APPENDIX F

SLUG TEST DATA EVALUATION and

PESTICIDE ROOT ZONE MODEL (PZRM-2) CALCULATIONS

SLUG TEST DATA EVALUATION

Rising head permeability tests were conducted on all four monitoring wells (i.e., MW S-113-94, S-114-94, S-115-94 and S-116-94) installed at SWMU 19 during the 1994 Phase II field activities. (Details of the methods and procedures used in conducting the slug tests are presented in Section 3.2.7.) These tests were conducted to obtain data to help determine characteristics of the aquifer underlying the site. These tests recorded the recovery of groundwater in the wells, and the results were used to calculate the hydraulic conductivity (K) values for each sample point. The calculations were made using a computer application designed by Geraghty and Miller called AQTESOLV ™ (Geraghty & Miller 1989). This application uses statistical parameter estimation methods and graphical curve-matching techniques. The methods are based on equations developed by Bouwer and Rice (1989) for an unconfined aquifer and methods developed by Cooper et al. (1967) for confined aquifers.

The aquifer beneath SWMU 19 exhibited both confined (S-116-94) and unconfined conditions (S-113-94, S-114-94 and S-115-94) during field tests. The method used for analysis was specific to the aquifer conditions at the tested well location. Original field permeability test data, their associated graphical plots, and a summary of aquifer properties are included in this Appendix. The calculated coefficients of hydraulic conductivity for the SWMU 19 wells ranged from 8.84 E-03 to 3.45 E-05 cm/sec with a geometric average of 3.83 E-04 cm/sec.

Hydraulic gradient (i) is the change in hydraulic head per unit of horizontal distance measured along a groundwater flowline (i.e., the slope of the water table). This parameter was calculated using the general slope equation:

$$i = \nabla\Delta h/\Delta l$$

where: Δh = difference in hydraulic head between two points located on the same groundwater flowline

Δl = horizontal distance between these same two points measured along the same groundwater flowline.

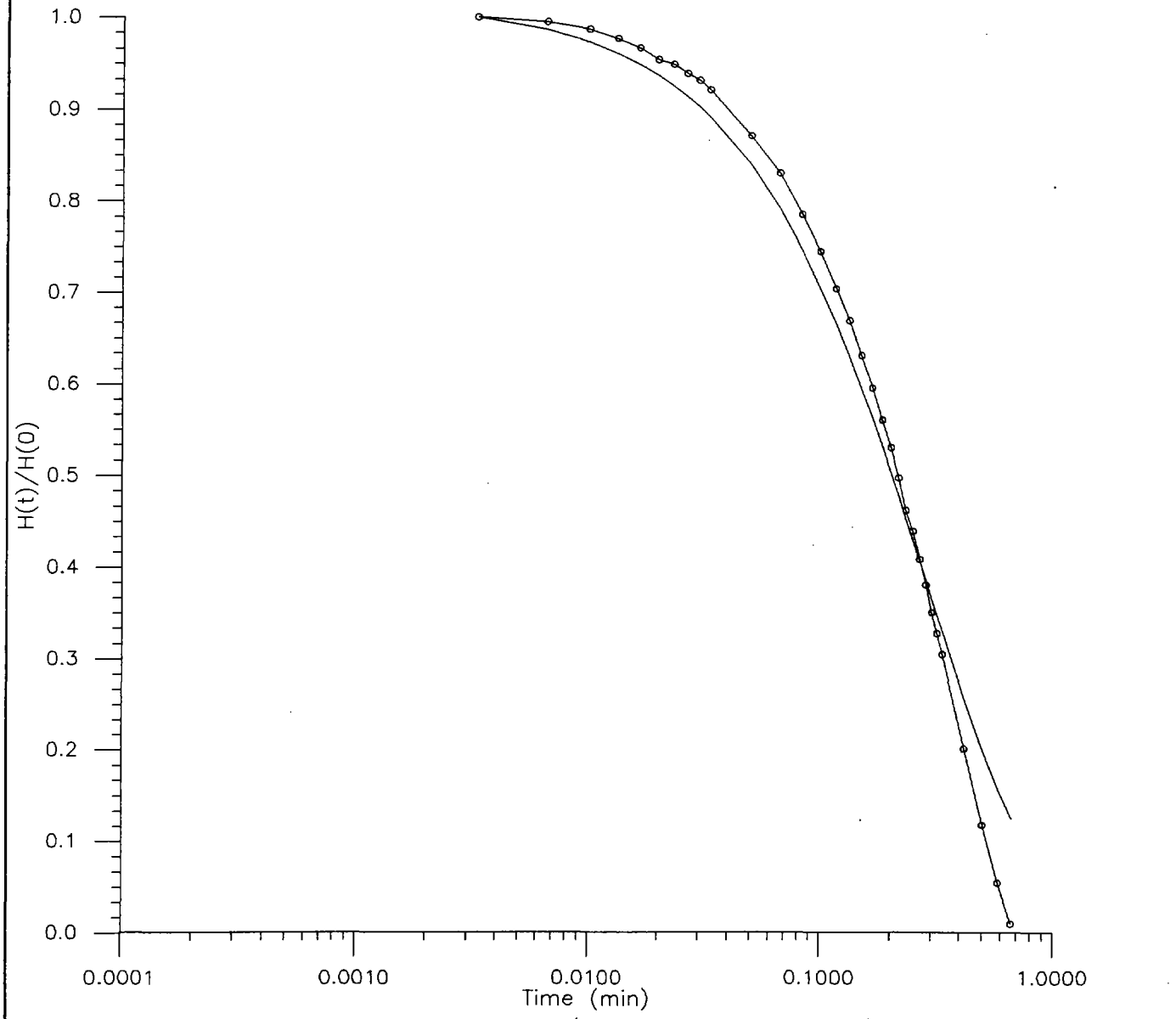
Based on the January 2000 groundwater level measurements, an average values was found for SWMU 19 from values calculated at random points in the general site area. An average value of 0.019 ft/ft, or 100 ft/mile, was calculated as the hydraulic gradient for the SWMU 19 area.

Groundwater flow rate (v) represents the macroscopic velocity of groundwater in the horizontal plane. The groundwater flow rate was calculated using the Darcy Flow equation:

$$v=Ki/n$$

where: K = Hydraulic conductivity
i = Hydraulic gradient
n = Porosity (values ranged from 0.25 to 0.4 to represent a sand media [Driscoll 1986] [a conservative approach])

Using the average hydraulic conductivity (K = 3.83 E-04 cm/sec) and hydraulic gradient (i = 0.019) values calculated for SWMU 19, the average horizontal groundwater flow rate for this area ranged from 30 ft/year (n=0.25) to 19 ft/year (n=0.40).



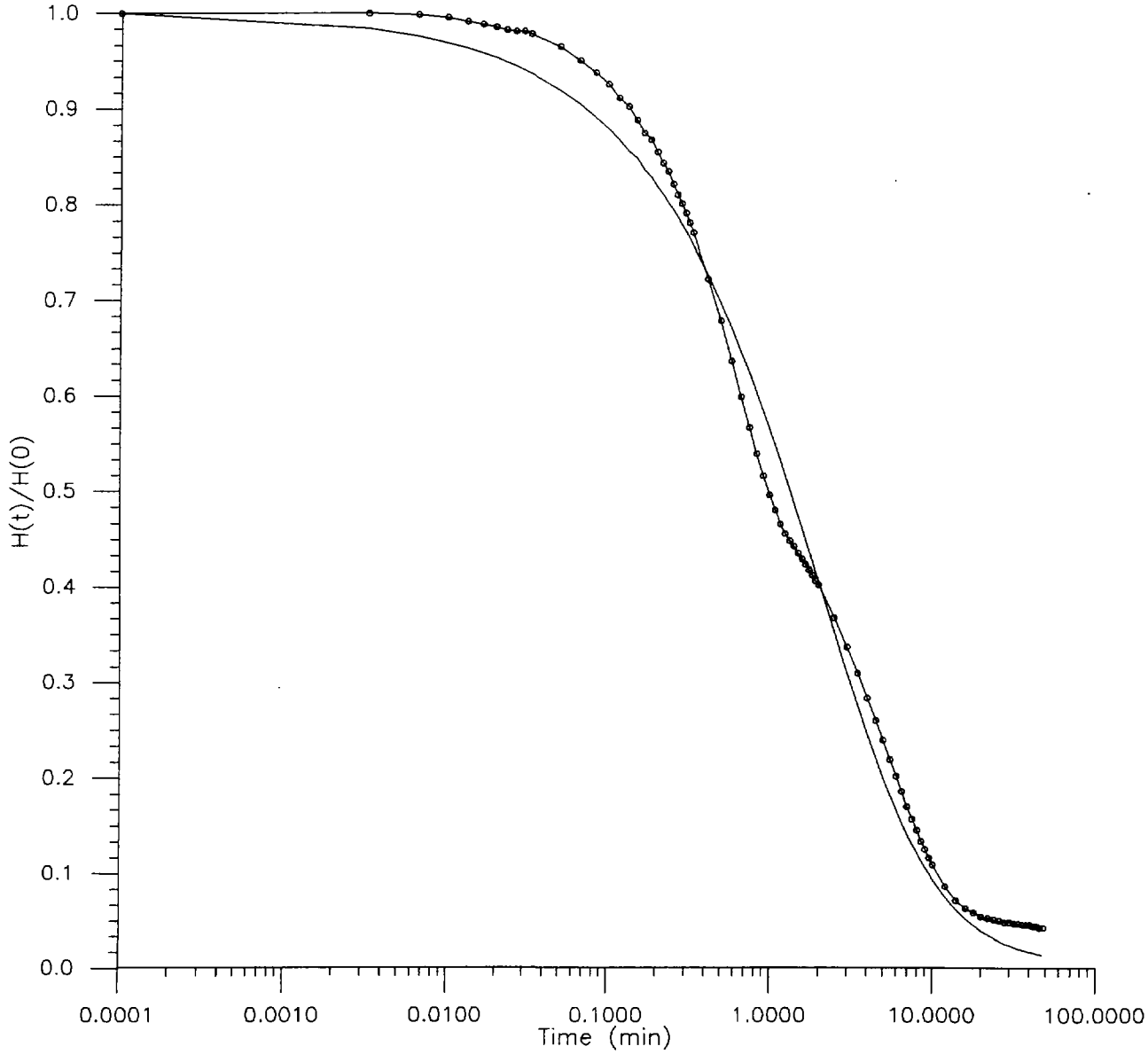
Transmissivity calculated using Aqtesolv software (Geraghty and Miller, 1989).

Calculated Hydraulic Conductivity (cm/sec):8.84 E-03
Initial head (ft): 6.638
adius of Well Casing (ft): .16
Effective radius of well (ft): .42
Saturated aquifer thickness(ft): 15.0
Length of screen (ft): 15.0
Type curve method: Cooper et al (1973)

U.S. Army Environmental Center
Aberdeen Proving Ground, MD

SLUG TEST – MW –113

PROJECT:	TEST DATE:	FILE NAME:	FIGURE:
Tooele–South	04/18/95	MW–113A.GRF	B–1



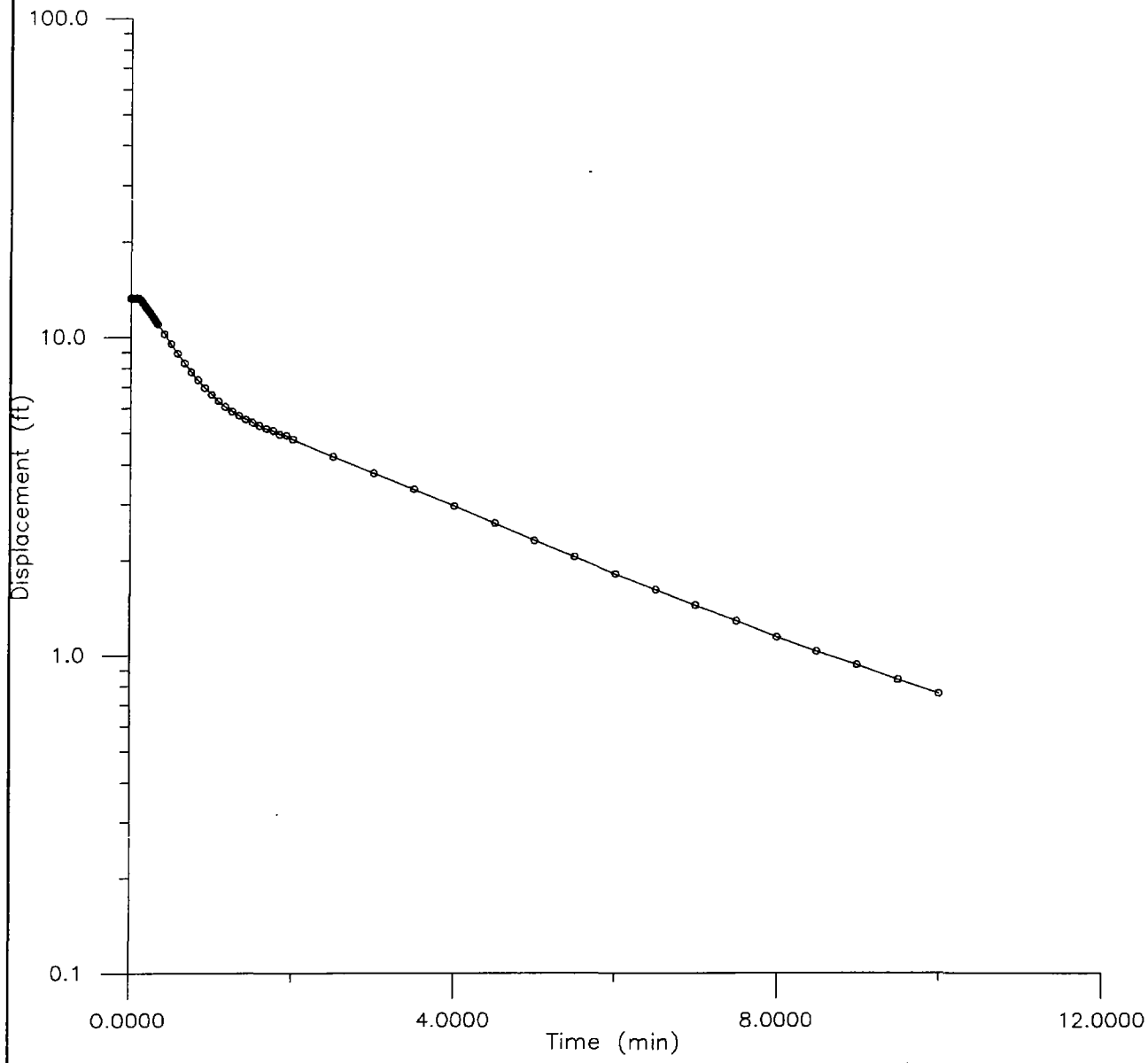
Transmissivity calculated using Aqtesolv software (Geraghty and Miller, 1989).

Calculated Hydraulic Conductivity (cm/sec): 2.33 E-04
Initial drawdown (ft): 10.947
Radius of Well Casing (ft): .1667
Effective radius of well (ft): .4167
Saturated aquifer thickness(ft): 15.00
Length of screen (ft): 15
Type curve method: Cooper et al (1973)

U.S. Army Environmental Center
Aberdeen Proving Ground, MD

SLUG TEST - MW -114
Tooele Army Depot- South Area
SWMU 19

PROJECT:	TEST DATE:	FILE NAME:	FIGURE:
Tooele-South		MW114A.GRF	B-2



Transmissivity calculated using Aqtesolv software (Geraghty and Miller, 1989).

Calculated Hydraulic Conductivity (cm/sec): 3.0231 E-04
Initial drawdown (ft): 13.276
Radius of Well Casing (ft): .16
Effective radius of well (ft): .42
Saturated aquifer thickness(ft): 17
Length of screen (ft): 17
Type curve method: Bouwer and Rice (1976)

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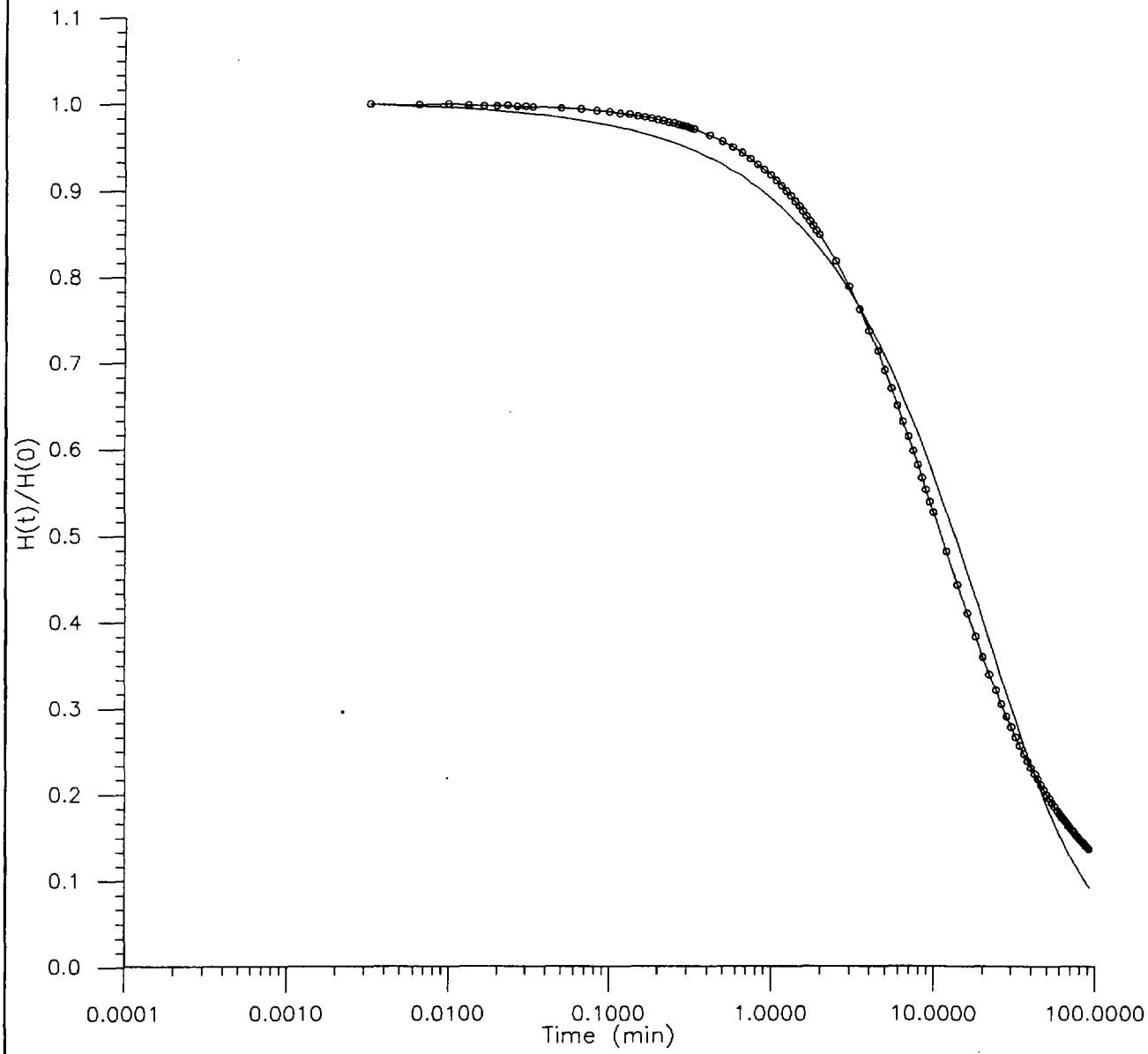
Aberdeen Proving Ground, MD

SLUG TEST – MW –115

PROJECT:	TEST DATE:	FILE NAME:	FIGURE:
Tooele–South		MW–115B.GRF	B–5



Transmissivity calculated using Aqtesolv software (Geraghty and Miller, 1989).

Calculated Hydraulic Conductivity (cm/sec): 3.45 E-05
Initial head (ft): 25.65
Radius of Well Casing (ft): .167
Effective radius of well (ft): .42
Saturated aquifer thickness(ft): 21.0
Length of screen (ft): 21.0
Type curve method: Cooper et al (1973)

U.S. Army Environmental Center
Aberdeen Proving Ground, MD

SLUG TEST - MW -116

PROJECT:	TEST DATE:	FILE NAME:	FIGURE:
Tooele-South		MW-116a.GRF	B-6

SE1000C
Environmental Logger
11/02 13:36

Unit# 00001 Test 113

Setups:	INPUT 1
Type	Level (F)
Mode	TOC
I.D.	00000
Reference	0.000
Linearity	0.000
Scale factor	50.120
Offset	0.000
Delay mSEC	50.000

Step 0 10/22 10:17:16

Elapsed Time	INPUT 1
0.0000	-0.031
0.0033	-0.031
0.0066	-0.016
0.0100	-0.016
0.0133	-0.031
0.0166	-0.031
0.0200	-0.016
0.0233	-0.016
0.0266	-0.016
0.0300	-0.016
0.0333	-0.016
0.0500	-0.016
0.0666	-0.016
0.0833	-0.016
0.1000	0.000
0.1166	0.000
0.1333	0.015
0.1500	0.015
0.1666	0.031
0.1833	0.031
0.2000	0.047
0.2166	0.047
0.2333	0.063
0.2500	0.079
0.2666	0.095
0.2833	0.110
0.3000	0.110
0.3166	0.126
0.3333	0.142
0.4166	0.205
0.5000	0.253
0.5833	0.301
0.6666	0.332
0.7500	0.348
0.8333	0.380
0.9166	0.380
1.0000	0.380

1.0833	0.396
1.1666	0.396
1.2500	0.396
1.3333	0.396
1.4166	0.396
1.5000	0.396
1.5833	0.396
1.6666	0.380
1.7500	0.380
1.8333	0.380
1.9166	0.380
2.0000	0.364
2.5000	0.348
3.0000	0.316
3.5000	0.301
4.0000	0.285
4.5000	0.269
5.0000	0.253
5.5000	0.253
6.0000	0.237
6.5000	0.221
7.0000	0.205
7.5000	0.205
8.0000	0.190
8.5000	0.190
9.0000	0.174
9.5000	0.174
10.0000	0.174
12.0000	0.158
14.0000	0.142
16.0000	0.110
18.0000	0.110
20.0000	0.079
22.0000	0.095
24.0000	0.047
26.0000	0.063
28.0000	0.047
30.0000	0.047
32.0000	0.047
34.0000	0.031
36.0000	0.031
38.0000	0.015
40.0000	0.015
42.0000	0.015

SE1000C
Environmental Logger
11/02 13:42

Unit# 00001 Test 114

Setups:	INPUT 1
Type	Level (F)
Mode	TOC
I.D.	00000
Reference	0.000
Linearity	0.000
Scale factor	50.120
Offset	0.000
Delay mSEC	50.000

Step 0 10/22 14:17:49

Elapsed Time	INPUT 1
0.0000	10.947
0.0033	10.947
0.0066	10.931
0.0100	10.899
0.0133	10.852
0.0166	10.820
0.0200	10.789
0.0233	10.757
0.0266	10.741
0.0300	10.741
0.0333	10.709
0.0500	10.567
0.0666	10.408
0.0833	10.266
0.1000	10.139
0.1166	9.981
0.1333	9.885
0.1500	9.727
0.1666	9.584
0.1833	9.505
0.2000	9.363
0.2166	9.236
0.2333	9.141
0.2500	8.998
0.2666	8.872
0.2833	8.776
0.3000	8.666
0.3166	8.555
0.3333	8.444
0.4166	7.905
0.5000	7.430
0.5833	6.970
0.6666	6.558
0.7500	6.210
0.8333	5.909
0.9166	5.655
1.0000	5.434

1.0833	5.259
1.1666	5.101
1.2500	4.990
1.3333	4.911
1.4166	4.848
1.5000	4.768
1.5833	4.705
1.6666	4.642
1.7500	4.578
1.8333	4.515
1.9166	4.451
2.0000	4.404
2.5000	4.024
3.0000	3.691
3.5000	3.390
4.0000	3.105
4.5000	2.851
5.0000	2.629
5.5000	2.408
6.0000	2.218
6.5000	2.043
7.0000	1.869
7.5000	1.726
8.0000	1.600
8.5000	1.473
9.0000	1.378
9.5000	1.283
10.0000	1.204
12.0000	0.950
14.0000	0.792
16.0000	0.697
18.0000	0.649
20.0000	0.602
22.0000	0.586
24.0000	0.570
26.0000	0.554
28.0000	0.538
30.0000	0.538
32.0000	0.523
34.0000	0.523
36.0000	0.507
38.0000	0.507
40.0000	0.507
42.0000	0.491
44.0000	0.491
46.0000	0.475
48.0000	0.475

SLUG TEST - MW 115
11/02/94

0.0000	7.572
0.0033	7.667
0.0066	7.699
0.0100	7.747
0.0133	7.620
0.0166	7.636
0.0200	7.620
0.0233	7.588
0.0266	7.556
0.0300	7.525
0.0333	7.509
0.0500	7.335
0.0666	7.145
0.0833	7.018
0.1000	6.875
0.1166	6.701
0.1333	6.606
0.1500	6.463
0.1666	6.257
0.1833	6.131
0.2000	5.988
0.2166	5.861
0.2333	5.719
0.2500	5.608
0.2666	5.481
0.2833	5.386
0.3000	5.243
0.3166	5.117
0.3333	5.006
0.4166	4.436
0.5000	3.897
0.5833	3.437
0.6666	3.010
0.7500	2.629
0.8333	2.313
0.9166	2.059
1.0000	1.869
1.0833	1.679
1.1666	1.552
1.2500	1.473
1.3333	1.410
1.4166	1.410
1.5000	1.394
1.5833	1.378
1.6666	1.362
1.7500	1.362
1.8333	1.346
1.9166	1.330
2.0000	1.330
2.5000	1.267
3.0000	1.220
3.5000	1.188
4.0000	1.140
4.5000	1.093
5.0000	1.061
5.5000	1.029
6.0000	0.998

6.5000	0.966
7.0000	0.950
7.5000	0.918
8.0000	0.903
8.5000	0.903
9.0000	0.855
9.5000	0.839
10.0000	0.792
12.0000	0.760
14.0000	0.697
16.0000	0.665
18.0000	0.617
20.0000	0.586
22.0000	0.538
24.0000	0.538

SE1000C
Environmental Logger
11/02 13:45

Unit# 00001 Test 116

Setups:	INPUT 1
Type	Level (F)
Mode	TOC
I.D.	00000
Reference	0.000
Linearity	0.000
Scale factor	50.120
Offset	0.000
Delay mSEC	50.000

Step 0 10/23 12:38:46

Elapsed Time	INPUT 1
0.0000	25.649
0.0033	25.665
0.0066	25.649
0.0100	25.680
0.0133	25.633
0.0166	25.617
0.0200	25.617
0.0233	25.633
0.0266	25.601
0.0300	25.601
0.0333	25.585
0.0500	25.554
0.0666	25.522
0.0833	25.475
0.1000	25.443
0.1166	25.395
0.1333	25.364
0.1500	25.316
0.1666	25.284
0.1833	25.253
0.2000	25.205
0.2166	25.174
0.2333	25.126
0.2500	25.110
0.2666	25.063
0.2833	25.031
0.3000	24.999
0.3166	24.952
0.3333	24.920
0.4166	24.730
0.5000	24.556
0.5833	24.381
0.6666	24.223
0.7500	24.049
0.8333	23.874
0.9166	23.716
1.0000	23.558

1.0833	23.399
1.1666	23.241
1.2500	23.082
1.3333	22.940
1.4166	22.781
1.5000	22.639
1.5833	22.480
1.6666	22.338
1.7500	22.195
1.8333	22.053
1.9166	21.910
2.0000	21.783
2.5000	20.991
3.0000	20.246
3.5000	19.565
4.0000	18.916
4.5000	18.314
5.0000	17.743
5.5000	17.205
6.0000	16.698
6.5000	16.222
7.0000	15.779
7.5000	15.351
8.0000	14.939
8.5000	14.559
9.0000	14.195
9.5000	13.846
10.0000	13.529
12.0000	12.357
14.0000	11.375
16.0000	10.535
18.0000	9.838
20.0000	9.236
22.0000	8.713
24.0000	8.254
26.0000	7.842
28.0000	7.477
30.0000	7.160
32.0000	6.859
34.0000	6.606
36.0000	6.368
38.0000	6.146
40.0000	5.940
42.0000	5.766
44.0000	5.608
46.0000	5.434
48.0000	5.291
50.0000	5.148
52.0000	5.038
54.0000	4.911
56.0000	4.800
58.0000	4.689
60.0000	4.594
62.0000	4.499
64.0000	4.420
66.0000	4.340
68.0000	4.245
70.0000	4.166
72.0000	4.103
74.0000	4.039

76.0000	3.960
78.0000	3.913
80.0000	3.849
82.0000	3.786
84.0000	3.738
86.0000	3.691
88.0000	3.628
90.0000	3.580
92.0000	3.532

PESTICIDE ROOT ZONE MODEL (PRZM-2) CALCUATIONS

```
1 CHEMICAL, NO TEMPERATURE CORRECTION, PRZM INPUT FOR ZONE 1
HYDOLOGY PARAMETERS (CROP DATA FROM USDA NO.283 HANDBOOK)
    0.70     0.50        0  15.000        1        3
       0
       1
       1    0.05     10.0    1.000        3  72  72  72 0.0 0.0 0.0              0.0
       1
  110582  300982  151082        1
PESTICIDE TRANSPORT AND TRANSFORMATION AND APPLICATION PARAMETERS
       5        1        0
    IMPA
  120548        0      2.5     0.20
  010149        0      2.5     0.20
  010150        0      2.5     0.20
  010151        0      2.5     0.20
  010152        0      2.5     0.20
       1        1
SOILS PARAMETERS
   609.6      0.0    0   0    0   0    0   0    0   0    0
8.857E03 2.8E-07   2.0E01
       1
       1    609.6     1.60    0.233      0.0      0.0      0.0
          0.00288 0.00288 2.24E-5
            5.08     .333     .050      1.0     0.12
       1        0
    1300     1300     1300     1300     1300     1300     7.02     7.02
    7.02     7.02     7.02     7.02      0.5      0.5      0.5      0.5
     0.5      0.5     17.2     17.2     17.2     17.2     17.2     17.2
    1.78     1.78     1.78     1.78     1.78     1.78      0.0      0.0
     0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
     0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
     0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
     0.0      0.0      0.0     5.36     5.36     5.36     5.36     5.36
    5.36     21.0     21.0     21.0     21.0     21.0     21.0      0.0
     0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
     0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
     0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
     0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
     0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
     0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0
    WATR     YEAR        1                                 CONC     YEAR        1
       3     YEAR
    TPST1    TCUM       30
    TPST2    TCUM       30
    INFL     TCUM       30
```

```
1 CHEMICAL, NO TEMPERATURE CORRECTION, PRZM INPUT FOR ZONE 1
HYDOLOGY PARAMETERS (CROP DATA FROM USDA NO.283 HANDBOOK)
    0.70    0.50       0  15.000       1       3
       0
       1
       1    0.05    10.0   1.000       3  72   72   72 0.0 0.0 0.0                0.0
       1
  110582  300982  151082       1
PESTICIDE TRANSPORT AND TRANSFORMATION AND APPLICATION PARAMETERS
       5       1       0
BENZO(a)PYRENE
  120548       0     2.5    0.00
  010149       0     2.5    0.00
  010150       0     2.5    0.00
  010151       0     2.5    0.00
  010152       0     2.5    0.00
       1       1
SOILS PARAMETERS
   609.6     0.0   0   0   0   0   0   0   0   0   0
5.829E03 9.8E-05  2.0E01
       1
       1   609.6    1.60   0.233     0.0     0.0     0.0
     0.00131 0.00131 1.51E01
            5.08    .333    .050     1.0  8912.5
       1       0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
    4.14    4.14    4.14    4.14    4.14    4.14     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
    WATR    YEAR       1                           CONC    YEAR       1
       3    YEAR
   TPST1    TCUM      30
   TPST2    TCUM      30
    INFL    TCUM      30
```

```
1 CHEMICAL, NO TEMPERATURE CORRECTION, PRZM INPUT FOR ZONE 1
HYDOLOGY PARAMETERS (CROP DATA FROM USDA NO.283 HANDBOOK)
    0.70    0.50       0  15.000       1       3
       0
       1
       1    0.05    10.0   1.000       3  72  72  72 0.0 0.0 0.0              0.0
       1
  110582  300982  151082       1
PESTICIDE TRANSPORT AND TRANSFORMATION AND APPLICATION PARAMETERS
       5       1       0
Mercury
  120548       0     2.5    0.00
  010149       0     2.5    0.00
  010150       0     2.5    0.00
  010151       0     2.5    0.00
  010152       0     2.5    0.00
       1       1
SOILS PARAMETERS
   609.6     0.0   0   0   0   0   0   0   0   0   0
4.700E03 2.9E-08  2.0E01
       1
       1   609.6    1.60   0.233     0.0     0.0     0.0
         3.3E-06 3.3E-06 0.00E00
           5.08    .333    .050     1.0 58000.0
       1       0
   192.0   192.0   192.0   192.0   192.0   192.0    1.12    1.12
    1.12    1.12    1.12    1.12    1.12    1.12    1.12    1.12
    1.12    1.12    1.12    1.12    1.12    1.12    1.12    1.12
    1.12    1.12    1.12    1.12    1.12    1.12    0.68    0.68
    0.68    0.68    0.68    0.68    0.68    0.68    0.68    0.68
    0.68    0.68    0.68    0.68    0.68    0.68    0.68    0.68
    0.68    0.68    0.68    0.68    0.68    0.68    0.68    0.68
    0.68    0.68    0.68    0.68     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
    WATR    YEAR       1                            CONC    YEAR       1
       3    YEAR
    TPST1   TCUM      30
    TPST2   TCUM      30
    INFL    TCUM      30
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Table F-1. Estimated Benzo(a)pyrene Concentrations (mg/kg) - SWMU 20
Deseret Chemical Depot, Tooele, Utah

Cell	Depth (ft)	Initial	YEAR 1	2	3	4	5	6	7	10	20	30
1	0.17	0	0	0	0	0	0	0	0	0	0	0
2	0.33	0	0	0	0	0	0	0	0	0	0	0
3	0.50	0	0	0	0	0	0	0	0	0	0	0
4	0.67	0	0	0	0	0	0	0	0	0	0	0
5	0.83	0	0	0	0	0	0	0	0	0	0	0
6	1.00	0	0	0	0	0	0	0	0	0	0	0
7	1.17	0	0	0	0	0	0	0	0	0	0	0
8	1.33	0	0	0	0	0	0	0	0	0	0	0
9	1.50	0	0	0	0	0	0	0	0	0	0	0
10	1.67	0	0	0	0	0	0	0	0	0	0	0
11	1.83	0	0	0	0	0	0	0	0	0	0	0
12	2.00	0	0	0	0	0	0	0	0	0	0	0
13	2.17	0	0	0	0	0	0	0	0	0	0	0
14	2.33	0	0	0	0	0	0	0	0	0	0	0
15	2.50	0	0	0	0	0	0	0	0	0	0	0
16	2.67	0	0	0	0	0	0	0	0	0	0	0
17	2.83	0	0	0	0	0	0	0	0	0	0	0
18	3.00	0	0	0	0	0	0	0	0	0	0	0
19	3.17	0	0	0	0	0	0	0	0	0	0	0
20	3.33	0	0	0	0	0	0	0	0	0	0	0
21	3.50	0	0	0	0	0	0	0	0	0	0	0
22	3.67	0	1.84E-19	7.59E-19	5.05E-19	3.35E-19	2.21E-19	1.46E-19	9.63E-20	1.78E-20	0	0
23	3.83	0	2.53E-12	2.39E-12	1.52E-12	9.67E-13	6.14E-13	3.91E-13	2.49E-13	4.05E-14	4.24E-16	4.34E-18
24	4.00	0	3.60E-06	2.77E-06	1.74E-06	1.09E-06	6.85E-07	4.30E-07	2.70E-07	4.19E-08	3.92E-10	3.63E-12
25	4.17	4.14	2.56	1.59	0.99	0.61	0.38	0.23	0.15	2.15E-02	1.80E-04	1.51E-06
26	4.33	4.14	2.56	1.59	0.99	0.61	0.38	0.23	0.15	2.15E-02	1.80E-04	1.51E-06
27	4.50	4.14	2.56	1.59	0.99	0.61	0.38	0.23	0.15	2.15E-02	1.80E-04	1.51E-06
28	4.67	4.14	2.56	1.59	0.99	0.61	0.38	0.23	0.15	2.15E-02	1.80E-04	1.51E-06
29	4.83	4.14	2.56	1.59	0.99	0.61	0.38	0.23	0.15	2.15E-02	1.80E-04	1.51E-06
30	5.00	4.14	2.56	1.59	0.99	0.61	0.38	0.23	0.15	2.15E-02	1.80E-04	1.51E-06
31	5.17	0	3.60E-06	4.45E-06	5.54E-05	9.35E-05	1.22E-04	8.81E-05	5.46E-05	1.36E-05	2.10E-07	3.77E-09
32	5.33	0	2.53E-12	6.24E-12	1.85E-09	7.64E-09	2.05E-08	1.71E-08	1.06E-08	4.36E-09	1.24E-10	4.72E-12
33	5.50	0	1.84E-19	5.22E-18	4.74E-14	4.43E-13	2.38E-12	2.29E-12	1.42E-12	9.52E-13	4.93E-14	3.97E-15
34	5.67	0	0	0	9.43E-19	2.04E-17	2.15E-16	2.38E-16	1.47E-16	1.59E-16	1.48E-17	2.51E-18
35	5.83	0	0	0	0	0	0	0	0	0	0	0
36	6.00	0	0	0	0	0	0	0	0	0	0	0
37	6.17	0	0	0	0	0	0	0	0	0	0	0
38	6.33	0	0	0	0	0	0	0	0	0	0	0
39	6.50	0	0	0	0	0	0	0	0	0	0	0
40	6.67	0	0	0	0	0	0	0	0	0	0	0
41	6.83	0	0	0	0	0	0	0	0	0	0	0
42	7.00	0	0	0	0	0	0	0	0	0	0	0

Table F-1. Estimated Benzo(a)pyrene Concentrations (mg/kg) - SWMU 20
Deseret Chemical Depot, Tooele, Utah

Cell	Depth (ft)	YEAR Initial	1	2	3	4	5	6	7	10	20	30
43	7.17	0	0	0	0	0	0	0	0	0	0	0
44	7.33	0	0	0	0	0	0	0	0	0	0	0
45	7.50	0	0	0	0	0	0	0	0	0	0	0
46	7.67	0	0	0	0	0	0	0	0	0	0	0
47	7.83	0	0	0	0	0	0	0	0	0	0	0
48	8.00	0	0	0	0	0	0	0	0	0	0	0
49	8.17	0	0	0	0	0	0	0	0	0	0	0
50	8.33	0	0	0	0	0	0	0	0	0	0	0
51	8.50	0	0	0	0	0	0	0	0	0	0	0
52	8.67	0	0	0	0	0	0	0	0	0	0	0
53	8.83	0	0	0	0	0	0	0	0	0	0	0
54	9.00	0	0	0	0	0	0	0	0	0	0	0
55	9.17	0	0	0	0	0	0	0	0	0	0	0
56	9.33	0	0	0	0	0	0	0	0	0	0	0
57	9.50	0	0	0	0	0	0	0	0	0	0	0
58	9.67	0	0	0	0	0	0	0	0	0	0	0
59	9.83	0	0	0	0	0	0	0	0	0	0	0
60	10.00	0	0	0	0	0	0	0	0	0	0	0
61	10.17	0	0	0	0	0	0	0	0	0	0	0
62	10.33	0	0	0	0	0	0	0	0	0	0	0
63	10.50	0	0	0	0	0	0	0	0	0	0	0
64	10.67	0	0	0	0	0	0	0	0	0	0	0
65	10.83	0	0	0	0	0	0	0	0	0	0	0
66	11.00	0	0	0	0	0	0	0	0	0	0	0
67	11.17	0	0	0	0	0	0	0	0	0	0	0
68	11.33	0	0	0	0	0	0	0	0	0	0	0
69	11.50	0	0	0	0	0	0	0	0	0	0	0
70	11.67	0	0	0	0	0	0	0	0	0	0	0
71	11.83	0	0	0	0	0	0	0	0	0	0	0
72	12.00	0	0	0	0	0	0	0	0	0	0	0
73	12.17	0	0	0	0	0	0	0	0	0	0	0
74	12.33	0	0	0	0	0	0	0	0	0	0	0
75	12.50	0	0	0	0	0	0	0	0	0	0	0
76	12.67	0	0	0	0	0	0	0	0	0	0	0
77	12.83	0	0	0	0	0	0	0	0	0	0	0
78	13.00	0	0	0	0	0	0	0	0	0	0	0
79	13.17	0	0	0	0	0	0	0	0	0	0	0
80	13.33	0	0	0	0	0	0	0	0	0	0	0
81	13.50	0	0	0	0	0	0	0	0	0	0	0
82	13.67	0	0	0	0	0	0	0	0	0	0	0
83	13.83	0	0	0	0	0	0	0	0	0	0	0
84	14.00	0	0	0	0	0	0	0	0	0	0	0

Table F-1. Estimated Benzo(a)pyrene Concentrations (mg/kg) - SWMU 20
Deseret Chemical Depot, Tooele, Utah

Cell	Depth (ft)	YEAR Initial	1	2	3	4	5	6	7	10	20	30
85	14.17	0	0	0	0	0	0	0	0	0	0	0
86	14.33	0	0	0	0	0	0	0	0	0	0	0
87	14.50	0	0	0	0	0	0	0	0	0	0	0
88	14.67	0	0	0	0	0	0	0	0	0	0	0
89	14.83	0	0	0	0	0	0	0	0	0	0	0
90	15.00	0	0	0	0	0	0	0	0	0	0	0
91	15.17	0	0	0	0	0	0	0	0	0	0	0
92	15.33	0	0	0	0	0	0	0	0	0	0	0
93	15.50	0	0	0	0	0	0	0	0	0	0	0
94	15.67	0	0	0	0	0	0	0	0	0	0	0
95	15.83	0	0	0	0	0	0	0	0	0	0	0
96	16.00	0	0	0	0	0	0	0	0	0	0	0
97	16.17	0	0	0	0	0	0	0	0	0	0	0
98	16.33	0	0	0	0	0	0	0	0	0	0	0
99	16.50	0	0	0	0	0	0	0	0	0	0	0
100	16.67	0	0	0	0	0	0	0	0	0	0	0
101	16.83	0	0	0	0	0	0	0	0	0	0	0
102	17.00	0	0	0	0	0	0	0	0	0	0	0
103	17.17	0	0	0	0	0	0	0	0	0	0	0
104	17.33	0	0	0	0	0	0	0	0	0	0	0
105	17.50	0	0	0	0	0	0	0	0	0	0	0
106	17.67	0	0	0	0	0	0	0	0	0	0	0
107	17.83	0	0	0	0	0	0	0	0	0	0	0
108	18.00	0	0	0	0	0	0	0	0	0	0	0
109	18.17	0	0	0	0	0	0	0	0	0	0	0
110	18.33	0	0	0	0	0	0	0	0	0	0	0
111	18.50	0	0	0	0	0	0	0	0	0	0	0
112	18.67	0	0	0	0	0	0	0	0	0	0	0
113	18.83	0	0	0	0	0	0	0	0	0	0	0
114	19.00	0	0	0	0	0	0	0	0	0	0	0
115	19.17	0	0	0	0	0	0	0	0	0	0	0
116	19.33	0	0	0	0	0	0	0	0	0	0	0
117	19.50	0	0	0	0	0	0	0	0	0	0	0
118	19.67	0	0	0	0	0	0	0	0	0	0	0
119	19.83	0	0	0	0	0	0	0	0	0	0	0
120	20.00	0	0	0	0	0	0	0	0	0	0	0

Table F-2. Estimated IMPA Concentrations (mg/kg)- SWMU 33a, Deseret Chemical Depot, Tooele, Utah

Cell	Depth (ft)	YEAR Initial	1	2	3	4	5	6	7	10	20	30
1	0.17			3.25E-04	2.50E-04	1.61E-05	1.97E-05	4.28E-07	3.76E-08	2.12E-13	6.64E-25	0
2	0.33			0.3722	1.96E-02	1.72E-03	2.17E-03	1.68E-04	2.17E-05	1.52E-10	2.90E-21	0
3	0.50					5.00E-02	1.00E-02	1.34E-03	5.03E-04	1.96E-08	1.53E-18	0
4	0.67					0.2361	1.56E-02	2.94E-03	1.03E-03	1.41E-07	2.84E-17	0
5	0.83						2.69E-02	5.37E-03	1.88E-03	5.50E-07	2.68E-16	0
6	1.00						5.56E-02	1.04E-02	3.64E-03	1.58E-06	1.72E-15	0
7	1.17						0.1241	2.20E-02	7.71E-03	3.83E-06	8.47E-15	0
8	1.33						0.2623	4.69E-02	1.64E-02	8.48E-06	3.42E-14	0
9	1.50							9.35E-02	3.27E-02	1.80E-05	1.19E-13	0
10	1.67							0.1699	5.95E-02	3.72E-05	3.64E-13	0
11	1.83							0.281	9.84E-02	7.43E-05	1.01E-12	0
12	2.00							0.4254	0.1489	1.42E-04	2.59E-12	0
13	2.17	0.5	0.175						0.208	2.57E-04	6.23E-12	0
14	2.33	0.5	0.1745						0.2699	4.39E-04	1.42E-11	0
15	2.50	0.5	0.1745						0.3278	7.06E-04	3.08E-11	0
16	2.67	0.5	0.1745						0.3747	1.07E-03	6.41E-11	1.35E-24
17	2.83	0.5	0.1745						0.4052	1.54E-03	1.29E-10	5.40E-24
18	3.00	0.5	0.1757						0.4165	2.09E-03	2.48E-10	1.85E-23
19	3.17								0.4085	2.70E-03	4.61E-10	5.91E-23
20	3.33								0.3836	3.34E-03	8.26E-10	1.79E-22
21	3.50								0.3461	3.95E-03	1.43E-09	5.17E-22
22	3.67								0.3009	4.48E-03	2.37E-09	1.43E-21
23	3.83								0.2527	4.88E-03	3.80E-09	3.79E-21
24	4.00								0.2056	5.14E-03	5.88E-09	9.69E-21
25	4.17					0.3594			0.1626	5.22E-03	8.78E-09	2.39E-20
26	4.33					0.3083		0.3583	0.1254	5.14E-03	1.27E-08	5.70E-20
27	4.50			0.3459	0.4499	0.2688		0.2707	9.48E-02	4.90E-03	1.77E-08	1.32E-19
28	4.67			0.2402	0.305	0.2284	0.3312	0.2015	7.06E-02	4.55E-03	2.40E-08	2.96E-19
29	4.83			0.2175	0.2067	0.1856	0.2434	0.1489	5.21E-02	4.10E-03	3.15E-08	6.46E-19
30	5.00			0.2174	0.1494	0.1443	0.1823	0.11	3.85E-02	3.60E-03	4.01E-08	1.37E-18
31	5.17	0	1.27E-04	8.85E-05	9.30E-02	0.1079	0.1394	8.18E-02	2.86E-02	3.09E-03	4.97E-08	2.84E-18
32	5.33	0	1.30E-08	1.81E-08	4.94E-02	7.77E-02	0.1084	6.16E-02	2.16E-02	2.59E-03	5.99E-08	5.73E-18
33	5.50	0	8.85E-13	2.46E-12	2.33E-02	5.35E-02	8.52E-02	4.70E-02	1.64E-02	2.13E-03	7.04E-08	1.13E-17
34	5.67	0	4.55E-17	2.51E-16	9.49E-03	3.51E-02	6.69E-02	3.62E-02	1.27E-02	1.72E-03	8.06E-08	2.17E-17
35	5.83	0	1.87E-21	2.06E-20	3.25E-03	2.18E-02	5.20E-02	2.81E-02	9.84E-03	1.37E-03	9.01E-08	4.08E-17
36	6.00	0	0	0	9.35E-04	1.27E-02	3.99E-02	2.18E-02	7.63E-03	1.07E-03	9.84E-08	7.50E-17
37	6.17	0	0	0	2.03E-04	7.05E-03	2.99E-02	1.68E-02	5.87E-03	8.31E-04	1.05E-07	1.35E-16
38	6.33	0	0	0	2.33E-05	3.69E-03	2.19E-02	1.27E-02	4.46E-03	6.39E-04	1.10E-07	2.37E-16
39	6.50	0	0	0	6.24E-11	1.83E-03	1.57E-02	9.52E-03	3.33E-03	4.89E-04	1.12E-07	4.09E-16
40	6.67	0	0	0	7.37E-16	8.61E-04	1.09E-02	6.98E-03	2.44E-03	3.73E-04	1.12E-07	6.91E-16
41	6.83	0	0	0	6.17E-21	3.87E-04	7.34E-03	5.00E-03	1.75E-03	2.84E-04	1.10E-07	1.14E-15
42	7.00	0	0	0	0	1.67E-04	4.82E-03	3.50E-03	1.23E-03	2.16E-04	1.06E-07	1.86E-15
43	7.17	0	0	0	0	6.87E-05	3.07E-03	2.39E-03	8.37E-04	1.64E-04	1.01E-07	2.95E-15

Table F-2. Estimated IMPA Concentrations (mg/kg)- SWMU 33a, Deseret Chemical Depot, Tooele, Utah

Cell	Depth (ft)	Initial	YEAR 1	2	3	4	5	6	7	10	20	30
44	7.33	0	0	0	0	2.72E-05	1.91E-03	1.60E-03	5.58E-04	1.25E-04	9.37E-08	4.61E-15
45	7.50	0	0	0	0	1.04E-05	1.16E-03	1.04E-03	3.64E-04	9.48E-05	8.57E-08	7.06E-15
46	7.67	0	0	0	0	3.85E-06	6.81E-04	6.61E-04	2.31E-04	7.16E-05	7.71E-08	1.06E-14
47	7.83	0	0	0	0	1.37E-06	3.92E-04	4.11E-04	1.44E-04	5.37E-05	6.84E-08	1.57E-14
48	8.00	0	0	0	0	4.72E-07	2.20E-04	2.50E-04	8.74E-05	3.99E-05	5.97E-08	2.28E-14
49	8.17	0	0	0	0	1.46E-07	1.21E-04	1.49E-04	5.20E-05	2.94E-05	5.14E-08	3.25E-14
50	8.33	0	0	0	0	3.71E-08	6.54E-05	8.66E-05	3.03E-05	2.14E-05	4.37E-08	4.57E-14
51	8.50	0	0	0	0	7.63E-09	3.45E-05	4.95E-05	1.73E-05	1.54E-05	3.67E-08	6.30E-14
52	8.67	0	0	0	0	6.01E-10	1.79E-05	2.78E-05	9.71E-06	1.09E-05	3.04E-08	8.56E-14
53	8.83	0	0	0	0	1.71E-16	9.14E-06	1.53E-05	5.35E-06	7.59E-06	2.50E-08	1.14E-13
54	9.00	0	0	0	0	1.43E-22	4.59E-06	8.28E-06	2.90E-06	5.23E-06	2.03E-08	1.51E-13
55	9.17	0	5.64E-21	6.19E-20	1.64E-19	2.40E-19	2.27E-06	4.41E-06	1.55E-06	3.54E-06	1.63E-08	1.95E-13
56	9.33	0	1.37E-16	7.56E-16	1.33E-15	1.47E-15	1.11E-06	2.32E-06	8.11E-07	2.36E-06	1.30E-08	2.49E-13
57	9.50	0	2.66E-12	7.40E-12	8.71E-12	7.22E-12	5.32E-07	1.20E-06	4.19E-07	1.55E-06	1.03E-08	3.14E-13
58	9.67	0	3.90E-08	5.44E-08	4.27E-08	2.66E-08	2.53E-07	6.11E-07	2.14E-07	1.01E-06	8.11E-09	3.89E-13
59	9.83	0	3.81E-04	2.67E-04	1.40E-04	6.52E-05	1.73E-06	4.84E-07	1.70E-07	6.43E-07	6.33E-09	4.76E-13
60	10.00	[redacted]				8.02E-02	2.32E-03	2.54E-04	8.88E-05	4.08E-07	4.92E-09	5.75E-13
61	10.17	[redacted]				8.03E-02	7.76E-03	1.09E-03	3.83E-04	2.82E-07	3.80E-09	6.84E-13
62	10.33	[redacted]				8.03E-02	1.48E-02	2.59E-03	9.08E-04	3.07E-07	2.92E-09	8.04E-13
63	10.50	[redacted]				8.03E-02	2.14E-02	4.51E-03	1.58E-03	6.17E-07	2.23E-09	9.32E-13
64	10.67	[redacted]				8.03E-02	2.65E-02	6.49E-03	2.27E-03	1.45E-06	1.69E-09	1.07E-12
65	10.83	[redacted]				8.04E-02	3.00E-02	8.23E-03	2.88E-03	3.08E-06	1.28E-09	1.21E-12
66	11.00	[redacted]				0.3142	5.00E-02	1.15E-02	4.04E-03	5.81E-06	9.63E-10	1.35E-12
67	11.17	[redacted]				0.3144	7.79E-02	1.73E-02	6.06E-03	9.91E-06	7.20E-10	1.49E-12
68	11.33	[redacted]				0.3144	0.1015	2.45E-02	8.58E-03	1.57E-05	5.35E-10	1.63E-12
69	11.50	[redacted]				0.3144	0.1174	3.15E-02	1.10E-02	2.38E-05	3.96E-10	1.75E-12
70	11.67	[redacted]				0.3144	0.1269	3.72E-02	1.30E-02	3.47E-05	2.92E-10	1.87E-12
71	11.83	[redacted]				0.3141	0.1317	4.14E-02	1.45E-02	4.90E-05	2.15E-10	1.97E-12
72	12.00	0	1.49E-03	1.04E-03	5.48E-04	2.56E-04	7.43E-02	3.75E-02	1.31E-02	6.68E-05	1.61E-10	2.06E-12
73	12.17	0	1.53E-07	2.13E-07	1.67E-07	1.04E-07	3.15E-02	2.80E-02	9.81E-03	8.72E-05	1.26E-10	2.12E-12
74	12.33	0	1.04E-11	2.90E-11	3.41E-11	2.83E-11	1.01E-02	1.79E-02	6.25E-03	1.08E-04	1.07E-10	2.17E-12
75	12.50	0	5.37E-16	2.96E-15	5.23E-15	5.77E-15	2.22E-03	1.00E-02	3.50E-03	1.27E-04	1.06E-10	2.19E-12
76	12.67	0	2.21E-20	2.43E-19	6.40E-19	9.41E-19	2.49E-04	5.08E-03	1.78E-03	1.39E-04	1.22E-10	2.20E-12
77	12.83	0	0	0	0	0	3.12E-09	2.39E-03	8.38E-04	1.44E-04	1.58E-10	2.18E-12
78	13.00	0	0	0	0	0	2.39E-13	1.05E-03	3.67E-04	1.40E-04	2.19E-10	2.14E-12
79	13.17	0	0	0	0	0	1.23E-17	4.47E-04	1.56E-04	1.28E-04	3.08E-10	2.08E-12
80	13.33	0	0	0	0	0	4.64E-22	1.74E-04	6.10E-05	1.11E-04	4.30E-10	2.00E-12
81	13.50	0	0	0	0	0	0	6.01E-05	2.10E-05	9.07E-05	5.88E-10	1.91E-12
82	13.67	0	0	0	0	0	0	2.01E-05	7.04E-06	7.08E-05	7.83E-10	1.81E-12
83	13.83	0	0	0	0	0	0	4.25E-06	1.49E-06	5.27E-05	1.01E-09	1.70E-12
84	14.00	0	0	0	0	0	0	1.16E-07	4.04E-08	3.76E-05	1.28E-09	1.58E-12
85	14.17	0	0	0	0	0	0	1.44E-11	1.04E-11	2.58E-05	1.55E-09	1.46E-12
86	14.33	0	0	0	0	0	0	1.39E-15	2.06E-15	1.70E-05	1.84E-09	1.33E-12

Table F-2. Estimated IMPA Concentrations (mg/kg)- SWMU 33a, Deseret Chemical Depot, Tooele, Utah

Cell	Depth (ft)	YEAR Initial	1	2	3	4	5	6	7	10	20	30
87	14.50	0	0	0	0	0	0	8.96E-20	2.72E-19	1.09E-05	2.11E-09	1.21E-12
88	14.67	0	0	0	0	0	0	0	0	6.73E-06	2.35E-09	1.09E-12
89	14.83	0	0	0	0	0	0	0	0	4.04E-06	2.54E-09	9.72E-13
90	15.00	0	0	0	0	0	0	0	0	2.36E-06	2.66E-09	8.62E-13
91	15.17	0	0	0	0	0	0	0	0	1.34E-06	2.72E-09	7.58E-13
92	15.33	0	0	0	0	0	0	0	0	7.44E-07	2.70E-09	6.63E-13
93	15.50	0	0	0	0	0	0	0	0	4.04E-07	2.61E-09	5.75E-13
94	15.67	0	0	0	0	0	0	0	0	2.14E-07	2.45E-09	4.95E-13
95	15.83	0	0	0	0	0	0	0	0	1.11E-07	2.25E-09	4.24E-13
96	16.00	0	0	0	0	0	0	0	0	5.67E-08	2.02E-09	3.61E-13
97	16.17	0	0	0	0	0	0	0	0	2.84E-08	1.76E-09	3.05E-13
98	16.33	0	0	0	0	0	0	0	0	1.39E-08	1.51E-09	2.56E-13
99	16.50	0	0	0	0	0	0	0	0	6.73E-09	1.26E-09	2.14E-13
100	16.67	0	0	0	0	0	0	0	0	3.20E-09	1.03E-09	1.77E-13
101	16.83	0	0	0	0	0	0	0	0	1.50E-09	8.24E-10	1.47E-13
102	17.00	0	0	0	0	0	0	0	0	6.91E-10	6.47E-10	1.21E-13
103	17.17	0	0	0	0	0	0	0	0	3.14E-10	4.98E-10	9.87E-14
104	17.33	0	0	0	0	0	0	0	0	1.41E-10	3.77E-10	8.07E-14
105	17.50	0	0	0	0	0	0	0	0	6.27E-11	2.80E-10	6.60E-14
106	17.67	0	0	0	0	0	0	0	0	2.75E-11	2.04E-10	5.41E-14
107	17.83	0	0	0	0	0	0	0	0	1.19E-11	1.46E-10	4.47E-14
108	18.00	0	0	0	0	0	0	0	0	5.09E-12	1.03E-10	3.74E-14
109	18.17	0	0	0	0	0	0	0	0	2.14E-12	7.16E-11	3.19E-14
110	18.33	0	0	0	0	0	0	0	0	8.76E-13	4.89E-11	2.81E-14
111	18.50	0	0	0	0	0	0	0	0	3.50E-13	3.29E-11	2.56E-14
112	18.67	0	0	0	0	0	0	0	0	1.36E-13	2.19E-11	2.43E-14
113	18.83	0	0	0	0	0	0	0	0	5.12E-14	1.43E-11	2.40E-14
114	19.00	0	0	0	0	0	0	0	0	1.85E-14	9.24E-12	2.45E-14
115	19.17	0	0	0	0	0	0	0	0	6.28E-15	5.89E-12	2.58E-14
116	19.33	0	0	0	0	0	0	0	0	1.98E-15	3.70E-12	2.76E-14
117	19.50	0	0	0	0	0	0	0	0	5.84E-16	2.30E-12	2.99E-14
118	19.67	0	0	0	0	0	0	0	0	1.64E-16	1.41E-12	3.24E-14
119	19.83	0	0	0	0	0	0	0	0	3.76E-17	8.57E-13	3.52E-14
120	20.00	0	0	0	0	0	0	0	0	3.77E-18	5.14E-13	3.79E-14

Table F-3. Estimated Mercury Concentrations (mg/kg) - SWMU 33b
Deseret Chemical Depot, Tooele, Utah

Cell	Depth (ft)	Initial	YEAR 1	5	10	20	30
1	0.17	192	191.8	190.6	189.4	187.1	184.7
2	0.33	192	191.8	190.6	189.5	187.3	185.1
3	0.50	192	191.8	190.6	189.5	187.2	185
4	0.67	192	191.8	190.6	189.5	187.2	185
5	0.83	192	191.8	190.6	189.5	187.2	185
6	1.00	192	191.8	190.6	189.5	187.2	185
7	1.17	1.12	1.119	1.128	1.128	1.115	1.154
8	1.33	1.12	1.119	1.112	1.105	1.092	1.079
9	1.50	1.12	1.119	1.112	1.105	1.092	1.079
10	1.67	1.12	1.119	1.112	1.105	1.092	1.079
11	1.83	1.12	1.119	1.112	1.105	1.092	1.079
12	2.00	1.12	1.119	1.112	1.105	1.092	1.079
13	2.17	1.12	1.119	1.112	1.105	1.092	1.079
14	2.33	1.12	1.119	1.112	1.105	1.092	1.079
15	2.50	1.12	1.119	1.112	1.105	1.092	1.079
16	2.67	1.12	1.119	1.112	1.105	1.092	1.079
17	2.83	1.12	1.119	1.112	1.105	1.092	1.079
18	3.00	1.12	1.119	1.112	1.105	1.092	1.079
19	3.17	1.12	1.119	1.112	1.105	1.092	1.079
20	3.33	1.12	1.119	1.112	1.105	1.092	1.079
21	3.50	1.12	1.119	1.112	1.105	1.092	1.079
22	3.67	1.12	1.119	1.112	1.105	1.092	1.079
23	3.83	1.12	1.119	1.112	1.105	1.092	1.079
24	4.00	1.12	1.119	1.112	1.105	1.092	1.079
25	4.17	1.12	1.119	1.112	1.105	1.092	1.079
26	4.33	1.12	1.119	1.112	1.105	1.092	1.079
27	4.50	1.12	1.119	1.112	1.105	1.092	1.079
28	4.67	1.12	1.119	1.112	1.105	1.092	1.079
29	4.83	1.12	1.119	1.112	1.105	1.092	1.079
30	5.00	1.12	1.119	1.112	1.105	1.092	1.079
31	5.17	0.68	0.679	0.675	0.671	0.663	0.655
32	5.33	0.68	0.679	0.675	0.671	0.663	0.655
33	5.50	0.68	0.679	0.675	0.671	0.663	0.655
34	5.67	0.68	0.679	0.675	0.671	0.663	0.655
35	5.83	0.68	0.679	0.675	0.671	0.663	0.655
36	6.00	0.68	0.679	0.675	0.671	0.663	0.655
37	6.17	0.68	0.679	0.675	0.671	0.663	0.655
38	6.33	0.68	0.679	0.675	0.671	0.663	0.655
39	6.50	0.68	0.679	0.675	0.671	0.663	0.655
40	6.67	0.68	0.679	0.675	0.671	0.663	0.655
41	6.83	0.68	0.679	0.675	0.671	0.663	0.655
42	7.00	0.68	0.679	0.675	0.671	0.663	0.655
43	7.17	0.68	0.679	0.675	0.671	0.663	0.655
44	7.33	0.68	0.679	0.675	0.671	0.663	0.655
45	7.50	0.68	0.679	0.675	0.671	0.663	0.655
46	7.67	0.68	0.679	0.675	0.671	0.663	0.655
47	7.83	0.68	0.679	0.675	0.671	0.663	0.655
48	8.00	0.68	0.679	0.675	0.671	0.663	0.655
49	8.17	0.68	0.679	0.675	0.671	0.663	0.655
50	8.33	0.68	0.679	0.675	0.671	0.663	0.655
51	8.50	0.68	0.679	0.675	0.671	0.663	0.655
52	8.67	0.68	0.679	0.675	0.671	0.663	0.655
53	8.83	0.68	0.679	0.675	0.671	0.663	0.655
54	9.00	0.68	0.679	0.675	0.671	0.663	0.655

Table F-3. Estimated Mercury Concentrations (mg/kg) - SWMU 33b
Deseret Chemical Depot, Tooele, Utah

Cell	Depth (ft)	Initial	YEAR 1	5	10	20	30
55	9.17	0.68	0.6792	0.6751	0.6711	0.663	0.6551
56	9.33	0.68	0.6792	0.6751	0.6711	0.663	0.6551
57	9.50	0.68	0.6792	0.6751	0.6711	0.663	0.6551
58	9.67	0.68	0.6792	0.6751	0.6711	0.663	0.6551
59	9.83	0.68	0.6792	0.6751	0.6711	0.663	0.6551
60	10.00	0.68	0.6792	0.6751	0.6711	0.663	0.6551
61	10.17	0	3.50E-11	1.68E-05	4.31E-05	9.74E-05	2.30E-04
62	10.33	0	0	2.31E-10	1.43E-09	7.24E-09	4.06E-08
63	10.50	0	0	2.30E-15	3.25E-14	3.64E-13	4.81E-12
64	10.67	0	0	0	4.08E-19	1.37E-17	4.29E-16
65	10.83	0	0	0	0	0	0
66	11.00	0	0	0	0	0	0
67	11.17	0	0	0	0	0	0
68	11.33	0	0	0	0	0	0
69	11.50	0	0	0	0	0	0
70	11.67	0	0	0	0	0	0
71	11.83	0	0	0	0	0	0
72	12.00	0	0	0	0	0	0
73	12.17	0	0	0	0	0	0
74	12.33	0	0	0	0	0	0
75	12.50	0	0	0	0	0	0
76	12.67	0	0	0	0	0	0
77	12.83	0	0	0	0	0	0
78	13.00	0	0	0	0	0	0
79	13.17	0	0	0	0	0	0
80	13.33	0	0	0	0	0	0
81	13.50	0	0	0	0	0	0
82	13.67	0	0	0	0	0	0
83	13.83	0	0	0	0	0	0
84	14.00	0	0	0	0	0	0
85	14.17	0	0	0	0	0	0
86	14.33	0	0	0	0	0	0
87	14.50	0	0	0	0	0	0
88	14.67	0	0	0	0	0	0
89	14.83	0	0	0	0	0	0
90	15.00	0	0	0	0	0	0
91	15.17	0	0	0	0	0	0
92	15.33	0	0	0	0	0	0
93	15.50	0	0	0	0	0	0
94	15.67	0	0	0	0	0	0
95	15.83	0	0	0	0	0	0
96	16.00	0	0	0	0	0	0
97	16.17	0	0	0	0	0	0
98	16.33	0	0	0	0	0	0
99	16.50	0	0	0	0	0	0
100	16.67	0	0	0	0	0	0
101	16.83	0	0	0	0	0	0
102	17.00	0	0	0	0	0	0
103	17.17	0	0	0	0	0	0
104	17.33	0	0	0	0	0	0
105	17.50	0	0	0	0	0	0
106	17.67	0	0	0	0	0	0
107	17.83	0	0	0	0	0	0
108	18.00	0	0	0	0	0	0

Table F-3. Estimated Mercury Concentrations (mg/kg) - SWMU 33b
Deseret Chemical Depot, Tooele, Utah

Cell	Depth (ft)	YEAR					
		Initial	1	5	10	20	30
109	18.17	0	0	0	0	0	0
110	18.33	0	0	0	0	0	0
111	18.50	0	0	0	0	0	0
112	18.67	0	0	0	0	0	0
113	18.83	0	0	0	0	0	0
114	19.00	0	0	0	0	0	0
115	19.17	0	0	0	0	0	0
116	19.33	0	0	0	0	0	0
117	19.50	0	0	0	0	0	0
118	19.67	0	0	0	0	0	0
119	19.83	0	0	0	0	0	0
120	20.00	0	0	0	0	0	0