EXHIBIT E

AGENT TRANSPORT MODELING

CSGPO-453 / 0102 / p2

Wind Direction and Speed During period of TOCDF ACAMS PAS Alarms

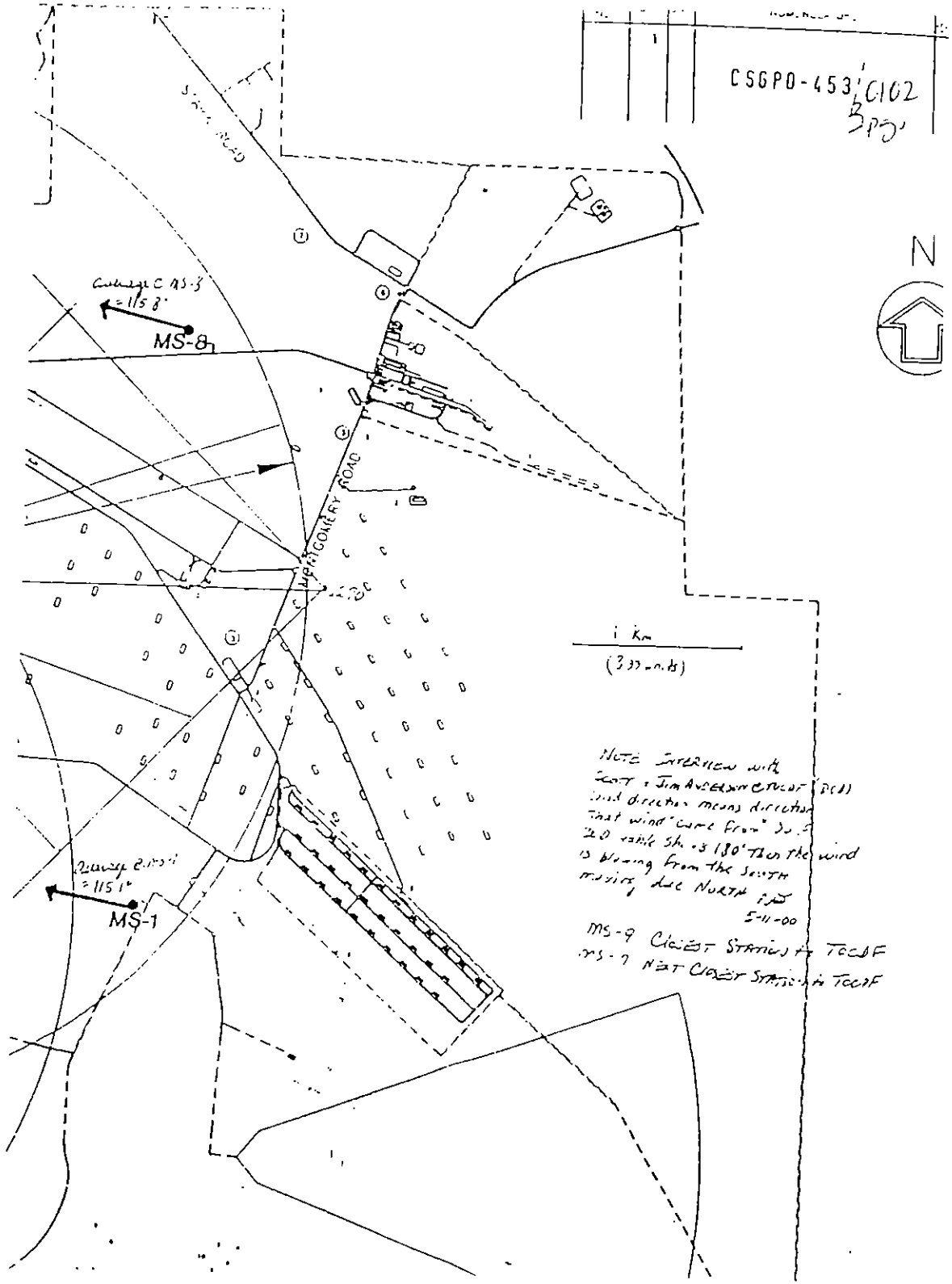
Date	Tower ID	Time (LST)	Wind SP (M/S)	Tower ID	Wind Direction	Distance, m	Scale Units	Average Direction
05/08/2000	1	23.15	0 8	1	137.9	720	6.0	115.1
05/08/2000	1	23.30	1 4	1	104.8	1260	10 5	
05/08/2000	1	23.45	2 3	1	79 6	2070	17.3	
05/08/2000	1	0 00	1.2	1	120.6	1080	9 0	
05/09/2000	1	0:15	1 3	1	133 5	1170	9 8	
05/09/2000	1	0.30	1 1	1	102 9	990	8 3	
05/09/2000	1	0 45	0 9	1	137 2	810	6 8	
05/09/2000	1	1:00	0 7	1	104 5	630	5 3	
05/08/2000	2	23 15	0 6	2	135 1	540	4 5	105 0
05/08/2000	2	23:30	1 7	2	101 5	1530	12 8	
05/08/2000	2	23 45	1 6	2	57 4	1440	12 0	
05/08/2000	2	0:00	1 8	2	86 9	1620	13.5	
05/09/2000	2	0.15	1 5	2	115 8	1350	11.3	
05/09/2000	2	0.30	0 8	2	145 8	720	6 0	
05/09/2000	2	0 45	0 9	2	86 1	810	6 8	
05/09/2000	2	1 00	0 3	2	111 1	270	2.3	
05/08/2000	3	23 15	3 1	3	207 9	2790	23 3	158.5
05/08/2000	3	23 30	3	3	189.2	2700	22.5	
05/08/2000	3	23.45	2 1	3	154 4	1890	15.8	
05/08/2000	3	0 00	1 3	3	81 9	1170	9.8	
05/09/2000	3	0.15	0.9	3	90 9	810	6.8	
05/09/2000	3	0:30	1 6	3	164 6	1440	12 0	
05/09/2000	3	0:45	1 5	3	197 6	1350	11 3	
05/09/2000	3	1:00	1	3	181.3	900	7.5	
05/08/2000	4	23 15	2 3	4	192 7	2070	17.3	185 2
05/08/2000	4	23 30	3 2	4	191.6	2880	24.0	
05/08/2000	4	23:45	2.1	4	184.7	1890	15.8	
05/08/2000	4	0:00	2 2	4	92	1980	16.5	
05/09/2000	4	0 15	2.5	4	125 6	2250	18 8	
05/09/2000	4	0.30	2.2	4	149	1980	16 5	
05/09/2000	4	0:45	0.8	4	281.1	720	6.0	
05/09/2000	4	1 00	0 5	4	265	450	3.8	

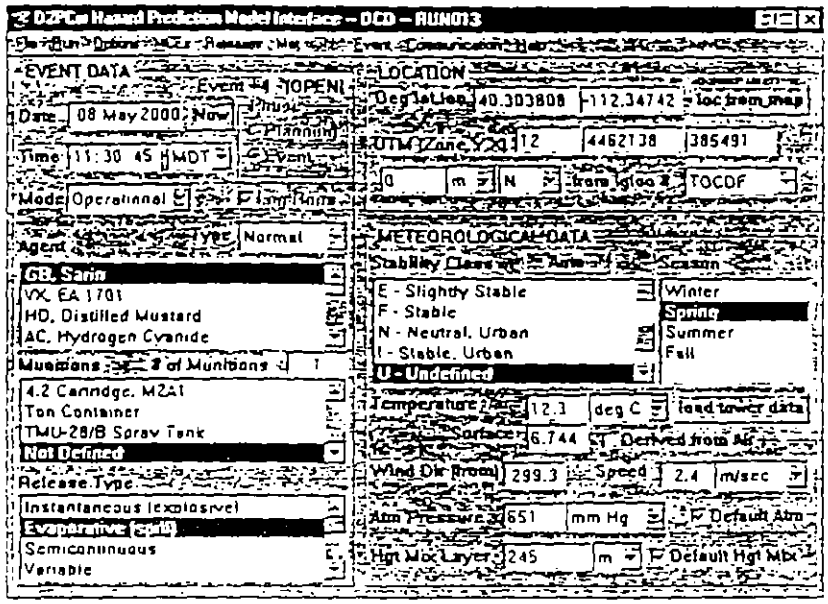
CSGPO-453/0102
2 pgs.

Wind Direction and Speed During period of TOCDF ACAMS PAS Alarms

Date	Tower ID	Time (LST)	Wind SP (M/S)	Tower ID	Wind Direction	Distance, m	Scale Units	Average Direction
05/08/2000	5	23:15	0 8	5	152 8	720	6 0	136.4
05/08/2000	5	23 30	1.6	5	180	1440	12.0	
05/08/2000	5	23:45	1 3	5	93 3	1170	9 8	
05/08/2000	5	0.00	2 3	5	107	2070	17 3	
05/09/2000	5	0.15	1 4	5	123 3	1260	10 5	
05/09/2000	5	0 30	0 9	5	152.5	810	6.8	
05/09/2000	5	0.45	0 4	5	186 2	360	3 0	
05/09/2000	5	1 00	0 3	5	96 2	270	2 3	
05/08/2000	6	23:15	2 7	6	147 2	2430	20 3	121.0
05/08/2000	6	23.30	1 9	6	112 8	1710	14 3	
05/08/2000	6	23.45	0 9	6	94 4	810	6 8	
05/08/2000	6	0 00	2 4	6	128 2	2160	18.0	
05/09/2000	6	0.15	1 3	6	129 3	1170	9 8	
05/09/2000	6	0 30	0 2	6	93 2	180	1 5	
05/09/2000	6	0 45	0	6	100 1	0	0 0	
05/09/2000	6	1:00	1.1	6	162 5	990	8 3	
05/08/2000	7	23 15	1 6	7	127 4	1440	12.0	108.5
05/08/2000	7	23 30	1 6	7	93 3	1440	12.0	
05/08/2000	7	23:45	1 8	7	99 7	1620	13.5	
05/08/2000	7	0.00	1 5	7	131 9	1350	11.3	
05/09/2000	7	0 15	1 9	7	101 4	1710	14.3	
05/09/2000	7	0:30	1 8	7	100 3	1620	13.5	
05/09/2000	7	0.45	1 6	7	97 6	1440	12 0	
05/09/2000	7	1 00	2.6	7	116 1	2340	19 5	
05/08/2000	8	23:15	0 5	8	189 1	450	3 8	115 8
05/08/2000	8	23:30	1 6	8	97 1	1440	12 0	
05/08/2000	8	23.45	2 4	8	84	2160	18 0	
05/08/2000	8	0:00	1 4	8	93	1260	10 5	
05/08/2000	9	23.15	1 8	9	161.6	1620	13 5	126.6
05/08/2000	9	23.30	1.3	9	110.9	1170	9.8	
05/08/2000	9	23:45	1 3	9	128 5	1170	9 8	
05/08/2000	9	0.00	0 5	9	131 2	450	3 8	
05/09/2000	9	0 15	1.7	9	105	1530	12.8	
05/09/2000	9	0:30	1 9	9	127.1	1710	14.3	
05/09/2000	9	0.45	2 1	9	108	1890	15.8	
05/09/2000	9	1.00	2.2	9	140.4	1980	16.5	

CSGPO-453, C102
3 pg




D2PCw Hazard Prediction Model Interface - DCD - RUN013
EVENT DATA
Event # 1 [OPEN]
Date 08 May 2000 Now
Planning
Time 11:30 45 MDT
Event
Mode Operational
Agent Type Normal
GB, Sarin
VX, EA 1701
HD, Distilled Mustard
AC, Hydrogen Cyanide
Munitions # of Munitions 1
4.2 Canndge, M2A1
Ton Container
TMU-28/B Spray Tank
Not Defined
Release Type
Instantaneous (explosive)
Evaporative (pool)
Semicontinuous
Variable
LOCATION
Deg Lat Long 40.303808 -112.34742 loc from map
UTM Zone Y X 12 4462138 385491
0 m N from igloo # TOCDF
METEOROLOGICAL DATA
Stability Class Auto
E - Slightly Stable
F - Stable
N - Neutral, Urban
I - Stable, Urban
U - Undefined
Season
Winter
Spring
Summer
Fall
Temperature 2 Meter 12.3 deg C load tower data
Surface 6.744 Derived from Air
Wind Dir From 299.3 Speed 2.4 m/sec
Atm Pressure 651 mm Hg Default Atm
Hgt Mix Layer 245 m Default Hgt Mix

IBM-PC VERSION

Event ID: 004
Run ID: 013
Plume ID: GB NON-1 2.4m/s@299.3 EVP stb:U

Event Site: DESERET CHEMICAL DEPOT
Date/Time of Event: Mon May 8 11:30:45 MDT 2000
Date/Time of Model Run: Tue May 9 05:21:50 MDT 2000

Agent: GB
Release: NON 1 EVP
Location: 40 18 13.71 N 112 20 50.71 W
Igloo: TOCDF
Igloo Distance: 0 meter(s) N

Wind Direction: 299.3 deg (from)
Wind Speed: 2.4 m/s (5.37 mph)
Stability Class: U (auto stability calculates F)
Auto Stb Method: Temp Gradient/Solar Radiation
Wind Sigma: 7.5 degrees
Air Temp: 12.3 C (54.1 F)
Surface Temp: 6.7 C (44.1 F)
Met Change: None
Wedge Angle: +/- 33 deg

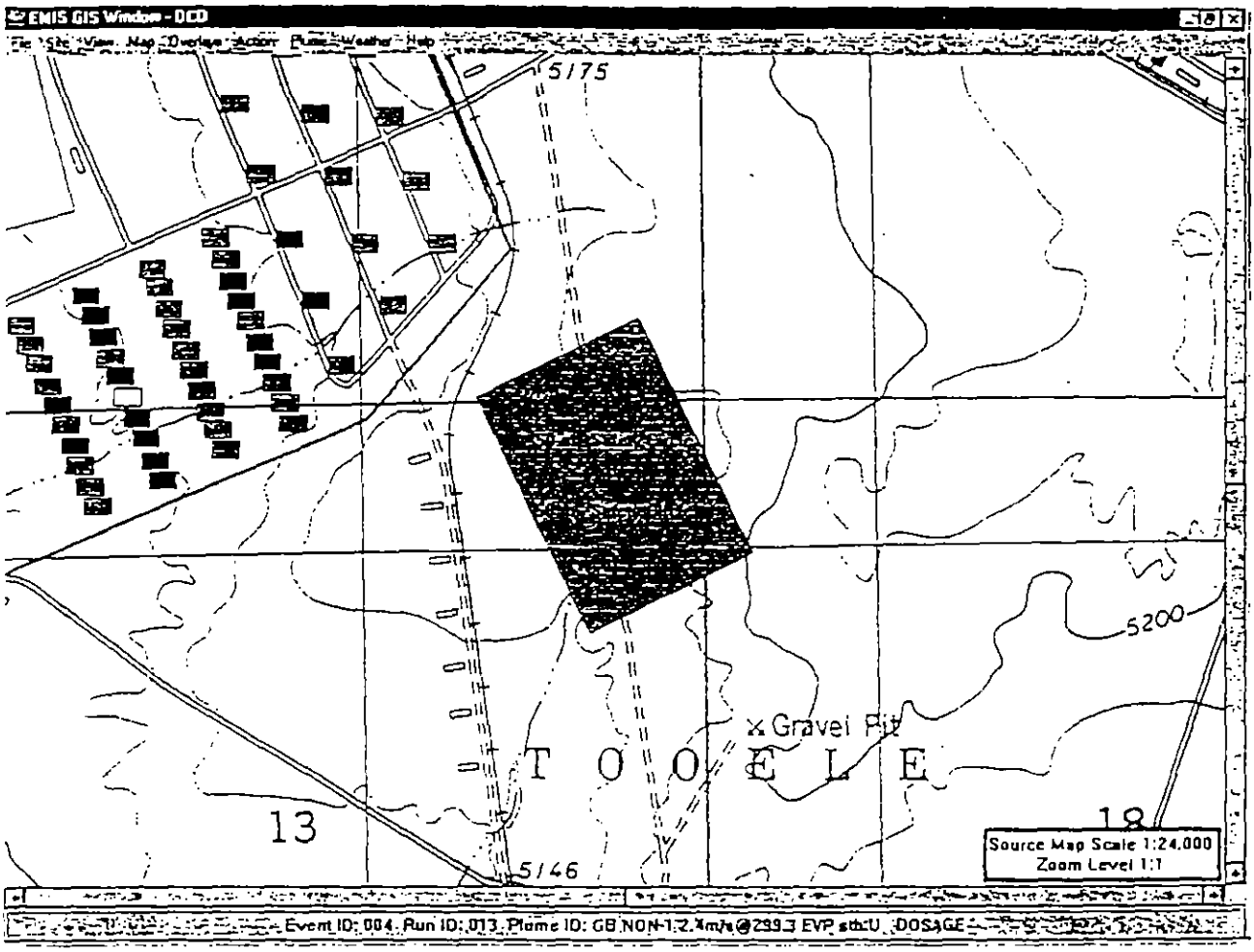
Dosages:
Distance to "1% LETHALITY": 0.00 mi (0.0 m)
Distance to "NO DEATHS": 0.00 mi (0.0 m)
Distance to "NO EFFECTS": 0.00 mi (1.5 m)
Concentrations:
Distance to "DAAMS": 0.00 mi (1.5 m)

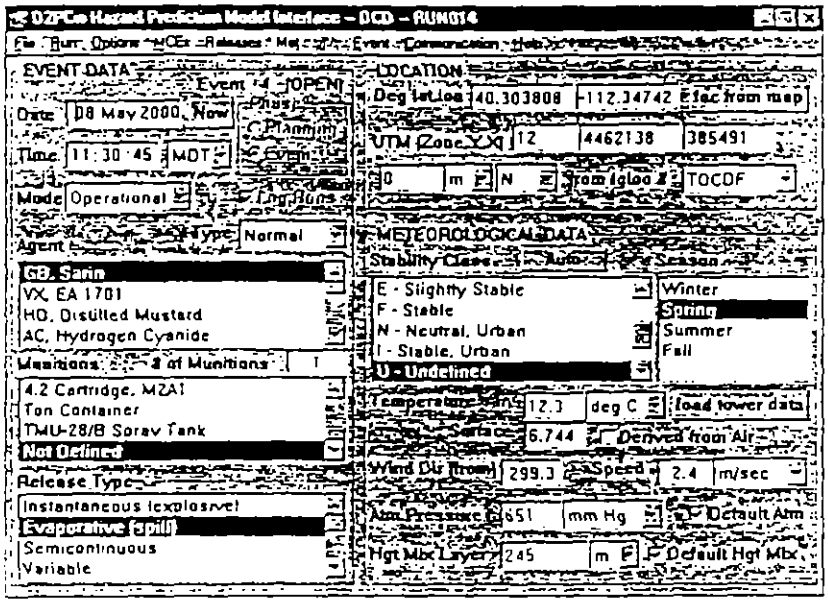
The PARDOS model cannot be run for this plume.
The D2PC plume is shorter than the minimum length (100m)
that PARDOS can work with.

```
          | DOWNWIND HAZARD PROGRAM D2PC V2.0.8 |

   TYPE ? FOR DEFINITIONS

 1. YOUR NOVICE LEVEL: 3,2,1 OR 0 NOV
 INPUT: 0

 2. LOCATION                        LOC
 INPUT: DPG

 3. SEASON                          SEA
 INPUT: SPR

 5. MUNITION TYPE                   MUN
 INPUT: NON

 6. AGENT TYPE                      AGN
 INPUT: GB

 8. RELEASE TYPE                    REL
 INPUT: EVP

 9. STABILITY TYPE                  STB
 INPUT: U

10. WINDSPEED (M/SEC)               WND
 INPUT: 2.4000001

11. ALF, SYR(M), BTA, SZR(M)
 INPUT: 0.69999999    13.08997      0.75          2.5
BRT=25. DI=      .5     6.0    10.0

 7. SPILL OR AIRBORNE SOURCE (MG) QQQ
 INPUT: 34.900002

    SURFACE
12. TEMPERATURE (DEG C)             TMP
 INPUT: 6.7444448

17. SURFACE CODE                    SUR
 INPUT: NPR

18. TIME OF EVAPORATION (MIN)       TEV
 INPUT: 60
NPR  EVR=1.146E+04(MG/MIN-SQ M)  AREA=4.223E-05(SQ M)  VPR=8.409E-01
Q=3.490E+01(MG)  Q'=2.903E+01(MG)    TEV=6.000E+01(MIN)
ALL OTHER INPUT
WMU 1
TMP 6.7444448
OPO 3
QQQ 34.900002
HLD QQQ
ALL
 2. LOCATION                        LOC  DPG
 3. SEASON                          SEA  SPR
 5. MUNITION TYPE                   MUN  NON
 6. AGENT TYPE                      AGN  GB
 8. RELEASE TYPE                    REL  EVP
 9. STABILITY TYPE                  STB  U
10. WINDSPEED (M/SEC)               WND      2.40
11. ALF, SYR(M), BTA, SZR(M)                  .70      13.09        .75       2.50
BRT=25. DI=      .5     6.0    10.0
 7. SPILL OR AIRBORNE SOURCE (MG) QQQ 3.490E+01
    SURFACE
12. TEMPERATURE (DEG C)             TMP      6.74
17. SURFACE CODE                    SUR  NPR
18. TIME OF EVAPORATION (MIN)       TEV     60.00
NPR  EVR=1.146E+04(MG/MIN-SQ M)  AREA=4.223E-05(SQ M)  VPR=8.409E-01
Q=3.490E+01(MG)  Q'=2.903E+01(MG)    TEV=6.000E+01(MIN)
ALL OTHER INPUT
SYR 13.08997
ZMC 0
```

```
ALL

   1 MUN:NON  AGN:GB  REL:EVP  WND= 2.4(M/S)  TMP= 6.7(C)  DPG-SPR STB:U

   Q(MG)    TS(MIN)  HTS(M)    HML(M)    SXS(M)    SYS(M)    SZS(M)
2.903E+01 6.00E+01 0.00E+00 2.45E+02 2.17E-03 2.17E-03 1.00E-01  U

   ALF   SYR   BTA   SZR        XY(M)    XZ(M)     U(M/S)
   .70 13.09   .75  2.50       4.0E-04 1.4E+00    2.40

     DOSAGE CONTOURS    1.    6.   10.

      X        DP    CONTOUR HALF-WIDTH
        1. 8.157E-01    1.

        1. (M) IS DISTANCE TO NO EFFECTS


   DOSAGE      AREA
 1.000E+01 0.000E+00
 6.000E+00 0.000E+00
 5.000E-01 1.031E+01
ALL OTHER INPUT
RST
    TYPE ? FOR DEFINITIONS

 1. YOUR NOVICE LEVEL: 3,2,1 OR 0 NOV
 INPUT: 0

 2. LOCATION                      LOC
 INPUT: DPG

 3. SEASON                        SEA
 INPUT: SPR

 5. MUNITION TYPE                 MUN
 INPUT: NON

 6. AGENT TYPE                    AGN
 INPUT: GB

 8. RELEASE TYPE                  REL
 INPUT: EVP

 9. STABILITY TYPE                STB
 INPUT: U

10. WINDSPEED (M/SEC)             WND
 INPUT: 2.4000001

11. ALF, SYR(M), BTA, SZR(M)
 INPUT: 0.69999999    13.08997      0.75          2.5
BRT=25. DI=      .5     6.0    10.0

 7. SPILL OR AIRBORNE SOURCE (MG) QQQ
 INPUT: 34.900002

    SURFACE
12. TEMPERATURE (DEG C)           TMP
 INPUT: 6.7444448

17. SURFACE CODE                  SUR
 INPUT: NPR

18. TIME OF EVAPORATION (MIN)     TEV
 INPUT: 60
NPR  EVR=1.146E+04(MG/MIN-SQ M)  AREA=4.223E-05(SQ M)  VPR=8.409E-01
Q=3.490E+01(MG)  Q'=2.903E+01(MG)    TEV=6.000E+01(MIN)
ALL OTHER INPUT
IMA 1
 DEFINE NCI
```

```
TMP 6.7444448
OPO 3
QQQ 34.900002
HLD QQQ
ALL
 2. LOCATION                        LOC  DPG
 3. SEASON                          SEA  SPR
 5. MUNITION TYPE                   MUN  NON
 6. AGENT TYPE                      AGN  GB
 8. RELEASE TYPE                    REL  EVP
 9. STABILITY TYPE                  STB  U
10. WINDSPEED (M/SEC)               WND      2.40
11. ALF, SYR(M), BTA, SZR(M)                  .70      13.09        .75       2.50
 7. SPILL OR AIRBORNE SOURCE (MG)  QQQ 3.490E+01
    SURFACE
12. TEMPERATURE (DEG C)             TMP      6.74
17. SURFACE CODE                    SUR  NPR
18. TIME OF EVAPORATION (MIN)       TEV     60.00
NPR  EVR=1.146E+04(MG/MIN-SQ M)  AREA=4.223E-05(SQ M)  VPR=8.409E-01
Q=3.490E+01(MG)  Q'=2.903E-01(MG)     TEV=6.000E+01(MIN)
ALL OTHER INPUT
NCI 1
 INPUT: CI()S  (ASCENDING)
0.0082
ALL OTHER INPUT
SYR 13.08997
2MC 0
HLD 2MC
ALL


   1 MUN:NON  AGN:GB  REL:EVP  WND= 3.4(M/S)  TMP= 6.7(C)  DPG-SPR STB:U

    Q(MG)     TS(MIN)    HTS(M)     HML(M)       WND
  2.903E-01 6.000E-01 0.000E-00 2.450E-02 2.400E-00      U

   ALF    SYR    BTA    SZR         SYS(M)  SZS(M)  XY(M)    XZ(M)    XC(M)
   .70  13.09    .75   2.50        2.2E-03 1.0E-01 4.0E-04 1.4E-00 4.9E+04

      CONCENTRATIONS    0.

       X        CP     CONTOUR HALF-WIDTHS
        1.  1.359E-02     1.

        2.*  8.200E-03
       10.  8.366E-04


    C         AREA
8.200E-03 1.048E-01

ALL OTHER INPUT
STP
```


EMIS GIS Window - DCD
5175
5200
Gravel Pit
T O O E L E
13
18
5146
Source Map Scale 1:24,000
Zoom Level 1:1
Event ID: 004, Run ID: 013, Plume ID: GB NON-1:2.4m/s@299.3 EVP sfc:U DOSAGE


EVENT DATA
Event 14 - OPEN
Date 08 May 2000, Now
Time 11:30:45 MDT
Mode Operational
Type Normal
Agent
GB, Sarin
VX, EA 1701
HD, Distilled Mustard
AC, Hydrogen Cyanide
Munitions # of Munitions 1
4.2 Cartridge, M2A1
Ton Container
TMU-28/B Spray Tank
Not Defined
Release Type
Instantaneous (explosive)
Evaporative (pool)
Semicontinuous
Variable
LOCATION
Deg Lat,Lon 40.303808 -112.34742 Elev from map
UTM (Zone XX) 12 4462138 385491
0 m N from Igloo # TOCDF
METEOROLOGICAL DATA
Stability Class Auto Season
E - Slightly Stable
F - Stable
N - Neutral, Urban
I - Stable, Urban
U - Undefined
Winter
Spring
Summer
Fall
Temperature 12.3 deg C load tower data
6.744 Derived from Air
Wind Dir (from) 299.3 Speed 2.4 m/sec
Atm Pressure 651 mm Hg Default Atm
Hgt Mix Layer 245 m Default Hgt Mix

IBM-PC VERSION

Event ID: 004
Run ID: 014
Plume ID: GB NON-1 2.4m/s@299.3 EVP stb:U

Event Site: DESERET CHEMICAL DEPOT
Date/Time of Event: Mon May 8 11:30:45 MDT 2000
Date/Time of Model Run: Tue May 9 05:22:37 MDT 2000

Agent: GB
Release: NON 1 EVP
Location: 40 18 13.71 N 112 20 50.71 W
Igloo: TOCDF
Igloo Distance: 0 meter(s) N

Wind Direction: 299.3 deg (from)
Wind Speed: 2.4 m/s (5.37 mph)
Stability Class: U (auto stability calculates F)
Auto Stb Method: Temp Gradient/Solar Radiation
Wind Sigma: 7.5 degrees
Air Temp: 12.3 C (54.1 F)
Surface Temp: 6.7 C (44.1 F)
Met Change: None
Wedge Angle: +/- 33 deg

Dosages:
Distance to "1% LETHALITY": 0.00 mi (0.0 m)
Distance to "NO DEATHS": 0.00 mi (0.0 m)
Distance to "NO EFFECTS": 0.00 mi (1.5 m)
Concentrations:
Distance to "DAAMS": 0.00 mi (1.5 m)

The PARDOS model cannot be run for this plume.
The D2PC plume is shorter than the minimum length (100m)
that PARDOS can work with.

```
          | DOWNWIND HAZARD PROGRAM D2PC V2.0.8 |
          ..........................................
    TYPE ? FOR DEFINITIONS

  1. YOUR NOVICE LEVEL: 3,2,1 OR 0 NOV
  INPUT: 0

  2. LOCATION                        LOC
  INPUT: DPG

  3. SEASON                          SEA
  INPUT: SPR

  5. MUNITION TYPE                   MUN
  INPUT: NON

  6. AGENT TYPE                      AGN
  INPUT: GB

  8. RELEASE TYPE                    REL
  INPUT: EVP

  9. STABILITY TYPE                  STB
  INPUT: U

 10. WINDSPEED (M/SEC)               WND
  INPUT: 2.4000001

 11. ALF, SYR(M), BTA, SZR(M)
  INPUT: 0.69999999    13.08997      0.75          2.5
BRT=25, DI=       .5     6.0    10.0

  7. SPILL OR AIRBORNE SOURCE (MG) QQQ
  INPUT: 34.900002

     SURFACE
 12. TEMPERATURE (DEG C)             TMP
  INPUT: -6.7444448

 17. SURFACE CODE                    SUR
  INPUT: NPR

 18. TIME OF EVAPORATION (MIN)       TEV
  INPUT: 60
NPR  EVR=1.146E+04(MG/MIN-SQ M)  AREA=4.223E-05(SQ M)  VPR=8.409E-01
Q=3.490E+01(MG)  Q'=2.903E-01(MG)    TEV=6.000E-01(MIN)
ALL OTHER INPUT
IMU 1
TMP 6.7444448
OPO 3
QQQ 34.900002
HLD QQQ
ALL
  2. LOCATION                        LOC  DPG
  3. SEASON                          SEA  SPR
  5. MUNITION TYPE                   MUN  NON
  6. AGENT TYPE                      AGN  GB
  8. RELEASE TYPE                    REL  EVP
  9. STABILITY TYPE                  STB  U
 10. WINDSPEED (M/SEC)               WND      2.40
 11. ALF, SYR(M), BTA, SZR(M)                  .70      13.09        .75       2.50
BRT=25, DI=       .5     6.0    10.0
  7. SPILL OR AIRBORNE SOURCE (MG) QQQ 3.490E+01
     SURFACE
 12. TEMPERATURE (DEG C)             TMP      6.74
 17. SURFACE CODE                    SUR  NPR
 18. TIME OF EVAPORATION (MIN)       TEV     60.00
NPR  EVR=1.146E+04(MG/MIN-SQ M)  AREA=4.223E-05(SQ M)  VPR=8.409E-01
Q=3.490E+01(MG)  Q'=2.903E-01(MG)    TEV=6.000E-01(MIN)
ALL OTHER INPUT
SYR 13.08997
2MC 0
```

ALL

1 MUN:NON AGN:GB REL:EVP WND= 2.4(M/S) TMP= 6.7(C) DPG-SPR STB:U

Q(MG)	TS(MIN)	HTS(M)	HML(M)	SXS(M)	SYS(M)	SZS(M)	
2.903E+01	6.00E+01	0.00E+00	2.45E+02	2.17E-03	2.17E-03	1.00E-01	U

ALF	SYR	BTA	SZR	XY(M)	XZ(M)	U(M/S)
.70	13.09	.75	2.50	4.0E-04	1.4E+00	2.40

DOSAGE CONTOURS 1. 6. 10.

X	DP	CONTOUR HALF-WIDTH
1.	8.157E-01	1.

1. (M) IS DISTANCE TO NO EFFECTS

DOSAGE	AREA
1.000E-01	0.000E-00
6.000E+00	0.000E+00
5.000E-01	1.031E+01

ALL OTHER INPUT
RST
TYPE ? FOR DEFINITIONS

1. YOUR NOVICE LEVEL: 3,2,1 OR 0 NOV
INPUT: 0

2. LOCATION LOC
INPUT: DPG

3. SEASON SEA
INPUT: SPR

5. MUNITION TYPE MUN
INPUT: NON

6. AGENT TYPE AGN
INPUT: GB

8. RELEASE TYPE REL
INPUT: EVP

9. STABILITY TYPE STB
INPUT: U

10. WINDSPEED (M/SEC) WND
INPUT: 2.4000001

11. ALF, SYR(M), BTA, SZR(M)
INPUT: 0.69999999 13.08997 0.75 2.5
BRT=25. DI= .5 6.0 10.0

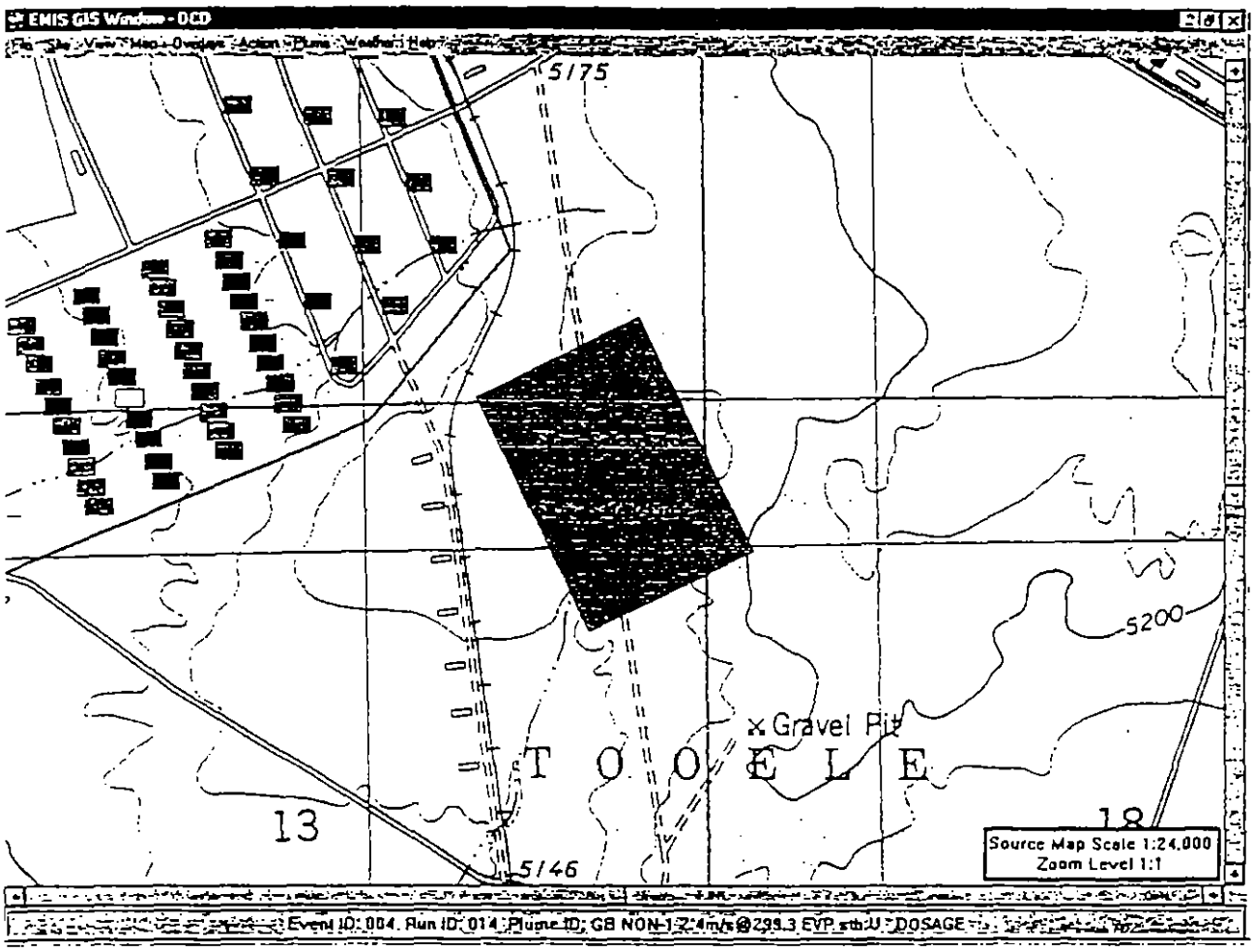
7. SPILL OR AIRBORNE SOURCE (MG) QQQ
INPUT: 34.900002

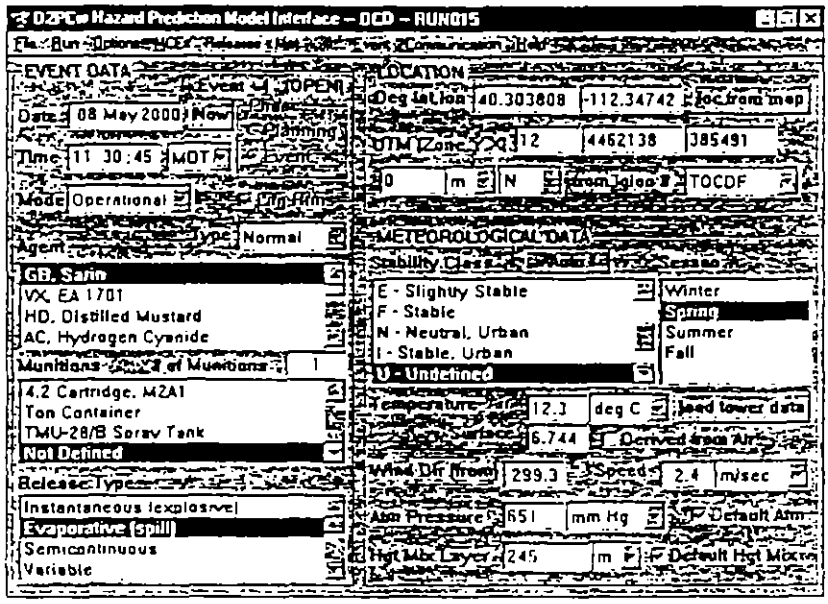
SURFACE
12. TEMPERATURE (DEG C) TMP
INPUT: 6.7444448

17. SURFACE CODE SUR
INPUT: NPR

18. TIME OF EVAPORATION (MIN) TEV
INPUT: 60
NPR EVR=1.146E+04(MG/MIN-SQ M) AREA=4.223E-05(SQ M) VPR=8.409E-01
Q=3.490E+01(MG) Q'=2.903E+01(MG) TEV=6.000E+01(MIN)
ALL OTHER INPUT
IMA 1
DEFINE NCI

```
TMP 6.7444448
OPO 3
QQQ 34.900002
HLD QQQ
ALL
 2. LOCATION                        LOC  DPG
 3. SEASON                          SEA  SPR
 5. MUNITION TYPE                   MUN  NON
 6. AGENT TYPE                      AGN  GB
 8. RELEASE TYPE                    REL  EVP
 9. STABILITY TYPE                  STB  U
10. WINDSPEED (M/SEC)               WND      2.40
11. ALF, SYR(M), BTA, SZR(M)                  .70      13.09        .75       2.50
 7. SPILL OR AIRBORNE SOURCE (MG)   QQQ 3.490E+01
    SURFACE
12. TEMPERATURE (DEG C)             TMP      6.74
17. SURFACE CODE                    SUR  NPR
18. TIME OF EVAPORATION (MIN)       TEV     60.00
NPR  EVR=1.146E+04(MG/MIN-SQ M)  AREA=4.223E-05(SQ M)  VPR=8.409E-01
Q=3.490E+01(MG)  Q'=2.903E+01(MG)    TEV=6.000E+01(MIN)
ALL OTHER INPUT
NCI 1
 INPUT: CI()S  (ASCENDING)
0.0082
ALL OTHER INPUT
SYR 13.08997
2MC 0
HLD 2MC
ALL


   1 MUN:NON  AGN:GB  REL:EVP  WND= 2.4(M/S)  TMP= 6.7(C)  DPG-SPR STB:U

    Q(MG)     TS(MIN)    HTS(M)     HML(M)       WND
  2.903E-01 6.000E+01 0.000E-00 2.450E-02 2.400E+00      U

   ALF    SYR    BTA    SZR         SYS(M)  SZS(M)  XY(M)    XZ(M)    XC(M)
   .70  13.09     75   2.50        2.2E-03 1.0E-01 4.0E-04 1.4E-00 4.9E+04

      CONCENTRATIONS     0.

       X        CP     CONTOUR HALF-WIDTHS
        1. 1.359E-02     1.

        2.*  8.200E-03
       10. 8.366E-04


    C         AREA
8.200E-03 1.048E-01

ALL OTHER INPUT
STP
```


EMIS GIS Window - DCD
5175
5200
5146
x Gravel Pit
T O O E L E
13
18
Source Map Scale 1:24,000
Zoom Level 1:1
Event ID: 004, Run ID: 014, Plume ID: GB NON-1 2.4m/s @ 299.3 EVP sth:U DOSAGE


D2PCw Hazard Prediction Model Interface – DCD – RUN015
EVENT DATA
Date 08 May 2000
Now
Time 11 30:45 MDT
Mode Operational
Type Normal
Agent
GB, Sarin
VX, EA 1701
HD, Distilled Mustard
AC, Hydrogen Cyanide
Munitions
4.2 Cartridge, M2A1
Ton Container
TMU-28/B Spray Tank
Not Defined
Release Type
Instantaneous (explosive)
Evaporative (spill)
Semicontinuous
Variable
LOCATION
Degrees Lat/Lon 40.303808 -112.34742
loc from map
UTM Zone 12 4462138 385491
0 m N
TOCDF
METEOROLOGICAL DATA
Stability Class
E - Slightly Stable
F - Stable
N - Neutral, Urban
I - Stable, Urban
U - Undefined
Winter
Spring
Summer
Fall
Temperature 12.3 deg C
Feed lower data
6.744
Derived from Air
Wind Dir from 299.3
Speed 2.4 m/sec
Atm Pressure 651 mm Hg
Default Atm
Hgt Mix Layer 245 m
Default Hgt Mixing

EMIS 3.1
IBM-PC VERSION

Event ID: 004
Run ID: 015
Plume ID: GB NON-1 2.4m/s@299.3 EVP stb:U

Event Site: DESERET CHEMICAL DEPOT
Date/Time of Event: Mon May 8 11:30:45 MDT 2000
Date/Time of Model Run: Tue May 9 05:24:54 MDT 2000

Agent: GB
Release: NON 1 EVP
Location: 40 18 13.71 N 112 20 50.71 W
Igloo: TOCDF
Igloo Distance: 0 meter(s) N

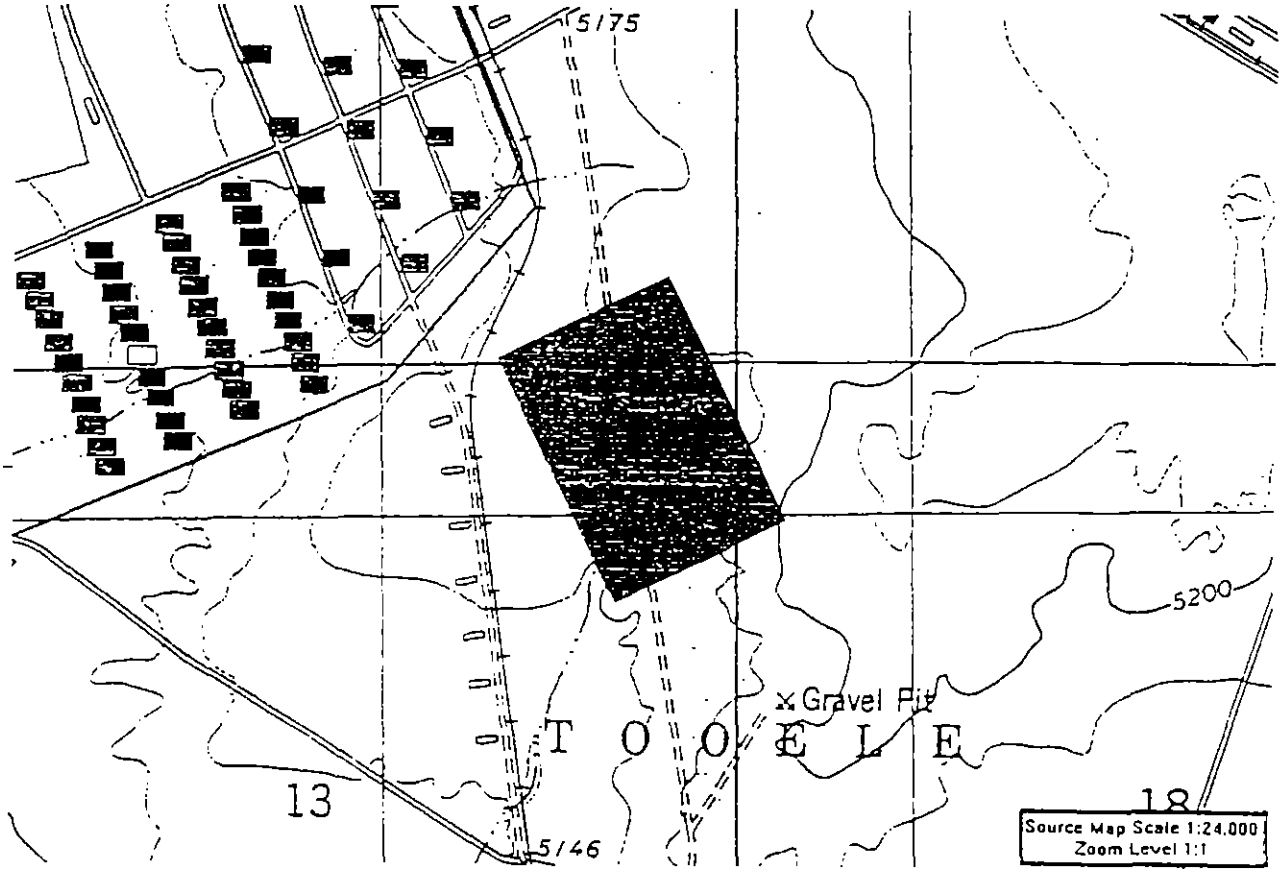
Wind Direction: 299.3 deg (from)
Wind Speed: 2.4 m/s (5.37 mph)
Stability Class: U (auto stability calculates F)
Auto Stb Method: Temp Gradient/Solar Radiation
Wind Sigma: 7.5 degrees
Air Temp: 12.3 C (54.1 F)
Surface Temp: 6.7 C (44.1 F)
Met Change: None
Wedge Angle: +/- 33 deg

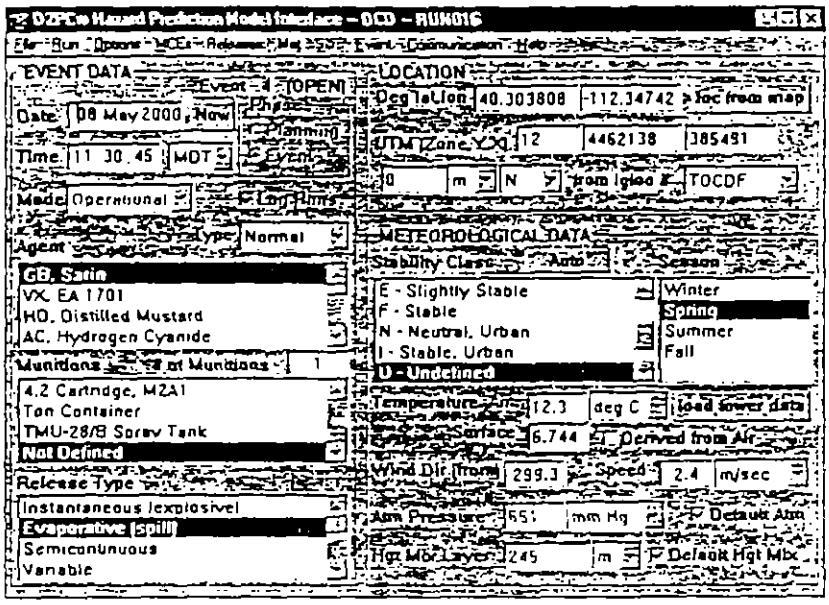
Dosages:
Distance to "1% LETHALITY": 0.00 mi (0.0 m)
Distance to "NO DEATHS": 0.00 mi (0.0 m)
Distance to "NO EFFECTS": 0.00 mi (6.2 m)
Concentrations:
Distance to "DAAMS": 0.00 mi (6.3 m)

The PARDOS model cannot be run for this plume.
The D2PC plume is shorter than the minimum length (100m)
that PARDOS can work with.

```
          ----------------------------------------
          | DOWNWIND HAZARD PROGRAM D2PC V2.0.8 |
          ----------------------------------------
    TYPE ? FOR DEFINITIONS

  1. YOUR NOVICE LEVEL: 3,2,1 OR 0 NOV
  INPUT: 0

  2. LOCATION                        LOC
  INPUT: DPG

  3. SEASON                          SEA
  INPUT: SPR

  5. MUNITION TYPE                   MUN
  INPUT: NON

  6. AGENT TYPE                      AGN
  INPUT: GB

  8. RELEASE TYPE                    REL
  INPUT: EVP

  9. STABILITY TYPE                  STB
  INPUT: U

 10. WINDSPEED (M/SEC)               WND
  INPUT: 2.4000001

 11. ALF, SYR(M), BTA, SZR(M)
  INPUT: 0.69999999     13.08997      0.75          2.5
 BRT=25. DI=       .5      6.0     10.0

  7. SPILL OR AIRBORNE SOURCE (MG) QQQ
  INPUT: 349

     SURFACE
 12. TEMPERATURE (DEG C)             TMP
  INPUT: 6.7444448

 17. SURFACE CODE                    SUR
  INPUT: NPR

 18. TIME OF EVAPORATION (MIN)       TEV
  INPUT: 60
NPR  EVR=6.443E+03(MG/MIN-SQ M)  AREA=4.223E-04(SQ M)  VPR=8.409E-01
Q=3.490E+02(MG)  Q'=1.632E+02(MG)    TEV=6.000E+01(MIN)
ALL OTHER INPUT
NMU 1
TMP 6.7444448
OPO 3
QQQ 349
HLD QQQ
ALL
  2. LOCATION                        LOC  DPG
  3. SEASON                          SEA  SPR
  5. MUNITION TYPE                   MUN  NON
  6. AGENT TYPE                      AGN  GB
  8. RELEASE TYPE                    REL  EVP
  9. STABILITY TYPE                  STB  U
 10. WINDSPEED (M/SEC)               WND      2.40
 11. ALF, SYR(M), BTA, SZR(M)                  .70      13.09        .75       2.50
BRT=25. DI=       .5      6.0     10.0
  7. SPILL OR AIRBORNE SOURCE (MG) QQQ 3.490E+02
     SURFACE
 12. TEMPERATURE (DEG C)             TMP      6.74
 17. SURFACE CODE                    SUR  NPR
 18. TIME OF EVAPORATION (MIN)       TEV     60.00
NPR  EVR=6.443E+03(MG/MIN-SQ M)  AREA=4.223E-04(SQ M)  VPR=8.409E-01
Q=3.490E+02(MG)  Q'=1.632E+02(MG)    TEV=6.000E+01(MIN)
ALL OTHER INPUT
SYR 13.08997
2MC 0
```

```
RLD 2MC
ALL

   1 MUN:NON  AGN:GB  REL:EVP  WND= 2.4(M/S)  TMP= 6.7(C)  DPG-SPR STB:U

   Q(MG)   TS(MIN)  HTS(M)   HML(M)   SXS(M)   SYS(M)   SZS(M)
1.632E+02 6.00E+01 0.00E+00 2.45E+02 6.85E-03 6.85E-03 1.00E-01  U

   ALF   SYR   BTA   SZR        XY(M)   XZ(M)    U(M/S)
   .70 13.09   .75  2.50       2.1E-03 1.4E+00    2.40

     DOSAGE CONTOURS    1.    6.   10.

      X        DP    CONTOUR HALF-WIDTH
        1. 4.582E+00    1.

        6. (M) IS DISTANCE TO NO EFFECTS


   DOSAGE     AREA
 1.000E+01 0.000E+00
 6.000E+00 0.000E+00
 5.000E-01 2.197E+01
ALL OTHER INPUT
RST
    TYPE ? FOR DEFINITIONS

 1. YOUR NOVICE LEVEL: 3,2,1 OR 0 NOV
 INPUT: 0

 2. LOCATION                      LOC
 INPUT: DPG

 3. SEASON                        SEA
 INPUT: SPR

 5. MUNITION TYPE                 MUN
 INPUT: NON

 6. AGENT TYPE                    AGN
 INPUT: GB

 8. RELEASE TYPE                  REL
 INPUT: EVP

 9. STABILITY TYPE                STB
 INPUT: U

10. WINDSPEED (M/SEC)             WND
 INPUT: 2.4000001

11. ALF, SYR(M), BTA, SZR(M)
 INPUT: 0.69999999    13.08997      0.75          2.5
BRT=25. DI=      .5     6.0    10.0

 7. SPILL OR AIRBORNE SOURCE (MG) QQQ
 INPUT: 349

    SURFACE
12. TEMPERATURE (DEG C)           TMP
 INPUT: 6.7444448

17. SURFACE CODE                  SUR
 INPUT: NPR

18. TIME OF EVAPORATION (MIN)     TEV
 INPUT: 60
NPR  EVR=6.443E+03(MG/MIN-SQ M)  AREA=4.223E-04(SQ M)  VPR=8.409E-01
Q=3.490E+02(MG)  Q'=1.632E+02(MG)    TEV=6.000E+01(MIN)
ALL OTHER INPUT
IMA 1
 DEFINE NCI
```


5175
5200
Gravel Pit
T O O E L E
13
18
5146
Source Map Scale 1:24,000
Zoom Level 1:1


D2PCw Hazard Prediction Model Interface - OCD - RUN016
EVENT DATA
Event - 4 [OPEN]
Date 08 May 2000 Now
Phase
Planning
Time 11 30 45 MDT
Event
Mode Operational
Long Times
Agent
Type Normal
GB, Sarin
VX, EA 1701
HD, Distilled Mustard
AC, Hydrogen Cyanide
Munitions
# of Munitions 1
4.2 Cartridge, M2A1
Ton Container
TMU-28/B Spray Tank
Not Defined
Release Type
Instantaneous (explosive)
Evaporative Spill
Semicontinuous
Variable
LOCATION
Deg Lat/Lon 40.303808 -112.34742
loc from map
UTM Zone YX 12 4462138 385491
0 m N from load TOCDF
METEOROLOGICAL DATA
Stability Class Auto
Season
E - Slightly Stable
F - Stable
N - Neutral, Urban
I - Stable, Urban
U - Undefined
Winter
Spring
Summer
Fall
Temperature 12.3 deg C
load sower data
Surface 6.744
Derived from Air
Wind Dir from 299.3
Speed 2.4 m/sec
Atm Pressure 651 mm Hg
Default Atm
Hgt Mix Layer 245 m
Default Hgt Mix

```
TMP 6.7444448
OPO 3
QQQ 349
HLD QQQ
ALL
 2. LOCATION                        LOC  DPG
 3. SEASON                          SEA  SPR
 5. MUNITION TYPE                   MUN  NON
 6. AGENT TYPE                      AGN  GB
 8. RELEASE TYPE                    REL  EVP
 9. STABILITY TYPE                  STB  U
10. WINDSPEED (M/SEC)               WND      2.40
11. ALF, SYR(M), BTA, SZR(M)                  .70      13.09       .75       2.50
 7. SPILL OR AIRBORNE SOURCE (MG)   QQQ 3.490E+02
    SURFACE
12. TEMPERATURE (DEG C)             TMP      6.74
17. SURFACE CODE                    SUR  NPR
18. TIME OF EVAPORATION (MIN)       TEV     60.00
NPR  EVR=6.443E+03(MG/MIN-SQ M)  AREA=4.223E-04(SQ M)  VPR=8.409E-01
Q=3.490E-02(MG)  Q'=1.632E+02(MG)     TEV=6.000E+01(MIN)
ALL OTHER INPUT
NCI 1
 INPUT: CI()S  (ASCENDING)
0.0082
ALL OTHER INPUT
SYR 13.06997
IMC 0
HLD IMC
ALL


   1 MUN:NON  AGN:GB  REL:EVP  WND= 2.4(M/S)  TMP= 6.7(C)  DPG-SPR STB:U

    Q(MG)     TS(MIN)    HTS(M)     HML(M)       WND
  1.632E-02 6.000E-01 0.000E-00 2.450E-02 2.400E-00      U

   ALF    SYR    BTA    SZR         SYS(M)  SZS(M)  XY(M)    XZ(M)    XC(M)
   .70  13.09    .75   2.50        6.8E-03 1.0E-01 2.1E-03 1.4E-00 4.9E-04

      CONCENTRATIONS     0.

       X        CP     CONTOUR HALF-WIDTHS
        1. 7.636E-02     1.

        6.7   8.200E-03
       10.  4.704E-03


    C         AREA
8.200E-03 2.205E-01

ALL OTHER INPUT
STP
```

Event ID: 004
Run ID: 016
Plume ID: GB NON-1 2.4m/s@299.3 EVP stb:U

Event Site: DESERET CHEMICAL DEPOT
Date/Time of Event: Mon May 8 11:30:45 MDT 2000
Date/Time of Model Run: Tue May 9 05:30:36 MDT 2000

Agent: GB
Release: NON 1 EVP
Location: 40 18 13.71 N 112 20 50.71 W
Igloo: TOCDF
Igloo Distance: 0 meter(s) N.

Wind Direction: 299.3 deg (from)
Wind Speed: 2.4 m/s (5.37 mph)
Stability Class: U (auto stability calculates F)
Auto Stb Method: Temp Gradient/Solar Radiation
Wind Sigma: 7.5 degrees
Air Temp: 12.3 C (54.1 F)
Surface Temp: 6.7 C (44.1 F)
Met Change: None
Wedge Angle: +/- 33 deg

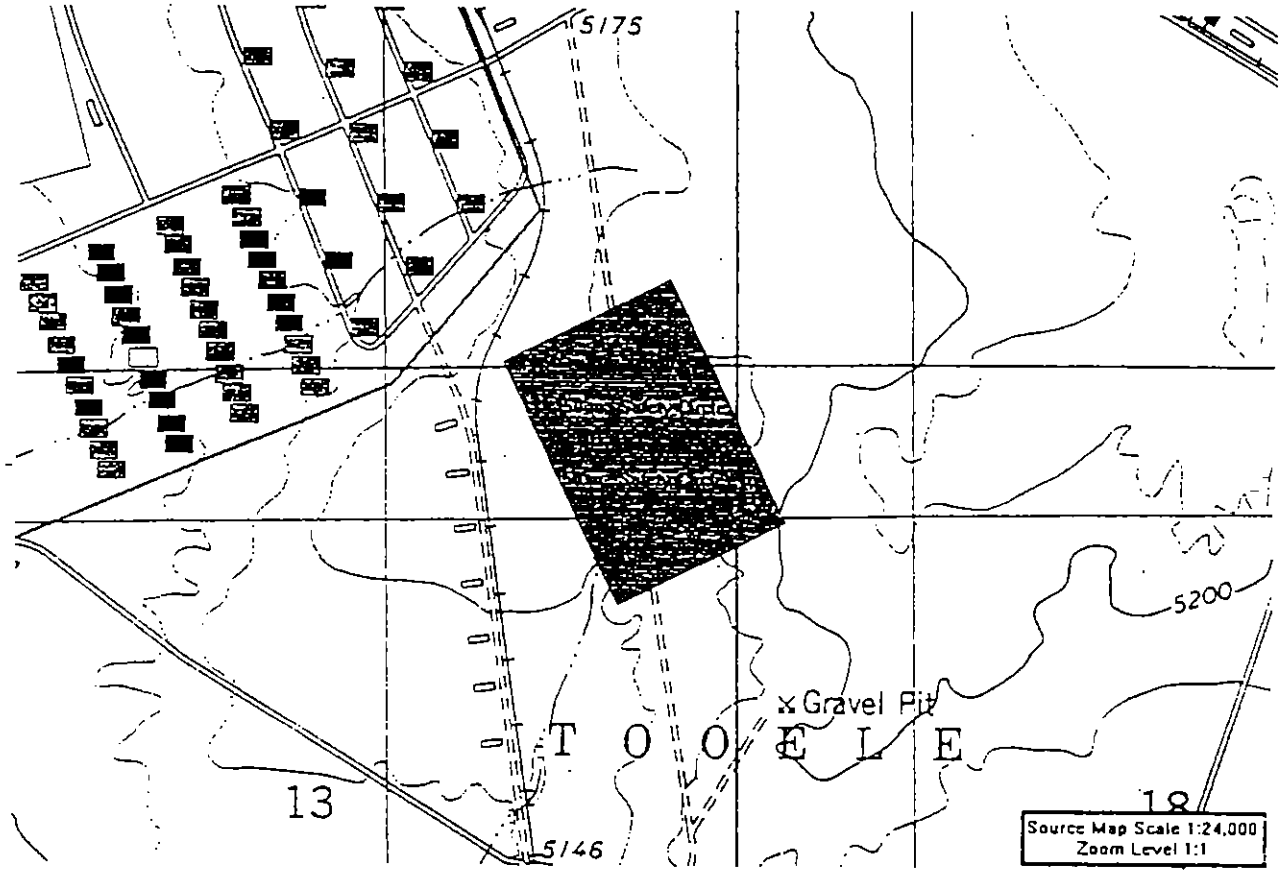
Dosages:
Distance to "1% LETHALITY": 0.00 mi (0.0 m)
Distance to "NO DEATHS": 0.00 mi (0.0 m)
Distance to "NO EFFECTS": 0.00 mi (3.1 m)
Concentrations:
Distance to "DAAMS": 0.00 mi (6.3 m)

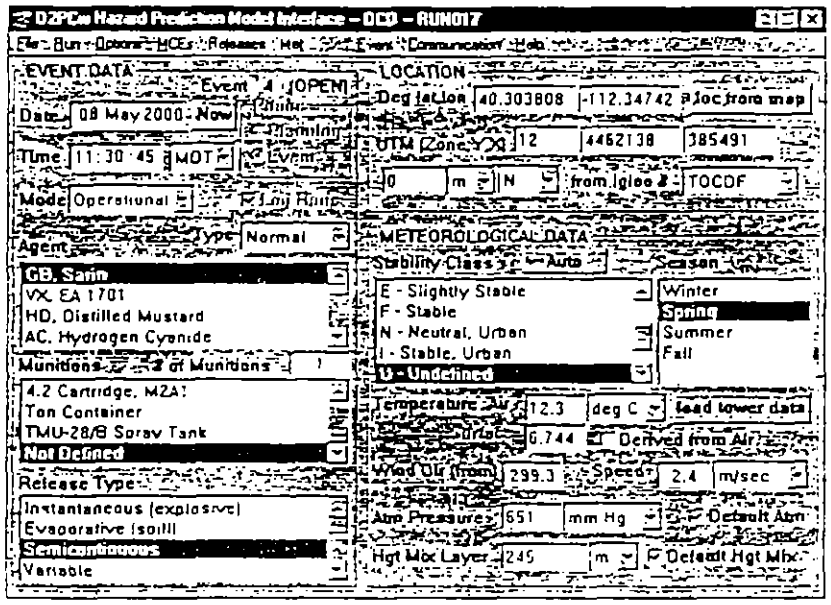
The PARDOS model cannot be run for this plume.
The D2PC plume is shorter than the minimum length (100m)
that PARDOS can work with.

```
| DOWNWIND HAZARD PROGRAM D2PC V2.0.8 |
.....

   TYPE ? FOR DEFINITIONS

 1. YOUR NOVICE LEVEL: 3,2,1 OR 0 NOV
 INPUT: 0

 2. LOCATION                        LOC
 INPUT: DPG

 3. SEASON                          SEA
 INPUT: SPR

 5. MUNITION TYPE                   MUN
 INPUT: NON

 6. AGENT TYPE                      AGN
 INPUT: GB

 8. RELEASE TYPE                    REL
 INPUT: EVP

 9. STABILITY TYPE                  STB
 INPUT: U

10. WINDSPEED (M/SEC)               WND
 INPUT: 2.4000001

11. ALF, SYR(M), BTA, SZR(M)
 INPUT: 0.69999999     13.08997       0.75          2.5
BRT=25. DI=       .5      6.0     10.0

 7. SPILL OR AIRBORNE SOURCE  (MG) QQQ
 INPUT: 349

   SURFACE
12. TEMPERATURE (DEG C)             TMP
 INPUT: 6.7444448

17. SURFACE CODE                    SUR
 INPUT: NPR

18. TIME OF EVAPORATION (MIN)       TEV
 INPUT: 26
NPR  EVR=6.443E-03(MG/MIN-SQ M)  AREA=4.223E-04(SQ M)  VPR=8.409E-01
Q=3.490E-02(MG)  Q'=7.074E-01 MG)     TEV=2.600E-01(MIN)
ALL OTHER INPUT
NMU 1
TMP 6.7444448
OPO 3
QQQ 349
HLD QQQ
ALL
 2. LOCATION                        LOC  DPG
 3. SEASON                          SEA  SPR
 5. MUNITION TYPE                   MUN  NON
 6. AGENT TYPE                      AGN  GB
 8. RELEASE TYPE                    REL  EVP
 9. STABILITY TYPE                  STB  U
10. WINDSPEED (M/SEC)               WND      2.40
11. ALF, SYR(M), BTA, SZR(M)                  .70      13.09        .75       2.50
BRT=25. DI=       .5      6.0     10.0
 7. SPILL OR AIRBORNE SOURCE (MG) QQQ 3.490E+02
   SURFACE
12. TEMPERATURE (DEG C)             TMP      6.74
17. SURFACE CODE                    SUR  NPR
18. TIME OF EVAPORATION (MIN)       TEV     26.00
NPR  EVR=6.443E+03(MG/MIN-SQ M)  AREA=4.223E-04(SQ M)  VPR=8.409E-01
Q=3.490E+02(MG)  Q'=7.074E-01(MG)     TEV=2.600E+01(MIN)
ALL OTHER INPUT
SYR 13.08997
2MC 0
```

```
   1 MUN:NON  AGN:GB  REL:EVP  WND= 2.4(M/S)  TMP= 6.7(C)  DPG-SPR STB:U

   Q(MG)    TS(MIN)  HTS(M)   HML(M)   SXS(M)   SYS(M)   SZS(M)
7.074E+01 2.60E+01 0.00E+00 2.45E+02 6.85E-03 6.85E-03 1.00E-01  U

   ALF   SYR   BTA   SZR        XY(M)   XZ(M)    U(M/S)
   .70 13.09   .75  2.50       2.1E-03 1.4E+00    2.40

     DOSAGE CONTOURS    1.    6.   10.

      X        DP    CONTOUR HALF-WIDTH
        1. 1.985E+00    1.

        3. (M) IS DISTANCE TO NO EFFECTS


   DOSAGE     AREA
 1.000E-01 0.000E+00
 6.000E-00 0.000E+00
 5.000E-01 1.733E+01
ALL OTHER INPUT
RST
    TYPE ? FOR DEFINITIONS

 1. YOUR NOVICE LEVEL: 3,2,1 OR 0 NOV
 INPUT: 0

 2. LOCATION                      LOC
 INPUT: DPG

 3. SEASON                        SEA
 INPUT: SPR

 5. MUNITION TYPE                 MUN
 INPUT: NON

 6. AGENT TYPE                    AGN
 INPUT: GB

 8. RELEASE TYPE                  REL
 INPUT: EVP

 9. STABILITY TYPE                STB
 INPUT: U

10. WINDSPEED (M/SEC)             WND
 INPUT: 2.4000001

11. ALF, SYR(M), BTA, SZR(M)
 INPUT: 0.69999999    13.08997      0.75          2.5
BRT=25. DI=       .5      6.0     10.0

 7. SPILL OR AIRBORNE SOURCE (MG) QQQ
 INPUT: 349

    SURFACE
12. TEMPERATURE (DEG C)           TMP
 INPUT: 6.7444448

17. SURFACE CODE                  SUR
 INPUT: NPR

18. TIME OF EVAPORATION (MIN)     TEV
 INPUT: 26
NPR  EVR=6.443E+03(MG/MIN-SQ M)  AREA=4.223E-04(SQ M)  VPR=8.409E-01
Q=3.490E+02(MG)  Q'=7.074E-01(MG)    TEV=2.600E-01(MIN)
ALL OTHER INPUT
IMA 1
 DEFINE NCI
```

```
NMU 1
TMP 6.7444448
OPO 3
QQQ 349
HLD QQQ
ALL
 2. LOCATION                        LOC  DPG
 3. SEASON                          SEA  SPR
 5. MUNITION TYPE                   MUN  NON
 6. AGENT TYPE                      AGN  GB
 8. RELEASE TYPE                    REL  EVP
 9. STABILITY TYPE                  STB  U
10. WINDSPEED (M/SEC)               WND      2.40
11. ALF, SYR(M), BTA, SZR(M)                  .70      13.09        .75       2.50
 7. SPILL OR AIRBORNE SOURCE (MG) QQQ 3.490E+02
    SURFACE
12. TEMPERATURE (DEG C)             TMP      6.74
17. SURFACE CODE                    SUR  NPR
18. TIME OF EVAPORATION (MIN)       TEV     26.00
NPR  EVR=6.443E+03(MG/MIN-SQ M)  AREA=4.223E-04(SQ M)  VPR=8.409E-01
Q=3.490E-02(MG)  Q'=7.074E+01(MG)    TEV=2.600E+01(MIN)
ALL OTHER INPUT
NCI 1
 INPUT: CI()S  (ASCENDING)
0.0082
ALL OTHER INPUT
SYR 13.08997
DMC 3
HLD DMC
ALL


   1 MUN:NON  AGN:GB  REL:EVP  WND= 2.4(M/S)  TMP= 6.7(C)  DPG-SPR STB:U

    Q(MG)     TS(MIN)    HTS(M)     HML(M)       WND
  7.074E-01 2.600E-01 0.000E-00 2.450E+02 2.400E-00      U

   ALF    SYR    BTA    SZR         SYS(M)  SZS(M)  XY(M)    XZ(M)    XC(M)
   .70  13.09    .75   2.50        6.8E-03 1.0E-01 2.1E-03 1.4E-00 2.0E-04

      CONCENTRATIONS     0.

       X        CP     CONTOUR HALF-WIDTHS
        1.  7.636E-02     1.

        6.*  8.200E-03
       10.  4.704E-03


    C         AREA
8.200E-03 2.205E-01

ALL OTHER INPUT
STP
```


5175
5200
Gravel Pit
T O O E L E
13
18
5146
Source Map Scale 1:24,000
Zoom Level 1:1


D2PCw Hazard Prediction Model Interface – DCD – RUN017
EVENT DATA
Event 4 [OPEN]
Date 08 May 2000 Now
Time 11:30:45 MDT
Mode Operational
Type Normal
Agent
GB, Sarin
VX, EA 1701
HD, Distilled Mustard
AC, Hydrogen Cyanide
Munitions
# of Munitions 1
4.2 Cartridge, M2A1
Ton Container
TMU-28/B Spray Tank
Not Defined
Release Type
Instantaneous (explosive)
Evaporative (spill)
Semicontinuous
Variable
LOCATION
Deg latlon 40.303808 -112.34742 place from map
UTM (Zone YX) 12 4462138 385491
0 m N from Igloo # TOCDF
METEOROLOGICAL DATA
Stability Class Auto
Season
E - Slightly Stable
F - Stable
N - Neutral, Urban
I - Stable, Urban
U - Undefined
Winter
Spring
Summer
Fall
Temperature Air 12.3 deg C load tower data
Humidity 0.744 Derived from Air
Wind Dir (from) 299.3 Speed 2.4 m/sec
Atm Pressure 651 mm Hg Default Atm
Hgt Mix Layer 245 m Default Hgt Mix

Event ID: 004
Run ID: 017
Plume ID: GB NON-1 2.4m/s@299.3 SEM stb:U

Event Site: DESERET CHEMICAL DEPOT
Date/Time of Event: Mon May 8 11:30:45 MDT 2000
Date/Time of Model Run: Tue May 9 06:54:17 MDT 2000

Agent: GB
Release: NON 1 SEM
Location: 40 18 13.71 N 112 20 50.71 W
Igloo: TOCDF
Igloo Distance: 0 meter(s) N

Wind Direction: 299.3 deg (from)
Wind Speed: 2.4 m/s (5.37 mph)
Stability Class: U (auto stability calculates F)
Auto Stb Method: Temp Gradient/Solar Radiation
Wind Sigma: 7.5 degrees
Air Temp: 12.3 C (54.1 F)
Surface Temp: 6.7 C (44.1 F)
Met Change: None
Wedge Angle: -/- 33 deg

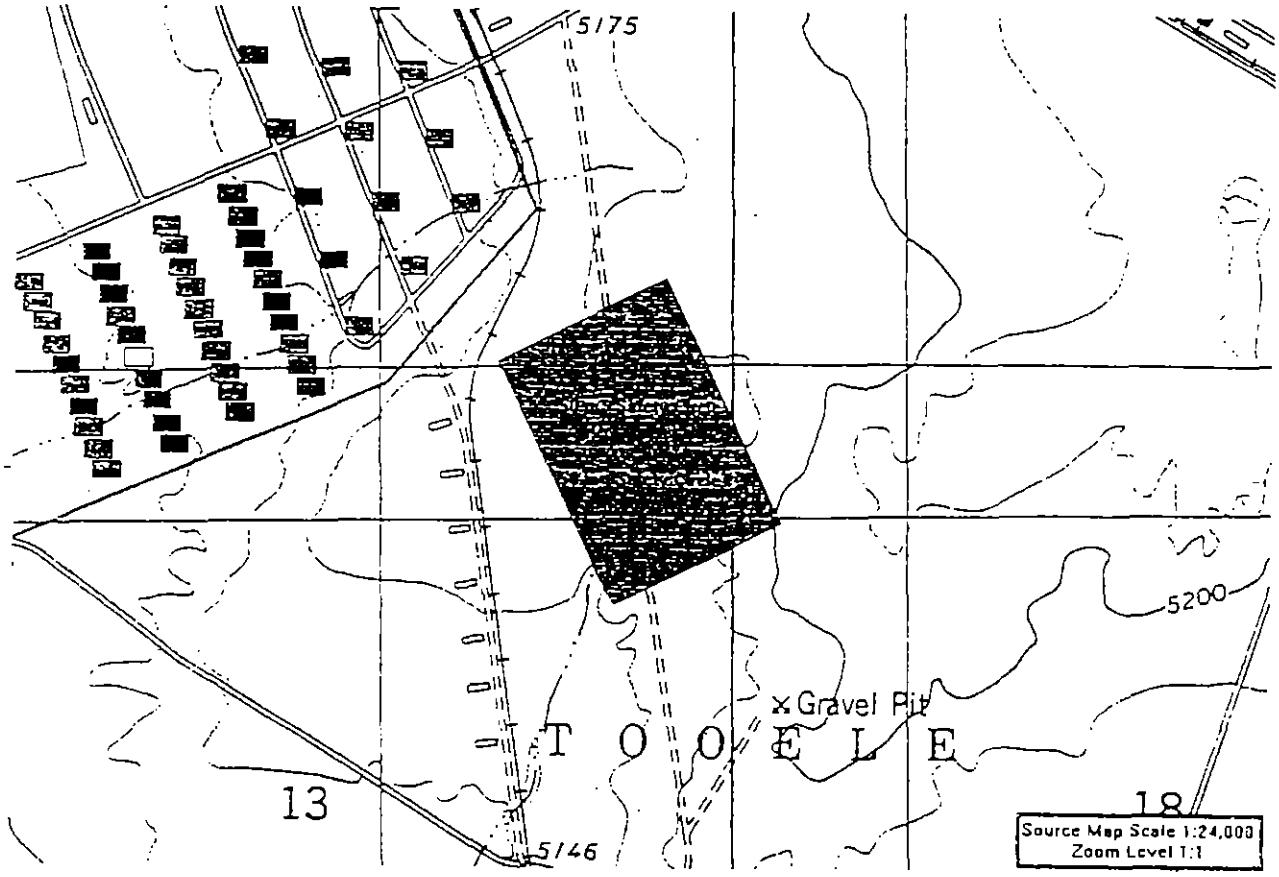
Dosages:
Distance to "1% LETHALITY": 0.00 mi (1.7 m)
Distance to "NO DEATHS": 0.00 mi (2.4 m)
Distance to "NO EFFECTS": 0.01 mi (13.2 m)
Concentrations:
Distance to "DAAMS": 0.01 mi (23.8 m)

The PARDOS model cannot be run for this plume.
The D2PC plume is shorter than the minimum length (100m)
that PARDOS can work with.

```
          | DOWNWIND HAZARD PROGRAM D2PC V2.0.8 |
          ---------------------------------------
    TYPE ? FOR DEFINITIONS

 1. YOUR NOVICE LEVEL: 3,2,1 OR 0 NOV
 INPUT: 0

 2. LOCATION                        LOC
 INPUT: DPG

 3. SEASON                          SEA
 INPUT: SPR

 5. MUNITION TYPE                   MUN
 INPUT: NON

 6. AGENT TYPE                      AGN
 INPUT: GB

 8. RELEASE TYPE                    REL
 INPUT: SEM

 9. STABILITY TYPE                  STB
 INPUT: U

10. WINDSPEED (M/SEC)               WND
 INPUT: 2.4000001

11. ALF, SYR(M), BTA, SZR(M)
 INPUT: 3.69999999    13.08997      0.75          2.5
BRT=15. DI=      .5     6.0    10.0

13. Q()(MG), TQ()(MIN)
 INPUT: 1
 .394000E-03    .260000E-02
ALL OTHER INPUT
NMU 1
TMP 12.3
OPO 3
ALL
 2. LOCATION                        LOC  DPG
 3. SEASON                          SEA  SPR
 5. MUNITION TYPE                   MUN  NON
 6. AGENT TYPE                      AGN  GB
 8. RELEASE TYPE                    REL  SEM
 9. STABILITY TYPE                  STB  U
10. WINDSPEED (M/SEC)               WND      2.40
11. ALF, SYR(M), BTA, SZR(M)                  .70      13.09        .75       2.50
BRT=35. DI=      .5     6.0    10.0
13. Q()(MG), TQ()(MIN)              3.940E-02 2.600E-01

ALL OTHER INPUT
SYR 13.08997
2MC 0
HLD 2MC
ALL


   1 MUN:NON  AGN:GB  REL:SEM  WND= 2.4(M/S)  TMP=12.3(C)  DPG-SPR STB:U

   Q(MG)    TS(MIN)  HTS(M)    HML(M)    SXS(M)    SYS(M)    SZS(M)
3.940E-02 2.60E-01 0.00E-00 2.45E-02 0.00E+00 0.00E-00 0.00E-00  U

   ALF    SYR    BTA    SZR         XY(M)    XZ(M)     U(M/S)
   .70 13.09    .75   2.50        0.0E-00 0.0E+00     2.40

     DOSAGE CONTOURS     1.     6.    10.

      X        DP    CONTOUR HALF-WIDTH
        1. 2.114E+01     1.     1.     1.

        1. (M) IS DISTANCE TO 1% LETHALITY
```

```
        2. (M) IS DISTANCE TO NO DEATHS

       10. 7.501E-01    2.

       13. (M) IS DISTANCE TO NO EFFECTS


   DOSAGE     AREA
 1.000E+01 1.275E+01
 6.000E+00 1.654E+01
 5.000E-01 7.557E+01
ALL OTHER INPUT
RST
    TYPE ? FOR DEFINITIONS

 1. YOUR NOVICE LEVEL: 3,2,1 OR 0 NOV
 INPUT: 0

 2. LOCATION                        LOC
 INPUT: DPG

 3. SEASON                          SEA
 INPUT: SPR

 5. MUNITION TYPE                   MUN
 INPUT: NON

 6. AGENT TYPE                      AGN
 INPUT: GB

 8. RELEASE TYPE                    REL
 INPUT: SEM

 9. STABILITY TYPE                  STB
 INPUT: U

10. WINDSPEED (M/SEC)               WND
 INPUT: 2.4000001

11. ALF, SYR(M), BTA, SZR(M)
 INPUT: 0.69999999    13.08997      0.75          2.5
BRT=25. DI=      .5     6.0    10.0

13. Q()(MG), TQ()(MIN)
 INPUT: 1
 .394000E-03    .260000E-02
ALL OTHER INPUT
IMA 1
 DEFINE NCI
NMU 1
TMP 12.3
OPO 3
ALL
 2. LOCATION                        LOC  DPG
 3. SEASON                          SEA  SPR
 5. MUNITION TYPE                   MUN  NON
 6. AGENT TYPE                      AGN  GB
 8. RELEASE TYPE                    REL  SEM
 9. STABILITY TYPE                  STB  U
10. WINDSPEED (M/SEC)               WND      2.40
11. ALF, SYR(M), BTA, SZR(M)                  .70      13.09       .75       2.50
13. Q()(MG), TQ()(MIN)               3.940E-02 2.600E-01

ALL OTHER INPUT
NCI 1
 INPUT: CI()S  (ASCENDING)
0.0082
ALL OTHER INPUT
SYR 13.08997
2MC 0
HLD 2MC
```

```
 1 MUN:NON  AGN:GB  REL:SEM  WND= 2.4(M/S)  TMP=12.3(C)  DPG-SPR STB:U

  Q(MG)     TS(MIN)    HTS(M)     HML(M)       WND
3.940E+02 2.600E+01 0.000E+00 2.450E+02 2.400E+00     U

 ALF   SYR    BTA    SZR         SYS(M)  SZS(M)  XY(M)   XZ(M)   XC(M)
 .70 13.09    .75   2.50        0.0E+00 0.0E+00 0.0E+00 0.0E+00 2.0E+04

    CONCENTRATIONS     0.

     X        CP     CONTOUR HALF-WIDTHS
      1. 8.131E-01     2.
     10. 2.885E-02     4.
     20. 1.056E-02     3.

     24.*  8.200E-03
     30. 5.866E-03


   C         AREA
8.200E-03 1.748E+02

ALL OTHER INPUT
STP
```


5175
5200
Gravel Pit
T O O E L E
13
18
5146
Source Map Scale 1:24,000
Zoom Level 1:1