458.0	956.0	*	800.	267. AG	1470.	13.0	.0	13.0
40. Link 40	*	-4129.0	225.0	-5659.0	996.0	*	1713.	297. AG	1470.	13.0	.0	13.0
41. Link 41	*	-6570.0	903.0	-11700.0	4483.0	*	6256.	305. AG	3606.	13.0	.0	20.0
42. Link 42	*	-3846.0	-118.0	-6570.0	903.0	*	2909.	291. BR	3606.	13.0	10.0	20.0
43. Link 43	*	-4129.0	225.0	-7774.0	2385.0	*	4237.	301. AG	4431.	13.0	.0	20.0
44. Link 44	*	-2042.0	-450.0	.0	113.0	*	2118.	75. AG	2004.	13.0	.0	13.0

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JOB: LINKS Stage I

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LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M)				*	LENGTH (M)	BRG TYPE (DEG)	VPH	EF (G/MI)	H (M)	W (M)	V/C QUEUE (VEH)
		X1	Y1	X2	Y2								
45. Link 45	*	.0	113.0	827.0	304.0	*	849.	77. AG	637.	13.0	.0	10.0	
46. Link 46	*	827.0	304.0	3549.0	-1181.0	*	3101.	119. AG	637.	13.0	.0	10.0	
47. Link 47	*	3549.0	-1181.0	1305.0	270.0	*	2672.	303. AG	87.	13.0	.0	10.0	
48. Link 48	*	1305.0	270.0	1350.0	731.0	*	463.	6. AG	87.	13.0	.0	10.0	
49. Link 49	*	1350.0	731.0	1553.0	1766.0	*	1055.	11. AG	1645.	13.0	.0	13.0	
50. Link 50	*	.0	113.0	1086.0	726.0	*	1247.	61. AG	1367.	13.0	.0	13.0	
51. Link 51	*	1086.0	726.0	1553.0	1766.0	*	1140.	24. AG	1367.	13.0	.0	13.0	
52. Link 52	*	1553.0	1766.0	1479.0	2756.0	*	993.	356. BR	3012.	13.0	10.0	20.0	
53. Link 53	*	1350.0	3673.0	1530.0	4849.0	*	1190.	9. AG	3012.	13.0	.0	20.0	
54. Link 54	*	-2042.0	-450.0	-653.0	51.0	*	1477.	70. AG	8580.	13.0	.0	24.0	
55. Link 55	*	-653.0	51.0	1125.0	1221.0	*	2128.	57. AG	6489.	13.0	.0	17.0	
56. Link 56	*	1125.0	1221.0	1682.0	1693.0	*	730.	50. AG	6489.	13.0	.0	17.0	
57. Link 57	*	1682.0	1693.0	3088.0	2188.0	*	1491.	71. AG	6489.	13.0	.0	17.0	
58. Link 58	*	3088.0	2188.0	4388.0	2256.0	*	1302.	87. AG	6489.	13.0	.0	17.0	
59. Link 59	*	4388.0	2256.0	5484.0	2301.0	*	1097.	88. AG	9515.	13.0	.0	24.0	
60. Link 60	*	1361.0	3510.0	1350.0	3673.0	*	163.	356. BR	3012.	13.0	10.0	20.0	
61. Link 61	*	1479.0	2756.0	1361.0	3510.0	*	763.	351. AG	3012.	13.0	.0	20.0	
62. Link 62	*	1323.0	253.0	1350.0	731.0	*	479.	3. AG	1558.	13.0	.0	11.0	
63. Link 63	*	1997.0	56.0	1323.0	253.0	*	702.	286. AG	1558.	13.0	.0	11.0	
64. Link 64	*	2323.0	298.0	1997.0	56.0	*	406.	233. AG	1558.	13.0	.0	11.0	
65. Link 65	*	2402.0	1136.0	2323.0	298.0	*	842.	185. AG	1558.	13.0	.0	13.0	
66. Link 66	*	1761.0	1839.0	2402.0	1136.0	*	951.	138. BR	1558.	13.0	10.0	13.0	
67. Link 67	*	197.0	2588.0	1761.0	1839.0	*	1734.	116. BR	1558.	13.0	10.0	13.0	
68. Link 68	*	197.0	2588.0	2419.0	2952.0	*	2252.	81. BR	3026.	13.0	10.0	16.0	

69. Link 69	*	2419.0	2952.0	4388.0	2256.0	*	2088.	109. AG	3026.	13.0	.0	16.0
70. Link 70	*	-2250.0	3662.0	197.0	2588.0	*	2672.	114. AG	4584.	13.0	.0	20.0
71. Link 71	*	-5079.0	5085.0	-2250.0	3662.0	*	3167.	117. AG	6903.	13.0	.0	20.0
72. Link 72	*	-2250.0	3662.0	-1024.0	2981.0	*	1402.	119. AG	5106.	13.0	.0	13.0
73. Link 73	*	-1024.0	2981.0	-506.0	2649.0	*	615.	123. BR	1797.	13.0	10.0	11.0
74. Link 74	*	-506.0	2649.0	-152.0	1991.0	*	747.	152. AG	1797.	13.0	.0	11.0
75. Link 75	*	-152.0	1991.0	-394.0	1018.0	*	1003.	194. AG	1797.	13.0	.0	11.0
76. Link 76	*	-394.0	1018.0	-1311.0	113.0	*	1288.	225. AG	3187.	13.0	.0	17.0
77. Link 77	*	-1311.0	113.0	-4129.0	225.0	*	2820.	272. AG	5901.	13.0	.0	24.0
78. Link 78	*	-1024.0	2981.0	394.0	2031.0	*	1707.	124. AG	522.	13.0	.0	11.0
79. Link 79	*	394.0	2031.0	90.0	1001.0	*	1074.	196. AG	522.	13.0	.0	11.0
80. Link 80	*	90.0	1001.0	-1311.0	113.0	*	1659.	238. AG	2714.	13.0	.0	17.0
81. Link 81	*	686.0	2048.0	90.0	1001.0	*	1205.	210. AG	2192.	13.0	.0	13.0
82. Link 82	*	939.0	3600.0	686.0	2048.0	*	1572.	189. AG	2192.	13.0	.0	13.0
83. Link 83	*	1254.0	4669.0	939.0	3600.0	*	1114.	196. AG	2192.	13.0	.0	13.0
84. Link 84	*	1693.0	5405.0	1254.0	4669.0	*	857.	211. AG	3622.	13.0	.0	17.0
85. Link 85	*	1254.0	4669.0	.0	3336.0	*	1830.	223. AG	1430.	13.0	.0	11.0
86. Link 86	*	.0	3336.0	-838.0	3358.0	*	838.	272. AG	1430.	13.0	.0	11.0
87. Link 87	*	-838.0	3358.0	-2334.0	4253.0	*	1743.	301. AG	3521.	13.0	.0	13.0
88. Link 88	*	-2334.0	4253.0	-3600.0	4748.0	*	1359.	291. AG	3521.	13.0	.0	13.0
89. Link 89	*	-3600.0	4748.0	-4899.0	5304.0	*	1413.	293. AG	6916.	13.0	.0	17.0
90. Link 90	*	-956.0	3319.0	-3600.0	4748.0	*	3005.	298. AG	3395.	13.0	.0	17.0
91. Link 91	*	1744.0	2610.0	-956.0	3319.0	*	2792.	285. AG	3395.	13.0	.0	17.0
92. Link 92	*	3054.0	2498.0	1744.0	2610.0	*	1315.	275. AG	3517.	13.0	.0	17.0
93. Link 93	*	4185.0	2453.0	3054.0	2498.0	*	1132.	272. AG	4907.	13.0	.0	17.0
94. Link 94	*	5558.0	2419.0	4185.0	2453.0	*	1373.	271. AG	9871.	13.0	.0	24.0
95. Link 95	*	197.0	2588.0	2402.0	1856.0	*	2323.	108. BR	3026.	13.0	10.0	16.0

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JOB: LINKS Stage I

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LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M)				*	LENGTH	BRG TYPE	VPH	EF	H	W	V/C QUEUE
	*	X1	Y1	X2	Y2	*	(M)	(DEG)		(G/MI)	(M)	(M)	(VEH)
96. Link 96	*	2402.0	1856.0	4388.0	2256.0	*	2026.	79. AG	3026.	13.0	.0	16.0	
97. Link 97	*	4185.0	2453.0	2385.0	2222.0	*	1815.	263. AG	4964.	13.0	.0	17.0	
98. Link 98	*	2385.0	2222.0	855.0	1519.0	*	1684.	245. AG	4964.	13.0	.0	17.0	
99. Link 99	*	855.0	1519.0	-619.0	309.0	*	1907.	231. AG	4964.	13.0	.0	17.0	
100. Link 100	*	-619.0	309.0	-1800.0	-169.0	*	1274.	248. AG	4964.	13.0	.0	17.0	
101. Link 101	*	-1800.0	-169.0	-3846.0	-118.0	*	2047.	271. AG	4964.	13.0	.0	17.0	
102. Link 102	*	-394.0	1018.0	754.0	2464.0	*	1846.	38. AG	1390.	13.0	.0	13.0	
103. Link 103	*	754.0	2464.0	3054.0	2498.0	*	2300.	89. AG	1390.	13.0	.0	13.0	
104. Link 104	*	1744.0	2610.0	984.0	3077.0	*	892.	302. AG	122.	13.0	.0	11.0	
105. Link 105	*	984.0	3077.0	1575.0	3656.0	*	827.	46. AG	122.	13.0	.0	11.0	
106. Link 106	*	5794.0	2644.0	2166.0	2756.0	*	3630.	272. AG	731.	13.0	.0	13.0	
107. Link 107	*	2166.0	2756.0	1575.0	3656.0	*	1077.	327. AG	731.	13.0	.0	13.0	

108. Link 108	*	1575.0	3656.0	1581.0	4629.0	*	973.	0. AG	609.	13.0	.0	13.0		
109. Link 109	*	1581.0	4629.0	1997.0	5518.0	*	982.	25. AG	609.	13.0	.0	13.0		
110. Link 110	*	2053.0	6002.0	1828.0	5625.0	*	439.	211. AG	3801.	13.0	.0	17.0		
111. Link 111	*	1530.0	4849.0	1912.0	5558.0	*	805.	28. AG	3012.	13.0	.0	20.0		
112. Link 112	*	1912.0	5558.0	2149.0	5940.0	*	450.	32. AG	3095.	13.0	.0	17.0		
113. Link 113	*	1997.0	5518.0	1978.6	5478.6	*	44.	205. AG	458.	100.0	.0	5.0	.95	7.3
114. Link 114	*	1856.0	5681.0	1874.8	5711.6	*	36.	32. AG	251.	100.0	.0	11.0	.82	6.0
115. Link 115	*	1879.0	5456.0	1850.9	5407.0	*	56.	210. AG	887.	100.0	.0	14.0	.72	9.4

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JOB: LINKS Stage I

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ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	* CYCLE LENGTH (SEC)	RED TIME (SEC)	CLEARANCE LOST TIME (SEC)	APPROACH VOL (VPH)	SATURATION FLOW RATE (VPH)	IDLE EM FAC (gm/hr)	SIGNAL TYPE	ARRIVAL RATE
113. Link 113	* 110	93	2.0	213	1900	202.00	2	3
114. Link 114	* 110	17	2.0	3801	1900	202.00	2	3
115. Link 115	* 110	45	2.0	3012	1900	202.00	2	3

RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (M) Y	Z	*
1. R1-House @ SW Dana	* -10238.0	-4050.0	1.7	*
2. R2-House @ S Dana	* -9450.0	-2817.0	1.7	*
3. R3-House @ SE Dana	* -7992.0	-675.0	1.7	*
4. R4-House @ NE Dana	* -10854.0	1575.0	1.7	*
5. R5-Hyatt	* -6192.0	-342.0	1.7	*
6. R6-Condo on bay	* -3996.0	-1854.0	1.7	*
7. R7-House nr Lasalle	* 2700.0	1629.0	1.7	*
8. R8-Business nr rmp	* 2142.0	3150.0	1.7	*
9. R9-Airport bldg	* -279.0	4329.0	1.7	*
10. R10-Unknown bldg	* 2250.0	-1017.0	1.7	*
11. R11-Tennis courts	* -3504.0	-675.0	1.7	*

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JOB: LINKS Stage I

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MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum

concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-350.

WIND ANGLE (DEGR)	* CONCENTRATION (PPM)	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11
0.	*	1.1	1.1	1.2	1.1	1.6	1.2	1.6	1.1	1.1	1.2	1.7
10.	*	1.1	1.1	1.2	1.1	1.6	1.3	1.6	1.1	1.1	1.1	1.7
20.	*	1.1	1.1	1.2	1.1	1.6	1.4	1.5	1.1	1.1	1.1	1.8
30.	*	1.1	1.1	1.2	1.1	1.6	1.4	1.7	1.1	1.1	1.1	1.8
40.	*	1.3	1.2	1.3	1.2	1.6	1.4	1.6	1.1	1.1	1.2	1.8
50.	*	1.3	1.3	1.6	1.3	1.6	1.3	1.7	1.1	1.1	1.1	1.8
60.	*	1.3	1.3	1.5	1.3	1.7	1.3	1.8	1.1	1.1	1.1	1.9
70.	*	1.3	1.3	1.6	1.1	1.4	1.1	1.6	1.1	1.1	1.1	2.2
80.	*	1.3	1.3	1.6	1.2	1.6	1.1	1.3	1.1	1.1	1.1	1.8
90.	*	1.3	1.3	1.4	1.2	1.4	1.1	1.1	1.1	1.1	1.1	1.3
100.	*	1.3	1.3	1.4	1.2	1.1	1.1	1.1	1.3	1.1	1.1	1.1
110.	*	1.3	1.3	1.4	1.1	1.1	1.1	1.1	1.8	1.1	1.1	1.1
120.	*	1.3	1.3	1.4	1.1	1.1	1.1	1.1	1.7	1.1	1.1	1.1
130.	*	1.3	1.3	1.4	1.1	1.1	1.1	1.1	1.6	1.1	1.1	1.1
140.	*	1.2	1.3	1.4	1.1	1.1	1.1	1.1	1.5	1.2	1.1	1.1
150.	*	1.3	1.3	1.4	1.1	1.1	1.1	1.1	1.5	1.2	1.1	1.1
160.	*	1.3	1.3	1.4	1.1	1.1	1.1	1.1	1.5	1.2	1.1	1.1
170.	*	1.3	1.3	1.5	1.1	1.1	1.1	1.1	1.5	1.3	1.1	1.1
180.	*	1.3	1.3	1.5	1.1	1.1	1.1	1.1	1.5	1.3	1.1	1.1
190.	*	1.3	1.2	1.6	1.1	1.1	1.1	1.1	1.5	1.3	1.1	1.1
200.	*	1.1	1.2	1.6	1.1	1.1	1.1	1.2	1.5	1.3	1.1	1.1
210.	*	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.7	1.2	1.1	1.1
220.	*	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.7	1.3	1.1	1.1
230.	*	1.1	1.1	1.1	1.1	1.3	1.1	1.1	1.5	1.4	1.1	1.1
240.	*	1.1	1.1	1.1	1.1	1.2	1.1	1.2	1.4	1.5	1.1	1.1
250.	*	1.1	1.1	1.1	1.1	1.3	1.1	1.3	1.5	1.3	1.1	1.1
260.	*	1.1	1.1	1.1	1.1	1.2	1.1	1.4	1.5	1.4	1.1	1.1
270.	*	1.1	1.1	1.1	1.1	1.2	1.1	1.4	1.4	1.3	1.1	1.1
280.	*	1.1	1.1	1.1	1.1	1.2	1.1	1.4	1.3	1.3	1.3	1.1
290.	*	1.1	1.1	1.1	1.1	1.2	1.1	1.8	1.1	1.1	1.1	1.4
300.	*	1.1	1.1	1.1	1.1	1.2	1.1	1.7	1.1	1.1	1.2	1.9
310.	*	1.1	1.1	1.1	1.1	1.3	1.3	1.7	1.1	1.1	1.2	2.1
320.	*	1.1	1.1	1.1	1.1	1.6	1.3	1.6	1.2	1.1	1.2	1.8
330.	*	1.1	1.1	1.1	1.1	1.6	1.4	1.6	1.2	1.1	1.1	1.9
340.	*	1.1	1.1	1.1	1.1	1.7	1.3	1.6	1.1	1.1	1.1	1.8
350.	*	1.1	1.1	1.2	1.1	1.7	1.2	1.6	1.1	1.1	1.1	1.8
MAX	*	1.3	1.3	1.6	1.3	1.7	1.4	1.8	1.8	1.5	1.3	2.2
DEGR.	*	40	50	50	50	60	20	60	110	240	280	70

THE HIGHEST CONCENTRATION OF 2.24 PPM OCCURRED AT RECEPTOR REC11.

JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2010

METEOROLOGICAL VARIABLES

U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 6.9 PPM

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JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2010

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-350.

WIND * CONCENTRATION
ANGLE * (PPM)

(DEGR) *	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11
0.	6.9	6.9	7.0	6.9	7.4	7.0	7.4	6.9	6.9	7.0	7.5
10.	6.9	6.9	7.0	6.9	7.4	7.1	7.4	6.9	6.9	6.9	7.5
20.	6.9	6.9	7.0	6.9	7.4	7.2	7.3	6.9	6.9	6.9	7.6
30.	6.9	6.9	7.0	6.9	7.4	7.2	7.5	6.9	6.9	6.9	7.6
40.	7.1	7.0	7.1	7.0	7.4	7.2	7.4	6.9	6.9	7.0	7.6
50.	7.1	7.1	7.4	7.1	7.4	7.1	7.5	6.9	6.9	6.9	7.6
60.	7.1	7.1	7.3	7.1	7.5	7.1	7.6	6.9	6.9	6.9	7.7
70.	7.1	7.1	7.4	6.9	7.2	6.9	7.4	6.9	6.9	6.9	8.0
80.	7.1	7.1	7.4	7.0	7.4	6.9	7.1	6.9	6.9	6.9	7.6
90.	7.1	7.1	7.2	7.0	7.2	6.9	6.9	6.9	6.9	6.9	7.1
100.	7.1	7.1	7.2	7.0	6.9	6.9	6.9	7.1	6.9	6.9	6.9
110.	7.1	7.1	7.2	6.9	6.9	6.9	6.9	7.6	6.9	6.9	6.9
120.	7.1	7.1	7.2	6.9	6.9	6.9	6.9	7.5	6.9	6.9	6.9
130.	7.1	7.1	7.2	6.9	6.9	6.9	6.9	7.4	6.9	6.9	6.9
140.	7.0	7.1	7.2	6.9	6.9	6.9	6.9	7.3	7.0	6.9	6.9
150.	7.1	7.1	7.2	6.9	6.9	6.9	6.9	7.3	7.0	6.9	6.9
160.	7.1	7.1	7.2	6.9	6.9	6.9	6.9	7.3	7.0	6.9	6.9
170.	7.1	7.1	7.3	6.9	6.9	6.9	6.9	7.3	7.1	6.9	6.9
180.	7.1	7.1	7.3	6.9	6.9	6.9	6.9	7.3	7.1	6.9	6.9
190.	7.1	7.0	7.4	6.9	6.9	6.9	6.9	7.3	7.1	6.9	6.9
200.	6.9	7.0	7.4	6.9	6.9	6.9	7.0	7.3	7.1	6.9	6.9
210.	6.9	6.9	7.0	6.9	6.9	6.9	6.9	7.5	7.0	6.9	6.9
220.	6.9	6.9	6.9	6.9	7.0	6.9	6.9	7.5	7.1	6.9	6.9
230.	6.9	6.9	6.9	6.9	7.1	6.9	6.9	7.3	7.2	6.9	6.9
240.	6.9	6.9	6.9	6.9	7.0	6.9	7.0	7.2	7.3	6.9	6.9
250.	6.9	6.9	6.9	6.9	7.1	6.9	7.1	7.3	7.1	6.9	6.9
260.	6.9	6.9	6.9	6.9	7.0	6.9	7.2	7.3	7.2	6.9	6.9

270.	*	6.9	6.9	6.9	6.9	7.0	6.9	7.2	7.2	7.1	6.9	6.9
280.	*	6.9	6.9	6.9	6.9	7.0	6.9	7.2	7.1	7.1	7.1	6.9
290.	*	6.9	6.9	6.9	6.9	7.0	6.9	7.6	6.9	6.9	6.9	7.2
300.	*	6.9	6.9	6.9	6.9	7.0	6.9	7.5	6.9	6.9	7.0	7.7
310.	*	6.9	6.9	6.9	6.9	7.1	7.1	7.5	6.9	6.9	7.0	7.9
320.	*	6.9	6.9	6.9	6.9	7.4	7.1	7.4	7.0	6.9	7.0	7.6
330.	*	6.9	6.9	6.9	6.9	7.4	7.2	7.4	7.0	6.9	6.9	7.7
340.	*	6.9	6.9	6.9	6.9	7.5	7.1	7.4	6.9	6.9	6.9	7.6
350.	*	6.9	6.9	7.0	6.9	7.5	7.0	7.4	6.9	6.9	6.9	7.6
-----*												
MAX	*	7.1	7.1	7.4	7.1	7.5	7.2	7.6	7.6	7.3	7.1	8.0
DEGR.	*	40	50	50	50	60	20	60	110	240	280	70

THE HIGHEST CONCENTRATION OF 8.00 PPM OCCURRED AT RECEPTOR REC11.

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JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2010

METEOROLOGICAL VARIABLES

U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 1.1 PPM

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 50.- 70.

WIND * CONCENTRATION

ANGLE * (PPM)

(DEGR)*	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	
50.	*	1.3	1.3	1.6	1.3	1.6	1.3	1.7	1.1	1.1	1.1	1.8
51.	*	1.4	1.3	1.5	1.3	1.6	1.3	1.7	1.1	1.1	1.1	1.8
52.	*	1.4	1.3	1.5	1.3	1.6	1.3	1.7	1.1	1.1	1.1	1.8
53.	*	1.3	1.3	1.5	1.3	1.6	1.3	1.7	1.1	1.1	1.1	1.8
54.	*	1.3	1.3	1.5	1.3	1.6	1.3	1.7	1.1	1.1	1.1	1.8
55.	*	1.3	1.3	1.5	1.3	1.6	1.3	1.7	1.1	1.1	1.1	1.8
56.	*	1.3	1.3	1.5	1.3	1.6	1.3	1.8	1.1	1.1	1.1	1.8
57.	*	1.3	1.3	1.5	1.3	1.6	1.4	1.8	1.1	1.1	1.1	1.9
58.	*	1.3	1.3	1.6	1.3	1.7	1.4	1.8	1.1	1.1	1.1	1.9
59.	*	1.3	1.3	1.6	1.3	1.7	1.3	1.8	1.1	1.1	1.1	1.9
60.	*	1.3	1.3	1.5	1.3	1.7	1.3	1.8	1.1	1.1	1.1	1.9
61.	*	1.3	1.3	1.6	1.3	1.6	1.3	1.8	1.1	1.1	1.1	1.9
62.	*	1.3	1.3	1.6	1.3	1.6	1.3	1.6	1.1	1.1	1.1	1.9
63.	*	1.3	1.3	1.5	1.3	1.6	1.2	1.7	1.1	1.1	1.1	1.9

64.	*	1.3	1.3	1.5	1.3	1.6	1.2	1.7	1.1	1.1	1.1	1.9
65.	*	1.3	1.3	1.6	1.3	1.5	1.2	1.6	1.1	1.1	1.1	2.0
66.	*	1.3	1.3	1.6	1.2	1.5	1.2	1.7	1.1	1.1	1.1	2.3
67.	*	1.3	1.3	1.6	1.2	1.5	1.1	1.6	1.1	1.1	1.1	2.3
68.	*	1.3	1.3	1.6	1.2	1.6	1.1	1.6	1.1	1.1	1.1	2.3
69.	*	1.3	1.3	1.6	1.1	1.5	1.1	1.6	1.1	1.1	1.1	2.2
70.	*	1.3	1.3	1.6	1.1	1.4	1.1	1.6	1.1	1.1	1.1	2.2

MAX	*	1.4	1.3	1.6	1.3	1.7	1.4	1.8	1.1	1.1	1.1	2.3
DEGR.	*	51	50	50	50	58	57	56	50	50	50	66

THE HIGHEST CONCENTRATION OF 2.34 PPM OCCURRED AT RECEPTOR REC11.

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JOB: LINKS Stage I

RUN: LINKS Stage I - Year 2010

METEOROLOGICAL VARIABLES

U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 6.9 PPM

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 50.- 70.

WIND ANGLE (DEGR)	* CONCENTRATION (PPM)	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11
50.	*	7.1	7.1	7.4	7.1	7.4	7.1	7.5	6.9	6.9	6.9	7.6
51.	*	7.2	7.1	7.3	7.1	7.4	7.1	7.5	6.9	6.9	6.9	7.6
52.	*	7.2	7.1	7.3	7.1	7.4	7.1	7.5	6.9	6.9	6.9	7.6
53.	*	7.1	7.1	7.3	7.1	7.4	7.1	7.5	6.9	6.9	6.9	7.6
54.	*	7.1	7.1	7.3	7.1	7.4	7.1	7.5	6.9	6.9	6.9	7.6
55.	*	7.1	7.1	7.3	7.1	7.4	7.1	7.5	6.9	6.9	6.9	7.6
56.	*	7.1	7.1	7.3	7.1	7.4	7.1	7.6	6.9	6.9	6.9	7.6
57.	*	7.1	7.1	7.3	7.1	7.4	7.2	7.6	6.9	6.9	6.9	7.7
58.	*	7.1	7.1	7.4	7.1	7.5	7.2	7.6	6.9	6.9	6.9	7.7
59.	*	7.1	7.1	7.4	7.1	7.5	7.1	7.6	6.9	6.9	6.9	7.7
60.	*	7.1	7.1	7.3	7.1	7.5	7.1	7.6	6.9	6.9	6.9	7.7
61.	*	7.1	7.1	7.4	7.1	7.4	7.1	7.6	6.9	6.9	6.9	7.7
62.	*	7.1	7.1	7.4	7.1	7.4	7.1	7.4	6.9	6.9	6.9	7.7
63.	*	7.1	7.1	7.3	7.1	7.4	7.0	7.5	6.9	6.9	6.9	7.7
64.	*	7.1	7.1	7.3	7.1	7.4	7.0	7.5	6.9	6.9	6.9	7.7
65.	*	7.1	7.1	7.4	7.1	7.3	7.0	7.4	6.9	6.9	6.9	7.8

66.	*	7.1	7.1	7.4	7.0	7.3	7.0	7.5	6.9	6.9	6.9	8.1
67.	*	7.1	7.1	7.4	7.0	7.3	6.9	7.4	6.9	6.9	6.9	8.1
68.	*	7.1	7.1	7.4	7.0	7.4	6.9	7.4	6.9	6.9	6.9	8.1
69.	*	7.1	7.1	7.4	6.9	7.3	6.9	7.4	6.9	6.9	6.9	8.0
70.	*	7.1	7.1	7.4	6.9	7.2	6.9	7.4	6.9	6.9	6.9	8.0
-----*												
MAX	*	7.2	7.1	7.4	7.1	7.5	7.2	7.6	6.9	6.9	6.9	8.1
DEGR.	*	51	50	50	50	58	57	56	50	50	50	66

THE HIGHEST CONCENTRATION OF 8.10 PPM OCCURRED AT RECEPTOR REC11.

CALL3QHC INPUT FILE FOR BUILD - 2025

'LINKS STAGE I'		60.	108.	0.	0.	11	1.0	0	1
'R1-HOUSE @ SW DANA'		-10238	-4050	1.7					
'R2-HOUSE @ S DANA'		-9450	-2817	1.7					
'R3-HOUSE @ SE DANA'		-7992	-675	1.7					
'R4-HOUSE @ NE DANA'		-10854	1575	1.7					
'R5-HYATT'		-6192	-342.	1.7					
'R6-CONDO ON BAY'		-3996	-1854	1.7					
'R7-HOUSE NR LASALLE'		2700	1629	1.7					
'R8-BUSINESS NR RMP'		2142	3150	1.7					
'R9-AIRPORT BLDG'		-279	4329	1.7					
'R10-UNKNOWN BLDG'		2250	-1017	1.7					
'R11-TENNIS COURTS'		-3504	-675	1.7					
'LINKS STAGE I - YEAR 2025'	115	4	0		'C'				
'LINK 1'	'AG'	-10800.	-6525.	-10012.	-5220.	4461.	13.	0.	20.
'LINK 2'	'AG'	-10012.	-5220.	-9675.	-4680.	4303.	13.	0.	20.
'LINK 3'	'AG'	-10012.	-5220.	-9504.	-4950.	240.	13.	0.	12.
'LINK 4'	'AG'	-9675.	-4680.	-9504.	-4950.	81.	13.	0.	11.
'LINK 5'	'AG'	-9675.	-4680.	-7992.	-1404.	4303.	13.	0.	20.
'LINK 6'	'AG'	-9504.	-4950.	-9270.	-4842.	322.	13.	0.	14.
'LINK 7'	'AG'	-9270.	-4842.	-9279.	-4167.	322.	13.	0.	14.
'LINK 8'	'AG'	-9279.	-4167.	-7767.	-1575.	322.	13.	0.	14.
'LINK 9'	'AG'	-9306.	-3717.	-10908.	-6246.	4020.	13.	0.	17.
'LINK 10'	'AG'	-9309.	-2855.	-9306.	-3717.	15.	13.	0.	11.
'LINK 11'	'AG'	-8837.	-2942.	-9306.	-3717.	4020.	13.	0.	17.
'LINK 12'	'AG'	-8837.	-2942.	-9113.	-3122.	400.	13.	0.	11.
'LINK 13'	'AG'	-9113.	-3122.	-9309.	-2855.	400.	13.	0.	11.
'LINK 14'	'AG'	-9309.	-2855.	-7869.	-591.	415.	13.	0.	14.
'LINK 15'	'AG'	-7509.	-338.	-8837.	-2942.	4405.	13.	0.	20.
'LINK 16'	'AG'	-7639.	1125.	-7509.	-338.	1338.	13.	0.	13.
'LINK 17'	'AG'	-6458.	956.	-7509.	-338.	3067.	13.	0.	17.
'LINK 18'	'AG'	-8814.	2475.	-7639.	1125.	1338.	13.	0.	13.
'LINK 19'	'AG'	-9563.	2869.	-8814.	2475.	9567.	13.	0.	24.
'LINK 20'	'AG'	-8814.	2475.	-8460.	2250.	8229.	13.	0.	20.
'LINK 21'	'AG'	-9011.	2703.	-8460.	2250.	2078.	13.	0.	13.
'LINK 22'	'AG'	-10913.	3864.	-9011.	2703.	2078.	13.	0.	13.
'LINK 23'	'BR'	-8460.	2250.	-6266.	281.	10307.	13.	0.	20.
'LINK 24'	'AG'	-6266.	281.	-5063.	225.	10307.	13.	0.	20.
'LINK 25'	'AG'	-5063.	225.	-3330.	-399.	13179.	13.	0.	30.
'LINK 26'	'AG'	-7992.	-1404.	-7245.	-450.	4357.	13.	0.	13.
'LINK 27'	'AG'	-7245.	-450.	-6469.	-62.	2226.	13.	0.	13.

'LINK	28'	'AG'	-6469.	-62.	-5063.	225.	2236.	13.	0.	13.
'LINK	29'	'AG'	-7245.	-450.	-6474.	124.	646.	13.	0.	11.
'LINK	30'	'AG'	-3330.	-399.	-2042.	-450.	13179.	13.	0.	30.
'LINK	31'	'AG'	-6474.	124.	-5603.	225.	646.	13.	0.	11.
'LINK	32'	'AG'	-5603.	225.	-3330.	-399.	646.	13.	0.	11.
'LINK	33'	'AG'	-7992.	-1404.	-6919.	602.	1431.	13.	0.	13.
'LINK	34'	'AG'	-6919.	602.	-7403.	1974.	1431.	13.	0.	13.
'LINK	35'	'AG'	-7403.	1974.	-7774.	2385.	1431.	13.	0.	13.
'LINK	36'	'AG'	-7774.	2385.	-10018.	3713.	7432.	13.	0.	24.
'LINK	37'	'AG'	-6458.	956.	-5642.	608.	1473.	13.	0.	11.
'LINK	38'	'AG'	-5642.	608.	-3846.	-118.	1473.	13.	0.	11.
'LINK	39'	'AG'	-5659.	996.	-6458.	956.	1594.	13.	0.	13.
'LINK	40'	'AG'	-4129.	225.	-5659.	996.	1594.	13.	0.	13.
'LINK	41'	'AG'	-6570.	903.	-11700.	4483.	4656.	13.	0.	20.
'LINK	42'	'BR'	-3846.	-118.	-6570.	903.	4656.	13.	10.	20.
'LINK	43'	'AG'	-4129.	225.	-7774.	2385.	6001.	13.	0.	20.
'LINK	44'	'AG'	-2042.	-450.	0.	113.	1650.	13.	0.	13.
'LINK	45'	'AG'	0.	113.	827.	304.	1050.	13.	0.	10.
'LINK	46'	'AG'	827.	304.	3549.	-1181.	1050.	13.	0.	10.
'LINK	47'	'AG'	3549.	-1181.	1305.	270.	150.	13.	0.	10.
'LINK	48'	'AG'	1305.	270.	1350.	731.	150.	13.	0.	10.
'LINK	49'	'AG'	1350.	731.	1553.	1766.	2986.	13.	0.	13.
'LINK	50'	'AG'	0.	113.	1086.	726.	600.	13.	0.	13.
'LINK	51'	'AG'	1086.	726.	1553.	1766.	600.	13.	0.	13.
'LINK	52'	'BR'	1553.	1766.	1479.	2756.	3586.	13.	10.	20.
'LINK	53'	'AG'	1350.	3673.	1530.	4849.	3586.	13.	0.	20.
'LINK	54'	'AG'	-2042.	-450.	-653.	51.	11529.	13.	0.	24.
'LINK	55'	'AG'	-653.	51.	1125.	1221.	7851.	13.	0.	17.
'LINK	56'	'AG'	1125.	1221.	1682.	1693.	7851.	13.	0.	17.
'LINK	57'	'AG'	1682.	1693.	3088.	2188.	7851.	13.	0.	17.
'LINK	58'	'AG'	3088.	2188.	4388.	2256.	7851.	13.	0.	17.
'LINK	59'	'AG'	4388.	2256.	5484.	2301.	13036.	13.	0.	24.
'LINK	60'	'BR'	1361.	3510.	1350.	3673.	3586.	13.	10.	20.
'LINK	61'	'AG'	1479.	2756.	1361.	3510.	3586.	13.	0.	20.
'LINK	62'	'AG'	1323.	253.	1350.	731.	2836.	13.	0.	11.
'LINK	63'	'AG'	1997.	56.	1323.	253.	2836.	13.	0.	11.

1	'LINK-64'	'AG'	2323.	298.	1997.	56.	2836.	13.	0.	11.
1	'LINK 65'	'AG'	2402.	1136.	2323.	298.	2836.	13.	0.	13.
1	'LINK 66'	'BR'	1761.	1839.	2402.	1136.	2836.	13.	10.	13.
1	'LINK 67'	'BR'	197.	2588.	1761.	1839.	2836.	13.	10.	13.
1	'LINK 68'	'BR'	197.	2588.	2419.	2952.	5185.	13.	10.	16.
1	'LINK 69'	'AG'	2419.	2952.	4388.	2256.	5185.	13.	0.	16.
1	'LINK 70'	'AG'	-2250.	3662.	197.	2588.	8021.	13.	0.	20.
1	'LINK 71'	'AG'	-5079.	5085.	-2250.	3662.	12194.	13.	0.	20.
1	'LINK 72'	'AG'	-2250.	3662.	-1024.	2981.	8960.	13.	0.	13.
1	'LINK 73'	'BR'	-1024.	2981.	-506.	2649.	3234.	13.	10.	11.
1	'LINK 74'	'AG'	-506.	2649.	-152.	1991.	3234.	13.	0.	11.
1	'LINK 75'	'AG'	-152.	1991.	-394.	1018.	3234.	13.	0.	11.
1	'LINK 76'	'AG'	-394.	1018.	-1311.	113.	4305.	13.	0.	17.
1	'LINK 77'	'AG'	-1311.	113.	-4129.	225.	7595.	13.	0.	24.
1	'LINK 78'	'AG'	-1024.	2981.	394.	2031.	939.	13.	0.	11.
1	'LINK 79'	'AG'	394.	2031.	90.	1001.	939.	13.	0.	11.
1	'LINK 80'	'AG'	90.	1001.	-1311.	113.	3290.	13.	0.	17.
1	'LINK 81'	'AG'	686.	2048.	90.	1001.	2351.	13.	0.	13.
1	'LINK 82'	'AG'	939.	3600.	686.	2048.	2351.	13.	0.	13.
1	'LINK 83'	'AG'	1254.	4669.	939.	3600.	2351.	13.	0.	13.
1	'LINK 84'	'AG'	1693.	5405.	1254.	4669.	4899.	13.	0.	17.
1	'LINK 85'	'AG'	1254.	4669.	0.	3336.	2548.	13.	0.	11.
1	'LINK 86'	'AG'	0.	3336.	-838.	3358.	2548.	13.	0.	11.
1	'LINK 87'	'AG'	-838.	3358.	-2334.	4253.	6266.	13.	0.	13.
1	'LINK 88'	'AG'	-2334.	4253.	-3600.	4748.	6266.	13.	0.	13.
1	'LINK 89'	'AG'	-3600.	4748.	-4899.	5304.	12204.	13.	0.	17.
1	'LINK 90'	'AG'	-956.	3319.	-3600.	4748.	5978.	13.	0.	17.
1	'LINK 91'	'AG'	1744.	2610.	-956.	3319.	5978.	13.	0.	17.
1	'LINK 92'	'AG'	3054.	2498.	1744.	2610.	6181.	13.	0.	17.
1	'LINK 93'	'AG'	4185.	2453.	3054.	2498.	7252.	13.	0.	17.
1	'LINK 94'	'AG'	5558.	2419.	4185.	2453.	13381.	13.	0.	24.
1	'LINK 95'	'BR'	197.	2588.	2402.	1856.	5185.	13.	10.	16.
1	'LINK 96'	'AG'	2402.	1856.	4388.	2256.	5185.	13.	0.	16.
1	'LINK 97'	'AG'	4185.	2453.	2385.	2222.	6129.	13.	0.	17.
1	'LINK 98'	'AG'	2385.	2222.	855.	1519.	6129.	13.	0.	17.

'LINK	99'	'AG'	855.	1519.	-619.	309.	6129.	13.	0.	17.
1										
'LINK	100'	'AG'	-619.	309.	-1800.	-169.	6129.	13.	0.	17.
1										
'LINK	101'	'AG'	-1800.	-169.	-3846.	-118.	6129.	13.	0.	17.
1										
'LINK	102'	'AG'	-394.	1018.	754.	2464.	1071.	13.	0.	13.
1										
'LINK	103'	'AG'	754.	2464.	3054.	2498.	1071.	13.	0.	13.
1										
'LINK	104'	'AG'	1744.	2610.	984.	3077.	203.	13.	0.	11.
1										
'LINK	105'	'AG'	984.	3077.	1575.	3656.	203.	13.	0.	11.
1										
'LINK	106'	'AG'	5794.	2644.	2166.	2756.	1217.	13.	0.	13.
1										
'LINK	107'	'AG'	2166.	2756.	1575.	3656.	1217.	13.	0.	13.
1										
'LINK	108'	'AG'	1575.	3656.	1581.	4629.	1014.	13.	0.	13.
1										
'LINK	109'	'AG'	1581.	4629.	1997.	5518.	1014.	13.	0.	13.
1										
'LINK	110'	'AG'	2053.	6002.	1828.	5625.	5173.	13.	0.	17.
1										
'LINK	111'	'AG'	1530.	4849.	1912.	5558.	3586.	13.	0.	20.
1										
'LINK	112'	'AG'	1912.	5558.	2149.	5940.	3580.	13.	0.	17.
2										
'LINK	113'	'AG'	1997.	5518.	1581.	4629.	0.	5.	1	
120	101		2.0	367	200.0	1900	2	3		
2										
'LINK	114'	'AG'	1856.	5681.	2053.	6002.	0.	11.	3	
120	19		2.0	5173	200.0	1900	2	3		
2										
'LINK	115'	'AG'	1879.	5456.	1530.	4849.	0.	14.	4	
120	50		2.0	3586	200.0	1900	2	3		
1	0		4	1000	1.14	'Y'	10	0	35	
1	0		4	1000	6.9	'Y'	10	0	35	
1	0		4	1000	1.14	'Y'	1	280	300	
1	0		4	1000	6.9	'Y'	1	280	300	

CAL3QHC OUTPUT FILE FOR BUILD - 2025

CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 DATED 95221

PAGE 1

JOB: LINKS STAGE I

RUN: LINKS STAGE I - YEAR 2025

DATE : 4/26/99

TIME : 0:24:27

THE MODE FLAG HAS BEEN SET TO C FOR CALCULATING CO AVERAGES.

SITE & METEOROLOGICAL VARIABLES

VS = .0 CM/S VD = .0 CM/S Z0 = 108. CM
 U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 1.1 PPM

LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* LENGTH (M)	BRG TYPE (DEG)	VPH	EF (G/MI)	H (M)	W (M)	V/C QUEUE (VEH)
1. LINK 1	* -10800.0	-6525.0	-10012.0	-5220.0	* 1524.	31. AG	4461.	13.0	.0	20.0	
2. LINK 2	* -10012.0	-5220.0	-9675.0	-4680.0	* 637.	32. AG	4303.	13.0	.0	20.0	
3. LINK 3	* -10012.0	-5220.0	-9504.0	-4950.0	* 575.	62. AG	240.	13.0	.0	12.0	
4. LINK 4	* -9675.0	-4680.0	-9504.0	-4950.0	* 320.	148. AG	81.	13.0	.0	11.0	
5. LINK 5	* -9675.0	-4680.0	-7992.0	-1404.0	* 3683.	27. AG	4303.	13.0	.0	20.0	
6. LINK 6	* -9504.0	-4950.0	-9270.0	-4842.0	* 258.	65. AG	322.	13.0	.0	14.0	
7. LINK 7	* -9270.0	-4842.0	-9279.0	-4167.0	* 675.	359. AG	322.	13.0	.0	14.0	
8. LINK 8	* -9279.0	-4167.0	-7767.0	-1575.0	* 3001.	30. AG	322.	13.0	.0	14.0	
9. LINK 9	* -9306.0	-3717.0	-10908.0	-6246.0	* 2994.	212. AG	4020.	13.0	.0	17.0	
10. LINK 10	* -9309.0	-2855.0	-9306.0	-3717.0	* 862.	180. AG	15.	13.0	.0	11.0	
11. LINK 11	* -8837.0	-2942.0	-9306.0	-3717.0	* 906.	211. AG	4020.	13.0	.0	17.0	
12. LINK 12	* -8837.0	-2942.0	-9113.0	-3122.0	* 330.	237. AG	400.	13.0	.0	11.0	
13. LINK 13	* -9113.0	-3122.0	-9309.0	-2855.0	* 331.	324. AG	400.	13.0	.0	11.0	
14. LINK 14	* -9309.0	-2855.0	-7869.0	-591.0	* 2683.	32. AG	415.	13.0	.0	14.0	
15. LINK 15	* -7509.0	-338.0	-8837.0	-2942.0	* 2923.	207. AG	4405.	13.0	.0	20.0	
16. LINK 16	* -7639.0	1125.0	-7509.0	-338.0	* 1469.	175. AG	1338.	13.0	.0	13.0	
17. LINK 17	* -6458.0	956.0	-7509.0	-338.0	* 1667.	219. AG	3067.	13.0	.0	17.0	
18. LINK 18	* -8814.0	2475.0	-7639.0	1125.0	* 1790.	139. AG	1338.	13.0	.0	13.0	
19. LINK 19	* -9563.0	2869.0	-8814.0	2475.0	* 846.	118. AG	9567.	13.0	.0	24.0	
20. LINK 20	* -8814.0	2475.0	-8460.0	2250.0	* 419.	122. AG	8229.	13.0	.0	20.0	
21. LINK 21	* -9011.0	2703.0	-8460.0	2250.0	* 713.	129. AG	2078.	13.0	.0	13.0	
22. LINK 22	* -10913.0	3864.0	-9011.0	2703.0	* 2228.	121. AG	2078.	13.0	.0	13.0	
23. LINK 23	* -8460.0	2250.0	-6266.0	281.0	* 2948.	132. BR	10307.	13.0	.0	20.0	
24. LINK 24	* -6266.0	281.0	-5063.0	225.0	* 1204.	93. AG	10307.	13.0	.0	20.0	
25. LINK 25	* -5063.0	225.0	-3330.0	-399.0	* 1842.	110. AG	13179.	13.0	.0	30.0	
26. LINK 26	* -7992.0	-1404.0	-7245.0	-450.0	* 1212.	38. AG	4357.	13.0	.0	13.0	
27. LINK 27	* -7245.0	-450.0	-6469.0	-62.0	* 868.	63. AG	2226.	13.0	.0	13.0	
28. LINK 28	* -6469.0	-62.0	-5063.0	225.0	* 1435.	78. AG	2226.	13.0	.0	13.0	
29. LINK 29	* -7245.0	-450.0	-6474.0	124.0	* 961.	53. AG	646.	13.0	.0	11.0	

30. LINK 30	*	-3330.0	-399.0	-2042.0	-450.0	*	1289.	92. AG	13179.	13.0	.0	30.0
31. LINK 31	*	-6474.0	124.0	-5603.0	225.0	*	877.	83. AG	646.	13.0	.0	11.0
32. LINK 32	*	-5603.0	225.0	-3330.0	-399.0	*	2357.	105. AG	646.	13.0	.0	11.0
33. LINK 33	*	-7992.0	-1404.0	-6919.0	602.0	*	2275.	28. AG	1431.	13.0	.0	13.0
34. LINK 34	*	-6919.0	602.0	-7403.0	1974.0	*	1455.	341. AG	1431.	13.0	.0	13.0
35. LINK 35	*	-7403.0	1974.0	-7774.0	2385.0	*	554.	318. AG	1431.	13.0	.0	13.0
36. LINK 36	*	-7774.0	2385.0	-10018.0	3713.0	*	2608.	301. AG	7432.	13.0	.0	24.0
37. LINK 37	*	-6458.0	956.0	-5642.0	608.0	*	887.	113. AG	1473.	13.0	.0	11.0
38. LINK 38	*	-5642.0	608.0	-3846.0	-118.0	*	1937.	112. AG	1473.	13.0	.0	11.0
39. LINK 39	*	-5659.0	996.0	-6458.0	956.0	*	800.	267. AG	1594.	13.0	.0	13.0
40. LINK 40	*	-4129.0	225.0	-5659.0	996.0	*	1713.	297. AG	1594.	13.0	.0	13.0
41. LINK 41	*	-6570.0	903.0	-11700.0	4483.0	*	6256.	305. AG	4656.	13.0	.0	20.0
42. LINK 42	*	-3846.0	-118.0	-6570.0	903.0	*	2909.	291. BR	4656.	13.0	10.0	20.0
43. LINK 43	*	-4129.0	225.0	-7774.0	2385.0	*	4237.	301. AG	6001.	13.0	.0	20.0
44. LINK 44	*	-2042.0	-450.0	.0	113.0	*	2118.	75. AG	1650.	13.0	.0	13.0

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JOB: LINKS STAGE I

RUN: LINKS STAGE I - YEAR 2025

DATE : 4/26/99

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LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M)				*	LENGTH	BRG TYPE	VPH	EF	H	W	V/C QUEUE
	*	X1	Y1	X2	Y2	*	(M)	(DEG)	(G/MI)	(M)	(M)	(VEH)	
45. LINK 45	*	.0	113.0	827.0	304.0	*	849.	77. AG	1050.	13.0	.0	10.0	
46. LINK 46	*	827.0	304.0	3549.0	-1181.0	*	3101.	119. AG	1050.	13.0	.0	10.0	
47. LINK 47	*	3549.0	-1181.0	1305.0	270.0	*	2672.	303. AG	150.	13.0	.0	10.0	
48. LINK 48	*	1305.0	270.0	1350.0	731.0	*	463.	6. AG	150.	13.0	.0	10.0	
49. LINK 49	*	1350.0	731.0	1553.0	1766.0	*	1055.	11. AG	2986.	13.0	.0	13.0	
50. LINK 50	*	.0	113.0	1086.0	726.0	*	1247.	61. AG	600.	13.0	.0	13.0	
51. LINK 51	*	1086.0	726.0	1553.0	1766.0	*	1140.	24. AG	600.	13.0	.0	13.0	
52. LINK 52	*	1553.0	1766.0	1479.0	2756.0	*	993.	356. BR	3586.	13.0	10.0	20.0	
53. LINK 53	*	1350.0	3673.0	1530.0	4849.0	*	1190.	9. AG	3586.	13.0	.0	20.0	
54. LINK 54	*	-2042.0	-450.0	-653.0	51.0	*	1477.	70. AG	11529.	13.0	.0	24.0	
55. LINK 55	*	-653.0	51.0	1125.0	1221.0	*	2128.	57. AG	7851.	13.0	.0	17.0	
56. LINK 56	*	1125.0	1221.0	1682.0	1693.0	*	730.	50. AG	7851.	13.0	.0	17.0	
57. LINK 57	*	1682.0	1693.0	3088.0	2188.0	*	1491.	71. AG	7851.	13.0	.0	17.0	
58. LINK 58	*	3088.0	2188.0	4388.0	2256.0	*	1302.	87. AG	7851.	13.0	.0	17.0	
59. LINK 59	*	4388.0	2256.0	5484.0	2301.0	*	1097.	88. AG	13036.	13.0	.0	24.0	
60. LINK 60	*	1361.0	3510.0	1350.0	3673.0	*	163.	356. BR	3586.	13.0	10.0	20.0	
61. LINK 61	*	1479.0	2756.0	1361.0	3510.0	*	763.	351. AG	3586.	13.0	.0	20.0	
62. LINK 62	*	1323.0	253.0	1350.0	731.0	*	479.	3. AG	2836.	13.0	.0	11.0	
63. LINK 63	*	1997.0	56.0	1323.0	253.0	*	702.	286. AG	2836.	13.0	.0	11.0	
64. LINK 64	*	2323.0	298.0	1997.0	56.0	*	406.	233. AG	2836.	13.0	.0	11.0	
65. LINK 65	*	2402.0	1136.0	2323.0	298.0	*	842.	185. AG	2836.	13.0	.0	13.0	
66. LINK 66	*	1761.0	1839.0	2402.0	1136.0	*	951.	138. BR	2836.	13.0	10.0	13.0	
67. LINK 67	*	197.0	2588.0	1761.0	1839.0	*	1734.	116. BR	2836.	13.0	10.0	13.0	
68. LINK 68	*	197.0	2588.0	2419.0	2952.0	*	2252.	81. BR	5185.	13.0	10.0	16.0	

69. LINK 69	*	2419.0	2952.0	4388.0	2256.0	*	2088.	109. AG	5185.	13.0	.0	16.0
70. LINK 70	*	-2250.0	3662.0	197.0	2588.0	*	2672.	114. AG	8021.	13.0	.0	20.0
71. LINK 71	*	-5079.0	5085.0	-2250.0	3662.0	*	3167.	117. AG	12194.	13.0	.0	20.0
72. LINK 72	*	-2250.0	3662.0	-1024.0	2981.0	*	1402.	119. AG	8960.	13.0	.0	13.0
73. LINK 73	*	-1024.0	2981.0	-506.0	2649.0	*	615.	123. BR	3234.	13.0	10.0	11.0
74. LINK 74	*	-506.0	2649.0	-152.0	1991.0	*	747.	152. AG	3234.	13.0	.0	11.0
75. LINK 75	*	-152.0	1991.0	-394.0	1018.0	*	1003.	194. AG	3234.	13.0	.0	11.0
76. LINK 76	*	-394.0	1018.0	-1311.0	113.0	*	1288.	225. AG	4305.	13.0	.0	17.0
77. LINK 77	*	-1311.0	113.0	-4129.0	225.0	*	2820.	272. AG	7595.	13.0	.0	24.0
78. LINK 78	*	-1024.0	2981.0	394.0	2031.0	*	1707.	124. AG	939.	13.0	.0	11.0
79. LINK 79	*	394.0	2031.0	90.0	1001.0	*	1074.	196. AG	939.	13.0	.0	11.0
80. LINK 80	*	90.0	1001.0	-1311.0	113.0	*	1659.	238. AG	3290.	13.0	.0	17.0
81. LINK 81	*	686.0	2048.0	90.0	1001.0	*	1205.	210. AG	2351.	13.0	.0	13.0
82. LINK 82	*	939.0	3600.0	686.0	2048.0	*	1572.	189. AG	2351.	13.0	.0	13.0
83. LINK 83	*	1254.0	4669.0	939.0	3600.0	*	1114.	196. AG	2351.	13.0	.0	13.0
84. LINK 84	*	1693.0	5405.0	1254.0	4669.0	*	857.	211. AG	4899.	13.0	.0	17.0
85. LINK 85	*	1254.0	4669.0	.0	3336.0	*	1830.	223. AG	2548.	13.0	.0	11.0
86. LINK 86	*	.0	3336.0	-838.0	3358.0	*	838.	272. AG	2548.	13.0	.0	11.0
87. LINK 87	*	-838.0	3358.0	-2334.0	4253.0	*	1743.	301. AG	6266.	13.0	.0	13.0
88. LINK 88	*	-2334.0	4253.0	-3600.0	4748.0	*	1359.	291. AG	6266.	13.0	.0	13.0
89. LINK 89	*	-3600.0	4748.0	-4899.0	5304.0	*	1413.	293. AG	12204.	13.0	.0	17.0
90. LINK 90	*	-956.0	3319.0	-3600.0	4748.0	*	3005.	298. AG	5978.	13.0	.0	17.0
91. LINK 91	*	1744.0	2610.0	-956.0	3319.0	*	2792.	285. AG	5978.	13.0	.0	17.0
92. LINK 92	*	3054.0	2498.0	1744.0	2610.0	*	1315.	275. AG	6181.	13.0	.0	17.0
93. LINK 93	*	4185.0	2453.0	3054.0	2498.0	*	1132.	272. AG	7252.	13.0	.0	17.0
94. LINK 94	*	5558.0	2419.0	4185.0	2453.0	*	1373.	271. AG	13381.	13.0	.0	24.0
95. LINK 95	*	197.0	2588.0	2402.0	1856.0	*	2323.	108. BR	5185.	13.0	10.0	16.0

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JOB: LINKS STAGE I

RUN: LINKS STAGE I - YEAR 2025

DATE : 4/26/99

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LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M)				*	LENGTH (M)	BRG TYPE (DEG)	VPH	EF (G/MI)	H (M)	W (M)	V/C QUEUE (VEH)
		X1	Y1	X2	Y2								
96. LINK 96	*	2402.0	1856.0	4388.0	2256.0	*	2026.	79. AG	5185.	13.0	.0	16.0	
97. LINK 97	*	4185.0	2453.0	2385.0	2222.0	*	1815.	263. AG	6129.	13.0	.0	17.0	
98. LINK 98	*	2385.0	2222.0	855.0	1519.0	*	1684.	245. AG	6129.	13.0	.0	17.0	
99. LINK 99	*	855.0	1519.0	-619.0	309.0	*	1907.	231. AG	6129.	13.0	.0	17.0	
100. LINK 100	*	-619.0	309.0	-1800.0	-169.0	*	1274.	248. AG	6129.	13.0	.0	17.0	
101. LINK 101	*	-1800.0	-169.0	-3846.0	-118.0	*	2047.	271. AG	6129.	13.0	.0	17.0	
102. LINK 102	*	-394.0	1018.0	754.0	2464.0	*	1846.	38. AG	1071.	13.0	.0	13.0	
103. LINK 103	*	754.0	2464.0	3054.0	2498.0	*	2300.	89. AG	1071.	13.0	.0	13.0	
104. LINK 104	*	1744.0	2610.0	984.0	3077.0	*	892.	302. AG	203.	13.0	.0	11.0	
105. LINK 105	*	984.0	3077.0	1575.0	3656.0	*	827.	46. AG	203.	13.0	.0	11.0	
106. LINK 106	*	5794.0	2644.0	2166.0	2756.0	*	3630.	272. AG	1217.	13.0	.0	13.0	
107. LINK 107	*	2166.0	2756.0	1575.0	3656.0	*	1077.	327. AG	1217.	13.0	.0	13.0	

108. LINK 108	*	1575.0	3656.0	1581.0	4629.0	*	973.	0. AG	1014.	13.0	.0	13.0
109. LINK 109	*	1581.0	4629.0	1997.0	5518.0	*	982.	25. AG	1014.	13.0	.0	13.0
110. LINK 110	*	2053.0	6002.0	1828.0	5625.0	*	439.	211. AG	5173.	13.0	.0	17.0
111. LINK 111	*	1530.0	4849.0	1912.0	5558.0	*	805.	28. AG	3586.	13.0	.0	20.0
112. LINK 112	*	1912.0	5558.0	2149.0	5940.0	*	450.	32. AG	3580.	13.0	.0	17.0
113. LINK 113	*	1997.0	5518.0	1794.7	5085.8	*	477.	205. AG	452.	100.0	.0	5.0 1.55 79.5
114. LINK 114	*	1856.0	5681.0	2208.2	6254.9	*	673.	32. AG	255.	100.0	.0	11.0 1.12 112.2
115. LINK 115	*	1879.0	5456.0	1841.8	5391.3	*	75.	210. AG	894.	100.0	.0	14.0 .86 12.4

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JOB: LINKS STAGE I

RUN: LINKS STAGE I - YEAR 2025

DATE : 4/26/99

TIME : 0:24:27

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	*	CYCLE	RED	CLEARANCE	APPROACH	SATURATION	IDLE	SIGNAL	ARRIVAL
	*	LENGTH	TIME	LOST TIME	VOL	FLOW RATE	EM FAC	TYPE	RATE
	*	(SEC)	(SEC)	(SEC)	(VPH)	(VPH)	(GM/HR)		
113. LINK 113	*	120	101	2.0	367	1900	200.00	2	3
114. LINK 114	*	120	19	2.0	5173	1900	200.00	2	3
115. LINK 115	*	120	50	2.0	3586	1900	200.00	2	3

RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)			*
	*	X	Y	Z	*
1. R1-HOUSE @ SW DANA	*	-10238.0	-4050.0	1.7	*
2. R2-HOUSE @ S DANA	*	-9450.0	-2817.0	1.7	*
3. R3-HOUSE @ SE DANA	*	-7992.0	-675.0	1.7	*
4. R4-HOUSE @ NE DANA	*	-10854.0	1575.0	1.7	*
5. R5-HYATT	*	-6192.0	-342.0	1.7	*
6. R6-CONDO ON BAY	*	-3996.0	-1854.0	1.7	*
7. R7-HOUSE NR LASALLE	*	2700.0	1629.0	1.7	*
8. R8-BUSINESS NR RMP	*	2142.0	3150.0	1.7	*
9. R9-AIRPORT BLDG	*	-279.0	4329.0	1.7	*
10. R10-UNKNOWN BLDG	*	2250.0	-1017.0	1.7	*
11. R11-TENNIS COURTS	*	-3504.0	-675.0	1.7	*

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JOB: LINKS STAGE I

RUN: LINKS STAGE I - YEAR 2025

MODEL RESULTS

REMARKS : IN SEARCH OF THE ANGLE CORRESPONDING TO
THE MAXIMUM CONCENTRATION, ONLY THE FIRST
ANGLE, OF THE ANGLES WITH SAME MAXIMUM

CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 0.-350.

WIND ANGLE (DEGR)	CONCENTRATION (PPM)										
* RECI	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	
0.	1.1	1.1	1.2	1.2	1.7	1.5	1.8	1.1	1.1	1.2	2.1
10.	1.1	1.1	1.2	1.2	1.6	1.6	1.9	1.1	1.1	1.2	2.0
20.	1.1	1.2	1.2	1.1	1.8	1.4	2.0	1.1	1.1	1.1	2.1
30.	1.1	1.2	1.3	1.3	1.8	1.4	2.0	1.1	1.1	1.2	2.1
40.	1.3	1.2	1.4	1.3	1.7	1.5	2.0	1.1	1.1	1.3	2.1
50.	1.4	1.3	1.7	1.3	1.7	1.5	2.0	1.1	1.1	1.1	2.1
60.	1.3	1.4	1.9	1.4	1.7	1.3	2.0	1.1	1.1	1.1	2.2
70.	1.4	1.3	2.0	1.4	1.7	1.1	1.8	1.1	1.2	1.1	2.4
80.	1.3	1.3	1.8	1.3	1.7	1.1	1.3	1.1	1.1	1.1	1.9
90.	1.3	1.3	1.8	1.4	1.7	1.1	1.1	1.1	1.1	1.1	1.3
100.	1.3	1.3	1.5	1.2	1.2	1.1	1.1	1.4	1.1	1.1	1.1
110.	1.3	1.3	1.4	1.1	1.1	1.1	1.1	2.1	1.2	1.1	1.1
120.	1.3	1.3	1.4	1.1	1.1	1.1	1.1	2.1	1.1	1.1	1.1
130.	1.3	1.3	1.4	1.1	1.1	1.1	1.1	2.0	1.4	1.1	1.1
140.	1.3	1.3	1.5	1.1	1.1	1.1	1.1	1.8	1.4	1.1	1.1
150.	1.3	1.3	1.6	1.1	1.1	1.1	1.1	1.8	1.4	1.1	1.1
160.	1.3	1.3	1.6	1.1	1.1	1.1	1.1	1.7	1.4	1.1	1.1
170.	1.3	1.3	1.5	1.1	1.1	1.1	1.1	1.7	1.4	1.1	1.1
180.	1.3	1.3	1.6	1.1	1.1	1.1	1.1	1.8	1.3	1.1	1.1
190.	1.3	1.2	1.6	1.1	1.1	1.1	1.1	1.9	1.4	1.1	1.1
200.	1.1	1.2	1.6	1.1	1.1	1.1	1.2	1.8	1.3	1.1	1.1
210.	1.1	1.1	1.2	1.1	1.1	1.1	1.2	2.0	1.4	1.1	1.1
220.	1.1	1.1	1.1	1.1	1.2	1.1	1.2	2.2	1.6	1.1	1.1
230.	1.1	1.1	1.1	1.1	1.3	1.1	1.2	2.0	1.5	1.1	1.1
240.	1.1	1.1	1.1	1.1	1.3	1.1	1.4	1.9	1.5	1.1	1.1
250.	1.1	1.1	1.1	1.1	1.3	1.1	1.9	1.9	1.6	1.1	1.1
260.	1.1	1.1	1.1	1.1	1.3	1.1	1.5	1.7	1.5	1.1	1.1
270.	1.1	1.1	1.1	1.1	1.2	1.1	1.5	1.6	1.5	1.1	1.1
280.	1.1	1.1	1.1	1.1	1.2	1.1	1.8	1.6	1.4	1.1	1.1
290.	1.1	1.1	1.1	1.1	1.3	1.1	2.5	1.3	1.1	1.3	1.4
300.	1.1	1.1	1.1	1.1	1.3	1.1	2.5	1.2	1.1	1.2	2.1
310.	1.1	1.1	1.1	1.1	1.5	1.3	2.0	1.3	1.1	1.3	2.3
320.	1.1	1.1	1.1	1.1	1.8	1.4	1.9	1.2	1.1	1.3	2.1
330.	1.1	1.1	1.1	1.1	1.9	1.5	2.0	1.2	1.1	1.1	2.1
340.	1.1	1.1	1.3	1.1	1.8	1.5	1.9	1.2	1.1	1.2	1.9
350.	1.1	1.1	1.4	1.1	1.7	1.5	1.8	1.1	1.1	1.1	2.1

THE HIGHEST CONCENTRATION OF 2.54 PPM OCCURRED AT RECEPTOR REC7 .

JOB: LINKS STAGE I

RUN: LINKS STAGE I - YEAR 2025

METEOROLOGICAL VARIABLES

U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 6.9 PPM

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JOB: LINKS STAGE I

RUN: LINKS STAGE I - YEAR 2025

MODEL RESULTS

REMARKS : IN SEARCH OF THE ANGLE CORRESPONDING TO
THE MAXIMUM CONCENTRATION, ONLY THE FIRST
ANGLE, OF THE ANGLES WITH SAME MAXIMUM
CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 0.-350.

WIND ANGLE (DEGR)	* CONCENTRATION (PPM)	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11
0.	*	6.9	6.9	7.0	7.0	7.5	7.3	7.6	6.9	6.9	7.0	7.9
10.	*	6.9	6.9	7.0	7.0	7.4	7.4	7.7	6.9	6.9	7.0	7.8
20.	*	6.9	7.0	7.0	6.9	7.6	7.2	7.8	6.9	6.9	6.9	7.9
30.	*	6.9	7.0	7.1	7.1	7.6	7.2	7.8	6.9	6.9	7.0	7.9
40.	*	7.1	7.0	7.2	7.1	7.5	7.3	7.8	6.9	6.9	7.1	7.9
50.	*	7.2	7.1	7.5	7.1	7.5	7.3	7.8	6.9	6.9	6.9	7.9
60.	*	7.1	7.2	7.7	7.2	7.5	7.1	7.8	6.9	6.9	6.9	8.0
70.	*	7.2	7.1	7.8	7.2	7.5	6.9	7.6	6.9	7.0	6.9	8.2
80.	*	7.1	7.1	7.6	7.1	7.5	6.9	7.1	6.9	6.9	6.9	7.7
90.	*	7.1	7.1	7.6	7.2	7.5	6.9	6.9	6.9	6.9	6.9	7.1
100.	*	7.1	7.1	7.3	7.0	7.0	6.9	6.9	7.2	6.9	6.9	6.9
110.	*	7.1	7.1	7.2	6.9	6.9	6.9	6.9	7.9	7.0	6.9	6.9
120.	*	7.1	7.1	7.2	6.9	6.9	6.9	6.9	7.9	6.9	6.9	6.9
130.	*	7.1	7.1	7.2	6.9	6.9	6.9	6.9	7.8	7.2	6.9	6.9
140.	*	7.1	7.1	7.3	6.9	6.9	6.9	6.9	7.6	7.2	6.9	6.9
150.	*	7.1	7.1	7.4	6.9	6.9	6.9	6.9	7.6	7.2	6.9	6.9
160.	*	7.1	7.1	7.4	6.9	6.9	6.9	6.9	7.6	7.0	6.9	6.9
170.	*	7.1	7.1	7.3	6.9	6.9	6.9	6.9	7.5	7.2	6.9	6.9
180.	*	7.1	7.1	7.4	6.9	6.9	6.9	6.9	7.6	7.1	6.9	6.9
190.	*	7.1	7.0	7.4	6.9	6.9	6.9	6.9	7.7	7.2	6.9	6.9
200.	*	6.9	7.0	7.4	6.9	6.9	6.9	7.0	7.6	7.1	6.9	6.9
210.	*	6.9	6.9	7.0	6.9	6.9	6.9	7.0	7.8	7.2	6.9	6.9
220.	*	6.9	6.9	6.9	6.9	7.0	6.9	7.0	8.0	7.4	6.9	6.9
230.	*	6.9	6.9	6.9	6.9	7.1	6.9	7.0	7.8	7.3	6.9	6.9
240.	*	6.9	6.9	6.9	6.9	7.1	6.9	7.2	7.7	7.3	6.9	6.9
250.	*	6.9	6.9	6.9	6.9	7.1	6.9	7.7	7.7	7.4	6.9	6.9
260.	*	6.9	6.9	6.9	6.9	7.1	6.9	7.3	7.5	7.3	6.9	6.9

270.	*	6.9	6.9	6.9	6.9	7.0	6.9	7.3	7.4	7.3	6.9	6.9
280.	*	6.9	6.9	6.9	6.9	7.0	6.9	7.6	7.4	7.2	7.3	6.9
290.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.3	7.1	6.9	7.1	7.2
300.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.3	7.0	6.9	7.0	7.9
310.	*	6.9	6.9	6.9	6.9	7.3	7.1	7.8	7.1	6.9	7.1	8.1
320.	*	6.9	6.9	6.9	6.9	7.6	7.2	7.7	7.0	6.9	7.1	7.9
330.	*	6.9	6.9	6.9	6.9	7.7	7.3	7.8	7.0	6.9	6.9	7.9
340.	*	6.9	6.9	7.1	6.9	7.6	7.3	7.7	7.0	6.9	7.0	7.7
350.	*	6.9	6.9	7.2	6.9	7.5	7.3	7.6	6.9	6.9	6.9	7.9

MAX	*	7.2	7.2	7.8	7.2	7.7	7.4	8.3	8.0	7.4	7.3	8.2
DEGR.	*	50	60	70	60	330	10	290	220	220	280	70

THE HIGHEST CONCENTRATION OF 8.30 PPM OCCURRED AT RECEPTOR REC7 .

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JOB: LINKS STAGE I

RUN: LINKS STAGE I - YEAR 2025

 METEOROLOGICAL VARIABLES

U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 1.1 PPM

 MODEL RESULTS

REMARKS : IN SEARCH OF THE ANGLE CORRESPONDING TO
 THE MAXIMUM CONCENTRATION, ONLY THE FIRST
 ANGLE, OF THE ANGLES WITH SAME MAXIMUM
 CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 280.-300.

WIND ANGLE (DEGR)*	CONCENTRATION (PPM)	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11
280.	*	1.1	1.1	1.1	1.1	1.2	1.1	1.8	1.6	1.4	1.5	1.1
281.	*	1.1	1.1	1.1	1.1	1.2	1.1	1.8	1.6	1.3	1.5	1.1
282.	*	1.1	1.1	1.1	1.1	1.2	1.1	1.8	1.6	1.3	1.4	1.1
283.	*	1.1	1.1	1.1	1.1	1.3	1.1	1.9	1.6	1.3	1.3	1.2
284.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.0	1.5	1.2	1.3	1.2
285.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.0	1.5	1.2	1.3	1.3
286.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.1	1.5	1.2	1.3	1.3
287.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.2	1.4	1.2	1.3	1.3
288.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.3	1.4	1.1	1.3	1.4
289.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.4	1.4	1.1	1.3	1.4
290.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.5	1.3	1.1	1.3	1.4
291.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.6	1.3	1.1	1.2	1.5
292.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.7	1.3	1.1	1.2	1.5
293.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.7	1.2	1.1	1.1	1.6

294.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.6	1.2	1.1	1.2	1.7
295.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.6	1.2	1.1	1.2	1.7
296.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.6	1.2	1.1	1.2	1.8
297.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.5	1.2	1.1	1.2	1.8
298.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.5	1.2	1.1	1.2	1.8
299.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.5	1.2	1.1	1.2	2.0
300.	*	1.1	1.1	1.1	1.1	1.3	1.1	2.5	1.2	1.1	1.2	2.1

MAX	*	1.1	1.1	1.1	1.1	1.3	1.1	2.7	1.6	1.4	1.5	2.1
DEGR.	*	280	280	280	280	283	280	292	280	280	280	300

THE HIGHEST CONCENTRATION OF 2.74 PPM OCCURRED AT RECEPTOR REC7 .

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JOB: LINKS STAGE I

RUN: LINKS STAGE I - YEAR 2025

METEOROLOGICAL VARIABLES

U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 6.9 PPM

MODEL RESULTS

REMARKS : IN SEARCH OF THE ANGLE CORRESPONDING TO
THE MAXIMUM CONCENTRATION, ONLY THE FIRST
ANGLE, OF THE ANGLES WITH SAME MAXIMUM
CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 280.-300.

WIND ANGLE (DEGR)	CONCENTRATION	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11
280.	*	6.9	6.9	6.9	6.9	7.0	6.9	7.6	7.4	7.2	7.3	6.9
281.	*	6.9	6.9	6.9	6.9	7.0	6.9	7.6	7.4	7.1	7.3	6.9
282.	*	6.9	6.9	6.9	6.9	7.0	6.9	7.6	7.4	7.1	7.2	6.9
283.	*	6.9	6.9	6.9	6.9	7.1	6.9	7.7	7.4	7.1	7.1	7.0
284.	*	6.9	6.9	6.9	6.9	7.1	6.9	7.8	7.3	7.0	7.1	7.0
285.	*	6.9	6.9	6.9	6.9	7.1	6.9	7.8	7.3	7.0	7.1	7.1
286.	*	6.9	6.9	6.9	6.9	7.1	6.9	7.9	7.3	7.0	7.1	7.1
287.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.0	7.2	7.0	7.1	7.1
288.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.1	7.2	6.9	7.1	7.2
289.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.2	7.2	6.9	7.1	7.2
290.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.3	7.1	6.9	7.1	7.2
291.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.4	7.1	6.9	7.0	7.3
292.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.5	7.1	6.9	7.0	7.3
293.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.5	7.0	6.9	6.9	7.4
294.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.4	7.0	6.9	7.0	7.5
295.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.4	7.0	6.9	7.0	7.5

296.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.4	7.0	6.9	7.0	7.6
297.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.3	7.0	6.9	7.0	7.6
298.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.3	7.0	6.9	7.0	7.6
299.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.3	7.0	6.9	7.0	7.8
300.	*	6.9	6.9	6.9	6.9	7.1	6.9	8.3	7.0	6.9	7.0	7.9
-----*												
MAX	*	6.9	6.9	6.9	6.9	7.1	6.9	8.5	7.4	7.2	7.3	7.9
DEGR.	*	280	280	280	280	283	280	292	280	280	280	300

THE HIGHEST CONCENTRATION OF 8.50 PPM OCCURRED AT RECEPTOR REC7 .