

AIRPOL VERSION 78.2

AIRPOL INPUT DATA

< 1-10 >< 11-20 >< 21-30 >< 31-40 >< 41-50 >< 51-60 >< 61-70 >< 71-80 >

VCM RELEASE 2-2 79

44. 14.83.0023

61.3 62.5 61200.

68000.

163.

1000.

10000.

100

15.

11

61.3 62.5

61500.

163.

.50

50.

0.

0.

4.0

9.0

2

< 1-10 >< 11-20 >< 21-30 >< 31-40 >< 41-50 >< 51-60 >< 61-70 >< 71-80 >

TOTAL CARDS PROCESSED = 5

VCM RELEASE 2-2 79

AIR POLLUTION PREDICTION PROGRAM - MULTIPLE STACK VERSION

PROGRAM USED HOLLANDS METHOD TO CALCULATE EFFECTIVE STACK HEIGHT

PROGRAM USE PASQUILL'S METHOD TO CALCULATE CONCENTRATIONS

CONCENTRATION VALUES ARE BASED ON 15. MINUTE TIME INTERVALS

AMBIENT TEMPERATURE,

DEG F

44.0

ATMOSPHERIC PRESSURE

PSIA

14.83

WIND SPEED

MILES PER HR

9.00

WIND DIRECTION (FROM)

SOUTH-EAST

STABILITY CLASS

B

MIXING DEPTH,

METERS

2000.

DELTA DOWNWIND,

FT

100.

DELTA CROSSWIND,

FT

20.

BASE TIME

MINUTES

15.0

CONCENTRATION TIME-AVERAGING FACTOR

1.000

STACK NUMBER

1

2

MOLECULAR WEIGHT OF STACK GASES

61.30

61.30

MOLECULAR WEIGHT OF CONTAMINANT

62.50

62.50

OUTPUT RATE OF STACK GASES,

LBS PER HR

67999.9

61560.0

OUTPUT RATE OF CONTAMINANT,

LBS PER HR

61200.0

0.0

STACK CONCENTRATION

PPM(VOL/VOL)

882720.00

0.0

TEMPERATURE OF STACK GASES,

DEG F

163.0

163.0

DIAMETER OF STACK,

FT

0.50

0.50

EFFECTIVE STACK HEIGHT,

FT

106.14

101.53

HEIGHT OF STACK,

FT

50.0

50.0

STACK EXIT VELOCITY,

FT PER SEC

706.77

639.83

"X" COORDINATE OF STACK (ACTUAL),

FT

0.0

10.0

"Y" COORDINATE OF STACK (ACTUAL),

FT

0.0

0.0

DOWNWIND CO-ORDINATE OF STACK

FT

0.0

-7.1

CROSSWIND CO-ORDINATE OF STACK

FT

0.0

-7.1

MAXIMUM CONCENTRATION AND ITS LOCATION:

88.47701 PPM(VOL/VOL)

243293.687 MICROGRAMS/CUBIC METER

"X" COORDINATE (ACTUAL)

-500. FEET

"Y" COORDINATE (ACTUAL)

500. FEET

DOWNWIND COORDINATE

800. FEET

CROSSWIND COORDINATE

0. FEET

TIME-AVERAGING FACTORS

TIME, MIN. FACTOR

3

1.22

15

1.00

60

0.74

180

0.59

480

0.49

1440

0.18

* STACK LOCATION

BLANK

< 9. PPM

1

9. TO < 18. PPM

2

18. TO < 27. PPM

3

27. TO < 35. PPM

4

35. TO < 44. PPM

5

44. TO < 53. PPM

6

53. TO < 62. PPM

7

62. TO < 71. PPM

8

71. TO < 80. PPM

9

80. TO < 88. PPM

+

88. PPM

DTH 000070272

C

[illegible]