Table C.3 Model output mass.

Remaining ICDF Contaminant Mass (kg)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	12
INORGANICS													
Aluminum	4.1405E+06	4.1405E+06	4.1405E+06	4.1405E+06	4.1405E+06	4.1405E+06	4.1405E+06	4.1404E+06	4.1404E+06	4.1404E+06	4.1404E+06	4.1404E+06	4.1404E+06
Antimony	3.4107E+03	3.4107E+03	3.4106E+03	3.4105E+03	3.4105E+03	3.4104E+03	3.4104E+03	3.4103E+03	3.4102E+03	3.4102E+03	3.4101E+03	3.4100E+03	3.4100E+03
Arsenic	3.3066E+03	3.3056E+03	3.3046E+03	3.3036E+03	3.3026E+03	3.3016E+03	3.3006E+03	3.2996E+03	3.2986E+03	3.2976E+03	3.2966E+03	3.2956E+03	3.2946E+03
Barium	1.0499E+05	1.0498E+05	1.0498E+05	1.0498E+05	1.0498E+05	1.0498E+05	1.0498E+05	1.0497E+05	1.0497E+05	1.0497E+05	1.0497E+05	1.0497E+05	1.0496E+05
Beryllium	1.6811E+02	1.6811E+02	1.6811E+02	1.6811E+02	1.6811E+02	1.6811E+02	1.6811E+02	1.6811E+02	1.6811E+02	1.6811E+02	1.6810E+02	1.6810E+02	1.6810E+02
Boron	1.0797E+05	1.0795E+05	1.0793E+05	1.0791E+05	1.0789E+05	1.0787E+05	1.0785E+05	1.0783E+05	1.0781E+05	1.0779E+05	1.0777E+05	1.0775E+05	1.0773E+05
Cadmium	2.0978E+03	2.0974E+03	2.0971E+03	2.0968E+03	2.0965E+03	2.0962E+03	2.0958E+03	2.0955E+03	2.0952E+03	2.0949E+03	2.0946E+03	2.0943E+03	2.0939E+03
Calcium	1.1945E+07	1.1943E+07	1.1940E+07	1.1938E+07	1.1936E+07	1.1934E+07	1.1932E+07	1.1930E+07	1.1927E+07	1.1925E+07	1.1923E+07	1.1921E+07	1.1919E+07
Chloride	1.0919E+03	1.0751E+03	1.0585E+03	1.0423E+03	1.0262E+03	1.0104E+03	9.9489E+02	9.7958E+02	9.6451E+02	9.4967E+02	9.3506E+02	9.2067E+02	9.0650E+02
Chromium	2.4078E+04	2.4077E+04	2.4076E+04	2.4075E+04	2.4075E+04	2.4074E+04	2.4073E+04	2.4073E+04	2.4072E+04	2.4071E+04	2.4070E+04	2.4070E+04	2.4069E+04
Cobalt	3.5308E+03	3.5305E+03	3.5302E+03	3.5298E+03	3.5295E+03	3.5292E+03	3.5289E+03	3.5285E+03	3.5282E+03	3.5279E+03	3.5276E+03	3.5272E+03	3.5269E+03
Copper	1.7493E+04	1.7493E+04	1.7492E+04	1.7491E+04	1.7490E+04	1.7489E+04	1.7489E+04	1.7488E+04	1.7487E+04	1.7486E+04	1.7485E+04	1.7485E+04	1.7484E+04
Cyanide	1.9697E+02	1.9476E+02	1.9257E+02	1.9041E+02	1.8828E+02	1.8616E+02	1.8407E+02	1.8201E+02	1.7997E+02	1.7795E+02	1.7595E+02	1.7397E+02	1.7202E+02
Dysprosium	3.4715E+04	3.4715E+04	3.4715E+04	3.4715E+04	3.4715E+04	3.4715E+04	3.4715E+04	3.4714E+04	3.4714E+04	3.4714E+04	3.4714E+04	3.4714E+04	3.4714E+04
Fluoride	2.2618E+03	2.2270E+03	2.1927E+03	2.1590E+03	2.1258E+03	2.0930E+03	2.0608E+03	2.0291E+03	1.9979E+03	1.9672E+03	1.9369E+03	1.9071E+03	1.8778E+03
Iron	5.9933E+06	5.9933E+06	5.9933E+06	5.9933E+06	5.9932E+06	5.9932E+06	5.9932E+06	5.9932E+06	5.9931E+06	5.9931E+06	5.9931E+06	5.9931E+06	5.9930E+06
Lead	3.3679E+04	3.3679E+04	3.3678E+04	3.3678E+04	3.3678E+04	3.3677E+04	3.3677E+04	3.3677E+04	3.3676E+04	3.3676E+04	3.3676E+04	3.3676E+04	3.3675E+04
Magnesium	2.6168E+06	2.6164E+06	2.6159E+06	2.6154E+06	2.6149E+06	2.6145E+06	2.6140E+06	2.6135E+06	2.6130E+06	2.6125E+06	2.6121E+06	2.6116E+06	2.6111E+06
Manganese	1.2096E+05	1.2095E+05	1.2095E+05	1.2095E+05	1.2095E+05	1.2094E+05	1.2094E+05	1.2094E+05	1.2094E+05	1.2094E+05	1.2093E+05	1.2093E+05	1.2093E+05
Mercury	5.5271E+03	5.5002E+03	5.4735E+03	5.4469E+03	5.4205E+03	5.3941E+03	5.3679E+03	5.3418E+03	5.3159E+03	5.2900E+03	5.2643E+03	5.2388E+03	5.2133E+03
Molybdenum	5.9543E+03	5.9538E+03	5.9532E+03	5.9527E+03	5.9521E+03	5.9516E+03	5.9510E+03	5.9505E+03	5.9499E+03	5.9494E+03	5.9488E+03	5.9483E+03	5.9477E+03
Nickel	1.1499E+04	1.1499E+04	1.1498E+04	1.1498E+04	1.1498E+04	1.1498E+04	1.1498E+04	1.1498E+04	1.1498E+04	1.1498E+04	1.1498E+04	1.1498E+04	1.1497E+04
Nitrate	2.2972E+03	2.2618E+03	2.2270E+03	2.1928E+03	2.1590E+03	2.1258E+03	2.0931E+03	2.0609E+03	2.0292E+03	1.9980E+03	1.9672E+03	1.9370E+03	1.9072E+03
Nitrate/Nitrite-N	1.2980E+02	1.2781E+02	1.2584E+02	1.2390E+02	1.2200E+02	1.2012E+02	1.1827E+02	1.1645E+02	1.1466E+02	1.1290E+02	1.1116E+02	1.0945E+02	1.0777E+02
Nitrite	4.9651E+00	4.8887E+00	4.8135E+00	4.7394E+00	4.6665E+00	4.5947E+00	4.5240E+00	4.4544E+00	4.3859E+00	4.3184E+00	4.2519E+00	4.1865E+00	4.1221E+00
Phosphorus	5.6983E+04	5.6973E+04	5.6962E+04	5.6952E+04	5.6941E+04	5.6931E+04	5.6921E+04	5.6910E+04	5.6900E+04	5.6889E+04	5.6879E+04	5.6869E+04	5.6858E+04
Potassium	6.5976E+05	6.5972E+05	6.5968E+05	6.5964E+05	6.5960E+05	6.5955E+05	6.5951E+05	6.5947E+05	6.5943E+05	6.5939E+05	6.5935E+05	6.5931E+05	6.5927E+05
Selenium	4.9489E+02	4.9478E+02	4.9467E+02	4.9455E+02	4.9444E+02	4.9433E+02	4.9422E+02	4.9410E+02	4.9399E+02	4.9388E+02	4.9377E+02	4.9366E+02	4.9354E+02
Silver	5.7549E+03	5.7549E+03	5.7548E+03	5.7548E+03	5.7547E+03	5.7547E+03	5.7546E+03	5.7545E+03	5.7545E+03	5.7544E+03	5.7544E+03	5.7543E+03	5.7542E+03
Sodium	1.2333E+05	1.2333E+05	1.2333E+05	1.2333E+05	1.2333E+05	1.2332E+05	1.2332E+05	1.2332E+05	1.2332E+05	1.2332E+05	1.2332E+05	1.2332E+05	1.2331E+05
Strontium	1.0650E+04	1.0649E+04	1.0648E+04	1.0647E+04	1.0646E+04	1.0646E+04	1.0645E+04	1.0644E+04	1.0643E+04	1.0642E+04	1.0642E+04	1.0641E+04	1.0640E+04
Sulfate	1.2009E+04	1.1824E+04	1.1642E+04	1.1463E+04	1.1287E+04	1.1113E+04	1.0942E+04	1.0774E+04	1.0608E+04	1.0445E+04	1.0284E+04	1.0126E+04	9.9701E+03
Sulfide	4.4376E+05	4.3693E+05	4.3020E+05	4.2359E+05	4.1707E+05	4.1065E+05	4.0433E+05	3.9811E+05	3.9199E+05	3.8595E+05	3.8002E+05	3.7417E+05	3.6841E+05
Terbium	3.3519E+05	3.3519E+05	3.3519E+05	3.3519E+05	3.3519E+05	3.3518E+05	3.3518E+05	3.3518E+05	3.3518E+05	3.3518E+05	3.3518E+05	3.3518E+05	3.3518E+05
Thallium	2.1662E+02	2.1662E+02	2.1662E+02	2.1662E+02	2.1662E+02	2.1661E+02	2.1661E+02	2.1661E+02	2.1661E+02	2.1661E+02	2.1660E+02	2.1660E+02	2.1660E+02
Vanadium	1.2431E+04	1.2429E+04	1.2427E+04	1.2425E+04	1.2423E+04	1.2422E+04	1.2420E+04	1.2418E+04	1.2416E+04	1.2414E+04	1.2412E+04	1.2410E+04	1.2408E+04
Ytterbium	1.1409E+05	1.1409E+05	1.1409E+05	1.1409E+05	1.1409E+05	1.1409E+05	1.1409E+05	1.1409E+05	1.1409E+05	1.1409E+05	1.1409E+05	1.1409E+05	1.1408E+05
Zinc	1.2166E+05	1.2165E+05	1.2165E+05	1.2164E+05	1.2163E+05	1.2163E+05	1.2162E+05	1.2161E+05	1.2160E+05	1.2160E+05	1.2159E+05	1.2158E+05	1.2158E+05
Zirconium	4.0398E+04	4.0398E+04	4.0398E+04	4.0398E+04	4.0398E+04	4.0398E+04	4.0398E+04	4.0398E+04	4.0398E+04	4.0398E+04	4.0398E+04	4.0398E+04	4.0398E+04
ORGANICS													
1,1,1-Trichloroethane	9.1755E+00	4.3725E+00	2.0837E+00	9.9297E-01	4.7319E-01	2.2550E-01	1.0746E-01	5.1209E-02	2.4403E-02	1.1629E-02	5.5418E-03	2.6409E-03	1.2585E-03
1,1,2,2-Tetrachloroethane	2.8939E-02	3.1589E-04	3.4482E-06	3.7640E-08	4.1087E-10	4.4850E-12	4.8957E-14	5.3441E-16	5.8335E-18	6.3678E-20	6.9510E-22	7.5876E-24	8.2825E-26
1,1,2-Trichloroethane	1.4162E-01	7.8572E-02	4.3593E-02	2.4186E-02	1.3418E-02	7.4447E-03	4.1304E-03	2.2916E-03	1.2714E-03	7.0539E-04	3.9136E-04	2.1713E-04	1.2047E-04
1,1-Dichloroethane	1.3690E+00	4.0397E-01	1.1920E-01	3.5175E-02	1.0380E-02	3.0628E-03	9.0379E-04	2.6669E-04	7.8697E-05	2.3222E-05	6.8524E-06	2.0220E-06	5.9667E-07
1,1-Dichloroethene	8.6545E-01	6.3844E-02	4.7097E-03	3.4743E-04	2.5629E-05	1.8907E-06	1.3947E-07	1.0289E-08	7.5898E-10	5.5989E-11	4.1303E-12	3.0469E-13	2.2476E-14
1,2,4-Trichlorobenzene	6.6559E+00	1.9991E+00	6.0042E-01	1.8034E-01	5.4164E-02	1.6268E-02	4.8861E-03	1.4675E-03	4.4077E-04	1.3238E-04	3.9762E-05	1.1942E-05	3.5869E-06
1,2-Dichlorobenzene	6.6559E+00	2.2471E-27	7.5865E-55	2.5613E-82	8.6473E-110	2.9194E-137	9.8564E-165	3.3276E-192	1.1234E-219	3.7929E-247	1.2805E-274	4.3232E-302	0.0000E+00

Table C.3 Model output mass.

Remaining ICDF Contaminant Mass (kg)	13	14	15	Mass Removed (%)
INORGANICS				
Aluminum	4.1403E+06	4.1403E+06	4.1403E+06	0.01%
Antimony	3.4099E+03	3.4099E+03	3.4098E+03	0.03%
Arsenic	3.2936E+03	3.2927E+03	3.2917E+03	0.45%
Barium	1.0496E+05	1.0496E+05	1.0496E+05	0.03%
Beryllium	1.6810E+02	1.6810E+02	1.6810E+02	0.01%
Boron	1.0771E+05	1.0769E+05	1.0767E+05	0.27%
Cadmium	2.0936E+03	2.0933E+03	2.0930E+03	0.23%
Calcium	1.1916E+07	1.1914E+07	1.1912E+07	0.27%
Chloride	8.9255E+02	8.7882E+02	8.6530E+02	20.75%
Chromium	2.4068E+04	2.4067E+04	2.4067E+04	0.05%
Cobalt	3.5266E+03	3.5263E+03	3.5260E+03	0.14%
Copper	1.7483E+04	1.7482E+04	1.7481E+04	0.07%
Cyanide	1.7009E+02	1.6818E+02	1.6629E+02	15.57%
Dysprosium	3.4714E+04	3.4713E+04	3.4713E+04	0.01%
Fluoride	1.8489E+03	1.8204E+03	1.7924E+03	20.75%
Iron	5.9930E+06	5.9930E+06	5.9930E+06	0.01%
Lead	3.3675E+04	3.3675E+04	3.3674E+04	0.01%
Magnesium	2.6106E+06	2.6102E+06	2.6097E+06	0.27%
Manganese	1.2093E+05	1.2092E+05	1.2092E+05	0.03%
Mercury	5.1880E+03	5.1628E+03	5.1377E+03	7.05%
Molybdenum	5.9472E+03	5.9467E+03	5.9461E+03	0.14%
Nickel	1.1497E+04	1.1497E+04	1.1497E+04	0.01%
ate	1.8778E+03	1.8489E+03	1.8205E+03	20.75%
rate/Nitrite-N	1.0611E+02	1.0447E+02	1.0287E+02	20.75%
Nitrite	4.0587E+00	3.9962E+00	3.9347E+00	20.75%
Phosphorus	5.6848E+04	5.6838E+04	5.6827E+04	0.27%
Potassium	6.5923E+05	6.5919E+05	6.5915E+05	0.09%
Selenium	4.9343E+02	4.9332E+02	4.9321E+02	0.34%
Silver	5.7542E+03	5.7541E+03	5.7541E+03	0.02%
Sodium	1.2331E+05	1.2331E+05	1.2331E+05	0.02%
Strontium	1.0639E+04	1.0638E+04	1.0637E+04	0.11%
Sulfate	9.8167E+03	9.6656E+03	9.5169E+03	20.75%
Sulfide	3.6274E+05	3.5716E+05	3.5167E+05	20.75%
Terbium	3.3517E+05	3.3517E+05	3.3517E+05	0.01%
Thallium	2.1660E+02	2.1660E+02	2.1659E+02	0.01%
Vanadium	1.2406E+04	1.2405E+04	1.2403E+04	0.23%
Ytterbium	1.1408E+05	1.1408E+05	1.1408E+05	0.01%
Zinc	1.2157E+05	1.2156E+05	1.2156E+05	0.09%
Zirconium	4.0398E+04	4.0398E+04	4.0398E+04	0.00%
ORGANICS				
1,1,1-Trichloroethane	5.9973E-04	2.8580E-04	1.3620E-04	100.00%
1,1,2,2-Tetrachloroethane	9.0410E-28	9.8690E-30	1.0773E-31	100.00%
1,1,2-Trichloroethane	6.6836E-05	3.7081E-05	2.0573E-05	99.99%
1,1-Dichloroethane	1.7607E-07	5.1955E-08	1.5331E-08	100.00%
1,1-Dichloroethene	1.6581E-15	1.2231E-16	9.0229E-18	100.00%
4-Trichlorobenzene	1.0773E-06	3.2357E-07	9.7184E-08	100.00%
-Dichlorobenzene	0.0000E+00	0.0000E+00	0.0000E+00	100.00%

Table C.3 Model output mass.

Remaining ICDF Contaminant Mass (kg)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	12
1,2-Dichloroethane	3.1471E-03	1.0455E-03	3.4731E-04	1.1538E-04	3.8330E-05	1.2733E-05	4.2301E-06	1.4053E-06	4.6683E-07	1.5508E-07	5.1520E-08	1.7115E-08	5.6857E-09
1,2-Dichloroethene (total)	1.8964E-01	1.0065E-01	5.3425E-02	2.8357E-02	1.5051E-02	7.9888E-03	4.2403E-03	2.2506E-03	1.1946E-03	6.3406E-04	3.3654E-04	1.7863E-04	9.4813E-05
1,3-Dichlorobenzene	6.6559E+00	1.9998E+00	6.0083E-01	1.8052E-01	5.4237E-02	1.6296E-02	4.8960E-03	1.4710E-03	4.4197E-04	1.3279E-04	3.9897E-05	1.1987E-05	3.6015E-06
1,4-Dichlorobenzene	2.6327E+02	7.8314E+01	2.3295E+01	6.9294E+00	2.0612E+00	6.1313E-01	1.8238E-01	5.4251E-02	1.6138E-02	4.8003E-03	1.4279E-03	4.2474E-04	1.2634E-04
1,4-Dioxane	1.0999E-02	3.2585E-03	9.6531E-04	2.8597E-04	8.4717E-05	2.5097E-05	7.4349E-06	2.2025E-06	6.5249E-07	1.9330E-07	5.7264E-08	1.6964E-08	5.0255E-09
2,4,5-Trichlorophenol	2.6093E+01	1.9879E+01	1.5144E+01	1.1538E+01	8.7898E+00	6.6964E+00	5.1016E+00	3.8866E+00	2.9610E+00	2.2558E+00	1.7186E+00	1.3093E+00	9.9745E-01
2,4,6-Trichlorophenol	1.0679E+01	8.0930E+00	6.1330E+00	4.6477E+00	3.5221E+00	2.6691E+00	2.0227E+00	1.5329E+00	1.1616E+00	8.8031E-01	6.6711E-01	5.0555E-01	3.8312E-01
2,4-Dichlorophenol	1.2635E+01	3.7482E-04	1.1119E-08	3.2983E-13	9.7841E-18	2.9024E-22	8.6097E-27	2.5540E-31	7.5763E-36	2.2474E-40	6.6669E-45	1.9777E-49	5.8666E-54
2,4-Dimethylphenol	1.0679E+01	1.9378E-13	3.5163E-27	6.3807E-41	1.1578E-54	2.1010E-68	3.8123E-82	6.9178E-96	1.2553E-109	2.2778E-123	4.1333E-137	7.5001E-151	1.3610E-164
2,4-Dinitrophenol	2.9796E+01	1.1410E+01	4.3691E+00	1.6731E+00	6.4066E-01	2.4532E-01	9.3941E-02	3.5972E-02	1.3775E-02	5.2747E-03	2.0198E-03	7.7344E-04	2.9617E-04
2,4-Dinitrotoluene	6.6559E+00	1.6699E+00	4.1899E-01	1.0512E-01	2.6375E-02	6.6174E-03	1.6603E-03	4.1657E-04	1.0452E-04	2.6223E-05	6.5792E-06	1.6507E-06	4.1416E-07
2,6-Dinitrotoluene	1.2099E+01	3.0083E+00	7.4795E-01	1.8596E-01	4.6237E-02	1.1496E-02	2.8583E-03	7.1066E-04	1.7669E-04	4.3931E-05	1.0923E-05	2.7157E-06	6.7522E-07
2-Butanone	1.4460E+01	2.6642E-13	4.9087E-27	9.0442E-41	1.6664E-54	3.0703E-68	5.6570E-82	1.0423E-95	1.9204E-109	3.5383E-123	6.5193E-137	1.2012E-150	2.2132E-164
2-Chloronaphthalene	6.6559E+00	1.6999E-01	4.3415E-03	1.1088E-04	2.8318E-06	7.2323E-08	1.8471E-09	4.7175E-11	1.2048E-12	3.0771E-14	7.8587E-16	2.0071E-17	5.1260E-19
2-Chlorophenol	1.0679E+01	4.6648E+00	2.0376E+00	8.9007E-01	3.8879E-01	1.6983E-01	7.4183E-02	3.2404E-02	1.4154E-02	6.1828E-03	2.7007E-03	1.1797E-03	5.1531E-04
2-Hexanone	1.5776E+00	1.5775E+00	1.5775E+00	1.5774E+00	1.5773E+00	1.5773E+00	1.5772E+00	1.5771E+00	1.5771E+00	1.5770E+00	1.5769E+00	1.5769E+00	1.5768E+00
2-Methylnaphthalene	2.9944E+02	2.9848E+02	2.9753E+02	2.9657E+02	2.9562E+02	2.9467E+02	2.9373E+02	2.9279E+02	2.9185E+02	2.9091E+02	2.8998E+02	2.8905E+02	2.8813E+02
2-Methylphenol	1.2072E+01	1.6966E-07	2.3843E-15	3.3508E-23	4.7090E-31	6.6179E-39	9.3005E-47	1.3070E-54	1.8369E-62	2.5815E-70	3.6279E-78	5.0985E-86	7.1652E-94
2-Nitroaniline	1.5916E+01	1.5823E+01	1.5730E+01	1.5638E+01	1.5546E+01	1.5455E+01	1.5365E+01	1.5274E+01	1.5185E+01	1.5096E+01	1.5007E+01	1.4919E+01	1.4832E+01
2-Nitrophenol	1.0679E+01	6.2537E-05	3.6622E-10	2.1445E-15	1.2558E-20	7.3541E-26	4.3065E-31	2.5219E-36	1.4768E-41	8.6481E-47	5.0643E-52	2.9656E-57	1.7366E-62
3,3'-Dichlorobenzidine	6.6559E+00	1.9419E+00	5.6655E-01	1.6529E-01	4.8225E-02	1.4070E-02	4.1049E-03	1.1976E-03	3.4941E-04	1.0194E-04	2.9742E-05	8.6773E-06	2.5316E-06
3-Methyl Butanal	1.3060E-01	1.2943E-01	1.2826E-01	1.2711E-01	1.2596E-01	1.2483E-01	1.2370E-01	1.2259E-01	1.2148E-01	1.2039E-01	1.1930E-01	1.1823E-01	1.1716E-01
3-Nitroaniline	1.5916E+01	1.5907E+01	1.5898E+01	1.5889E+01	1.5881E+01	1.5872E+01	1.5863E+01	1.5854E+01	1.5845E+01	1.5836E+01	1.5827E+01	1.5818E+01	1.5809E+01
4,6-Dinitro-2-methylphenol	2.6093E+01	5.4081E-02	1.1209E-04	2.3232E-07	4.8152E-10	9.9802E-13	2.0685E-15	4.2873E-18	8.8861E-21	1.8418E-23	3.8173E-26	7.9119E-29	1.6398E-31
4-Bromophenyl-phenylether	6.6559E+00	6.6227E+00	6.5896E+00	6.5567E+00	6.5240E+00	6.4915E+00	6.4591E+00	6.4268E+00	6.3948E+00	6.3629E+00	6.3311E+00	6.2995E+00	6.2681E+00
4-Chloro-3-methylphenol	1.0679E+01	1.0636E+01	1.0592E+01	1.0549E+01	1.0505E+01	1.0462E+01	1.0419E+01	1.0377E+01	1.0334E+01	1.0292E+01	1.0250E+01	1.0208E+01	1.0166E+01
4-Chloroaniline	2.3865E+01	2.3862E+01	2.3860E+01	2.3857E+01	2.3854E+01	2.3851E+01	2.3848E+01	2.3846E+01	2.3843E+01	2.3840E+01	2.3837E+01	2.3834E+01	2.3831E+01
4-Chlorophenyl-phenylether	6.6559E+00	6.6403E+00	6.6248E+00	6.6093E+00	6.5939E+00	6.5785E+00	6.5631E+00	6.5477E+00	6.5324E+00	6.5172E+00	6.5019E+00	6.4867E+00	6.4716E+00
4-Methyl-2-Pentanone	1.7336E+01	2.4499E-07	3.4620E-15	4.8923E-23	6.9135E-31	9.7698E-39	1.3806E-46	1.9510E-54	2.7570E-62	3.8960E-70	5.5056E-78	7.7802E-86	1.0995E-93
4-Methylphenol	2.2569E+01	3.1718E-07	4.4575E-15	6.2644E-23	8.8037E-31	1.2372E-38	1.7388E-46	2.4436E-54	3.4341E-62	4.8261E-70	6.7825E-78	9.5318E-86	1.3396E-93
4-Nitroaniline	1.5916E+01	1.5823E+01	1.5730E+01	1.5638E+01	1.5546E+01	1.5455E+01	1.5365E+01	1.5274E+01	1.5185E+01	1.5096E+01	1.5007E+01	1.4919E+01	1.4832E+01
4-Nitrophenol	3.0161E+01	1.0773E-18	3.8482E-38	1.3746E-57	4.9099E-77	1.7538E-96	6.2645E-116	2.2376E-135	7.9928E-155	2.8550E-174	1.0198E-193	3.6427E-213	1.3011E-232
Acenaphthene	1.1832E+02	1.2982E+01	1.4245E+00	1.5630E-01	1.7150E-02	1.8818E-03	2.0648E-04	2.2656E-05	2.4859E-06	2.7277E-07	2.9929E-08	3.2840E-09	3.6034E-10
Acenaphthylene	1.2099E+01	1.0098E+00	8.4273E-02	7.0332E-03	5.8697E-04	4.8987E-05	4.0883E-06	3.4120E-07	2.8476E-08	2.3765E-09	1.9834E-10	1.6553E-11	1.3814E-12
Acetone	3.6300E+02	6.6274E-12	1.2100E-25	2.2091E-39	4.0333E-53	7.3637E-67	1.3444E-80	2.4545E-94	4.4813E-108	8.1817E-122	1.4938E-135	2.7272E-149	4.9792E-163
Acetonitrile	1.0999E-02	2.8199E-03	7.2293E-04	1.8534E-04	4.7514E-05	1.2181E-05	3.1229E-06	8.0061E-07	2.0525E-07	5.2620E-08	1.3490E-08	3.4585E-09	8.8664E-10
Acrolein	5.2997E-03	3.7882E-06	2.7078E-09	1.9355E-12	1.3835E-15	9.8895E-19	7.0690E-22	5.0529E-25	3.6118E-28	2.5817E-31	1.8454E-34	1.3191E-37	9.4291E-41
Acrylonitrile	5.2997E-03	1.5605E-07	4.5952E-12	1.3531E-16	3.9844E-21	1.1732E-25	3.4547E-30	1.0173E-34	2.9955E-39	8.8206E-44	2.5973E-48	7.6481E-53	2.2521E-57
Anthracene	1.8737E+02	1.1367E+02	6.8960E+01	4.1836E+01	2.5380E+01	1.5397E+01	9.3411E+00	5.6669E+00	3.4379E+00	2.0857E+00	1.2653E+00	7.6763E-01	4.6570E-01
Aramite	6.6996E-02	6.6995E-02	6.6994E-02	6.6993E-02	6.6993E-02	6.6992E-02	6.6991E-02	6.6990E-02	6.6990E-02	6.6989E-02	6.6988E-02	6.6987E-02	6.6987E-02
Aroclor-1016	4.4967E+00	8.0725E-26	1.4492E-51	2.6015E-77	4.6702E-103	8.3839E-129	1.5051E-154	2.7019E-180	4.8503E-206	8.7073E-232	1.5631E-257	2.8061E-283	0.0000E+00
Aroclor-1254	7.5100E+01	2.2753E-22	6.8936E-46	2.0886E-69	6.3277E-93	1.9171E-116	5.8083E-140	1.7598E-163	5.3316E-187	1.6153E-210	4.8939E-234	1.4827E-257	4.4922E-281
Aroclor-1260	4.2160E+02	7.2031E-06	1.2307E-13	2.1026E-21	3.5924E-29	6.1378E-37	1.0487E-44	1.7917E-52	3.0611E-60	5.2300E-68	8.9357E-76	1.5267E-83	2.6084E-91
Aroclor-1268	3.6370E+01	1.0181E-01	2.8497E-04	7.9768E-07	2.2328E-09	6.2501E-12	1.7495E-14	4.8972E-17	1.3708E-19	3.8371E-22	1.0741E-24	3.0065E-27	8.4158E-30
Benzene	3.5296E+02	1.7611E+02	8.7875E+01	4.3847E+01	2.1878E+01	1.0917E+01	5.4470E+00	2.7179E+00	1.3561E+00	6.7667E-01	3.3763E-01	1.6847E-01	8.4060E-02
Benzidine	1.6999E-01	1.7491E-12	1.7998E-23	1.8520E-34	1.9056E-45	1.9608E-56	2.0177E-67	2.0761E-78	2.1363E-89	2.1982E-100	2.2619E-111	2.3274E-122	2.3948E-133
Benzo(a)anthracene	1.4803E+02	1.0715E+02	7.7553E+01	5.6133E+01	4.0630E+01	2.9408E+01	2.1286E+01	1.5407E+01	1.1152E+01	8.0716E+00	5.8423E+00	4.2287E+00	3.0608E+00
Benzo(a)pyrene	6.1336E+01	3.9838E+01	2.5875E+01	1.6806E+01	1.0915E+01	7.0894E+00	4.6046E+00	2.9907E+00	1.9424E+00	1.2616E+00	8.1941E-01	5.3220E-01	3.4567E-01
Benzo(b)fluoranthene	1.0499E+02	8.0867E+01	6.2286E+01	4.7974E+01	3.6951E+01	2.8460E+01	2.1921E+01	1.6884E+01	1.3004E+01	1.0016E+01	7.7149E+00	5.9422E+00	4.5768E+00

Table C.3 Model output mass.

Remaining ICDF Contaminant Mass (kg)	13	14	15	Mass Removed (%)
1,2-Dichloroethane	1.8888E-09	6.2748E-10	2.0845E-10	100.00%
1,2-Dichloroethene (total)	5.0324E-05	2.6711E-05	1.4178E-05	99.99%
1,3-Dichlorobenzene	1.0821E-06	3.2511E-07	9.7680E-08	100.00%
1,4-Dichlorobenzene	3.7582E-05	1.1179E-05	3.3254E-06	100.00%
1,4-Dioxane	1.4888E-09	4.4105E-10	1.3066E-10	100.00%
2,4,5-Trichlorophenol	7.5990E-01	5.7892E-01	4.4104E-01	98.31%
2,4,6-Trichlorophenol	2.9033E-01	2.2002E-01	1.6674E-01	98.44%
2,4-Dichlorophenol	1.7403E-58	5.1625E-63	1.5314E-67	100.00%
2,4-Dimethylphenol	2.4696E-178	4.4812E-192	8.1315E-206	100.00%
2,4-Dinitrophenol	1.1341E-04	4.3428E-05	1.6630E-05	100.00%
2,4-Dinitrotoluene	1.0391E-07	2.6071E-08	6.5412E-09	100.00%
2,6-Dinitrotoluene	1.6788E-07	4.1741E-08	1.0378E-08	100.00%
2-Butanone	4.0777E-178	7.5131E-192	1.3843E-205	100.00%
2-Chloronaphthalene	1.3092E-20	3.3436E-22	8.5394E-24	100.00%
2-Chlorophenol	2.2509E-04	9.8323E-05	4.2949E-05	100.00%
2-Hexanone	1.5767E+00	1.5767E+00	1.5766E+00	0.06%
2-Methylnaphthalene	2.8720E+02	2.8628E+02	2.8536E+02	4.70%
2-Methylphenol	1.0070E-101	1.4151E-109	1.9888E-117	100.00%
2-Nitroaniline	1.4745E+01	1.4659E+01	1.4573E+01	8.44%
2-Nitrophenol	1.0170E-67	5.9553E-73	3.4874E-78	100.00%
3,3'-Dichlorobenzidine	7.3861E-07	2.1549E-07	6.2870E-08	100.00%
3-Methyl Butanal	1.1611E-01	1.1506E-01	1.1402E-01	12.70%
3-Nitroaniline	1.5800E+01	1.5792E+01	1.5783E+01	0.84%
Dinitro-2-methylphenol	3.3988E-34	7.0445E-37	1.4601E-39	100.00%
romophenyl-phenylether	6.2368E+00	6.2057E+00	6.1747E+00	7.23%
4-Chloro-3-methylphenol	1.0124E+01	1.0083E+01	1.0041E+01	5.97%
4-Chloroaniline	2.3829E+01	2.3826E+01	2.3823E+01	0.18%
4-Chlorophenyl-phenylether	6.4565E+00	6.4414E+00	6.4263E+00	3.45%
4-Methyl-2-Pentanone	1.5537E-101	2.1956E-109	3.1026E-117	100.00%
4-Methylphenol	1.8826E-101	2.6457E-109	3.7181E-117	100.00%
4-Nitroaniline	1.4745E+01	1.4659E+01	1.4573E+01	8.44%
4-Nitrophenol	4.6476E-252	1.6601E-271	5.9299E-291	100.00%
Acenaphthene	3.9538E-11	4.3383E-12	4.7602E-13	100.00%
Acenaphthylene	1.1529E-13	9.6218E-15	8.0301E-16	100.00%
Acetone	9.0906E-177	1.6597E-190	3.0302E-204	100.00%
Acetonitrile	2.2731E-10	5.8275E-11	1.4940E-11	100.00%
Acrolein	6.7399E-44	4.8177E-47	3.4437E-50	100.00%
Acrylonitrile	6.6314E-62	1.9527E-66	5.7499E-71	100.00%
Anthracene	2.8252E-01	1.7140E-01	1.0398E-01	99.94%
Aramite	6.6986E-02	6.6985E-02	6.6984E-02	0.02%
Aroclor-1016	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Aroclor-1254	1.3610E-304	0.0000E+00	0.0000E+00	100.00%
Aroclor-1260	4.4565E-99	7.6141E-107	1.3009E-114	100.00%
Aroclor-1268	2.3557E-32	6.5941E-35	1.8458E-37	100.00%
Benzene	4.1943E-02	2.0928E-02	1.0443E-02	100.00%
Benzidine	2.4642E-144	2.5356E-155	2.6091E-166	100.00%
Benzo(a)anthracene	2.2154E+00	1.6035E+00	1.1607E+00	99.22%
nzo(a)pyrene	2.2451E-01	1.4582E-01	9.4709E-02	99.85%
zo(b)fluoranthene	3.5252E+00	2.7152E+00	2.0913E+00	98.01%

Table C.3 Model output mass.

Remaining ICDF Contaminant Mass (kg)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	[illegible]
Benzo(g,h,i)perylene	6.6559E+00	5.4283E+00	4.4272E+00	3.6107E+00	2.9448E+00	2.4017E+00	1.9587E+00	1.5975E+00	1.3029E+00	1.0626E+00	8.6661E-01	7.0678E-01	5.7643E-01
Benzo(k)fluoranthene	1.0880E+01	9.8630E+00	8.9410E+00	8.1053E+00	7.3476E+00	6.6608E+00	6.0382E+00	5.4738E+00	4.9621E+00	4.4983E+00	4.0778E+00	3.6966E+00	3.3511E+00
Benzoic acid	5.0064E+00	9.9422E-16	1.9744E-31	3.9210E-47	7.7867E-63	1.5464E-78	3.0710E-94	6.0986E-110	1.2111E-125	2.4052E-141	4.7765E-157	9.4856E-173	1.8838E-188
bis(2-Chloroethoxy)methane	6.6559E+00	6.6313E+00	6.6068E+00	6.5824E+00	6.5581E+00	6.5339E+00	6.5098E+00	6.4857E+00	6.4618E+00	6.4379E+00	6.4141E+00	6.3905E+00	6.3669E+00
bis(2-Chloroethyl)ether	6.6559E+00	1.9922E+00	5.9631E-01	1.7849E-01	5.3424E-02	1.5991E-02	4.7863E-03	1.4326E-03	4.2882E-04	1.2835E-04	3.8418E-05	1.1499E-05	3.4419E-06
bis(2-Chloroisopropyl)ether	6.6559E+00	1.8547E+00	5.1683E-01	1.4402E-01	4.0132E-02	1.1183E-02	3.1162E-03	8.6836E-04	2.4198E-04	6.7429E-05	1.8789E-05	5.2358E-06	1.4590E-06
bis(2-Ethylhexyl)phthalate	8.6079E+01	2.4131E+01	6.7649E+00	1.8965E+00	5.3166E-01	1.4904E-01	4.1783E-02	1.1713E-02	3.2837E-03	9.2055E-04	2.5807E-04	7.2346E-05	2.0281E-05
Butane,1,1,3,4-Tetrachloro-	4.6151E+00	5.0566E-02	5.5403E-04	6.0703E-06	6.6510E-08	7.2872E-10	7.9844E-12	8.7482E-14	9.5850E-16	1.0502E-17	1.1507E-19	1.2607E-21	1.3813E-23
Butylbenzylphthalate	3.9728E+01	2.4639E+00	1.5281E-01	9.4771E-03	5.8776E-04	3.6452E-05	2.2607E-06	1.4021E-07	8.6956E-09	5.3930E-10	3.3447E-11	2.0743E-12	1.2865E-13
Carbazole	1.8923E+01	1.8823E+01	1.8723E+01	1.8624E+01	1.8526E+01	1.8427E+01	1.8330E+01	1.8233E+01	1.8136E+01	1.8040E+01	1.7944E+01	1.7849E+01	1.7755E+01
Carbon Disulfide	2.6636E+01	1.4934E-72	8.3734E-146	4.6949E-219	2.6324E-292	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Chlorobenzene	3.8442E+00	1.1930E+00	3.7020E-01	1.1488E-01	3.5651E-02	1.1064E-02	3.4333E-03	1.0654E-03	3.3063E-04	1.0260E-04	3.1841E-05	9.8810E-06	3.0663E-06
Chloroethane	1.7648E-03	2.3277E-71	3.0702E-139	4.0495E-207	5.3412E-275	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Chloromethane	2.0637E-01	2.0637E-01	2.0637E-01	2.0637E-01	2.0637E-01	2.0637E-01	2.0637E-01	2.0637E-01	2.0637E-01	2.0637E-01	2.0637E-01	2.0637E-01	2.0637E-01
Chrysene	1.5515E+02	1.2704E+02	1.0403E+02	8.5185E+01	6.9754E+01	5.7118E+01	4.6771E+01	3.8298E+01	3.1361E+01	2.5680E+01	2.1028E+01	1.7219E+01	1.4100E+01
Decane, 3,4-Dimethyl	9.4413E-02	9.4192E-02	9.3972E-02	9.3753E-02	9.3534E-02	9.3315E-02	9.3097E-02	9.2879E-02	9.2662E-02	9.2446E-02	9.2230E-02	9.2014E-02	9.1799E-02
Diacetone alcohol	2.5276E+03	3.5845E-05	5.0834E-13	7.2089E-21	1.0223E-28	1.4498E-36	2.0560E-44	2.9157E-52	4.1348E-60	5.8638E-68	8.3156E-76	1.1793E-83	1.6724E-91
Dibenz(a,h)anthracene	6.6559E+00	5.4795E+00	4.5111E+00	3.7138E+00	3.0575E+00	2.5171E+00	2.0722E+00	1.7060E+00	1.4045E+00	1.1563E+00	9.5191E-01	7.8367E-01	6.4517E-01
Dibenzofuran	1.8965E+02	1.6078E-03	1.3631E-08	1.1556E-13	9.7971E-19	8.3059E-24	7.0416E-29	5.9698E-34	5.0612E-39	4.2908E-44	3.6377E-49	3.0840E-54	2.6146E-59
Diethylphthalate	6.6591E+00	9.0028E-02	1.2171E-03	1.6455E-05	2.2246E-07	3.0076E-09	4.0662E-11	5.4973E-13	7.4320E-15	1.0048E-16	1.3584E-18	1.8365E-20	2.4829E-22
Dimethyl Disulfide	1.7309E+00	1.7240E+00	1.7172E+00	1.7104E+00	1.7036E+00	1.6968E+00	1.6901E+00	1.6833E+00	1.6766E+00	1.6700E+00	1.6634E+00	1.6567E+00	1.6502E+00
Dimethylphthalate	6.6559E+00	1.2266E-13	2.2605E-27	4.1659E-41	7.6774E-55	1.4149E-68	2.6074E-82	4.8053E-96	8.8556E-110	1.6320E-123	3.0076E-137	5.5427E-151	1.0215E-164
Di-n-butylphthalate	1.3954E+01	3.4884E+00	8.7210E-01	2.1802E-01	5.4506E-02	1.3627E-02	3.4066E-03	8.5166E-04	2.1291E-04	5.3229E-05	1.3307E-05	3.3268E-06	8.3170E-07
Di-n-octylphthalate	1.5339E+01	3.9741E+00	1.0296E+00	2.6677E-01	6.9116E-02	1.7907E-02	4.6395E-03	1.2020E-03	3.1143E-04	8.0688E-05	2.0905E-05	5.4162E-06	1.4033E-0[illegible]
Eicosane	1.6567E+00	1.0610E-04	6.7951E-09	4.3519E-13	2.7871E-17	1.7850E-21	1.1432E-25	7.3214E-30	4.6889E-34	3.0030E-38	1.9232E-42	1.2317E-46	7.8883E-[illegible]
Ethyl cyanide	1.0999E-02	1.0981E-02	1.0964E-02	1.0946E-02	1.0928E-02	1.0910E-02	1.0893E-02	1.0875E-02	1.0858E-02	1.0840E-02	1.0822E-02	1.0805E-02	1.0787E-02
Ethylbenzene	4.5678E+01	5.2509E+00	6.0361E-01	6.9388E-02	7.9765E-03	9.1694E-04	1.0541E-04	1.2117E-05	1.3929E-06	1.6012E-07	1.8407E-08	2.1159E-09	2.4324E-10
Famphur	3.3998E-02	3.7671E-03	4.1741E-04	4.6251E-05	5.1247E-06	5.6784E-07	6.2919E-08	6.9717E-09	7.7249E-10	8.5595E-11	9.4843E-12	1.0509E-12	1.1644E-13
Fluoranthene	4.4606E+02	2.8922E+02	1.8753E+02	1.2160E+02	7.8844E+01	5.1123E+01	3.3148E+01	2.1493E+01	1.3936E+01	9.0363E+00	5.8592E+00	3.7991E+00	2.4633E+00
Fluorene	1.0739E+02	6.7598E+00	4.2550E-01	2.6783E-02	1.6858E-03	1.0612E-04	6.6795E-06	4.2044E-07	2.6465E-08	1.6658E-09	1.0486E-10	6.6001E-12	4.1545E-13
Heptadecane, 2,6,10,15-Tetra	2.0117E+00	2.0117E+00	2.0117E+00	2.0117E+00	2.0116E+00	2.0116E+00	2.0116E+00	2.0116E+00	2.0116E+00	2.0116E+00	2.0116E+00	2.0115E+00	2.0115E+00
Hexachlorobenzene	6.6559E+00	6.1256E+00	5.6376E+00	5.1885E+00	4.7752E+00	4.3947E+00	4.0446E+00	3.7224E+00	3.4259E+00	3.1529E+00	2.9018E+00	2.6706E+00	2.4578E+00
Hexachlorobutadiene	1.2099E+01	3.5852E+00	1.0623E+00	3.1478E-01	9.3273E-02	2.7638E-02	8.1895E-03	2.4266E-03	7.1904E-04	2.1306E-04	6.3133E-05	1.8707E-05	5.5431E-06
Hexachlorocyclopentadiene	6.6559E+00	2.2207E-03	7.4092E-07	2.4720E-10	8.2478E-14	2.7518E-17	9.1812E-21	3.0633E-24	1.0220E-27	3.4100E-31	1.1377E-34	3.7959E-38	1.2665E-41
Hexachloroethane	6.6559E+00	1.9722E+00	5.8439E-01	1.7316E-01	5.1311E-02	1.5204E-02	4.5051E-03	1.3349E-03	3.9556E-04	1.1721E-04	3.4730E-05	1.0291E-05	3.0494E-06
Indeno(1,2,3-cd)pyrene	6.6559E+00	5.4321E+00	4.4333E+00	3.6182E+00	2.9530E+00	2.4100E+00	1.9669E+00	1.6053E+00	1.3101E+00	1.0692E+00	8.7264E-01	7.1219E-01	5.8124E-01
Isobutyl alcohol	1.0999E-02	6.7710E-15	4.1682E-27	2.5659E-39	1.5795E-51	9.7233E-64	5.9856E-76	3.6846E-88	2.2682E-100	1.3963E-112	8.5954E-125	5.2912E-137	3.2572E-149
Isophorone	6.6583E+00	4.7595E-03	3.4022E-06	2.4319E-09	1.7384E-12	1.2426E-15	8.8827E-19	6.3495E-22	4.5388E-25	3.2444E-28	2.3192E-31	1.6578E-34	1.1850E-37
Isopropyl Alcohol/2-propanol	1.2413E+00	1.2184E-14	1.1959E-28	1.1738E-42	1.1521E-56	1.1309E-70	1.1100E-84	1.0895E-98	1.0694E-112	1.0496E-126	1.0303E-140	1.0112E-154	9.9258E-169
Kepone	5.8035E+01	4.5311E+01	3.5377E+01	2.7621E+01	2.1565E+01	1.6837E+01	1.3146E+01	1.0263E+01	8.0133E+00	6.2564E+00	4.8847E+00	3.8138E+00	2.9776E+00
Mesityl oxide	4.9582E+01	6.9324E-07	9.6925E-15	1.3551E-22	1.8947E-30	2.6491E-38	3.7038E-46	5.1785E-54	7.2403E-62	1.0123E-69	1.4153E-77	1.9789E-85	2.7667E-93
Methyl Acetate	2.8324E-01	2.8016E-01	2.7712E-01	2.7411E-01	2.7113E-01	2.6819E-01	2.6528E-01	2.6239E-01	2.5954E-01	2.5673E-01	2.5394E-01	2.5118E-01	2.4845E-01
Methylene Chloride	4.8918E+01	8.8345E-108	1.5955E-216	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Naphthalene	2.4872E+02	3.5110E+01	4.9562E+00	6.9964E-01	9.8764E-02	1.3942E-02	1.9681E-03	2.7782E-04	3.9218E-05	5.5362E-06	7.8151E-07	1.1032E-07	1.5573E-08
Nitrobenzene	6.6559E+00	1.8416E+00	5.0957E-01	1.4099E-01	3.9012E-02	1.0794E-02	2.9867E-03	8.2639E-04	2.2866E-04	6.3267E-05	1.7506E-05	4.8437E-06	1.3402E-06
N-Nitroso-di-n-propylamine	6.6559E+00	1.9193E+00	5.5348E-01	1.5960E-01	4.6025E-02	1.3272E-02	3.8273E-03	1.1037E-03	3.1826E-04	9.1776E-05	2.6465E-05	7.6317E-06	2.2007E-06
N-Nitrosodiphenylamine	6.6559E+00	2.0859E-02	6.5370E-05	2.0486E-07	6.4202E-10	2.0120E-12	6.3055E-15	1.9761E-17	6.1928E-20	1.9408E-22	6.0822E-25	1.9061E-27	5.9735E-30
Octane,2,3,7-Trimethyl	9.4413E-02	9.2960E-02	9.1530E-02	9.0122E-02	8.8735E-02	8.7370E-02	8.6025E-02	8.4702E-02	8.3399E-02	8.2115E-02	8.0852E-02	7.9608E-02	7.8383E-0[illegible]
o-Toluenesulfonamide	2.9584E+00	2.9566E+00	2.9548E+00	2.9531E+00	2.9513E+00	2.9495E+00	2.9478E+00	2.9460E+00	2.9442E+00	2.9425E+00	2.9407E+00	2.9389E+00	2.9372E+[illegible]

Table C.3 Model output mass.

Remaining ICDF Contaminant Mass (kg)	13	14	15	Mass Removed (%)
Benzo(g,h,i)perylene	4.7012E-01	3.8341E-01	3.1270E-01	95.30%
Benzo(k)fluoranthene	3.0379E+00	2.7539E+00	2.4965E+00	77.05%
Benzoic acid	3.7410E-204	7.4292E-220	1.4754E-235	100.00%
bis(2-Chloroethoxy)methane	6.3433E+00	6.3199E+00	6.2966E+00	5.40%
bis(2-Chloroethyl)ether	1.0302E-06	3.0837E-07	9.2300E-08	100.00%
bis(2-Chloroisopropyl)ether	4.0656E-07	1.1329E-07	3.1570E-08	100.00%
bis(2-Ethylhexyl)phthalate	5.6857E-06	1.5939E-06	4.4684E-07	100.00%
Butane,1,1,3,4-Tetrachloro-	1.5135E-25	1.6583E-27	1.8169E-29	100.00%
Butylbenzylphthalate	7.9786E-15	4.9483E-16	3.0689E-17	100.00%
Carbazole	1.7661E+01	1.7567E+01	1.7474E+01	7.66%
Carbon Disulfide	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Chlorobenzene	9.5156E-07	2.9529E-07	9.1638E-08	100.00%
Chloroethane	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Chloromethane	2.0637E-01	2.0637E-01	2.0637E-01	0.00%
Chrysene	1.1545E+01	9.4540E+00	7.7414E+00	95.01%
Decane, 3,4-Dimethyl	9.1584E-02	9.1370E-02	9.1157E-02	3.45%
Diacetone alcohol	2.3716E-99	3.3633E-107	4.7696E-115	100.00%
Dibenz(a,h)anthracene	5.3114E-01	4.3727E-01	3.5999E-01	94.59%
Dibenzofuran	2.2166E-64	1.8792E-69	1.5932E-74	100.00%
Diethylphthalate	3.3567E-24	4.5381E-26	6.1353E-28	100.00%
Dimethyl Disulfide	1.6436E+00	1.6371E+00	1.6306E+00	5.80%
Dimethylphthalate	1.8825E-178	3.4692E-192	6.3934E-206	100.00%
Di-n-butylphthalate	2.0792E-07	5.1981E-08	1.2995E-08	100.00%
Di-n-octylphthalate	3.6357E-07	9.4196E-08	2.4405E-08	100.00%
Eicosane	5.0520E-55	3.2355E-59	2.0722E-63	100.00%
Ethyl cyanide	1.0770E-02	1.0752E-02	1.0735E-02	2.40%
Ethylbenzene	2.7961E-11	3.2143E-12	3.6950E-13	100.00%
Famphur	1.2902E-14	1.4296E-15	1.5841E-16	100.00%
Fluoranthene	1.5972E+00	1.0357E+00	6.7152E-01	99.85%
Fluorene	2.6150E-14	1.6460E-15	1.0361E-16	100.00%
Heptadecane, 2,6,10,15-Tetra	2.0115E+00	2.0115E+00	2.0115E+00	0.01%
Hexachlorobenzene	2.2620E+00	2.0818E+00	1.9160E+00	71.21%
Hexachlorobutadiene	1.6425E-06	4.8669E-07	1.4421E-07	100.00%
Hexachlorocyclopentadiene	4.2255E-45	1.4098E-48	4.7037E-52	100.00%
Hexachloroethane	9.0356E-07	2.6774E-07	7.9334E-08	100.00%
Indeno(1,2,3-cd)pyrene	4.7438E-01	3.8715E-01	3.1597E-01	95.25%
Isobutyl alcohol	2.0051E-161	1.2343E-173	7.5983E-186	100.00%
Isophorone	8.4707E-41	6.0551E-44	4.3283E-47	100.00%
Isopropyl Alcohol/2-propanol	9.7426E-183	9.5627E-197	9.3862E-211	100.00%
Kepone	2.3248E+00	1.8151E+00	1.4171E+00	97.56%
Mesityl oxide	3.8683E-101	5.4085E-109	7.5618E-117	100.00%
Methyl Acetate	2.4575E-01	2.4308E-01	2.4044E-01	15.11%
Methylene Chloride	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Naphthalene	2.1984E-09	3.1033E-10	4.3808E-11	100.00%
Nitrobenzene	3.7082E-07	1.0260E-07	2.8390E-08	100.00%
N-Nitroso-di-n-propylamine	6.3462E-07	1.8301E-07	5.2773E-08	100.00%
N-Nitrosodiphenylamine	1.8720E-32	5.8668E-35	1.8386E-37	100.00%
Octane,2,3,7-Trimethyl	7.7177E-02	7.5990E-02	7.4820E-02	20.75%
o-Toluenesulfonamide	2.9354E+00	2.9336E+00	2.9319E+00	0.90%

Table C.3 Model output mass.

Remaining ICDF Contaminant Mass (kg)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	1[illegible]
Pentachlorophenol	3.2699E+01	2.3669E+01	1.7132E+01	1.2401E+01	8.9762E+00	6.4973E+00	4.7030E+00	3.4042E+00	2.4641E+00	1.7836E+00	1.2910E+00	9.3449E-01	6.7641E-01
Phenanthrene	6.8344E+02	2.1122E+02	6.5276E+01	2.0173E+01	6.2346E+00	1.9268E+00	5.9547E-01	1.8403E-01	5.6874E-02	1.7577E-02	5.4321E-03	1.6788E-03	5.1883E-04
Phenol	4.6674E+01	2.3342E-28	1.1673E-57	5.8379E-87	2.9195E-116	1.4601E-145	7.3018E-175	3.6516E-204	1.8262E-233	9.1328E-263	4.5673E-292	0.0000E+00	0.0000E+00
Phenol,2,6-Bis(1,1-Dimethyl)	2.3667E+00	4.2945E-14	7.7927E-28	1.4140E-41	2.5659E-55	4.6559E-69	8.4484E-83	1.5330E-96	2.7818E-110	5.0477E-124	9.1594E-138	1.6620E-151	3.0159E-165
p-Toluenesulfonamide	2.9584E+00	2.9584E+00	2.9584E+00	2.9583E+00	2.9583E+00	2.9583E+00	2.9583E+00	2.9583E+00	2.9583E+00	2.9583E+00	2.9583E+00	2.9583E+00	2.9583E+00
Pyrene	1.4817E+02	1.2985E+02	1.1380E+02	9.9735E+01	8.7407E+01	7.6603E+01	6.7134E+01	5.8835E+01	5.1563E+01	4.5189E+01	3.9603E+01	3.4708E+01	3.0418E+01
RDX	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Styrene	5.9996E-04	6.2983E-05	6.6118E-06	6.9409E-07	7.2864E-08	7.6491E-09	8.0298E-10	8.4295E-11	8.8491E-12	9.2896E-13	9.7520E-14	1.0237E-14	1.0747E-15
Tetrachloroethene	5.6376E+00	3.5208E+00	2.1988E+00	1.3732E+00	8.5760E-01	5.3559E-01	3.3449E-01	2.0889E-01	1.3046E-01	8.1474E-02	5.0882E-02	3.1777E-02	1.9845E-02
Toluene	5.7450E+02	2.9780E-04	1.5437E-10	8.0022E-17	4.1481E-23	2.1503E-29	1.1146E-35	5.7779E-42	2.9951E-48	1.5526E-54	8.0481E-61	4.1719E-67	2.1626E-73
Tributylphosphate	2.1268E+02	1.1664E+02	6.3972E+01	3.5085E+01	1.9242E+01	1.0553E+01	5.7879E+00	3.1744E+00	1.7410E+00	9.5482E-01	5.2367E-01	2.8720E-01	1.5752E-01
Trichloroethene	4.2145E+01	3.2133E+01	2.4500E+01	1.8680E+01	1.4243E+01	1.0860E+01	8.2800E+00	6.3131E+00	4.8134E+00	3.6700E+00	2.7982E+00	2.1335E+00	1.6267E+00
Trinitrotoluene	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Undecane,4,6-Dimethyl-	9.4413E-02	9.4255E-02	9.4096E-02	9.3938E-02	9.3781E-02	9.3623E-02	9.3466E-02	9.3309E-02	9.3153E-02	9.2996E-02	9.2840E-02	9.2684E-02	9.2529E-02
Xylene (ortho)	2.2716E+00	5.8617E-01	1.5126E-01	3.9032E-02	1.0072E-02	2.5991E-03	6.7068E-04	1.7307E-04	4.4659E-05	1.1524E-05	2.9738E-06	7.6737E-07	1.9802E-07
Xylene (total)	2.0209E+03	5.2148E+02	1.3457E+02	3.4724E+01	8.9605E+00	2.3122E+00	5.9666E-01	1.5397E-01	3.9731E-02	1.0252E-02	2.6456E-03	6.8269E-04	1.7617E-04
RADIONUCLIDES													
Ac225	5.1626E-16	5.3121E-27	5.4661E-38	5.6244E-49	5.7874E-60	5.9551E-71	6.1276E-82	6.3051E-93	6.4878E-104	6.6758E-115	6.8692E-126	7.0683E-137	7.2730E-148
Ac227	1.6541E-10	1.6023E-10	1.5522E-10	1.5036E-10	1.4566E-10	1.4110E-10	1.3668E-10	1.3240E-10	1.2826E-10	1.2424E-10	1.2036E-10	1.1659E-10	1.1294E-10
Ac228	3.9732E-20	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ag106	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ag108	2.9392E-21	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0[illegible]
Ag108m	1.7916E-05	1.7818E-05	1.7721E-05	1.7624E-05	1.7528E-05	1.7432E-05	1.7337E-05	1.7243E-05	1.7149E-05	1.7055E-05	1.6962E-05	1.6870E-05	1.6778E-0[illegible]
Ag109m	1.0995E-24	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ag110	7.2574E-24	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ag110m	6.8263E-16	2.4813E-16	9.0192E-17	3.2784E-17	1.1917E-17	4.3315E-18	1.5745E-18	5.7230E-19	2.0803E-19	7.5615E-20	2.7485E-20	9.9906E-21	3.6315E-21
Ag111	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Am241	4.0582E-03	4.0517E-03	4.0451E-03	4.0386E-03	4.0322E-03	4.0257E-03	4.0192E-03	4.0128E-03	4.0063E-03	3.9999E-03	3.9935E-03	3.9871E-03	3.9807E-03
Am242	3.2763E-14	5.0288E-179	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Am242m	2.7184E-09	2.7060E-09	2.6937E-09	2.6814E-09	2.6692E-09	2.6571E-09	2.6450E-09	2.6329E-09	2.6210E-09	2.6090E-09	2.5971E-09	2.5853E-09	2.5736E-09
Am243	9.7970E-07	9.7960E-07	9.7951E-07	9.7941E-07	9.7932E-07	9.7922E-07	9.7913E-07	9.7903E-07	9.7894E-07	9.7885E-07	9.7875E-07	9.7866E-07	9.7856E-07
Am245	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Am246	4.1269E-36	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
At217	1.8612E-23	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ba136m	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ba137m	2.5103E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ba140	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Be 10	2.8424E-08	2.8424E-08	2.8424E-08	2.8424E-08	2.8423E-08	2.8423E-08	2.8423E-08	2.8423E-08	2.8423E-08	2.8423E-08	2.8423E-08	2.8423E-08	2.8422E-08
Bi210	5.1475E-15	6.0293E-37	7.0622E-59	8.2719E-81	9.6889E-103	1.1349E-124	1.3293E-146	1.5570E-168	1.8237E-190	2.1361E-212	2.5020E-234	2.9306E-256	3.4326E-278
Bi211	2.5719E-17	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Bi212	2.2098E-14	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Bi213	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Bi214	7.4453E-17	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Bk249	7.7028E-28	3.4937E-28	1.5846E-28	7.1872E-29	3.2598E-29	1.4785E-29	6.7061E-30	3.0417E-30	1.3796E-30	6.2573E-31	2.8381E-31	1.2872E-31	5.8384E-32
Bk250	1.1649E-35	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
C 14	6.0490E-09	6.0472E-09	6.0453E-09	6.0435E-09	6.0417E-09	6.0398E-09	6.0380E-09	6.0362E-09	6.0343E-09	6.0325E-09	6.0307E-09	6.0289E-09	6.0270E-0[illegible]
Cd109	1.1131E-18	6.4513E-19	3.7392E-19	2.1673E-19	1.2562E-19	7.2807E-20	4.2200E-20	2.4459E-20	1.4177E-20	8.2168E-21	4.7625E-21	2.7604E-21	1.5999E-[illegible]

Table C.3 Model output mass.

Remaining ICDF Contaminant Mass (kg)	13	14	15	Mass Removed (%)
Pentachlorophenol	4.8961E-01	3.5440E-01	2.5653E-01	99.22%
Phenanthrene	1.6034E-04	4.9554E-05	1.5315E-05	100.00%
Phenol	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Phenol,2,6-Bis(1,1-Dimethyl)	5.4725E-179	9.9301E-193	1.8019E-206	100.00%
p-Toluenesulfonamide	2.9582E+00	2.9582E+00	2.9582E+00	0.01%
Pyrene	2.6658E+01	2.3363E+01	2.0475E+01	86.18%
RDX	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Styrene	1.1282E-16	1.1844E-17	1.2433E-18	100.00%
Tetrachloroethene	1.2394E-02	7.7402E-03	4.8339E-03	99.91%
Toluene	1.1210E-79	5.8110E-86	3.0123E-92	100.00%
Tributylphosphate	8.6389E-02	4.7380E-02	2.5985E-02	99.99%
Trichloroethene	1.2403E+00	9.4567E-01	7.2103E-01	98.29%
Trinitrotoluene	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Undecane,4,6-Dimethyl-	9.2374E-02	9.2218E-02	9.2064E-02	2.49%
Xylene (ortho)	5.1098E-08	1.3186E-08	3.4025E-09	100.00%
Xylene (total)	4.5459E-05	1.1731E-05	3.0270E-06	100.00%
RADIONUCLIDES				
Ac225	7.4838E-159	7.7006E-170	7.9237E-181	100.00%
Ac227	1.0941E-10	1.0598E-10	1.0266E-10	37.93%
Ac228	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Ag106	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Ag108	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Ag108m	1.6686E-05	1.6595E-05	1.6505E-05	7.87%
Ag109m	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Ag110	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Ag110m	1.3200E-21	4.7981E-22	1.7441E-22	100.00%
Ag111	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Am241	3.9743E-03	3.9679E-03	3.9615E-03	2.38%
Am242	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Am242m	2.5618E-09	2.5502E-09	2.5386E-09	6.62%
Am243	9.7847E-07	9.7837E-07	9.7828E-07	0.14%
Am245	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Am246	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
At217	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Ba136m	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Ba137m	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Ba140	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Be 10	2.8422E-08	2.8422E-08	2.8422E-08	0.01%
Bi210	4.0207E-300	0.0000E+00	0.0000E+00	100.00%
Bi211	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Bi212	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Bi213	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Bi214	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Bk249	2.6481E-32	1.2011E-32	5.4477E-33	100.00%
Bk250	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
C 14	6.0252E-09	6.0234E-09	6.0215E-09	0.45%
Cd109	9.2733E-22	5.3748E-22	3.1153E-22	99.97%

Table C.3 Model output mass.

Remaining ICDF Contaminant Mass (kg)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	[illegible]
Cd113m	4.0684E-06	3.8657E-06	3.6730E-06	3.4900E-06	3.3161E-06	3.1508E-06	2.9938E-06	2.8446E-06	2.7028E-06	2.5681E-06	2.4402E-06	2.3186E-06	2.2030E-06
Cd115m	9.7664E-62	3.3580E-64	1.1546E-66	3.9699E-69	1.3650E-71	4.6932E-74	1.6137E-76	5.5484E-79	1.9077E-81	6.5594E-84	2.2553E-86	7.7546E-89	2.6663E-91
Ce141	3.7027E-79	1.5407E-82	6.4108E-86	2.6676E-89	1.1100E-92	4.6187E-96	1.9218E-99	7.9968E-103	3.3275E-106	1.3846E-109	5.7613E-113	2.3973E-116	9.9752E-120
Ce142	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ce144	3.3069E-10	1.3569E-10	5.5673E-11	2.2843E-11	9.3728E-12	3.8458E-12	1.5780E-12	6.4745E-13	2.6566E-13	1.0900E-13	4.4724E-14	1.8351E-14	7.5295E-15
Cf249	5.8956E-20	5.8840E-20	5.8724E-20	5.8608E-20	5.8492E-20	5.8377E-20	5.8261E-20	5.8146E-20	5.8031E-20	5.7917E-20	5.7802E-20	5.7688E-20	5.7574E-20
Cf250	1.1289E-21	1.0707E-21	1.0155E-21	9.6318E-22	9.1354E-22	8.6646E-22	8.2180E-22	7.7945E-22	7.3928E-22	7.0118E-22	6.6504E-22	6.3076E-22	5.9826E-22
Cf251	3.5088E-22	3.5061E-22	3.5034E-22	3.5007E-22	3.4980E-22	3.4953E-22	3.4926E-22	3.4899E-22	3.4872E-22	3.4845E-22	3.4818E-22	3.4791E-22	3.4764E-22
Cf252	2.4412E-26	1.8775E-26	1.4439E-26	1.1105E-26	8.5407E-27	6.5685E-27	5.0517E-27	3.8852E-27	2.9880E-27	2.2980E-27	1.7674E-27	1.3593E-27	1.0454E-27
Cm241	4.5911E-88	2.0514E-91	9.1657E-95	4.0953E-98	1.8298E-101	8.1759E-105	3.6531E-108	1.6322E-111	7.2930E-115	3.2586E-118	1.4560E-121	6.5055E-125	2.9067E-128
Cm242	9.5327E-24	2.0190E-24	4.2761E-25	9.0564E-26	1.9181E-26	4.0624E-27	8.6040E-28	1.8223E-28	3.8595E-29	8.1742E-30	1.7312E-30	3.6667E-31	7.7658E-32
Cm243	4.0247E-11	3.9280E-11	3.8336E-11	3.7415E-11	3.6516E-11	3.5638E-11	3.4782E-11	3.3946E-11	3.3131E-11	3.2334E-11	3.1558E-11	3.0799E-11	3.0059E-11
Cm244	1.3029E-08	1.2540E-08	1.2068E-08	1.1615E-08	1.1179E-08	1.0759E-08	1.0354E-08	9.9654E-09	9.5910E-09	9.2306E-09	8.8838E-09	8.5500E-09	8.2288E-09
Cm245	2.7323E-10	2.7321E-10	2.7318E-10	2.7316E-10	2.7314E-10	2.7312E-10	2.7309E-10	2.7307E-10	2.7305E-10	2.7303E-10	2.7301E-10	2.7298E-10	2.7296E-10
Cm246	3.4069E-12	3.4064E-12	3.4059E-12	3.4054E-12	3.4049E-12	3.4044E-12	3.4039E-12	3.4034E-12	3.4029E-12	3.4024E-12	3.4019E-12	3.4014E-12	3.4009E-12
Cm247	4.0273E-15	4.0273E-15	4.0273E-15	4.0273E-15	4.0273E-15	4.0273E-15	4.0273E-15	4.0273E-15	4.0273E-15	4.0273E-15	4.0273E-15	4.0273E-15	4.0273E-15
Cm248	2.6860E-17	2.6860E-17	2.6860E-17	2.6860E-17	2.6860E-17	2.6860E-17	2.6860E-17	2.6860E-17	2.6860E-17	2.6860E-17	2.6859E-17	2.6859E-17	2.6859E-17
Cm250	2.1931E-27	2.1929E-27	2.1928E-27	2.1926E-27	2.1925E-27	2.1923E-27	2.1922E-27	2.1920E-27	2.1918E-27	2.1917E-27	2.1915E-27	2.1914E-27	2.1912E-27
Co-57	2.5520E-10	1.0032E-10	3.9438E-11	1.5503E-11	6.0945E-12	2.3958E-12	9.4182E-13	3.7024E-13	1.4554E-13	5.7215E-14	2.2492E-14	8.8417E-15	3.4758E-15
Co-58	1.0801E-24	3.0303E-26	8.5021E-28	2.3854E-29	6.6927E-31	1.8778E-32	5.2685E-34	1.4782E-35	4.1473E-37	1.1636E-38	3.2647E-40	9.1598E-42	2.5699E-43
Co-60	9.9871E-05	8.7555E-05	7.6757E-05	6.7291E-05	5.8992E-05	5.1717E-05	4.5339E-05	3.9748E-05	3.4846E-05	3.0548E-05	2.6781E-05	2.3478E-05	2.0583E-05
Cr-51	1.4556E-62	1.5718E-66	1.6972E-70	1.8327E-74	1.9790E-78	2.1369E-82	2.3074E-86	2.4916E-90	2.6904E-94	2.9051E-98	3.1370E-102	3.3873E-106	3.6577E-110
Cs132	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Cs134	5.0575E-06	3.6125E-06	2.5803E-06	1.8431E-06	1.3165E-06	9.4033E-07	6.7166E-07	4.7975E-07	3.4268E-07	2.4477E-07	1.7483E-07	1.2488E-07	8.9198E-0[illegible]
Cs135	1.8169E-02	1.8169E-02	1.8169E-02	1.8169E-02	1.8169E-02	1.8169E-02	1.8169E-02	1.8169E-02	1.8169E-02	1.8169E-02	1.8169E-02	1.8169E-02	1.8169E-[illegible]
Cs136	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Cs137	1.6409E-01	1.6034E-01	1.5668E-01	1.5310E-01	1.4960E-01	1.4618E-01	1.4285E-01	1.3958E-01	1.3639E-01	1.3328E-01	1.3023E-01	1.2726E-01	1.2435E-01
Er169	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Eu150	6.1001E-18	3.1464E-227	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Eu152	3.1966E-03	3.0343E-03	2.8802E-03	2.7339E-03	2.5951E-03	2.4633E-03	2.3382E-03	2.2195E-03	2.1067E-03	1.9998E-03	1.8982E-03	1.8018E-03	1.7103E-03
Eu154	1.8180E-03	1.6802E-03	1.5530E-03	1.4353E-03	1.3266E-03	1.2261E-03	1.1333E-03	1.0474E-03	9.6808E-04	8.9475E-04	8.2697E-04	7.6433E-04	7.0644E-04
Eu155	2.2167E-04	1.9276E-04	1.6762E-04	1.4575E-04	1.2674E-04	1.1021E-04	9.5839E-05	8.3340E-05	7.2470E-05	6.3018E-05	5.4799E-05	4.7652E-05	4.1437E-05
Eu156	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Fe-59	5.2992E-43	1.7992E-45	6.1089E-48	2.0742E-50	7.0423E-53	2.3911E-55	8.1183E-58	2.7564E-60	9.3588E-63	3.1776E-65	1.0789E-67	3.6631E-70	1.2437E-72
Fr221	1.6902E-19	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Fr223	4.2706E-18	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Gd152	7.2952E-07	7.2951E-07	7.2951E-07	7.2951E-07	7.2950E-07	7.2950E-07	7.2950E-07	7.2950E-07	7.2949E-07	7.2949E-07	7.2949E-07	7.2948E-07	7.2948E-07
Gd153	3.3350E-18	1.1724E-18	4.1213E-19	1.4488E-19	5.0929E-20	1.7903E-20	6.2935E-21	2.2124E-21	7.7772E-22	2.7339E-22	9.6107E-23	3.3785E-23	1.1876E-23
H 3	3.0308E-06	2.8219E-06	2.6274E-06	2.4464E-06	2.2778E-06	2.1208E-06	1.9746E-06	1.8386E-06	1.7119E-06	1.5939E-06	1.4840E-06	1.3818E-06	1.2865E-06
Hf-181	2.6808E-44	6.8684E-47	1.7597E-49	4.5084E-52	1.1551E-54	2.9593E-57	7.5819E-60	1.9425E-62	4.9768E-65	1.2751E-67	3.2668E-70	8.3696E-73	2.1443E-75
Ho166m	2.2413E-15	8.9976E-114	3.6120E-212	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
I129	4.2952E+00	4.2292E+00	4.1641E+00	4.1000E+00	4.0369E+00	3.9748E+00	3.9137E+00	3.8534E+00	3.7942E+00	3.7358E+00	3.6783E+00	3.6217E+00	3.5660E+00
I131	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
In114	8.0078E-67	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
In114m	4.9876E-62	3.0073E-64	1.8133E-66	1.0933E-68	6.5921E-71	3.9747E-73	2.3966E-75	1.4450E-77	8.7128E-80	5.2534E-82	3.1675E-84	1.9099E-86	1.1516E-88
In115	5.5369E-03	5.5369E-03	5.5369E-03	5.5369E-03	5.5369E-03	5.5368E-03	5.5368E-03	5.5368E-03	5.5368E-03	5.5368E-03	5.5368E-03	5.5368E-03	5.5367E-03
In115m	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
K-40	1.6034E+02	1.6033E+02	1.6032E+02	1.6031E+02	1.6030E+02	1.6029E+02	1.6028E+02	1.6027E+02	1.6026E+02	1.6025E+02	1.6024E+02	1.6023E+02	1.6022E+0[illegible]
Kr81	1.4732E-10	1.4505E-10	1.4282E-10	1.4062E-10	1.3846E-10	1.3633E-10	1.3423E-10	1.3216E-10	1.3013E-10	1.2813E-10	1.2615E-10	1.2421E-10	1.2230E-[illegible]

Table C.3 Model output mass.

Remaining ICDF Contaminant Mass (kg)	13	14	15	Mass Removed (%)
Cd113m	2.0932E-06	1.9889E-06	1.8898E-06	53.55%
Cd115m	9.1675E-94	3.1521E-96	1.0838E-98	100.00%
Ce141	4.1507E-123	1.7271E-126	7.1866E-130	100.00%
Ce142	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Ce144	3.0894E-15	1.2676E-15	5.2012E-16	100.00%
Cf249	5.7461E-20	5.7347E-20	5.7234E-20	2.92%
Cf250	5.6742E-22	5.3818E-22	5.1044E-22	54.78%
Cf251	3.4737E-22	3.4710E-22	3.4683E-22	1.15%
Cf252	8.0398E-28	6.1833E-28	4.7555E-28	98.05%
Cm241	1.2987E-131	5.8029E-135	2.5928E-138	100.00%
Cm242	1.6448E-32	3.4835E-33	7.3778E-34	100.00%
Cm243	2.9337E-11	2.8632E-11	2.7944E-11	30.57%
Cm244	7.9196E-09	7.6221E-09	7.3357E-09	43.70%
Cm245	2.7294E-10	2.7292E-10	2.7289E-10	0.12%
Cm246	3.4004E-12	3.3999E-12	3.3994E-12	0.22%
Cm247	4.0273E-15	4.0273E-15	4.0273E-15	0.00%
Cm248	2.6859E-17	2.6859E-17	2.6859E-17	0.00%
Cm250	2.1911E-27	2.1909E-27	2.1907E-27	0.11%
Co-57	1.3664E-15	5.3713E-16	2.1115E-16	100.00%
Co-58	7.2105E-45	2.0230E-46	5.6760E-48	100.00%
Co-60	1.8044E-05	1.5819E-05	1.3868E-05	86.11%
Cr-51	3.9496E-114	4.2648E-118	4.6051E-122	100.00%
Cs132	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Cs134	6.3713E-08	4.5509E-08	3.2506E-08	99.36%
Cs135	1.8169E-02	1.8169E-02	1.8169E-02	0.00%
Cs136	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Cs137	1.2151E-01	1.1874E-01	1.1602E-01	29.29%
Er169	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Eu150	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Eu152	1.6234E-03	1.5410E-03	1.4627E-03	54.24%
Eu154	6.5293E-04	6.0347E-04	5.5776E-04	69.32%
Eu155	3.6033E-05	3.1333E-05	2.7246E-05	87.71%
Eu156	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Fe-59	4.2228E-75	1.4338E-77	4.8680E-80	100.00%
Fr221	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Fr223	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Gd152	7.2948E-07	7.2948E-07	7.2947E-07	0.01%
Gd153	4.1749E-24	1.4676E-24	5.1592E-25	100.00%
H 3	1.1979E-06	1.1153E-06	1.0385E-06	65.74%
Hf-181	5.4938E-78	1.4075E-80	3.6062E-83	100.00%
Ho166m	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
I129	3.5111E+00	3.4571E+00	3.4039E+00	20.75%
I131	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
In114	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
In114m	6.9434E-91	4.1865E-93	2.5243E-95	100.00%
In115	5.5367E-03	5.5367E-03	5.5367E-03	0.00%
In115m	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
K-40	1.6021E+02	1.6020E+02	1.6019E+02	0.09%
Kr81	1.2042E-10	1.1857E-10	1.1674E-10	20.76%

Table C.3 Model output mass.

Remaining ICDF Contaminant Mass (kg)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	1(
Kr85	1.7213E-03	1.5885E-03	1.4659E-03	1.3529E-03	1.2485E-03	1.1522E-03	1.0633E-03	9.8125E-04	9.0555E-04	8.3569E-04	7.7121E-04	7.1172E-04	6.5681E-04
La138	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
La140	2.7868E-114	1.0240E-179	3.7626E-245	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Mn-54	1.4602E-15	6.5067E-16	2.8994E-16	1.2920E-16	5.7572E-17	2.5654E-17	1.1432E-17	5.0941E-18	2.2699E-18	1.0115E-18	4.5073E-19	2.0085E-19	8.9499E-20
Nb92	3.5280E-18	3.5280E-18	3.5280E-18	3.5279E-18	3.5279E-18	3.5279E-18	3.5278E-18	3.5278E-18	3.5278E-18	3.5277E-18	3.5277E-18	3.5277E-18	3.5276E-18
Nb93m	2.7898E-08	2.6512E-08	2.5194E-08	2.3942E-08	2.2752E-08	2.1622E-08	2.0547E-08	1.9526E-08	1.8555E-08	1.7633E-08	1.6757E-08	1.5924E-08	1.5133E-08
Nb94	2.7526E-08	2.7525E-08	2.7524E-08	2.7523E-08	2.7522E-08	2.7520E-08	2.7519E-08	2.7518E-08	2.7517E-08	2.7516E-08	2.7514E-08	2.7513E-08	2.7512E-08
Nb95	7.1842E-41	5.4312E-44	4.1060E-47	3.1041E-50	2.3467E-53	1.7741E-56	1.3412E-59	1.0140E-62	7.6655E-66	5.7951E-69	4.3811E-72	3.3121E-75	2.5039E-78
Nb95m	2.8243E-44	1.0007E-74	3.5456E-105	1.2562E-135	4.4510E-166	1.5771E-196	5.5877E-227	1.9798E-257	7.0147E-288	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Nd144	1.6149E-01	1.6149E-01	1.6149E-01	1.6149E-01	1.6149E-01	1.6149E-01	1.6149E-01	1.6149E-01	1.6149E-01	1.6149E-01	1.6149E-01	1.6149E-01	1.6149E-01
Nd147	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Np235	2.8346E-17	1.4962E-17	7.8971E-18	4.1682E-18	2.2001E-18	1.1612E-18	6.1293E-19	3.2352E-19	1.7076E-19	9.0129E-20	4.7572E-20	2.5110E-20	1.3253E-20
Np236	3.0778E-09	3.0774E-09	3.0770E-09	3.0767E-09	3.0763E-09	3.0759E-09	3.0756E-09	3.0752E-09	3.0748E-09	3.0745E-09	3.0741E-09	3.0737E-09	3.0733E-09
Np237	5.3338E-01	5.3332E-01	5.3326E-01	5.3319E-01	5.3313E-01	5.3307E-01	5.3301E-01	5.3295E-01	5.3289E-01	5.3283E-01	5.3277E-01	5.3270E-01	5.3264E-01
Np238	4.9284E-16	7.3178E-68	1.0866E-119	1.6133E-171	2.3955E-223	3.5569E-275	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Np239	8.4418E-13	2.3376E-59	6.4733E-106	1.7925E-152	4.9638E-199	1.3745E-245	3.8063E-292	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Np240	1.3552E-24	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Np240m	1.4026E-22	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Pa231	8.6482E-07	8.6480E-07	8.6478E-07	8.6476E-07	8.6474E-07	8.6472E-07	8.6470E-07	8.6468E-07	8.6466E-07	8.6464E-07	8.6462E-07	8.6460E-07	8.6458E-07
Pa233	1.2277E-09	1.0462E-13	8.9149E-18	7.5969E-22	6.4738E-26	5.5167E-30	4.7011E-34	4.0060E-38	3.4138E-42	2.9091E-46	2.4790E-50	2.1125E-54	1.8002E-58
Pa234	8.0255E-16	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Pa234m	1.4594E-15	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Pb209	6.1478E-18	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Pb210	8.3630E-12	8.1070E-12	7.8588E-12	7.6182E-12	7.3850E-12	7.1589E-12	6.9397E-12	6.7273E-12	6.5213E-12	6.3217E-12	6.1282E-12	5.9405E-12	5.7587E-12
Pb211	4.3386E-16	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+(
Pb212	2.3192E-13	3.8868E-262	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Pb214	1.0027E-16	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Pd107	6.9518E-03	6.9517E-03	6.9516E-03	6.9515E-03	6.9513E-03	6.9512E-03	6.9511E-03	6.9510E-03	6.9509E-03	6.9508E-03	6.9506E-03	6.9505E-03	6.9504E-03
Pm146	7.6718E-09	6.7686E-09	5.9718E-09	5.2688E-09	4.6485E-09	4.1013E-09	3.6185E-09	3.1925E-09	2.8166E-09	2.4851E-09	2.1925E-09	1.9344E-09	1.7067E-09
Pm147	2.4019E-04	1.8435E-04	1.4150E-04	1.0861E-04	8.3359E-05	6.3982E-05	4.9108E-05	3.7693E-05	2.8931E-05	2.2205E-05	1.7044E-05	1.3082E-05	1.0041E-05
Pm148	1.4138E-67	4.8901E-88	1.6914E-108	5.8502E-129	2.0235E-149	6.9989E-170	2.4208E-190	8.3731E-211	2.8961E-231	1.0017E-251	3.4647E-272	1.1984E-292	0.0000E+00
Pm148m	2.2523E-65	4.9225E-68	1.0758E-70	2.3513E-73	5.1390E-76	1.1232E-78	2.4547E-81	5.3650E-84	1.1725E-86	2.5627E-89	5.6009E-92	1.2241E-94	2.6754E-97
Po210	1.3179E-13	2.1070E-14	3.3687E-15	5.3859E-16	8.6109E-17	1.3767E-17	2.2011E-18	3.5191E-19	5.6264E-20	8.9955E-21	1.4382E-21	2.2994E-22	3.6763E-23
Po211	3.8630E-24	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Po212	1.1000E-24	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Po213	2.0138E-27	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Po214	1.0226E-23	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Po215	3.6332E-22	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Po216	9.2887E-19	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Po218	1.1625E-17	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Pr143	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Pr144	1.3723E-14	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Pr144m	8.1671E-17	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Pu236	6.0821E-12	4.7690E-12	3.7394E-12	2.9320E-12	2.2990E-12	1.8027E-12	1.4135E-12	1.1083E-12	8.6903E-13	6.8141E-13	5.3429E-13	4.1894E-13	3.2849E-13
Pu237	5.8211E-66	2.1852E-68	8.2029E-71	3.0792E-73	1.1559E-75	4.3391E-78	1.6289E-80	6.1145E-83	2.2953E-85	8.6163E-88	3.2345E-90	1.2142E-92	4.5578E-95
Pu238	7.9673E-03	7.9046E-03	7.8423E-03	7.7805E-03	7.7192E-03	7.6584E-03	7.5980E-03	7.5382E-03	7.4788E-03	7.4198E-03	7.3614E-03	7.3034E-03	7.2458E-03
Pu239	6.2759E-02	6.2757E-02	6.2754E-02	6.2752E-02	6.2750E-02	6.2748E-02	6.2745E-02	6.2743E-02	6.2741E-02	6.2739E-02	6.2737E-02	6.2734E-02	6.2732E-02
Pu240	3.8509E-03	3.8505E-03	3.8501E-03	3.8496E-03	3.8492E-03	3.8488E-03	3.8483E-03	3.8479E-03	3.8475E-03	3.8470E-03	3.8466E-03	3.8462E-03	3.8457E-03
Pu241	3.6270E-04	3.4566E-04	3.2941E-04	3.1393E-04	2.9917E-04	2.8511E-04	2.7171E-04	2.5894E-04	2.4677E-04	2.3517E-04	2.2412E-04	2.1358E-04	2.0355E(

Table C.3 Model output mass.

Remaining ICDF Contaminant Mass (kg)	13	14	15	Mass Removed (%)
Kr85	6.0614E-04	5.5938E-04	5.1622E-04	70.01%
La138	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
La140	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Mn-54	3.9881E-20	1.7771E-20	7.9190E-21	100.00%
Nb92	3.5276E-18	3.5276E-18	3.5275E-18	0.01%
Nb93m	1.4381E-08	1.3666E-08	1.2987E-08	53.45%
Nb94	2.7511E-08	2.7510E-08	2.7508E-08	0.07%
Nb95	1.8930E-81	1.4311E-84	1.0819E-87	100.00%
Nb95m	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Nd144	1.6149E-01	1.6149E-01	1.6149E-01	0.01%
Nd147	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Np235	6.9954E-21	3.6923E-21	1.9489E-21	99.99%
Np236	3.0730E-09	3.0726E-09	3.0722E-09	0.18%
Np237	5.3258E-01	5.3252E-01	5.3246E-01	0.17%
Np238	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Np239	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Np240	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Np240m	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Pa231	8.6456E-07	8.6454E-07	8.6453E-07	0.03%
Pa233	1.5340E-62	1.3072E-66	1.1140E-70	100.00%
Pa234	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Pa234m	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Pb209	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Pb210	5.5824E-12	5.4115E-12	5.2458E-12	37.27%
Pb211	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Pb212	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Pb214	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Pd107	6.9503E-03	6.9502E-03	6.9500E-03	0.03%
Pm146	1.5058E-09	1.3285E-09	1.1721E-09	84.72%
Pm147	7.7066E-06	5.9152E-06	4.5401E-06	98.11%
Pm148	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Pm148m	5.8472E-100	1.2779E-102	2.7930E-105	100.00%
Po210	5.8776E-24	9.3972E-25	1.5024E-25	100.00%
Po211	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Po212	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Po213	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Po214	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Po215	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Po216	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Po218	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Pr143	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Pr144	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Pr144m	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Pu236	2.5757E-13	2.0196E-13	1.5836E-13	97.40%
Pu237	1.7110E-97	6.4227E-100	2.4110E-102	100.00%
Pu238	7.1887E-03	7.1321E-03	7.0759E-03	11.19%
Pu239	6.2730E-02	6.2728E-02	6.2725E-02	0.05%
Pu240	3.8453E-03	3.8449E-03	3.8444E-03	0.17%
Pu241	1.9398E-04	1.8486E-04	1.7617E-04	51.43%

Table C.3 Model output mass.

Remaining ICDF Contaminant Mass (kg)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	[illegible]
Pu242	3.5814E-05	3.5814E-05	3.5814E-05	3.5813E-05	3.5813E-05	3.5813E-05	3.5812E-05	3.5812E-05	3.5812E-05	3.5811E-05	3.5811E-05	3.5811E-05	3.5811E-05
Pu243	1.4380E-25	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Pu244	8.3811E-10	8.3810E-10	8.3810E-10	8.3809E-10	8.3808E-10	8.3808E-10	8.3807E-10	8.3807E-10	8.3806E-10	8.3806E-10	8.3805E-10	8.3805E-10	8.3804E-10
Pu246	1.6609E-33	1.3803E-43	1.1471E-53	9.5334E-64	7.9229E-74	6.5844E-84	5.4721E-94	4.5477E-104	3.7794E-114	3.1409E-124	2.6103E-134	2.1693E-144	1.8029E-154
Ra222	5.1148E-129	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ra223	2.3073E-13	5.3072E-23	1.2207E-32	2.8079E-42	6.4585E-52	1.4855E-61	3.4170E-71	7.8595E-81	1.8078E-90	4.1582E-100	9.5645E-110	2.2000E-119	5.0602E-129
Ra224	2.0309E-12	1.9361E-42	1.8458E-72	1.7596E-102	1.6775E-132	1.5992E-162	1.5246E-192	1.4535E-222	1.3856E-252	1.3210E-282	0.0000E+00	0.0000E+00	0.0000E+00
Ra225	7.6406E-16	2.8779E-23	1.0840E-30	4.0829E-38	1.5378E-45	5.7923E-53	2.1817E-60	8.2176E-68	3.0952E-75	1.1658E-82	4.3912E-90	1.6540E-97	6.2298E-105
Ra226	2.8015E-04	2.8002E-04	2.7990E-04	2.7978E-04	2.7965E-04	2.7953E-04	2.7941E-04	2.7928E-04	2.7916E-04	2.7903E-04	2.7891E-04	2.7879E-04	2.7866E-04
Ra228	3.2648E-16	2.8940E-16	2.5653E-16	2.2740E-16	2.0157E-16	1.7868E-16	1.5838E-16	1.4040E-16	1.2445E-16	1.1032E-16	9.7787E-17	8.6681E-17	7.6837E-17
Rb86	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Rb87	7.4465E-02	7.4464E-02	7.4462E-02	7.4461E-02	7.4460E-02	7.4459E-02	7.4457E-02	7.4456E-02	7.4455E-02	7.4454E-02	7.4452E-02	7.4451E-02	7.4450E-02
Rh102	1.4365E-11	1.1311E-11	8.9060E-12	7.0125E-12	5.5215E-12	4.3476E-12	3.4232E-12	2.6954E-12	2.1223E-12	1.6711E-12	1.3158E-12	1.0361E-12	8.1578E-13
Rh103m	5.0747E-69	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Rh106	1.8669E-15	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Rn218	4.9846E-132	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Rn219	9.1098E-19	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Rn220	3.5069E-16	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Rn222	2.3590E-14	4.0055E-43	6.8012E-72	1.1548E-100	1.9609E-129	3.3295E-158	5.6533E-187	9.5991E-216	1.6299E-244	2.7675E-273	4.6991E-302	0.0000E+00	0.0000E+00
Ru103	3.6361E-37	5.8184E-40	9.3104E-43	1.4898E-45	2.3840E-48	3.8148E-51	6.1043E-54	9.7679E-57	1.5630E-59	2.5011E-62	4.0022E-65	6.4043E-68	1.0248E-70
Ru106	2.1198E-09	1.0659E-09	5.3594E-10	2.6949E-10	1.3550E-10	6.8135E-11	3.4260E-11	1.7227E-11	8.6620E-12	4.3555E-12	2.1900E-12	1.1012E-12	5.5372E-13
Sb124	6.9291E-48	1.0363E-49	1.5499E-51	2.3180E-53	3.4667E-55	5.1847E-57	7.7542E-59	1.1597E-60	1.7344E-62	2.5940E-64	3.8795E-66	5.8021E-68	8.6776E-70
Sb125	5.2459E-06	4.0845E-06	3.1802E-06	2.4761E-06	1.9279E-06	1.5011E-06	1.1687E-06	9.0999E-07	7.0852E-07	5.5166E-07	4.2952E-07	3.3443E-07	2.6039E-07
Sb126	1.4420E-10	1.9861E-19	2.7355E-28	3.7676E-37	5.1891E-46	7.1469E-55	9.8434E-64	1.3557E-72	1.8673E-81	2.5718E-90	3.5421E-99	4.8785E-108	6.7192E-1[illegible]
Sb126m	1.0960E-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0[illegible]
Sc-46	4.9092E-28	2.3980E-29	1.1713E-30	5.7214E-32	2.7947E-33	1.3651E-34	6.6679E-36	3.2570E-37	1.5909E-38	7.7711E-40	3.7959E-41	1.8541E-42	9.0567E-44
Se 79	1.3910E-03	1.3906E-03	1.3903E-03	1.3900E-03	1.3896E-03	1.3893E-03	1.3890E-03	1.3887E-03	1.3883E-03	1.3880E-03	1.3877E-03	1.3873E-03	1.3870E-03
Sm146	1.0461E-08	1.0461E-08	1.0461E-08	1.0461E-08	1.0461E-08	1.0461E-08	1.0461E-08	1.0461E-08	1.0461E-08	1.0461E-08	1.0461E-08	1.0461E-08	1.0461E-08
Sm147	1.0452E-01	1.0451E-01	1.0451E-01	1.0451E-01	1.0451E-01	1.0451E-01	1.0451E-01	1.0451E-01	1.0451E-01	1.0451E-01	1.0451E-01	1.0451E-01	1.0451E-01
Sm148	1.7080E-03	1.7080E-03	1.7080E-03	1.7080E-03	1.7080E-03	1.7080E-03	1.7080E-03	1.7080E-03	1.7079E-03	1.7079E-03	1.7079E-03	1.7079E-03	1.7079E-03
Sm149	1.2470E-02	1.2470E-02	1.2470E-02	1.2470E-02	1.2470E-02	1.2470E-02	1.2470E-02	1.2470E-02	1.2470E-02	1.2470E-02	1.2470E-02	1.2470E-02	1.2470E-02
Sm151	7.4962E-03	7.4386E-03	7.3815E-03	7.3249E-03	7.2687E-03	7.2129E-03	7.1575E-03	7.1026E-03	7.0480E-03	6.9939E-03	6.9403E-03	6.8870E-03	6.8341E-03
Sn117m	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Sn119m	2.3148E-14	9.7613E-15	4.1162E-15	1.7358E-15	7.3196E-16	3.0866E-16	1.3016E-16	5.4887E-17	2.3145E-17	9.7602E-18	4.1158E-18	1.7356E-18	7.3188E-19
Sn121m	2.9206E-07	2.8840E-07	2.8479E-07	2.8122E-07	2.7770E-07	2.7422E-07	2.7078E-07	2.6739E-07	2.6404E-07	2.6073E-07	2.5746E-07	2.5424E-07	2.5105E-07
Sn123	5.9790E-24	8.4115E-25	1.1834E-25	1.6648E-26	2.3421E-27	3.2950E-28	4.6355E-29	6.5215E-30	9.1747E-31	1.2907E-31	1.8159E-32	2.5546E-33	3.5939E-34
Sn125	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Sn126	3.0347E-03	3.0347E-03	3.0347E-03	3.0346E-03	3.0346E-03	3.0345E-03	3.0345E-03	3.0344E-03	3.0344E-03	3.0344E-03	3.0343E-03	3.0343E-03	3.0342E-03
Sr89	1.2040E-51	8.0321E-54	5.3584E-56	3.5747E-58	2.3848E-60	1.5909E-62	1.0613E-64	7.0805E-67	4.7236E-69	3.1512E-71	2.1022E-73	1.4024E-75	9.3560E-78
Sr90	9.7844E-02	9.5533E-02	9.3277E-02	9.1075E-02	8.8924E-02	8.6825E-02	8.4774E-02	8.2773E-02	8.0818E-02	7.8910E-02	7.7047E-02	7.5227E-02	7.3451E-02
Tb160	1.6454E-41	4.9722E-43	1.5025E-44	4.5404E-46	1.3721E-47	4.1462E-49	1.2529E-50	3.7862E-52	1.1441E-53	3.4574E-55	1.0448E-56	3.1572E-58	9.5406E-60
Tb161	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Tc 98	1.1884E-07	1.1842E-07	1.1800E-07	1.1758E-07	1.1717E-07	1.1675E-07	1.1634E-07	1.1592E-07	1.1551E-07	1.1510E-07	1.1469E-07	1.1428E-07	1.1388E-07
Tc 99	1.9826E-01	1.9755E-01	1.9685E-01	1.9615E-01	1.9545E-01	1.9476E-01	1.9407E-01	1.9338E-01	1.9269E-01	1.9200E-01	1.9132E-01	1.9064E-01	1.8996E-01
Te123	9.0886E-09	9.0885E-09	9.0885E-09	9.0884E-09	9.0883E-09	9.0883E-09	9.0882E-09	9.0881E-09	9.0881E-09	9.0880E-09	9.0879E-09	9.0879E-09	9.0878E-09
Te123m	1.9471E-30	2.3646E-31	2.8715E-32	3.4872E-33	4.2349E-34	5.1429E-35	6.2456E-36	7.5846E-37	9.2108E-38	1.1186E-38	1.3584E-39	1.6496E-40	2.0033E-41
Te125m	7.3563E-08	9.3808E-10	1.1963E-11	1.5255E-13	1.9453E-15	2.4807E-17	3.1634E-19	4.0341E-21	5.1443E-23	6.5601E-25	8.3656E-27	1.0668E-28	1.3604E-30
Te127	2.0728E-29	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0[illegible]
Te127m	5.8865E-27	5.7785E-28	5.6725E-29	5.5685E-30	5.4664E-31	5.3661E-32	5.2677E-33	5.1711E-34	5.0762E-35	4.9831E-36	4.8917E-37	4.8020E-38	4.7139E-3[illegible]

Table C.3 Model output mass.

Remaining ICDF Contaminant Mass (kg)	13	14	15	Mass Removed (%)
Pu242	3.5810E-05	3.5810E-05	3.5810E-05	0.01%
Pu243	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Pu244	8.3803E-10	8.3803E-10	8.3802E-10	0.01%
Pu246	1.4983E-164	1.2452E-174	1.0348E-184	100.00%
Ra222	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Ra223	1.1639E-138	2.6772E-148	6.1579E-158	100.00%
Ra224	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Ra225	2.3465E-112	8.8382E-120	3.3290E-127	100.00%
Ra226	2.7854E-04	2.7842E-04	2.7829E-04	0.66%
Ra228	6.8110E-17	6.0375E-17	5.3518E-17	83.61%
Rb86	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Rb87	7.4449E-02	7.4447E-02	7.4446E-02	0.03%
Rh102	6.4233E-13	5.0576E-13	3.9823E-13	97.23%
Rh103m	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Rh106	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Rn218	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Rn219	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Rn220	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Rn222	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Ru103	1.6399E-73	2.6240E-76	4.1989E-79	100.00%
Ru106	2.7842E-13	1.4000E-13	7.0394E-14	100.00%
Sb124	1.2978E-71	1.9410E-73	2.9029E-75	100.00%
Sb125	2.0274E-07	1.5785E-07	1.2291E-07	97.66%
Sb126	9.2543E-126	1.2746E-134	1.7555E-143	100.00%
Sb126m	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Sc-46	4.4238E-45	2.1609E-46	1.0555E-47	100.00%
Se 79	1.3867E-03	1.3863E-03	1.3860E-03	0.36%
Sm146	1.0461E-08	1.0461E-08	1.0461E-08	0.01%
Sm147	1.0451E-01	1.0451E-01	1.0451E-01	0.01%
Sm148	1.7079E-03	1.7079E-03	1.7079E-03	0.01%
Sm149	1.2470E-02	1.2470E-02	1.2470E-02	0.01%
Sm151	6.7817E-03	6.7296E-03	6.6780E-03	10.92%
Sn117m	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Sn119m	3.0863E-19	1.3014E-19	5.4881E-20	100.00%
Sn121m	2.4790E-07	2.4480E-07	2.4173E-07	17.23%
Sn123	5.0561E-35	7.1131E-36	1.0007E-36	100.00%
Sn125	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Sn126	3.0342E-03	3.0341E-03	3.0341E-03	0.02%
Sr89	6.2416E-80	4.1639E-82	2.7778E-84	100.00%
Sr90	7.1717E-02	7.0023E-02	6.8370E-02	30.12%
Tb160	2.8831E-61	8.7122E-63	2.6327E-64	100.00%
Tb161	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Tc 98	1.1347E-07	1.1307E-07	1.1267E-07	5.20%
Tc 99	1.8929E-01	1.8862E-01	1.8795E-01	5.20%
Te123	9.0877E-09	9.0877E-09	9.0876E-09	0.01%
Te123m	2.4329E-42	2.9545E-43	3.5879E-44	100.00%
Te125m	1.7348E-32	2.2122E-34	2.8211E-36	100.00%
Te127	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Te127m	4.6275E-40	4.5426E-41	4.4593E-42	100.00%

Table C.3 Model output mass.

Remaining ICDF Contaminant Mass (kg)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	1[illegible]
Te129	1.8838E-81	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Te129m	2.0789E-78	1.1161E-81	5.9924E-85	3.2172E-88	1.7273E-91	9.2733E-95	4.9787E-98	2.6730E-101	1.4351E-104	7.7047E-108	4.1365E-111	2.2208E-114	1.1923E-117
Th226	4.7365E-128	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th227	3.4564E-13	4.6015E-19	6.1260E-25	8.1556E-31	1.0858E-36	1.4455E-42	1.9244E-48	2.5619E-54	3.4107E-60	4.5406E-66	6.0449E-72	8.0477E-78	1.0714E-83
Th228	2.3423E-08	1.6294E-08	1.1335E-08	7.8853E-09	5.4854E-09	3.8159E-09	2.6545E-09	1.8466E-09	1.2846E-09	8.9361E-10	6.2164E-10	4.3244E-10	3.0083E-10
Th229	1.4077E-10	1.4076E-10	1.4074E-10	1.4073E-10	1.4072E-10	1.4070E-10	1.4069E-10	1.4067E-10	1.4066E-10	1.4064E-10	1.4063E-10	1.4061E-10	1.4060E-10
Th230	5.0244E-03	5.0243E-03	5.0242E-03	5.0241E-03	5.0240E-03	5.0239E-03	5.0238E-03	5.0237E-03	5.0236E-03	5.0235E-03	5.0234E-03	5.0233E-03	5.0233E-03
Th231	1.7693E-10	6.8413E-114	2.6453E-217	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th232	8.3354E+02	8.3353E+02	8.3352E+02	8.3352E+02	8.3351E+02	8.3350E+02	8.3349E+02	8.3349E+02	8.3348E+02	8.3347E+02	8.3346E+02	8.3346E+02	8.3345E+02
Th234	4.3288E-11	1.1945E-15	3.2963E-20	9.0960E-25	2.5100E-29	6.9264E-34	1.9113E-38	5.2743E-43	1.4554E-47	4.0162E-52	1.1083E-56	3.0583E-61	8.4392E-66
Tl207	5.6097E-17	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Tl208	3.9341E-16	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Tl209	1.5039E-21	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Tm170	6.2631E-33	8.8112E-34	1.2396E-34	1.7439E-35	2.4534E-36	3.4516E-37	4.8559E-38	6.8315E-39	9.6109E-40	1.3521E-40	1.9022E-41	2.6761E-42	3.7649E-43
Tm171	8.5567E-19	5.9638E-19	4.1565E-19	2.8970E-19	2.0191E-19	1.4072E-19	9.8080E-20	6.8358E-20	4.7643E-20	3.3206E-20	2.3143E-20	1.6130E-20	1.1242E-20
U230	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U232	1.4609E-08	1.4467E-08	1.4326E-08	1.4187E-08	1.4049E-08	1.3912E-08	1.3777E-08	1.3643E-08	1.3510E-08	1.3378E-08	1.3248E-08	1.3119E-08	1.2991E-08
U233	1.5514E-06	1.5512E-06	1.5509E-06	1.5507E-06	1.5504E-06	1.5502E-06	1.5500E-06	1.5497E-06	1.5495E-06	1.5492E-06	1.5490E-06	1.5487E-06	1.5485E-06
U234	5.6515E-01	5.6506E-01	5.6497E-01	5.6488E-01	5.6480E-01	5.6471E-01	5.6462E-01	5.6453E-01	5.6445E-01	5.6436E-01	5.6427E-01	5.6418E-01	5.6410E-01
U235	2.9825E+01	2.9820E+01	2.9816E+01	2.9811E+01	2.9807E+01	2.9802E+01	2.9797E+01	2.9793E+01	2.9788E+01	2.9784E+01	2.9779E+01	2.9775E+01	2.9770E+01
U236	1.8256E+00	1.8253E+00	1.8250E+00	1.8247E+00	1.8245E+00	1.8242E+00	1.8239E+00	1.8236E+00	1.8233E+00	1.8231E+00	1.8228E+00	1.8225E+00	1.8222E+00
U237	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U238	3.3966E+03	3.3961E+03	3.3956E+03	3.3951E+03	3.3946E+03	3.3940E+03	3.3935E+03	3.3930E+03	3.3925E+03	3.3920E+03	3.3915E+03	3.3909E+03	3.3904E+03
U240	1.6035E-20	1.5209E-207	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Xe127	3.2707E-80	3.0856E-83	2.9109E-86	2.7462E-89	2.5907E-92	2.4441E-95	2.3058E-98	2.1753E-101	2.0521E-104	1.9360E-107	1.8264E-110	1.7230E-113	1.6255E-1[illegible]
Xe129m	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Xe131m	1.8780E-120	1.0807E-129	6.2184E-139	3.5783E-148	2.0591E-157	1.1848E-166	6.8179E-176	3.9232E-185	2.2576E-194	1.2991E-203	7.4752E-213	4.3015E-222	2.4752E-231
Xe133	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Y90	2.4571E-05	1.5379E-46	9.6261E-88	6.0251E-129	3.7712E-170	2.3605E-211	1.4775E-252	9.2477E-294	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Y91	9.8731E-45	1.3069E-46	1.7298E-48	2.2897E-50	3.0308E-52	4.0118E-54	5.3102E-56	7.0289E-58	9.3039E-60	1.2315E-61	1.6301E-63	2.1577E-65	2.8561E-67
Zn65	1.9146E-16	6.7880E-17	2.4066E-17	8.5324E-18	3.0251E-18	1.0725E-18	3.8024E-19	1.3481E-19	4.7796E-20	1.6945E-20	6.0078E-21	2.1300E-21	7.5517E-22
Zr93	1.9909E-01	1.9909E-01	1.9909E-01	1.9909E-01	1.9909E-01	1.9909E-01	1.9909E-01	1.9909E-01	1.9909E-01	1.9909E-01	1.9909E-01	1.9909E-01	1.9909E-01
Zr95	7.9590E-33	1.5277E-34	2.9325E-36	5.6289E-38	1.0805E-39	2.0740E-41	3.9809E-43	7.6414E-45	1.4668E-46	2.8155E-48	5.4043E-50	1.0373E-51	1.9912E-53

Table C.3 Model output mass.

Remaining ICDF Contaminant Mass (kg)	13	14	15	Mass Removed (%)
Te129	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Te129m	6.4013E-121	3.4368E-124	1.8451E-127	100.00%
Th226	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Th227	1.4263E-89	1.8989E-95	2.5280E-101	100.00%
Th228	2.0927E-10	1.4558E-10	1.0127E-10	99.57%
Th229	1.4058E-10	1.4057E-10	1.4056E-10	0.16%
Th230	5.0232E-03	5.0231E-03	5.0230E-03	0.03%
Th231	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Th232	8.3344E+02	8.3343E+02	8.3343E+02	0.01%
Th234	2.3288E-70	6.4262E-75	1.7733E-79	100.00%
Tl207	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Tl208	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Tl209	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Tm170	5.2966E-44	7.4515E-45	1.0483E-45	100.00%
Tm171	7.8354E-21	5.4610E-21	3.8062E-21	99.56%
U230	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
U232	1.2865E-08	1.2740E-08	1.2616E-08	13.64%
U233	1.5483E-06	1.5480E-06	1.5478E-06	0.23%
U234	5.6401E-01	5.6392E-01	5.6383E-01	0.23%
U235	2.9766E+01	2.9761E+01	2.9757E+01	0.23%
U236	1.8220E+00	1.8217E+00	1.8214E+00	0.23%
U237	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
U238	3.3899E+03	3.3894E+03	3.3889E+03	0.23%
U240	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Xe127	1.5335E-119	1.4467E-122	1.3648E-125	100.00%
Xe129m	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Xe131m	1.4243E-240	8.1959E-250	4.7162E-259	100.00%
Xe133	0.0000E+00	0.0000E+00	0.0000E+00	No Mass
Y90	0.0000E+00	0.0000E+00	0.0000E+00	100.00%
Y91	3.7805E-69	5.0041E-71	6.6237E-73	100.00%
Zn65	2.6774E-22	9.4923E-23	3.3654E-23	100.00%
Zr93	1.9909E-01	1.9909E-01	1.9908E-01	0.00%
Zr95	3.8221E-55	7.3365E-57	1.4082E-58	100.00%

Table C.4 Model output leachate.

ICDF Leachage Concentration (mg/L or pCi/L)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Peak Leachate Concentration	Average Leachate Concentration
INORGANICS																		
Aluminum	2.8303E+01	2.8303E+01	2.8303E+01	2.8303E+01	2.8303E+01	2.8302E+01	2.8302E+01	2.8302E+01	2.8302E+01	2.8302E+01	2.8302E+01	2.8302E+01	2.8302E+01	2.8302E+01	2.8302E+01	2.8301E+01	2.8303E+01	2.8302E+01
Antimony	1.1646E-01	1.1646E-01	1.1646E-01	1.1646E-01	1.1645E-01	1.1645E-01	1.1645E-01	1.1645E-01	1.1644E-01	1.1644E-01	1.1644E-01	1.1644E-01	1.1644E-01	1.1643E-01	1.1643E-01	1.1643E-01	1.1646E-01	1.1645E-01
Arsenic	1.8470E+00	1.8470E+00	1.8465E+00	1.8459E+00	1.8454E+00	1.8448E+00	1.8443E+00	1.8437E+00	1.8431E+00	1.8426E+00	1.8420E+00	1.8415E+00	1.8409E+00	1.8404E+00	1.8398E+00	1.8393E+00	1.8470E+00	1.8434E+00
Barium	3.5848E+00	3.5848E+00	3.5847E+00	3.5846E+00	3.5846E+00	3.5845E+00	3.5844E+00	3.5844E+00	3.5843E+00	3.5842E+00	3.5842E+00	3.5841E+00	3.5840E+00	3.5840E+00	3.5839E+00	3.5838E+00	3.5848E+00	3.5843E+00
Beryllium	1.1491E-03	1.1491E-03	1.1491E-03	1.1491E-03	1.1491E-03	1.1491E-03	1.1491E-03	1.1491E-03	1.1491E-03	1.1491E-03	1.1491E-03	1.1491E-03	1.1491E-03	1.1491E-03	1.1491E-03	1.1491E-03	1.1491E-03	1.1491E-03
Boron	3.6473E+01	3.6473E+01	3.6466E+01	3.6460E+01	3.6453E+01	3.6446E+01	3.6440E+01	3.6433E+01	3.6426E+01	3.6420E+01	3.6413E+01	3.6406E+01	3.6400E+01	3.6393E+01	3.6386E+01	3.6380E+01	3.6473E+01	3.6429E+01
Cadmium	5.9170E-01	5.9170E-01	5.9161E-01	5.9152E-01	5.9143E-01	5.9134E-01	5.9125E-01	5.9116E-01	5.9107E-01	5.9098E-01	5.9089E-01	5.9080E-01	5.9071E-01	5.9062E-01	5.9053E-01	5.9044E-01	5.9170E-01	5.9111E-01
Calcium	4.0350E+03	4.0350E+03	4.0343E+03	4.0335E+03	4.0328E+03	4.0321E+03	4.0313E+03	4.0306E+03	4.0299E+03	4.0291E+03	4.0284E+03	4.0277E+03	4.0269E+03	4.0262E+03	4.0255E+03	4.0247E+03	4.0350E+03	4.0302E+03
Chloride	3.1106E+01	3.1106E+01	3.0627E+01	3.0156E+01	2.9692E+01	2.9235E+01	2.8786E+01	2.8343E+01	2.7907E+01	2.7477E+01	2.7054E+01	2.6638E+01	2.6228E+01	2.5825E+01	2.5427E+01	2.5036E+01	3.1106E+01	2.8165E+01
Chromium	1.3691E+00	1.3691E+00	1.3691E+00	1.3690E+00	1.3690E+00	1.3690E+00	1.3689E+00	1.3689E+00	1.3688E+00	1.3688E+00	1.3687E+00	1.3687E+00	1.3687E+00	1.3686E+00	1.3686E+00	1.3685E+00	1.3691E+00	1.3689E+00
Cobalt	5.9992E-01	5.9992E-01	5.9987E-01	5.9981E-01	5.9976E-01	5.9970E-01	5.9965E-01	5.9959E-01	5.9954E-01	5.9948E-01	5.9943E-01	5.9937E-01	5.9932E-01	5.9926E-01	5.9921E-01	5.9915E-01	5.9992E-01	5.9956E-01
Copper	1.4906E+00	1.4906E+00	1.4905E+00	1.4905E+00	1.4904E+00	1.4903E+00	1.4903E+00	1.4902E+00	1.4901E+00	1.4901E+00	1.4900E+00	1.4899E+00	1.4899E+00	1.4898E+00	1.4897E+00	1.4896E+00	1.4906E+00	1.4902E+00
Cyanide	4.0932E+00	4.0932E+00	4.0472E+00	4.0018E+00	3.9569E+00	3.9125E+00	3.8686E+00	3.8251E+00	3.7822E+00	3.7398E+00	3.6978E+00	3.6563E+00	3.6153E+00	3.5747E+00	3.5346E+00	3.4949E+00	4.0932E+00	3.8059E+00
Dysprosium	2.4718E-01	2.4718E-01	2.4718E-01	2.4718E-01	2.4718E-01	2.4718E-01	2.4718E-01	2.4718E-01	2.4718E-01	2.4718E-01	2.4717E-01	2.4717E-01	2.4717E-01	2.4717E-01	2.4717E-01	2.4717E-01	2.4718E-01	2.4718E-01
Fluoride	6.4434E+01	6.4434E+01	6.3443E+01	6.2467E+01	6.1505E+01	6.0559E+01	5.9627E+01	5.8710E+01	5.7807E+01	5.6917E+01	5.6041E+01	5.5179E+01	5.4330E+01	5.3494E+01	5.2671E+01	5.1861E+01	6.4434E+01	5.8342E+01
Iron	4.6553E+01	4.6553E+01	4.6553E+01	4.6552E+01	4.6552E+01	4.6552E+01	4.6552E+01	4.6552E+01	4.6551E+01	4.6551E+01	4.6551E+01	4.6551E+01	4.6551E+01	4.6550E+01	4.6550E+01	4.6550E+01	4.6553E+01	4.6552E+01
Lead	5.7533E-01	5.7533E-01	5.7532E-01	5.7532E-01	5.7531E-01	5.7531E-01	5.7530E-01	5.7530E-01	5.7529E-01	5.7529E-01	5.7528E-01	5.7528E-01	5.7527E-01	5.7527E-01	5.7526E-01	5.7525E-01	5.7533E-01	5.7529E-01
Magnesium	8.8398E+02	8.8398E+02	8.8382E+02	8.8366E+02	8.8350E+02	8.8334E+02	8.8318E+02	8.8302E+02	8.8286E+02	8.8269E+02	8.8253E+02	8.8237E+02	8.8221E+02	8.8205E+02	8.8189E+02	8.8173E+02	8.8398E+02	8.8293E+02
Manganese	4.1300E+00	4.1300E+00	4.1300E+00	4.1299E+00	4.1298E+00	4.1297E+00	4.1297E+00	4.1296E+00	4.1295E+00	4.1294E+00	4.1294E+00	4.1293E+00	4.1292E+00	4.1291E+00	4.1290E+00	4.1290E+00	4.1300E+00	4.1295E+00
Mercury	4.9723E+01	4.9723E+01	4.9482E+01	4.9241E+01	4.9002E+01	4.8764E+01	4.8527E+01	4.8291E+01	4.8057E+01	4.7823E+01	4.7591E+01	4.7360E+01	4.7129E+01	4.6900E+01	4.6673E+01	4.6446E+01	4.9723E+01	4.8171E+01
Molybdenum	1.0117E+00	1.0117E+00	1.0116E+00	1.0115E+00	1.0114E+00	1.0113E+00	1.0112E+00	1.0111E+00	1.0110E+00	1.0110E+00	1.0109E+00	1.0108E+00	1.0107E+00	1.0106E+00	1.0105E+00	1.0104E+00	1.0117E+00	1.0111E+00
Nickel	1.9643E-01	1.9643E-01	1.9643E-01	1.9643E-01	1.9642E-01	1.9642E-01	1.9642E-01	1.9642E-01	1.9642E-01	1.9641E-01	1.9641E-01	1.9641E-01	1.9641E-01	1.9641E-01	1.9641E-01	1.9640E-01	1.9643E-01	1.9642E-01
Nitrate	6.5443E+01	6.5443E+01	6.4436E+01	6.3445E+01	6.2468E+01	6.1507E+01	6.0561E+01	5.9629E+01	5.8712E+01	5.7808E+01	5.6919E+01	5.6043E+01	5.5181E+01	5.4332E+01	5.3496E+01	5.2673E+01	6.5443E+01	5.9256E+01
Nitrate/Nitrite-N	3.6979E+00	3.6979E+00	3.6410E+00	3.5850E+00	3.5298E+00	3.4755E+00	3.4220E+00	3.3694E+00	3.3175E+00	3.2665E+00	3.2162E+00	3.1667E+00	3.1180E+00	3.0700E+00	3.0228E+00	2.9763E+00	3.6979E+00	3.3483E+
Nitrite	1.4145E-01	1.4145E-01	1.3927E-01	1.3713E-01	1.3502E-01	1.3294E-01	1.3090E-01	1.2888E-01	1.2690E-01	1.2495E-01	1.2302E-01	1.2113E-01	1.1927E-01	1.1743E-01	1.1562E-01	1.1385E-01	1.4145E-01	1.2807E-
Phosphorus	1.9249E+01	1.9249E+01	1.9246E+01	1.9242E+01	1.9239E+01	1.9235E+01	1.9232E+01	1.9228E+01	1.9225E+01	1.9221E+01	1.9218E+01	1.9214E+01	1.9211E+01	1.9207E+01	1.9204E+01	1.9200E+01	1.9249E+01	1.9226E+01
Potassium	7.4882E+01	7.4882E+01	7.4877E+01	7.4873E+01	7.4868E+01	7.4864E+01	7.4859E+01	7.4854E+01	7.4850E+01	7.4845E+01	7.4841E+01	7.4836E+01	7.4831E+01	7.4827E+01	7.4822E+01	7.4818E+01	7.4882E+01	7.4852E+01
Selenium	2.0835E-01	2.0835E-01	2.0831E-01	2.0826E-01	2.0821E-01	2.0816E-01	2.0812E-01	2.0807E-01	2.0802E-01	2.0798E-01	2.0793E-01	2.0788E-01	2.0783E-01	2.0779E-01	2.0774E-01	2.0769E-01	2.0835E-01	2.0804E-01
Silver	1.0923E-01	1.0923E-01	1.0923E-01	1.0922E-01	1.0922E-01	1.0922E-01	1.0922E-01	1.0922E-01	1.0922E-01	1.0922E-01	1.0922E-01	1.0922E-01	1.0921E-01	1.0921E-01	1.0921E-01	1.0921E-01	1.0923E-01	1.0922E-01
Sodium	2.7716E+00	2.7716E+00	2.7716E+00	2.7716E+00	2.7715E+00	2.7715E+00	2.7715E+00	2.7714E+00	2.7714E+00	2.7714E+00	2.7713E+00	2.7713E+00	2.7713E+00	2.7712E+00	2.7712E+00	2.7712E+00	2.7716E+00	2.7714E+00
Strontium	1.5094E+00	1.5094E+00	1.5093E+00	1.5092E+00	1.5091E+00	1.5089E+00	1.5088E+00	1.5087E+00	1.5086E+00	1.5085E+00	1.5084E+00	1.5083E+00	1.5081E+00	1.5080E+00	1.5079E+00	1.5078E+00	1.5094E+00	1.5087E+00
Sulfate	3.4212E+02	3.4212E+02	3.3685E+02	3.3167E+02	3.2657E+02	3.2154E+02	3.1660E+02	3.1172E+02	3.0693E+02	3.0221E+02	2.9756E+02	2.9298E+02	2.8847E+02	2.8403E+02	2.7966E+02	2.7536E+02	3.4212E+02	3.0977E+02
Sulfide	1.2642E+04	1.2642E+04	1.2447E+04	1.2256E+04	1.2067E+04	1.1882E+04	1.1699E+04	1.1519E+04	1.1342E+04	1.1167E+04	1.0995E+04	1.0826E+04	1.0659E+04	1.0495E+04	1.0334E+04	1.0175E+04	1.2642E+04	1.1447E+04
Terbium	2.3867E+00	2.3867E+00	2.3867E+00	2.3866E+00	2.3866E+00	2.3866E+00	2.3866E+00	2.3866E+00	2.3866E+00	2.3866E+00	2.3866E+00	2.3866E+00	2.3866E+00	2.3865E+00	2.3865E+00	2.3865E+00	2.3867E+00	2.3866E+00
Thallium	3.7005E-03	3.7005E-03	3.7005E-03	3.7005E-03	3.7004E-03	3.7004E-03	3.7004E-03	3.7003E-03	3.7003E-03	3.7003E-03	3.7002E-03	3.7002E-03	3.7002E-03	3.7001E-03	3.7001E-03	3.7001E-03	3.7005E-03	3.7003E-03
Vanadium	3.5063E+00	3.5063E+00	3.5058E+00	3.5052E+00	3.5047E+00	3.5042E+00	3.5036E+00	3.5031E+00	3.5026E+00	3.5020E+00	3.5015E+00	3.5010E+00	3.5004E+00	3.4999E+00	3.4994E+00	3.4988E+00	3.5063E+00	3.5028E+00
Ytterbium	8.1235E-01	8.1235E-01	8.1235E-01	8.1235E-01	8.1234E-01	8.1234E-01	8.1234E-01	8.1234E-01	8.1233E-01	8.1233E-01	8.1233E-01	8.1232E-01	8.1232E-01	8.1232E-01	8.1231E-01	8.1231E-01	8.1235E-01	8.1233E-01
Zinc	1.2949E+01	1.2949E+01	1.2948E+01	1.2947E+01	1.2946E+01	1.2946E+01	1.2945E+01	1.2944E+01	1.2943E+01	1.2943E+01	1.2942E+01	1.2941E+01	1.2940E+01	1.2940E+01	1.2939E+01	1.2938E+01	1.2949E+01	1.2944E+01
Zirconium	1.1508E-01	1.1508E-01	1.1508E-01	1.1508E-01	1.1508E-01	1.1508E-01	1.1508E-01	1.1508E-01	1.1508E-01	1.1508E-01	1.1508E-01	1.1508E-01	1.1507E-01	1.1507E-01	1.1507E-01	1.1507E-01	1.1508E-01	1.1508E-01
ORGANICS																		
1,1,1-Trichloroethane	6.0907E-02	2.9129E-02	1.3881E-02	6.6151E-03	3.1524E-03	1.5022E-03	7.1588E-04	3.4115E-04	1.6257E-04	7.7473E-05	3.6919E-05	1.7594E-05	8.3841E-06	3.9954E-06	1.9040E-06	9.0732E-07	6.0907E-02	7.2847E-03
1,1,2,2-Tetrachloroethane	1.9986E-04	2.1898E-06	2.3903E-08	2.6092E-10	2.8482E-12	3.1090E-14	3.3938E-16	3.7046E-18	4.0439E-20	4.4142E-22	4.8185E-24	5.2598E-26	5.7415E-28	6.2673E-30	6.8413E-32	7.4678E-34	1.9986E-04	1.2629E-05
1,1,2-Trichloroethane	1.2575E-03	7.0104E-04	3.8894E-04	2.1579E-04	1.1972E-04	6.6424E-05	3.6853E-05	2.0446E-05	1.1344E-05	6.2936E-06	3.4918E-06	1.9373E-06	1.0748E-06	5.9632E-07	3.3085E-07	1.8356E-07	1.2575E-03	1.7700E-04
1,1-Dichloroethane	1.0517E-02	3.1163E-03	9.1957E-04	2.7135E-04	8.0070E-05	2.3627E-05	6.9721E-06	2.0573E-06	6.0709E-07	1.7914E-07	5.2861E-08	1.5599E-08	4.6029E-09	1.3582E-09	4.0079E-10	1.1827E-10	1.0517E-02	9.3361E-04
1,1-Dichloroethene	3.5159E-04	2.5942E-05	1.9137E-06	1.4117E-07	1.0414E-08	7.6825E-10	5.6673E-11	4.1807E-12	3.0841E-13	2.2751E-14	1.6783E-15	1.2381E-16	9.1331E-18	6.7374E-19	4.9701E-20	3.6664E-21	3.5159E-04	2.3725E-05
1,2,4-Trichlorobenzene	1.1292E-02	3.3947E-03	1.0196E-03	3.0623E-04	9.1977E-05	2.7625E-05	8.2972E-06	2.4921E-06	7.4849E-07	2.2481E-07	6.7520E-08	2.0280E-08	6.0910E-09	1.8294E-09	5.4946E-10	1.6503E-10	1.1292E-02	1.0090E-03
1,2-Dichlorobenzene	7.3399E-02	2.4929E-29	8.4163E-57	2.8415E-84	9.5931E-112	3.2388E-139	1.0934E-166	3.6916E-194	1.2463E-221	4.2078E-249	1.4206E-276	4.7961E-304	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.3399E-02	4.5875E-03
1,2-Dichloroethane	8.0067E-05	2.6969E-05	8.9593E-06	2.9763E-06	9.8875E-07	3.2847E-07	1.0912E-07	3.6250E-08	1.2042E-08	4.0005E-09	1.3290E-09	4.4150E-10	1.4667E-10	4.8724E-11	1.6186E-11	5.3772E-12	8.0067E-05	7.5283E-06
1,2-Dichloroethene (total)	3.2173E-04	1.7092E-04	9.0723E-05	4.8154E-05	2.5559E-05	1.3566E-05	7.2005E-06	3.8219E-06	2.0286E-06	1.0767E-06	5.7150E-07	3.0334E-07	1.6100E-07	8.5457E-08	4.5359E-08	2.4075E-08	3.2173E-04	4.2874E

Table C.4 Model output leachate.

ICDF Leachage Concentration (mg/L or pCi/L)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Peak Leachate Concentration	Average Leachate Concentration
1,3-Dichlorobenzene	7.1106E-03	2.1376E-03	6.4224E-04	1.9296E-04	5.7976E-05	1.7419E-05	5.2335E-06	1.5724E-06	4.7243E-07	1.4194E-07	4.2647E-08	1.2813E-08	3.8498E-09	1.1567E-09	3.4752E-10	1.0441E-10	7.1106E-03	6.3539E-04
1,4-Dichlorobenzene	5.1303E+00	1.5423E+00	4.5877E-01	1.3647E-01	4.0593E-02	1.2075E-02	3.5918E-03	1.0684E-03	3.1781E-04	9.4536E-05	2.8121E-05	8.3648E-06	2.4882E-06	7.4014E-07	2.2016E-07	6.5489E-08	5.1303E+00	4.5785E-01
1,4-Dioxane	4.6308E-06	1.3722E-06	4.0650E-07	1.2042E-07	3.5675E-08	1.0568E-08	3.1309E-09	9.2750E-10	2.7477E-10	8.1399E-11	2.4114E-11	7.1437E-12	2.1163E-12	6.2694E-13	1.8573E-13	5.5021E-14	4.6308E-06	4.1129E-07
2,4,5-Trichlorophenol	4.4050E-02	3.3590E-02	2.5590E-02	1.9496E-02	1.4852E-02	1.1315E-02	8.6204E-03	6.5674E-03	5.0033E-03	3.8117E-03	2.9039E-03	2.2123E-03	1.6854E-03	1.2840E-03	9.7822E-04	7.4525E-04	4.4050E-02	1.1419E-02
2,4,6-Trichlorophenol	4.2700E-02	3.2429E-02	2.4575E-02	1.8623E-02	1.4113E-02	1.0695E-02	8.1051E-03	6.1422E-03	4.6547E-03	3.5274E-03	2.6731E-03	2.0258E-03	1.5352E-03	1.1634E-03	8.8162E-04	6.6811E-04	4.2700E-02	1.0907E-02
2,4-Dichlorophenol	3.7077E-02	1.1016E-06	3.2679E-11	9.6939E-16	2.8756E-20	8.5303E-25	2.5305E-29	7.5064E-34	2.2267E-38	6.6054E-43	1.9594E-47	5.8125E-52	1.7242E-56	5.1149E-61	1.5173E-65	4.5009E-70	3.7077E-02	2.3174E-03
2,4-Dimethylphenol	3.0411E-01	5.6045E-15	1.0170E-28	1.8454E-42	3.3486E-56	6.0762E-70	1.1026E-83	2.0007E-97	3.6304E-111	6.5877E-125	1.1954E-138	2.1691E-152	3.9360E-166	7.1422E-180	1.2960E-193	2.3517E-207	3.0411E-01	1.9007E-02
2,4-Dinitrophenol	1.7048E-01	6.5484E-02	2.5075E-02	9.6020E-03	3.6769E-03	1.4080E-03	5.3915E-04	2.0645E-04	7.9057E-05	3.0273E-05	1.1592E-05	4.4390E-06	1.6998E-06	6.5090E-07	2.4925E-07	9.5443E-08	1.7048E-01	1.7288E-02
2,4-Dinitrotoluene	4.8828E-02	1.2300E-02	3.0859E-03	7.7425E-04	1.9426E-04	4.8739E-05	1.2228E-05	3.0681E-06	7.6978E-07	1.9314E-07	4.8457E-08	1.2158E-08	3.0504E-09	7.6533E-10	1.9202E-10	4.8177E-11	4.8828E-02	4.0779E-03
2,6-Dinitrotoluene	2.9026E-01	7.3116E-02	1.8179E-02	4.5199E-03	1.1238E-03	2.7941E-04	6.9470E-05	1.7273E-05	4.2945E-06	1.0678E-06	2.6548E-07	6.6006E-08	1.6411E-08	4.0804E-09	1.0145E-09	2.5224E-10	2.9026E-01	2.4223E-02
2-Butanone	6.2810E-03	1.1575E-16	2.1328E-30	3.9296E-44	7.2402E-58	1.3340E-71	2.4579E-85	4.5286E-99	8.3439E-113	1.5374E-126	2.8326E-140	5.2189E-154	9.6158E-168	1.7717E-181	3.2644E-195	6.0145E-209	6.2810E-03	3.9256E-04
2-Chloronaphthalene	1.0784E-02	2.7565E-04	7.0401E-06	1.7980E-07	4.5921E-09	1.1728E-10	2.9953E-12	7.6499E-14	1.9537E-15	4.9898E-17	1.2744E-18	3.2547E-20	8.3124E-22	2.1230E-23	5.4220E-25	1.3848E-26	1.0784E-02	6.9167E-04
2-Chlorophenol	1.8671E-01	8.2337E-02	3.5966E-02	1.5710E-02	6.8624E-03	2.9976E-03	1.3094E-03	5.7195E-04	2.4983E-04	1.0913E-04	4.7669E-05	2.0822E-05	9.0955E-06	3.9730E-06	1.7355E-06	7.5807E-07	1.8671E-01	2.0807E-02
2-Hexanone	1.2654E-04	1.2654E-04	1.2654E-04	1.2653E-04	1.2653E-04	1.2652E-04	1.2651E-04	1.2651E-04	1.2650E-04	1.2650E-04	1.2649E-04	1.2649E-04	1.2648E-04	1.2648E-04	1.2647E-04	1.2647E-04	1.2654E-04	1.2651E-04
2-Methylnaphthalene	1.7772E+00	1.7772E+00	1.7715E+00	1.7658E+00	1.7602E+00	1.7545E+00	1.7489E+00	1.7433E+00	1.7377E+00	1.7321E+00	1.7266E+00	1.7211E+00	1.7155E+00	1.7100E+00	1.7046E+00	1.6991E+00	1.7772E+00	1.7403E+00
2-Methylphenol	2.0141E-01	2.8563E-09	4.0142E-17	5.6413E-25	7.9281E-33	1.1142E-40	1.5658E-48	2.2005E-56	3.0925E-64	4.3461E-72	6.1079E-80	8.5837E-88	1.2063E-95	1.6953E-103	2.3825E-111	3.3483E-119	2.0141E-01	1.2588E-02
2-Nitroaniline	1.7277E-01	1.7277E-01	1.7175E-01	1.7075E-01	1.6975E-01	1.6875E-01	1.6776E-01	1.6678E-01	1.6580E-01	1.6483E-01	1.6386E-01	1.6290E-01	1.6195E-01	1.6100E-01	1.6005E-01	1.5912E-01	1.7277E-01	1.6629E-01
2-Nitrophenol	9.7615E-03	5.7191E-08	3.3491E-13	1.9612E-18	1.1485E-23	6.7254E-29	3.9384E-34	2.3063E-39	1.3506E-44	7.9088E-50	4.6313E-55	2.7121E-60	1.5882E-65	9.3004E-71	5.4462E-76	3.1893E-81	9.7615E-03	6.1010E-04
3,3'-Dichlorobenzidine	1.8961E-01	5.6185E-02	1.6392E-02	4.7825E-03	1.3953E-03	4.0709E-04	1.1877E-04	3.4651E-05	1.0110E-05	2.9495E-06	8.6053E-07	2.5106E-07	7.3249E-08	2.1371E-08	6.2349E-09	1.8191E-09	1.8961E-01	1.6809E-02
3-Methyl Butanal	2.1790E-03	2.1790E-03	2.1594E-03	2.1399E-03	2.1207E-03	2.1016E-03	2.0826E-03	2.0638E-03	2.0452E-03	2.0268E-03	2.0086E-03	1.9905E-03	1.9725E-03	1.9547E-03	1.9371E-03	1.9197E-03	2.1790E-03	2.0551E-03
3-Nitroaniline	1.6548E-02	1.6548E-02	1.6539E-02	1.6529E-02	1.6520E-02	1.6511E-02	1.6501E-02	1.6492E-02	1.6483E-02	1.6474E-02	1.6464E-02	1.6455E-02	1.6446E-02	1.6437E-02	1.6427E-02	1.6418E-02	1.6548E-02	1.6487E-02
4,6-Dinitro-2-methylphenol	1.0480E-03	2.1721E-06	4.5019E-09	9.3308E-12	1.9339E-14	4.0084E-17	8.3079E-20	1.7219E-22	3.5689E-25	7.3971E-28	1.5331E-30	3.1776E-33	6.5861E-36	1.3651E-38	2.8293E-41	5.8641E-44	1.0480E-03	6.5633E-05
4-Bromophenyl-phenylether	6.1497E-02	6.1497E-02	6.1190E-02	6.0884E-02	6.0581E-02	6.0278E-02	5.9977E-02	5.9678E-02	5.9380E-02	5.9084E-02	5.8789E-02	5.8496E-02	5.8204E-02	5.7914E-02	5.7625E-02	5.7337E-02	6.1497E-02	5.9526E-02
4-Chloro-3-methylphenol	8.1039E-02	8.1039E-02	8.0707E-02	8.0376E-02	8.0047E-02	7.9719E-02	7.9392E-02	7.9067E-02	7.8743E-02	7.8420E-02	7.8098E-02	7.7778E-02	7.7460E-02	7.7142E-02	7.6826E-02	7.6511E-02	8.1039E-02	7.8898E-02
4-Chloroaniline	5.2148E-03	5.2148E-03	5.2142E-03	5.2136E-03	5.2130E-03	5.2123E-03	5.2117E-03	5.2111E-03	5.2105E-03	5.2099E-03	5.2093E-03	5.2087E-03	5.2080E-03	5.2074E-03	5.2068E-03	5.2062E-03	5.2148E-03	5.2108E-03
4-Chlorophenyl-phenylether	2.8802E-02	2.8802E-02	2.8735E-02	2.8668E-02	2.8601E-02	2.8534E-02	2.8467E-02	2.8401E-02	2.8334E-02	2.8268E-02	2.8202E-02	2.8136E-02	2.8070E-02	2.8005E-02	2.7939E-02	2.7874E-02	2.8802E-02	2.8365E-02
4-Methyl-2-Pentanone	1.1313E-01	1.6043E-09	2.2671E-17	3.2037E-25	4.5273E-33	6.3976E-41	9.0408E-49	1.2776E-56	1.8054E-64	2.5513E-72	3.6053E-80	5.0948E-88	7.1997E-96	1.0174E-103	1.4377E-111	2.0317E-119	1.1313E-01	7.0704E-03
4-Methylphenol	3.7655E-01	5.3400E-09	7.5046E-17	1.0547E-24	1.4822E-32	2.0830E-40	2.9274E-48	4.1140E-56	5.7816E-64	8.1253E-72	1.1419E-79	1.6048E-87	2.2553E-95	3.1695E-103	4.4542E-111	6.2598E-119	3.7655E-01	2.3535E-02
4-Nitroaniline	1.7277E-01	1.7277E-01	1.7175E-01	1.7075E-01	1.6975E-01	1.6875E-01	1.6776E-01	1.6678E-01	1.6580E-01	1.6483E-01	1.6386E-01	1.6290E-01	1.6195E-01	1.6100E-01	1.6005E-01	1.5912E-01	1.7277E-01	1.6629E-01
4-Nitrophenol	2.9028E-03	1.0369E-22	3.7038E-42	1.3230E-61	4.7257E-81	1.6880E-100	6.0295E-120	2.1537E-139	7.6930E-159	2.7479E-178	9.8154E-198	3.5060E-217	1.2523E-236	4.4733E-256	1.5978E-275	5.7075E-295	2.9028E-03	1.8142E-04
Acenaphthene	3.9931E-02	4.3823E-03	4.8084E-04	5.2760E-05	5.7891E-06	6.3521E-07	6.9699E-08	7.6477E-09	8.3914E-10	9.2075E-11	1.0103E-11	1.1085E-12	1.2163E-13	1.3346E-14	1.4644E-15	1.6068E-16	3.9931E-02	2.8033E-03
Acenaphthylene	3.3662E-01	2.8522E-02	2.3804E-03	1.9866E-04	1.6580E-05	1.3837E-06	1.1548E-07	9.6376E-09	8.0433E-10	6.7127E-11	5.6022E-12	4.6755E-13	3.9020E-14	3.2565E-15	2.7178E-16	2.2682E-17	3.3662E-01	2.2984E-02
Acetone	6.2674E+00	1.1550E-13	2.1088E-27	3.8501E-41	7.0292E-55	1.2833E-68	2.3431E-82	4.2778E-96	7.8101E-110	1.4259E-123	2.6034E-137	4.7530E-151	8.6778E-165	1.5843E-178	2.8926E-192	5.2811E-206	6.2674E+00	3.9171E-01
Acetonitrile	1.6638E-04	4.3006E-05	1.1025E-05	2.8266E-06	7.2465E-07	1.8578E-07	4.7628E-08	1.2210E-08	3.1303E-09	8.0252E-10	2.0574E-10	5.2746E-11	1.3522E-11	3.4667E-12	8.8875E-13	2.2785E-13	1.6638E-04	1.4013E-05
Acrolein	1.4581E-04	1.0580E-07	7.5626E-11	5.4058E-14	3.8640E-17	2.7620E-20	1.9743E-23	1.4112E-26	1.0087E-29	7.2105E-33	5.1541E-36	3.6841E-39	2.6334E-42	1.8824E-45	1.3455E-48	9.6178E-52	1.4581E-04	9.1200E-06
Acrylonitrile	1.2273E-07	3.6140E-12	1.0642E-16	3.1336E-21	9.2271E-26	2.7170E-30	8.0006E-35	2.3559E-39	6.9371E-44	2.0427E-48	6.0149E-53	1.7712E-57	5.2154E-62	1.5357E-66	4.5221E-71	1.3316E-75	1.2273E-07	7.6708E-09
Anthracene	8.2522E-03	5.0064E-03	3.0372E-03	1.8426E-03	1.1178E-03	6.7816E-04	4.1142E-04	2.4959E-04	1.5142E-04	9.1862E-05	5.5729E-05	3.3809E-05	2.0511E-05	1.2443E-05	7.5490E-06	4.5797E-06	8.2522E-03	1.3108E-03
Aramite	1.3871E-06	1.3871E-06	1.3870E-06	1.3870E-06	1.3870E-06	1.3870E-06	1.3870E-06	1.3870E-06	1.3869E-06	1.3869E-06	1.3869E-06	1.3869E-06	1.3869E-06	1.3869E-06	1.3869E-06	1.3868E-06	1.3871E-06	1.3870E-06
Aroclor-1016	1.5371E-05	2.7593E-31	4.9535E-57	8.8924E-83	1.5964E-108	2.8658E-134	5.1446E-160	9.2355E-186	1.6579E-211	2.9763E-237	5.3430E-263	9.5917E-289	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5371E-05	9.6067E-07
Aroclor-1254	1.7705E-04	5.3640E-28	1.6251E-51	4.9237E-75	1.4917E-98	4.5195E-122	1.3693E-145	4.1486E-169	1.2569E-192	3.8080E-216	1.1537E-239	3.4955E-263	1.0590E-286	0.0000E+00	0.0000E+00	0.0000E+00	1.7705E-04	1.1065E-05
Aroclor-1260	8.7286E-03	1.4913E-10	2.5480E-18	4.3533E-26	7.4377E-34	1.2708E-41	2.1711E-49	3.7095E-57	6.3377E-65	1.0828E-72	1.8500E-80	3.1609E-88	5.4004E-96	9.2268E-104	1.5764E-111	2.6934E-119	8.7286E-03	5.4554E-04
Aroclor-1268	2.8915E-01	8.1286E-04	2.2753E-06	6.3691E-09	1.7828E-11	4.9904E-14	1.3969E-16	3.9102E-19	1.0945E-21	3.0638E-24	8.5760E-27	2.4006E-29	6.7196E-32	1.8809E-34	5.2650E-37	1.4738E-39	2.8915E-01	1.8123E-02
Benzene	1.3491E+00	6.7453E-01	3.3657E-01	1.6794E-01	8.3795E-02	4.1811E-02	2.0862E-02	1.0410E-02	5.1941E-03	2.5917E-03	1.2932E-03	6.4525E-04	3.2196E-04	1.6065E-04	8.0158E-05	3.9996E-05	1.3491E+00	1.6846E-01
Benzidine	2.9200E-07	3.0047E-18	3.0917E-29	3.1813E-40	3.2735E-51	3.3683E-62	3.4659E-73	3.5663E-84	3.6697E-95	3.7760E-106	3.8854E-117	3.9980E-128	4.1138E-139	4.2330E-150	4.3557E-161	4.4819E-172	2.9200E-07	1.8250E-08
Benzo(a)anthracene	9.9224E-05	7.1819E-05	5.1983E-05	3.7626E-05	2.7234E-05	1.9712E-05	1.4268E-05	1.0327E-05	7.4749E-06	5.4104E-06	3.9161E-06	2.8345E-06	2.0516E-06	1.4850E-06	1.0748E-06	7.7799E-07	9.9224E-05	2.2326E-05
Benzo(a)pyrene	3.4094E-05	2.2144E-05	1.4383E-05	9.3415E-06	6.0673E-06	3.9407E-06	2.5595E-06	1.6624E-06	1.0797E-06	7.0127E-07	4.5548E-07	2.9583E-07	1.9214E-07	1.2480E-07	8.1055E-08	5.2645E-08	3.4094E-05	6.0735E-06
Benzo(b)fluoranthene	1.8606E-05	1.4331E-05	1.1038E-05	8.5016E-06	6.5481E-06	5.0435E-06	3.8847E-06	2.9921E-06	2.3046E-06	1.7750E-06	1.3672E-06	1.0530E-06	8.1107E-07	6.2471E-07	4.8117E-07	3.7061E-07	1.8606E-05	4.9832E-06
Benzo(g,h,i)perylene	3.6997E-06	3.0174E-06	2.4609E-06	2.0070E-06	1.6369E-06	1.3350E-06	1.0888E-06	8.8798E-07	7.2421E-07	5.9064E-07	4.8171E-07	3.9287E-07	3.2041E-07	2.6132E-07	2.1312E-07	1.7382E-07	3.6997E-06	1.2057E-06
Benzo(k)fluoranthene	3.0239E-01	2.7830E-01	2.5229E-01	2.2871E-01	2.0733E-01	1.8795E-01	1.7038E-01	1.5445E-01	1.4002E-01	1.2693E-01	1.1506E-01	1.0431E-01	9.4558E-02	8.5719E-02	7.7707E-02	7.0443E-02	3.0239E-01	1.6228E-01
Benzoic acid	1.1617E-01	2.3364E-17	4.6398E-33	9.2142E-49	1.8299E-64	3.6339E-80	7.2166E-96	1.4332E-111	2.8461E-127	5.6521E-143	1.1225E-158	2.2291E-174	4.4267E-190	8.7911E-206	1.7458E-221	3.4671E-237	1.1617E-01	7.2608E-03
bis(2-Chloroethoxy)methane	4.5508E-02	4.5508E-02	4.5339E-02	4.5172E-02	4.5005E-02	4.4839E-02	4.4673E-02	4.4508E-02	4.4344E-02	4.4180E-02	4.4017E-02	4.3855E-02	4.3693E-02	4.3531E-02	4.3371E-02	4.3211E-02	4.5508E-02	4.4422E-02

Table C.4 Model output leachate.

ICDF Leachage Concentration (mg/L or pCi/L)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Peak Leachate Concentration	Average Leachate Concentration
bis(2-Chloroethyl)ether	5.3538E-02	1.6095E-02	4.8175E-03	1.4420E-03	4.3161E-04	1.2919E-04	3.8668E-05	1.1574E-05	3.4643E-06	1.0369E-06	3.1037E-07	9.2901E-08	2.7807E-08	8.3231E-09	2.4913E-09	7.4568E-10	5.3538E-02	4.7818E-03
bis(2-Chloroisopropyl)ether	3.0137E-07	8.3980E-08	2.3402E-08	6.5211E-09	1.8171E-09	5.0636E-10	1.4110E-10	3.9319E-11	1.0957E-11	3.0531E-12	8.5078E-13	2.3708E-13	6.6063E-14	1.8409E-14	5.1298E-15	1.4295E-15	3.0137E-07	2.6112E-08
bis(2-Ethylhexyl)phthalate	5.7140E-01	1.6076E-01	4.5068E-02	1.2634E-02	3.5419E-03	9.9292E-04	2.7835E-04	7.8034E-05	2.1876E-05	6.1327E-06	1.7192E-06	4.8197E-07	1.3511E-07	3.7878E-08	1.0619E-08	2.9768E-09	5.7140E-01	4.9674E-02
Butane,1,1,3,4-Tetrachloro-	5.4854E-05	6.0102E-07	6.5851E-09	7.2151E-11	7.9053E-13	8.6615E-15	9.4901E-17	1.0398E-18	1.1393E-20	1.2483E-22	1.3677E-24	1.4985E-26	1.6418E-28	1.7989E-30	1.9710E-32	2.1596E-34	5.4854E-05	3.4663E-06
Butylbenzylphthalate	7.9564E-03	4.9350E-04	3.0606E-05	1.8982E-06	1.1772E-07	7.3011E-09	4.5281E-10	2.8083E-11	1.7417E-12	1.0802E-13	6.6990E-15	4.1547E-16	2.5767E-17	1.5980E-18	9.9109E-20	6.1466E-21	7.9564E-03	5.3016E-04
Carbazole	1.8563E-01	1.8563E-01	1.8465E-01	1.8367E-01	1.8269E-01	1.8173E-01	1.8076E-01	1.7981E-01	1.7885E-01	1.7791E-01	1.7696E-01	1.7603E-01	1.7509E-01	1.7416E-01	1.7324E-01	1.7232E-01	1.8563E-01	1.7932E-01
Carbon Disulfide	7.3433E-02	4.1234E-75	2.3119E-148	1.2963E-221	7.2681E-295	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.3433E-02	4.5895E-03
Chlorobenzene	6.7916E-02	2.1279E-02	6.6034E-03	2.0492E-03	6.3593E-04	1.9734E-04	6.1241E-05	1.9005E-05	5.8976E-06	1.8302E-06	5.6796E-07	1.7625E-07	5.4695E-08	1.6973E-08	5.2673E-09	1.6346E-09	6.7916E-02	6.1731E-03
Chloroethane	2.0451E-05	2.7144E-73	3.5803E-141	4.7223E-209	6.2287E-277	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0451E-05	1.2782E-06
Chloromethane	3.5450E-07	3.5450E-07	3.5450E-07	3.5450E-07	3.5450E-07	3.5450E-07	3.5450E-07	3.5450E-07	3.5449E-07	3.5449E-07	3.5449E-07	3.5449E-07	3.5449E-07	3.5449E-07	3.5449E-07	3.5449E-07	3.5450E-07	3.5449E-07
Chrysene	4.4199E+00	3.6758E+00	3.0099E+00	2.4647E+00	2.0182E+00	1.6526E+00	1.3532E+00	1.1081E+00	9.0737E-01	7.4300E-01	6.0841E-01	4.9820E-01	4.0795E-01	3.3405E-01	2.7354E-01	2.2398E-01	4.4199E+00	1.4812E+00
Decane, 3,4-Dimethyl	4.0856E-04	4.0856E-04	4.0760E-04	4.0665E-04	4.0570E-04	4.0475E-04	4.0380E-04	4.0286E-04	4.0192E-04	4.0098E-04	4.0004E-04	3.9911E-04	3.9818E-04	3.9724E-04	3.9632E-04	3.9539E-04	4.0856E-04	4.0235E-04
Diacetone alcohol	4.5478E-04	6.4495E-12	9.1462E-20	1.2971E-27	1.8394E-35	2.6085E-43	3.6992E-51	5.2460E-59	7.4396E-67	1.0550E-74	1.4962E-82	2.1218E-90	3.0090E-98	4.2672E-106	6.0514E-114	8.5817E-122	4.5478E-04	2.8424E-05
Dibenz(a,h)anthracene	5.8463E-04	4.8133E-04	3.9626E-04	3.2623E-04	2.6857E-04	2.2110E-04	1.8203E-04	1.4986E-04	1.2337E-04	1.0157E-04	8.3616E-05	6.8838E-05	5.6672E-05	4.6656E-05	3.8410E-05	3.1622E-05	5.8463E-04	1.9755E-04
Dibenzofuran	4.1559E-01	3.5275E-06	2.9906E-11	2.5354E-16	2.1495E-21	1.8223E-26	1.5449E-31	1.3098E-36	1.1104E-41	9.4140E-47	7.9811E-52	6.7663E-57	5.7364E-62	4.8633E-67	4.1230E-72	3.4955E-77	4.1559E-01	2.5975E-02
Diethylphthalate	1.8971E-01	2.6048E-03	3.5216E-05	4.7610E-07	6.4367E-09	8.7021E-11	1.1765E-12	1.5905E-14	2.1503E-16	2.9072E-18	3.9303E-20	5.3136E-22	7.1838E-24	9.7122E-26	1.3130E-27	1.7752E-29	1.8971E-01	1.2022E-02
Dimethyl Disulfide	1.2733E-02	1.2733E-02	1.2683E-02	1.2632E-02	1.2582E-02	1.2532E-02	1.2482E-02	1.2433E-02	1.2383E-02	1.2334E-02	1.2285E-02	1.2236E-02	1.2188E-02	1.2139E-02	1.2091E-02	1.2043E-02	1.2733E-02	1.2407E-02
Dimethylphthalate	1.3415E-04	2.4722E-18	4.5560E-32	8.3963E-46	1.5473E-59	2.8516E-73	5.2552E-87	9.6848E-101	1.7848E-114	3.2892E-128	6.0618E-142	1.1171E-155	2.0587E-169	3.7941E-183	6.9921E-197	1.2886E-210	1.3415E-04	8.3841E-06
Di-n-butylphthalate	1.1467E-07	2.8667E-08	7.1667E-09	1.7917E-09	4.4792E-10	1.1198E-10	2.7995E-11	6.9987E-12	1.7497E-12	4.3742E-13	1.0936E-13	2.7339E-14	6.8347E-15	1.7087E-15	4.2717E-16	1.0679E-16	1.1467E-07	9.5556E-09
Di-n-octylphthalate	4.3698E-01	1.1499E-01	2.9791E-02	7.7185E-03	1.9998E-03	5.1811E-04	1.3424E-04	3.4779E-05	9.0108E-06	2.3346E-06	6.0486E-07	1.5671E-07	4.0602E-08	1.0519E-08	2.7254E-09	7.0612E-10	4.3698E-01	3.7011E-02
Eicosane	4.7196E-02	3.0699E-06	1.9661E-10	1.2592E-14	8.0641E-19	5.1646E-23	3.3076E-27	2.1183E-31	1.3567E-35	8.6886E-40	5.5645E-44	3.5638E-48	2.2824E-52	1.4617E-56	9.3615E-61	5.9955E-65	4.7196E-02	2.9500E-03
Ethyl cyanide	3.2984E-05	3.2984E-05	3.2931E-05	3.2878E-05	3.2824E-05	3.2771E-05	3.2718E-05	3.2665E-05	3.2612E-05	3.2559E-05	3.2507E-05	3.2454E-05	3.2401E-05	3.2349E-05	3.2297E-05	3.2244E-05	3.2984E-05	3.2636E-05
Ethylbenzene	7.0498E-02	8.1109E-03	9.3239E-04	1.0718E-04	1.2321E-05	1.4164E-06	1.6282E-07	1.8717E-08	2.1516E-09	2.4733E-10	2.8432E-11	3.2684E-12	3.7572E-13	4.3191E-14	4.9650E-15	5.7075E-16	7.0498E-02	4.9789E-03
Famphur	2.1719E-07	2.4066E-08	2.6666E-09	2.9547E-10	3.2739E-11	3.6277E-12	4.0196E-13	4.4539E-14	4.9351E-15	5.4682E-16	6.0590E-17	6.7136E-18	7.4390E-19	8.2427E-20	9.1332E-21	1.0120E-21	2.1719E-07	1.5266E-08
Fluoranthene	2.2061E-02	1.4305E-02	9.2754E-03	6.0142E-03	3.8996E-03	2.5285E-03	1.6395E-03	1.0631E-03	6.8929E-04	4.4694E-04	2.8980E-04	1.8790E-04	1.2184E-04	7.9000E-05	5.1224E-05	3.3214E-05	2.2061E-02	3.9179E-
Fluorene	3.0594E+00	1.9558E-01	1.2311E-02-	7.7492E-04	4.8777E-05	3.0703E-06	1.9326E-07	1.2165E-08	7.6572E-10	4.8198E-11	3.0338E-12	1.9096E-13	1.2020E-14	7.5662E-16	4.7626E-17	2.9978E-18	3.0594E+00	2.0426E-
Heptadecane, 2,6,10,15-Tetra	2.4997E-05	2.4997E-05	2.4997E-05	2.4997E-05	2.4996E-05	2.4996E-05	2.4996E-05	2.4996E-05	2.4996E-05	2.4996E-05	2.4995E-05	2.4995E-05	2.4995E-05	2.4995E-05	2.4995E-05	2.4995E-05	2.4997E-05	2.4996E-05
Hexachlorobenzene	8.4706E-05	7.7958E-05	7.1748E-05	6.6032E-05	6.0771E-05	5.5930E-05	5.1474E-05	4.7374E-05	4.3600E-05	4.0126E-05	3.6929E-05	3.3987E-05	3.1280E-05	2.8788E-05	2.6494E-05	2.4384E-05	8.4706E-05	4.8849E-05
Hexachlorobutadiene	4.1358E-05	1.2255E-05	3.6312E-06	1.0760E-06	3.1883E-07	9.4472E-08	2.7993E-08	8.2947E-09	2.4578E-09	7.2828E-10	2.1580E-10	6.3944E-11	1.8947E-11	5.6143E-12	1.6636E-12	4.9294E-13	4.1358E-05	3.6733E-06
Hexachlorocyclopentadiene	2.5226E-03	8.4182E-07	2.8087E-10	9.3709E-14	3.1266E-17	1.0432E-20	3.4804E-24	1.1612E-27	3.8743E-31	1.2926E-34	4.3128E-38	1.4389E-41	4.8009E-45	1.6018E-48	5.3443E-52	1.7831E-55	2.5226E-03	1.5771E-04
Hexachloroethane	1.3114E-06	3.8860E-07	1.1515E-07	3.4119E-08	1.0110E-08	2.9957E-09	8.8767E-10	2.6303E-10	7.7939E-11	2.3094E-11	6.8431E-12	2.0277E-12	6.0083E-13	1.7803E-13	5.2754E-14	1.5632E-14	1.3114E-06	1.1648E-07
Indeno(1,2,3-cd)pyrene	1.5855E-01	1.3108E-01	1.0698E-01	8.7312E-02	7.1259E-02	5.8157E-02	4.7464E-02	3.8737E-02	3.1615E-02	2.5802E-02	2.1058E-02	1.7186E-02	1.4026E-02	1.1447E-02	9.3426E-03	7.6248E-03	1.5855E-01	5.2353E-02
Isobutyl alcohol	1.0622E-04	6.5731E-17	4.0463E-29	2.4909E-41	1.5333E-53	9.4391E-66	5.8106E-78	3.5769E-90	2.2019E-102	1.3555E-114	8.3441E-127	5.1366E-139	3.1620E-151	1.9465E-163	1.1982E-175	7.3762E-188	1.0622E-04	6.6388E-06
Isophorone	1.8287E-01	1.3268E-04	9.4846E-08	6.7798E-11	4.8463E-14	3.4642E-17	2.4763E-20	1.7701E-23	1.2653E-26	9.0447E-30	6.4653E-33	4.6216E-36	3.3036E-39	2.3615E-42	1.6880E-45	1.2066E-48	1.8287E-01	1.1437E-02
Isopropyl Alcohol/2-propanol	1.5424E-05	1.5139E-19	1.4860E-33	1.4586E-47	1.4316E-61	1.4052E-75	1.3793E-89	1.3538E-103	1.3288E-117	1.3043E-131	1.2802E-145	1.2566E-159	1.2334E-173	1.2106E-187	1.1883E-201	1.1663E-215	1.5424E-05	9.6399E-07
Kepone	2.5114E-01	1.9654E-01	1.5345E-01	1.1980E-01	9.3538E-02	7.3030E-02	5.7019E-02	4.4518E-02	3.4757E-02	2.7137E-02	2.1187E-02	1.6542E-02	1.2915E-02	1.0084E-02	7.8729E-03	6.1468E-03	2.5114E-01	7.0354E-02
Mesityl oxide	1.2939E+00	1.8349E-08	2.5655E-16	3.5870E-24	5.0151E-32	7.0119E-40	9.8037E-48	1.3707E-55	1.9164E-63	2.6795E-71	3.7463E-79	5.2379E-87	7.3233E-95	1.0239E-102	1.4316E-110	2.0016E-118	1.2939E+00	8.0869E-02
Methyl Acetate	5.6958E-03	5.6958E-03	5.6339E-03	5.5727E-03	5.5122E-03	5.4523E-03	5.3931E-03	5.3345E-03	5.2766E-03	5.2193E-03	5.1626E-03	5.1065E-03	5.0511E-03	4.9962E-03	4.9419E-03	4.8883E-03	5.6958E-03	5.3083E-03
Methylene Chloride	1.6525E-02	2.9849E-111	5.3907E-220	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6525E-02	1.0328E-03
Naphthalene	1.9193E+00	2.7207E-01	3.8407E-02	5.4217E-03	7.6534E-04	1.0804E-04	1.5251E-05	2.1529E-06	3.0391E-07	4.2901E-08	6.0561E-09	8.5490E-10	1.2068E-10	1.7036E-11	2.4048E-12	3.3948E-13	1.9193E+00	1.3976E-01
Nitrobenzene	9.4807E-02	2.6436E-02	7.3146E-03	2.0239E-03	5.6000E-04	1.5495E-04	4.2872E-05	1.1862E-05	3.2823E-06	9.0817E-07	2.5128E-07	6.9529E-08	1.9238E-08	5.3230E-09	1.4728E-09	4.0752E-10	9.4807E-02	8.2097E-03
N-Nitroso-di-n-propylamine	3.4633E-03	9.9898E-04	2.8807E-04	8.3071E-05	2.3955E-05	6.9079E-06	1.9920E-06	5.7443E-07	1.6565E-07	4.7768E-08	1.3775E-08	3.9722E-09	1.1454E-09	3.3031E-10	9.5251E-11	2.7467E-11	3.4633E-03	3.0419E-04
N-Nitrosodiphenylamine	1.8961E-01	6.0352E-04	1.8914E-06	5.9274E-09	1.8576E-11	5.8215E-14	1.8244E-16	5.7174E-19	1.7918E-21	5.6153E-24	1.7598E-26	5.5150E-29	1.7283E-31	5.4164E-34	1.6975E-36	5.3197E-39	1.8961E-01	1.1889E-02
Octane,2,3,7-Trimethyl	2.6897E-03	2.6897E-03	2.6483E-03	2.6075E-03	2.5674E-03	2.5279E-03	2.4890E-03	2.4507E-03	2.4130E-03	2.3759E-03	2.3393E-03	2.3033E-03	2.2679E-03	2.2330E-03	2.1986E-03	2.1648E-03	2.6897E-03	2.4354E-03
o-Toluenesulfonamide	3.2836E-03	3.2836E-03	3.2816E-03	3.2797E-03	3.2777E-03	3.2757E-03	3.2738E-03	3.2718E-03	3.2698E-03	3.2679E-03	3.2659E-03	3.2640E-03	3.2620E-03	3.2601E-03	3.2581E-03	3.2561E-03	3.2836E-03	3.2707E-03
Pentachlorophenol	4.6313E-03	3.3526E-03	2.4267E-03	1.7565E-03	1.2714E-03	9.2031E-04	6.6615E-04	4.8219E-04	3.4902E-04	2.5264E-04	1.8287E-04	1.3237E-04	9.5811E-05	6.9351E-05	5.0199E-05	3.6336E-05	4.6313E-03	1.0422E-03
Phenanthrene	8.8500E+00	2.7543E+00	8.5123E-01	2.6307E-01	8.1302E-02	2.5126E-02	7.7652E-03	2.3998E-03	7.4167E-04	2.2921E-04	7.0837E-05	2.1892E-05	6.7658E-06	2.0910E-06	6.4621E-07	1.9971E-07	8.8500E+00	8.0227E-01
Phenol	1.3696E-01	6.8604E-31	3.4309E-60	1.7158E-89	8.5807E-119	4.2912E-148	2.1460E-177	1.0732E-206	5.3673E-236	2.6842E-265	1.3424E-294	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3696E-01	8.5601E-03
Phenol,2,6-Bis(1,1-Dimethyl)	6.7423E-02	1.2426E-15	2.2547E-29	4.0913E-43	7.4239E-57	1.3471E-70	2.4444E-84	4.4356E-98	8.0486E-112	1.4605E-125	2.6501E-139	4.8088E-153	8.7259E-167	1.5834E-180	2.8731E-194	5.2135E-208	6.7423E-02	4.2140E-03
p-Toluenesulfonamide	1.9259E-05	1.9259E-05	1.9259E-05	1.9259E-05	1.9259E-05	1.9259E-05	1.9259E-05	1.9259E-05	1.9259E-05	1.9259E-05	1.9259E-05	1.9259E-05	1.9259E-05	1.9259E-05	1.9259E-05	1.9258E-05	1.9259E-05	1.9259E-05
Pyrene	3.2501E+00	2.8825E+00	2.5262E+00	2.2140E+00	1.9403E+00	1.7005E+00	1.4903E+00	1.3061E+00	1.1446E+00	1.0031E+00	8.7913E-01	7.7047E-01	6.7523E-01	5.9176E-01	5.1862E-01	4.5451E-01	3.2501E+00	1.4592E

Table C.4 Model output leachate.

ICDF Leachage Concentration (mg/L or pCi/L)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Peak Leachate Concentration	Average Leachate Concentration
RDX	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Styrene	1.4194E-06	1.4920E-07	1.5662E-08	1.6442E-09	1.7260E-10	1.8119E-11	1.9021E-12	1.9968E-13	2.0962E-14	2.2006E-15	2.3101E-16	2.4251E-17	2.5458E-18	2.6725E-19	2.8056E-20	2.9452E-21	1.4194E-06	9.9130E-08
Tetrachloroethene	2.3503E-02	1.4711E-02	9.1876E-03	5.7379E-03	3.5834E-03	2.2379E-03	1.3976E-03	8.7285E-04	5.4511E-04	3.4043E-04	2.1261E-04	1.3278E-04	8.2923E-05	5.1787E-05	3.2342E-05	2.0198E-05	2.3503E-02	3.9156E-03
Toluene	1.6367E+01	8.6165E-06	4.4666E-12	2.3153E-18	1.2002E-24	6.2215E-31	3.2250E-37	1.6718E-43	8.6659E-50	4.4921E-56	2.3286E-62	1.2071E-68	6.2571E-75	3.2435E-81	1.6813E-87	8.7156E-94	1.6367E+01	1.0229E+00
Tributylphosphate	1.2292E+00	6.7625E-01	3.7088E-01	2.0341E-01	1.1156E-01	6.1184E-02	3.3556E-02	1.8404E-02	1.0093E-02	5.5357E-03	3.0360E-03	1.6651E-03	9.1322E-04	5.0085E-04	2.7469E-04	1.5065E-04	1.2292E+00	1.7041E-01
Trichloroethene	1.1526E+00	8.9196E-01	6.8008E-01	5.1853E-01	3.9536E-01	3.0144E-01	2.2984E-01	1.7524E-01	1.3361E-01	1.0187E-01	7.7674E-02	5.9223E-02	4.5155E-02	3.4428E-02	2.6250E-02	2.0015E-02	1.1526E+00	3.0270E-01
Trinitrotoluene	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Undecane,4,6-Dimethyl-	2.9342E-04	2.9342E-04	2.9293E-04	2.9243E-04	2.9194E-04	2.9145E-04	2.9096E-04	2.9048E-04	2.8999E-04	2.8950E-04	2.8902E-04	2.8853E-04	2.8805E-04	2.8756E-04	2.8708E-04	2.8660E-04	2.9342E-04	2.9021E-04
Xylene (ortho)	7.0596E-03	1.8248E-03	4.7088E-04	1.2151E-04	3.1355E-05	8.0910E-06	2.0879E-06	5.3876E-07	1.3903E-07	3.5875E-08	9.2575E-09	2.3889E-09	6.1644E-10	1.5907E-10	4.1048E-11	1.0592E-11	7.0596E-03	5.9494E-04
Xylene (total)	6.2805E+00	1.6234E+00	4.1891E-01	1.0810E-01	2.7894E-02	7.1981E-03	1.8574E-03	4.7931E-04	1.2368E-04	3.1916E-05	8.2358E-06	2.1252E-06	5.4841E-07	1.4152E-07	3.6518E-08	9.4232E-09	6.2805E+00	5.2928E-01
RADIONUCLIDES (mg/L)																		
Ac225	1.9607E-21	2.0175E-32	2.0760E-43	2.1361E-54	2.1980E-65	2.2617E-76	2.3272E-87	2.3947E-98	2.4640E-109	2.5354E-120	2.6089E-131	2.6845E-142	2.7623E-153	2.8423E-164	2.9246E-175	3.0094E-186	1.9607E-21	1.2254E-22
Ac227	6.2822E-16	6.0856E-16	5.8951E-16	5.7106E-16	5.5319E-16	5.3588E-16	5.1910E-16	5.0286E-16	4.8712E-16	4.7187E-16	4.5711E-16	4.4280E-16	4.2894E-16	4.1552E-16	4.0251E-16	3.8991E-16	6.2822E-16	5.0026E-16
Ac228	1.5090E-25	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5090E-25	9.4312E-27
Ag106	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ag108	5.5785E-26	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.5785E-26	3.4865E-27
Ag108m	3.4003E-10	3.3818E-10	3.3634E-10	3.3450E-10	3.3268E-10	3.3086E-10	3.2906E-10	3.2727E-10	3.2548E-10	3.2371E-10	3.2194E-10	3.2019E-10	3.1844E-10	3.1670E-10	3.1498E-10	3.1326E-10	3.4003E-10	3.2648E-10
Ag109m	2.0867E-29	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0867E-29	1.3042E-30
Ag110	1.3774E-28	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3774E-28	8.6089E-30
Ag110m	1.2956E-20	4.7094E-21	1.7118E-21	6.2223E-22	2.2617E-22	8.2212E-23	2.9883E-23	1.0862E-23	3.9483E-24	1.4352E-24	5.2167E-25	1.8962E-25	6.8925E-26	2.5053E-26	9.1067E-27	3.3102E-27	1.2956E-20	1.2722E-21
Ag111	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Am241	2.0398E-08	2.0366E-08	2.0333E-08	2.0300E-08	2.0268E-08	2.0235E-08	2.0203E-08	2.0170E-08	2.0138E-08	2.0105E-08	2.0073E-08	2.0041E-08	2.0009E-08	1.9976E-08	1.9944E-08	1.9912E-08	2.0398E-08	2.0154E-08
Am242	1.6468E-19	2.5277E-184	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6468E-19	1.0293E-20
Am242m	1.3664E-14	1.3602E-14	1.3540E-14	1.3478E-14	1.3417E-14	1.3356E-14	1.3295E-14	1.3234E-14	1.3174E-14	1.3114E-14	1.3054E-14	1.2995E-14	1.2936E-14	1.2877E-14	1.2818E-14	1.2760E-14	1.3664E-14	1.3207E-14
Am243	4.9244E-12	4.9239E-12	4.9235E-12	4.9230E-12	4.9225E-12	4.9220E-12	4.9216E-12	4.9211E-12	4.9206E-12	4.9201E-12	4.9197E-12	4.9192E-12	4.9187E-12	4.9182E-12	4.9178E-12	4.9173E-12	4.9244E-12	4.9209E-12
Am245	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Am246	2.0743E-41	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0743E-41	1.2965E-42
At217	5.3023E-25	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.3023E-25	3.3139E-26
Ba136m	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ba137m	8.5715E-13	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5715E-13	5.3572E-14
Ba140	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Be 10	1.9429E-13	1.9429E-13	1.9429E-13	1.9429E-13	1.9429E-13	1.9429E-13	1.9429E-13	1.9429E-13	1.9429E-13	1.9429E-13	1.9429E-13	1.9428E-13	1.9428E-13	1.9428E-13	1.9428E-13	1.9428E-13	1.9429E-13	1.9429E-13
Bi210	8.7934E-20	1.0300E-41	1.2064E-63	1.4131E-85	1.6552E-107	1.9387E-129	2.2708E-151	2.6598E-173	3.1154E-195	3.6491E-217	4.2742E-239	5.0063E-261	5.8639E-283	6.8684E-305	0.0000E+00	0.0000E+00	8.7934E-20	5.4959E-21
Bi211	4.3934E-22	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3934E-22	2.7459E-23
Bi212	3.7749E-19	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.7749E-19	2.3593E-20
Bi213	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Bi214	1.2719E-21	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2719E-21	7.9491E-23
Bk249	3.2915E-34	1.4929E-34	6.7713E-35	3.0712E-35	1.3930E-35	6.3181E-36	2.8656E-36	1.2998E-36	5.8952E-37	2.6738E-37	1.2128E-37	5.5006E-38	2.4949E-38	1.1316E-38	5.1324E-39	2.3279E-39	3.2915E-34	3.7647E-35
Bk250	4.9777E-42	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9777E-42	3.1111E-43
C 14	2.0434E-12	2.0431E-12	2.0425E-12	2.0419E-12	2.0413E-12	2.0407E-12	2.0400E-12	2.0394E-12	2.0388E-12	2.0382E-12	2.0376E-12	2.0370E-12	2.0363E-12	2.0357E-12	2.0351E-12	2.0345E-12	2.0434E-12	2.0391E-12
Cd109	3.1395E-22	1.8199E-22	1.0548E-22	6.1140E-23	3.5437E-23	2.0539E-23	1.1905E-23	6.9000E-24	3.9993E-24	2.3180E-24	1.3435E-24	7.7872E-25	4.5135E-25	2.6160E-25	1.5163E-25	8.7884E-26	3.1395E-22	4.6671E-23
Cd113m	1.1476E-09	1.0905E-09	1.0362E-09	9.8455E-10	9.3548E-10	8.8886E-10	8.4457E-10	8.0248E-10	7.6249E-10	7.2449E-10	6.8838E-10	6.5408E-10	6.2148E-10	5.9051E-10	5.6108E-10	5.3312E-10	1.1476E-09	8.0411E-10
Cd115m	2.7547E-65	9.4731E-68	3.2572E-70	1.1199E-72	3.8507E-75	1.3240E-77	4.5523E-80	1.5652E-82	5.3818E-85	1.8504E-87	6.3624E-90	2.1876E-92	7.5217E-95	2.5862E-97	8.8922E-100	3.0574E-102	2.7547E-65	1.7276E-66
Ce141	1.2656E-84	5.2664E-88	2.1913E-91	9.1183E-95	3.7941E-98	1.5788E-101	6.5692E-105	2.7335E-108	1.1374E-111	4.7328E-115	1.9693E-118	8.1944E-122	3.4097E-125	1.4188E-128	5.9036E-132	2.4565E-135	1.2656E-84	7.9135E-86
Ce142	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ce144	1.1304E-15	4.6380E-16	1.9030E-16	7.8083E-17	3.2038E-17	1.3146E-17	5.3938E-18	2.2131E-18	9.0806E-19	3.7259E-19	1.5288E-19	6.2727E-20	2.5737E-20	1.0560E-20	4.3330E-21	1.7779E-21	1.1304E-15	1.1981E-16
Cf249	1.9757E-25	1.9718E-25	1.9679E-25	1.9640E-25	1.9602E-25	1.9563E-25	1.9524E-25	1.9486E-25	1.9447E-25	1.9409E-25	1.9371E-25	1.9332E-25	1.9294E-25	1.9256E-25	1.9218E-25	1.9180E-25	1.9757E-25	1.9467E-25
Cf250	3.7831E-27	3.5881E-27	3.4032E-27	3.2278E-27	3.0614E-27	2.9037E-27	2.7540E-27	2.6121E-27	2.4775E-27	2.3498E-27	2.2287E-27	2.1138E-27	2.0049E-27	1.9015E-27	1.8035E-27	1.7106E-27	3.7831E-27	2.6202E-27
Cf251	1.1759E-27	1.1750E-27	1.1740E-27	1.1731E-27	1.1722E-27	1.1713E-27	1.1704E-27	1.1695E-27	1.1686E-27	1.1677E-27	1.1668E-27	1.1659E-27	1.1650E-27	1.1641E-27	1.1632E-27	1.1623E-27	1.1759E-27	1.1691E-27

Table C.4 Model output leachate.

ICDF Leachage Concentration (mg/L or pCi/L)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Peak Leachate Concentration	Average Leachate Concentration
Cf252	8.1809E-32	6.2918E-32	4.8389E-32	3.7215E-32	2.8621E-32	2.2012E-32	1.6929E-32	1.3020E-32	1.0013E-32	7.7011E-33	5.9228E-33	4.5551E-33	3.5033E-33	2.6943E-33	2.0721E-33	1.5936E-33	8.1809E-32	2.1811E-32
Cm241	1.9619E-94	8.7659E-98	3.9167E-101	1.7500E-104	7.8192E-108	3.4937E-111	1.5610E-114	6.9749E-118	3.1164E-121	1.3925E-124	6.2217E-128	2.7799E-131	1.2421E-134	5.5498E-138	2.4797E-141	1.1080E-144	1.9619E-94	1.2267E-95
Cm242	4.0735E-30	8.6274E-31	1.8272E-31	3.8700E-32	8.1964E-33	1.7360E-33	3.6766E-34	7.7869E-35	1.6492E-35	3.4930E-36	7.3979E-37	1.5668E-37	3.3185E-38	7.0283E-39	1.4886E-39	3.1527E-40	4.0735E-30	3.2300E-31
Cm243	1.7198E-17	1.6785E-17	1.6382E-17	1.5988E-17	1.5604E-17	1.5229E-17	1.4863E-17	1.4506E-17	1.4157E-17	1.3817E-17	1.3485E-17	1.3161E-17	1.2845E-17	1.2536E-17	1.2235E-17	1.1941E-17	1.7198E-17	1.4421E-17
Cm244	5.5676E-15	5.3584E-15	5.1571E-15	4.9633E-15	4.7768E-15	4.5974E-15	4.4246E-15	4.2584E-15	4.0984E-15	3.9444E-15	3.7962E-15	3.6536E-15	3.5163E-15	3.3842E-15	3.2570E-15	3.1347E-15	5.5676E-15	4.2430E-15
Cm245	1.1676E-16	1.1675E-16	1.1674E-16	1.1673E-16	1.1672E-16	1.1671E-16	1.1670E-16	1.1669E-16	1.1668E-16	1.1667E-16	1.1666E-16	1.1665E-16	1.1664E-16	1.1663E-16	1.1662E-16	1.1661E-16	1.1676E-16	1.1668E-16
Cm246	1.4558E-18	1.4556E-18	1.4554E-18	1.4552E-18	1.4550E-18	1.4548E-18	1.4546E-18	1.4544E-18	1.4541E-18	1.4539E-18	1.4537E-18	1.4535E-18	1.4533E-18	1.4531E-18	1.4529E-18	1.4526E-18	1.4558E-18	1.4542E-18
Cm247	1.7209E-21	1.7209E-21	1.7209E-21	1.7209E-21	1.7209E-21	1.7209E-21	1.7209E-21	1.7209E-21	1.7209E-21	1.7209E-21	1.7209E-21	1.7209E-21	1.7209E-21	1.7209E-21	1.7209E-21	1.7209E-21	1.7209E-21	1.7209E-21
Cm248	1.1478E-23	1.1478E-23	1.1478E-23	1.1478E-23	1.1478E-23	1.1478E-23	1.1478E-23	1.1478E-23	1.1478E-23	1.1478E-23	1.1478E-23	1.1478E-23	1.1477E-23	1.1477E-23	1.1477E-23	1.1477E-23	1.1478E-23	1.1478E-23
Cm250	9.3715E-34	9.3709E-34	9.3702E-34	9.3695E-34	9.3689E-34	9.3682E-34	9.3675E-34	9.3668E-34	9.3662E-34	9.3655E-34	9.3648E-34	9.3642E-34	9.3635E-34	9.3628E-34	9.3621E-34	9.3615E-34	9.3715E-34	9.3665E-34
Co-57	4.3362E-14	1.7047E-14	6.7015E-15	2.6344E-15	1.0356E-15	4.0711E-16	1.6004E-16	6.2913E-17	2.4732E-17	9.7223E-18	3.8219E-18	1.5024E-18	5.9062E-19	2.3218E-19	9.1272E-20	3.5880E-20	4.3362E-14	4.4657E-15
Co-58	1.8351E-28	5.1492E-30	1.4447E-31	4.0534E-33	1.1373E-34	3.1908E-36	8.9525E-38	2.5118E-39	7.0473E-41	1.9773E-42	5.5476E-44	1.5565E-45	4.3670E-47	1.2252E-48	3.4377E-50	9.6450E-52	1.8351E-28	1.1801E-29
Co-60	1.6969E-08	1.4878E-08	1.3043E-08	1.1434E-08	1.0024E-08	8.7881E-09	7.7043E-09	6.7541E-09	5.9212E-09	5.1910E-09	4.5508E-09	3.9896E-09	3.4976E-09	3.0662E-09	2.6881E-09	2.3566E-09	1.6969E-08	7.5535E-09
Cr-51	8.2771E-67	8.9380E-71	9.6513E-75	1.0422E-78	1.1253E-82	1.2151E-86	1.3121E-90	1.4168E-94	1.5299E-98	1.6520E-102	1.7838E-106	1.9262E-110	2.0799E-114	2.2459E-118	2.4251E-122	2.6187E-126	8.2771E-67	5.1738E-68
Cs132	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Cs134	1.7288E-11	1.2348E-11	8.8201E-12	6.3000E-12	4.5000E-12	3.2142E-12	2.2959E-12	1.6399E-12	1.1713E-12	8.3666E-13	5.9761E-13	4.2686E-13	3.0490E-13	2.1778E-13	1.5556E-13	1.1111E-13	1.7288E-11	3.7642E-12
Cs135	6.2107E-08	6.2107E-08	6.2107E-08	6.2106E-08	6.2106E-08	6.2106E-08	6.2106E-08	6.2106E-08	6.2106E-08	6.2106E-08	6.2105E-08	6.2105E-08	6.2105E-08	6.2105E-08	6.2105E-08	6.2105E-08	6.2107E-08	6.2106E-08
Cs136	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Cs137	5.6088E-07	5.4807E-07	5.3555E-07	5.2332E-07	5.1137E-07	4.9969E-07	4.8827E-07	4.7712E-07	4.6622E-07	4.5557E-07	4.4517E-07	4.3500E-07	4.2506E-07	4.1535E-07	4.0586E-07	3.9659E-07	5.6088E-07	4.7432E-07
Er169	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Eu150	3.0662E-23	1.5815E-232	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0662E-23	1.9164E-24
Eu152	1.6068E-08	1.5252E-08	1.4477E-08	1.3742E-08	1.3044E-08	1.2382E-08	1.1753E-08	1.1156E-08	1.0589E-08	1.0052E-08	9.5412E-09	9.0567E-09	8.5968E-09	8.1602E-09	7.7458E-09	7.3524E-09	1.6068E-08	1.1185E-08
Eu154	9.1379E-09	8.4457E-09	7.8060E-09	7.2147E-09	6.6682E-09	6.1631E-09	5.6963E-09	5.2648E-09	4.8660E-09	4.4974E-09	4.1568E-09	3.8419E-09	3.5509E-09	3.2819E-09	3.0333E-09	2.8036E-09	9.1379E-09	5.4018E-09
Eu155	1.1142E-09	9.6888E-10	8.4252E-10	7.3263E-10	6.3708E-10	5.5399E-10	4.8173E-10	4.1890E-10	3.6427E-10	3.1676E-10	2.7545E-10	2.3952E-10	2.0828E-10	1.8112E-10	1.5749E-10	1.3695E-10	1.1142E-09	4.7686E-10
Eu156	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+
Fe-59	4.1161E-48	1.3975E-50	4.7451E-53	1.6111E-55	5.4701E-58	1.8572E-60	6.3059E-63	2.1410E-65	7.2694E-68	2.4682E-70	8.3801E-73	2.8453E-75	9.6605E-78	3.2800E-80	1.1137E-82	3.7812E-85	4.1161E-48	2.5813E-
Fr221	5.7774E-25	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7774E-25	3.6109E-26
Fr223	1.4598E-23	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4598E-23	9.1235E-25
Gd152	5.1944E-12	5.1944E-12	5.1943E-12	5.1943E-12	5.1943E-12	5.1943E-12	5.1943E-12	5.1942E-12	5.1942E-12	5.1942E-12	5.1942E-12	5.1942E-12	5.1941E-12	5.1941E-12	5.1941E-12	5.1941E-12	5.1944E-12	5.1942E-12
Gd153	2.3746E-23	8.3477E-24	2.9345E-24	1.0316E-24	3.6263E-25	1.2748E-25	4.4812E-26	1.5753E-26	5.5376E-27	1.9467E-27	6.8431E-28	2.4056E-28	8.4564E-29	2.9727E-29	1.0450E-29	3.6735E-30	2.3746E-23	2.2887E-24
H 3	8.6342E-08	8.1648E-08	7.6021E-08	7.0782E-08	6.5904E-08	6.1362E-08	5.7133E-08	5.3196E-08	4.9530E-08	4.6117E-08	4.2939E-08	3.9979E-08	3.7224E-08	3.4659E-08	3.2270E-08	3.0046E-08	8.6342E-08	5.4072E-08
Hf-181	1.0182E-49	2.6086E-52	6.6832E-55	1.7123E-57	4.3869E-60	1.1239E-62	2.8796E-65	7.3776E-68	1.8902E-70	4.8427E-73	1.2407E-75	3.1787E-78	8.1440E-81	2.0865E-83	5.3458E-86	1.3696E-88	1.0182E-49	6.3798E-51
Ho166m	1.5321E-20	6.1504E-119	2.4690E-217	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5321E-20	9.5753E-22
I129	1.2236E-01	1.2236E-01	1.2048E-01	1.1863E-01	1.1680E-01	1.1501E-01	1.1324E-01	1.1149E-01	1.0978E-01	1.0809E-01	1.0643E-01	1.0479E-01	1.0318E-01	1.0159E-01	1.0003E-01	9.8486E-02	1.2236E-01	1.1080E-01
I131	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
In114	3.5091E-72	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.5091E-72	2.1932E-73
In114m	2.1857E-67	1.3178E-69	7.9460E-72	4.7910E-74	2.8888E-76	1.7418E-78	1.0502E-80	6.3323E-83	3.8181E-85	2.3021E-87	1.3881E-89	8.3694E-92	5.0463E-94	3.0427E-96	1.8346E-98	1.1062E-100	2.1857E-67	1.3743E-68
In115	2.4264E-08	2.4264E-08	2.4263E-08	2.4263E-08	2.4263E-08	2.4263E-08	2.4263E-08	2.4263E-08	2.4263E-08	2.4263E-08	2.4263E-08	2.4263E-08	2.4263E-08	2.4263E-08	2.4263E-08	2.4263E-08	2.4264E-08	2.4263E-08
In115m	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
K-40	1.8199E-02	1.8199E-02	1.8197E-02	1.8196E-02	1.8195E-02	1.8194E-02	1.8193E-02	1.8192E-02	1.8191E-02	1.8190E-02	1.8188E-02	1.8187E-02	1.8186E-02	1.8185E-02	1.8184E-02	1.8183E-02	1.8199E-02	1.8191E-02
Kr81	4.1969E-12	4.1968E-12	4.1323E-12	4.0687E-12	4.0060E-12	3.9444E-12	3.8837E-12	3.8239E-12	3.7651E-12	3.7071E-12	3.6501E-12	3.5939E-12	3.5386E-12	3.4841E-12	3.4305E-12	3.3777E-12	4.1969E-12	3.8000E-12
Kr85	4.9037E-05	4.5961E-05	4.2415E-05	3.9143E-05	3.6123E-05	3.3336E-05	3.0764E-05	2.8391E-05	2.6201E-05	2.4179E-05	2.2314E-05	2.0592E-05	1.9004E-05	1.7538E-05	1.6185E-05	1.4936E-05	4.9037E-05	2.9132E-05
La138	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
La140	3.9693E-120	1.4585E-185	5.3592E-251	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.9693E-120	2.4808E-121
Mn-54	4.9858E-20	2.2217E-20	9.9002E-21	4.4116E-21	1.9658E-21	8.7599E-22	3.9034E-22	1.7394E-22	7.7508E-23	3.4538E-23	1.5390E-23	6.8581E-24	3.0560E-24	1.3618E-24	6.0681E-25	2.7040E-25	4.9858E-20	5.6208E-21
Nb92	6.0268E-23	6.0268E-23	6.0268E-23	6.0267E-23	6.0267E-23	6.0266E-23	6.0265E-23	6.0265E-23	6.0264E-23	6.0264E-23	6.0263E-23	6.0263E-23	6.0262E-23	6.0262E-23	6.0261E-23	6.0260E-23	6.0268E-23	6.0265E-23
Nb93m	4.7658E-13	4.5290E-13	4.3039E-13	4.0900E-13	3.8868E-13	3.6936E-13	3.5100E-13	3.3356E-13	3.1698E-13	3.0123E-13	2.8626E-13	2.7203E-13	2.5851E-13	2.4566E-13	2.3345E-13	2.2185E-13	4.7658E-13	3.3422E-13
Nb94	4.7022E-13	4.7021E-13	4.7019E-13	4.7017E-13	4.7015E-13	4.7013E-13	4.7011E-13	4.7009E-13	4.7007E-13	4.7005E-13	4.7002E-13	4.7000E-13	4.6998E-13	4.6996E-13	4.6994E-13	4.6992E-13	4.7022E-13	4.7008E-13
Nb95	1.2273E-45	9.2781E-49	7.0142E-52	5.3027E-55	4.0088E-58	3.0307E-61	2.2912E-64	1.7321E-67	1.3095E-70	9.8997E-74	7.4841E-77	5.6580E-80	4.2774E-83	3.2337E-86	2.4447E-89	1.8482E-92	1.2273E-45	7.6761E-47
Nb95m	4.8247E-49	1.7095E-79	6.0569E-110	2.1460E-140	7.6037E-171	2.6941E-201	9.5454E-232	3.3821E-262	1.1983E-292	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8247E-49	3.0154E-
Nd144	1.1499E-06	1.1499E-06	1.1499E-06	1.1499E-06	1.1499E-06	1.1499E-06	1.1499E-06	1.1499E-06	1.1499E-06	1.1499E-06	1.1498E-06	1.1498E-06	1.1498E-06	1.1498E-06	1.1498E-06	1.1498E-06	1.1499E-06	1.1499E

Table C.4 Model output leachate.

ICDF Leachage Concentration (mg/L or pCi/L)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Peak Leachate Concentration	Average Leachate Concentration
Nd147	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Np235	6.0114E-21	3.1733E-21	1.6749E-21	8.8407E-22	4.6663E-22	2.4630E-22	1.3000E-22	6.8616E-23	3.6217E-23	1.9116E-23	1.0090E-23	5.3256E-24	2.8110E-24	1.4837E-24	7.8312E-25	4.1335E-25	6.0114E-21	7.9572E-22
Np236	6.5271E-13	6.5271E-13	6.5263E-13	6.5255E-13	6.5247E-13	6.5239E-13	6.5231E-13	6.5224E-13	6.5216E-13	6.5208E-13	6.5200E-13	6.5192E-13	6.5184E-13	6.5176E-13	6.5169E-13	6.5161E-13	6.5271E-13	6.5219E-13
Np237	1.1311E-04	1.1311E-04	1.1310E-04	1.1309E-04	1.1308E-04	1.1306E-04	1.1305E-04	1.1304E-04	1.1302E-04	1.1301E-04	1.1300E-04	1.1298E-04	1.1297E-04	1.1296E-04	1.1295E-04	1.1293E-04	1.1311E-04	1.1303E-04
Np238	1.0452E-19	1.5521E-71	2.3046E-123	3.4218E-175	5.0808E-227	7.5441E-279	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0452E-19	6.5324E-21
Np239	1.7903E-16	4.9580E-63	1.3730E-109	3.8019E-156	1.0528E-202	2.9153E-249	8.0730E-296	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7903E-16	1.1189E-17
Np240	2.8740E-28	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8740E-28	1.7962E-29
Np240m	2.9745E-26	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9745E-26	1.8591E-27
Pa231	2.6874E-12	2.6874E-12	2.6873E-12	2.6872E-12	2.6872E-12	2.6871E-12	2.6870E-12	2.6870E-12	2.6869E-12	2.6869E-12	2.6868E-12	2.6867E-12	2.6867E-12	2.6866E-12	2.6866E-12	2.6865E-12	2.6874E-12	2.6870E-12
Pa233	3.8149E-15	3.2509E-19	2.7703E-23	2.3607E-27	2.0117E-31	1.7143E-35	1.4608E-39	1.2449E-43	1.0608E-47	9.0399E-52	7.7034E-56	6.5645E-60	5.5940E-64	4.7670E-68	4.0622E-72	3.4616E-76	3.8149E-15	2.3845E-16
Pa234	2.4939E-21	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4939E-21	1.5587E-22
Pa234m	4.5350E-21	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.5350E-21	2.8344E-22
Pb209	1.0502E-22	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0502E-22	6.5639E-24
Pb210	1.4286E-16	1.3849E-16	1.3425E-16	1.3014E-16	1.2616E-16	1.2229E-16	1.1855E-16	1.1492E-16	1.1140E-16	1.0799E-16	1.0469E-16	1.0148E-16	9.8375E-17	9.5363E-17	9.2444E-17	8.9614E-17	1.4286E-16	1.1431E-16
Pb211	7.4114E-21	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.4114E-21	4.6321E-22
Pb212	3.9618E-18	6.6398E-267	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.9618E-18	2.4761E-19
Pb214	1.7129E-21	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7129E-21	1.0705E-22
Pd107	2.1581E-07	2.1581E-07	2.1581E-07	2.1581E-07	2.1580E-07	2.1580E-07	2.1580E-07	2.1579E-07	2.1579E-07	2.1578E-07	2.1578E-07	2.1578E-07	2.1577E-07	2.1577E-07	2.1577E-07	2.1576E-07	2.1581E-07	2.1579E-07
Pm146	5.4626E-14	4.8195E-14	4.2521E-14	3.7515E-14	3.3099E-14	2.9202E-14	2.5765E-14	2.2731E-14	2.0055E-14	1.7694E-14	1.5611E-14	1.3774E-14	1.2152E-14	1.0721E-14	9.4593E-15	8.3457E-15	5.4626E-14	2.5092E-14
Pm147	1.7102E-09	1.3126E-09	1.0075E-09	7.7331E-10	5.9354E-10	4.5557E-10	3.4967E-10	2.6838E-10	2.0600E-10	1.5811E-10	1.2136E-10	9.3146E-11	7.1493E-11	5.4874E-11	4.2118E-11	3.2327E-11	1.7102E-09	4.5314E-10
Pm148	1.0067E-72	3.4819E-93	1.2043E-113	4.1656E-134	1.4408E-154	4.9834E-175	1.7237E-195	5.9619E-216	2.0621E-236	7.1325E-257	2.4670E-277	8.5329E-298	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0067E-72	6.2917E-74
Pm148m	1.6037E-70	3.5050E-73	7.6603E-76	1.6742E-78	3.6591E-81	7.9972E-84	1.7478E-86	3.8200E-89	8.3489E-92	1.8247E-94	3.9880E-97	8.7161E-100	1.9050E-102	4.1634E-105	9.0994E-108	1.9887E-110	1.6037E-70	1.0045E-71
Po210	1.5011E-18	2.4001E-19	3.8372E-20	6.1349E-21	9.8086E-22	1.5682E-22	2.5072E-23	4.0086E-24	6.4089E-25	1.0247E-25	1.6382E-26	2.6192E-27	4.1876E-28	6.6951E-29	1.0704E-29	1.7114E-30	1.5011E-18	1.1168E-19
Po211	4.4003E-29	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4003E-29	2.7502E-30
Po212	1.2530E-29	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2530E-29	7.8312E-31
Po213	2.2939E-32	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2939E-32	1.4337E-33
Po214	1.1648E-28	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1648E-28	7.2803E-30
Po215	4.1384E-27	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.1384E-27	2.5865E-28
Po216	1.0581E-23	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0581E-23	6.6128E-25
Po218	1.3242E-22	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3242E-22	8.2761E-24
Pr143	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Pr144	9.7713E-20	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7713E-20	6.1071E-21
Pr144m	5.8152E-22	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.8152E-22	3.6345E-23
Pu236	7.4226E-17	5.8201E-17	4.5636E-17	3.5783E-17	2.8058E-17	[illegible]	1.7250E-17	1.3526E-17	1.0606E-17	8.3160E-18	6.5206E-18	5.1128E-18	4.0090E-18	3.1434E-18	2.4648E-18	1.9326E-18	7.4226E-17	2.1049E-17
Pu237	7.1041E-71	2.6668E-73	1.0011E-75	3.7579E-78	1.4107E-80	[illegible]	1.9879E-85	7.4622E-88	2.8012E-90	1.0515E-92	3.9474E-95	1.4818E-97	5.5625E-100	2.0881E-102	7.8384E-105	2.9424E-107	7.1041E-71	4.4568E-72
Pu238	9.7234E-08	9.6468E-08	9.5708E-08	9.4954E-08	9.4206E-08	9.3464E-08	9.2727E-08	9.1997E-08	9.1272E-08	9.0553E-08	8.9839E-08	8.9131E-08	8.8429E-08	8.7732E-08	8.7041E-08	8.6355E-08	9.7234E-08	9.1694E-08
Pu239	7.6591E-07	7.6589E-07	7.6586E-07	7.6583E-07	7.6581E-07	7.6578E-07	7.6575E-07	7.6573E-07	7.6570E-07	7.6567E-07	7.6564E-07	7.6562E-07	7.6559E-07	7.6556E-07	7.6554E-07	7.6551E-07	7.6591E-07	7.6571E-07
Pu240	4.6997E-08	4.6992E-08	4.6987E-08	4.6981E-08	4.6976E-08	4.6971E-08	4.6966E-08	4.6960E-08	4.6955E-08	4.6950E-08	4.6944E-08	4.6939E-08	4.6934E-08	4.6929E-08	4.6923E-08	4.6918E-08	4.6997E-08	4.6958E-08
Pu241	4.4265E-09	4.2184E-09	4.0202E-09	3.8312E-09	3.6511E-09	3.4795E-09	3.3160E-09	3.1601E-09	3.0116E-09	2.8701E-09	2.7352E-09	2.6066E-09	2.4841E-09	2.3673E-09	2.2561E-09	2.1500E-09	4.4265E-09	3.1615E-09
Pu242	4.3708E-10	4.3708E-10	4.3707E-10	4.3707E-10	4.3707E-10	4.3706E-10	4.3706E-10	4.3706E-10	4.3705E-10	4.3705E-10	4.3704E-10	4.3704E-10	4.3704E-10	4.3703E-10	4.3703E-10	4.3703E-10	4.3708E-10	4.3705E-10
Pu243	1.7550E-30	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7550E-30	1.0969E-31
Pu244	1.0228E-14	1.0228E-14	1.0228E-14	1.0228E-14	1.0228E-14	1.0228E-14	1.0228E-14	1.0228E-14	1.0228E-14	1.0228E-14	1.0228E-14	1.0228E-14	1.0227E-14	1.0227E-14	1.0227E-14	1.0227E-14	1.0228E-14	1.0228E-14
Pu246	2.0270E-38	1.6846E-48	1.4000E-58	1.1635E-68	9.6692E-79	8.0357E-89	6.6782E-99	5.5500E-109	4.6124E-119	3.8332E-129	3.1857E-139	2.6475E-149	2.2002E-159	1.8285E-169	1.5196E-179	1.2629E-189	2.0270E-38	1.2669E-39
Ra222	8.7375E-134	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.7375E-134	5.4610E-135
Ra223	3.9416E-18	9.0663E-28	2.0854E-37	4.7967E-47	1.1033E-56	2.5377E-66	5.8372E-76	1.3426E-85	3.0883E-95	7.1034E-105	1.6339E-114	3.7582E-124	8.6444E-134	1.9883E-143	4.5734E-153	1.0520E-162	3.9416E-18	2.4635E-19
Ra224	3.4693E-17	3.3075E-47	3.1531E-77	3.0060E-107	2.8657E-137	2.7320E-167	2.6045E-197	2.4829E-227	2.3671E-257	2.2566E-287	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.4693E-17	2.1683E-18
Ra225	1.3052E-20	4.9163E-28	1.8517E-35	6.9747E-43	2.6271E-50	9.8950E-58	3.7270E-65	1.4038E-72	5.2875E-80	1.9916E-87	7.5014E-95	2.8255E-102	1.0642E-109	4.0085E-117	1.5098E-124	5.6868E-132	1.3052E-20	8.1576E-22
Ra226	4.7857E-09	4.7836E-09	4.7815E-09	4.7794E-09	4.7773E-09	4.7752E-09	4.7730E-09	4.7709E-09	4.7688E-09	4.7667E-09	4.7646E-09	4.7625E-09	4.7604E-09	4.7583E-09	4.7562E-09	4.7541E-09	4.7857E-09	4.7699E-09
Ra228	5.5771E-21	4.9438E-21	4.3823E-21	3.8846E-21	3.4434E-21	3.0523E-21	2.7057E-21	2.3984E-21	2.1260E-21	1.8845E-21	1.6705E-21	1.4808E-21	1.3126E-21	1.1635E-21	1.0314E-21	9.1424E-22	5.5771E-21	2.6232E-21
Rb86	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Rb87	2.3117E-06	2.3117E-06	2.3117E-06	2.3116E-06	2.3116E-06	2.3115E-06	2.3115E-06	2.3115E-06	2.3114E-06	2.3114E-06	2.3114E-06	2.3113E-06	2.3113E-06	2.3112E-06	2.3112E-06	2.3112E-06	2.3117E-06	2.3115E-06

Table C.4 Model output leachate.

ICDF Leachage Concentration (mg/L or pCi/L)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Peak Leachate Concentration	Average Leachate Concentration
Rh102	4.7165E-16	3.7138E-16	2.9242E-16	2.3025E-16	1.8129E-16	1.4275E-16	1.1240E-16	8.8501E-17	6.9685E-17	5.4869E-17	4.3203E-17	3.4018E-17	2.6785E-17	2.1090E-17	1.6606E-17	1.3076E-17	4.7165E-16	1.3562E-16
Rh103m	1.6662E-73	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6662E-73	1.0414E-74
Rh106	6.1297E-20	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.1297E-20	3.8311E-21
Rn218	1.4200E-133	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4200E-133	8.8751E-135
Rn219	2.5952E-20	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5952E-20	1.6220E-21
Rn220	9.9906E-18	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.9906E-18	6.2441E-19
Rn222	6.7204E-16	1.1589E-44	1.9678E-73	3.3413E-102	5.6734E-131	9.6333E-160	1.6357E-188	2.7774E-217	4.7158E-246	8.0073E-275	1.3596E-303	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7204E-16	4.2003E-17
Ru103	1.1288E-41	1.8063E-44	2.8904E-47	4.6251E-50	7.4010E-53	1.1843E-55	1.8951E-58	3.0324E-61	4.8524E-64	7.7647E-67	1.2425E-69	1.9882E-72	3.1815E-75	5.0909E-78	8.1463E-81	1.3035E-83	1.1288E-41	7.0663E-43
Ru106	6.5806E-14	3.3090E-14	1.6638E-14	8.3661E-15	4.2067E-15	2.1152E-15	1.0636E-15	5.3480E-16	2.6891E-16	1.3522E-16	6.7990E-17	3.4187E-17	1.7190E-17	8.6436E-18	4.3462E-18	2.1854E-18	6.5806E-14	8.2725E-15
Sb124	2.3659E-52	3.5385E-54	5.2921E-56	7.9148E-58	1.1837E-59	1.7704E-61	2.6477E-63	3.9599E-65	5.9223E-67	8.8573E-69	1.3247E-70	1.9812E-72	2.9630E-74	4.4314E-76	6.6276E-78	9.9121E-80	2.3659E-52	1.5012E-53
Sb125	1.7912E-10	1.3947E-10	1.0859E-10	8.4548E-11	6.5830E-11	5.1255E-11	3.9908E-11	3.1072E-11	2.4193E-11	1.8837E-11	1.4666E-11	1.1419E-11	8.8911E-12	6.9227E-12	5.3900E-12	4.1967E-12	1.7912E-10	4.9644E-11
Sb126	4.9238E-15	6.7817E-24	9.3405E-33	1.2865E-41	1.7718E-50	2.4404E-59	3.3611E-68	4.6292E-77	6.3759E-86	8.7815E-95	1.2095E-103	1.6658E-112	2.2943E-121	3.1600E-130	4.3522E-139	5.9943E-148	4.9238E-15	3.0774E-16
Sb126m	3.7424E-17	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.7424E-17	2.3390E-18
Sc-46	2.7063E-33	1.3219E-34	6.4572E-36	3.1541E-37	1.5407E-38	7.5255E-40	3.6759E-41	1.7955E-42	8.7705E-44	4.2840E-45	2.0926E-46	1.0221E-47	4.9928E-49	2.4388E-50	1.1913E-51	5.8188E-53	2.7063E-33	1.7783E-34
Se 79	5.8561E-07	5.8561E-07	5.8547E-07	5.8533E-07	5.8519E-07	5.8505E-07	5.8491E-07	5.8477E-07	5.8463E-07	5.8449E-07	5.8435E-07	5.8421E-07	5.8407E-07	5.8394E-07	5.8380E-07	5.8366E-07	5.8561E-07	5.8469E-07
Sm146	7.4488E-14	7.4488E-14	7.4488E-14	7.4487E-14	7.4487E-14	7.4487E-14	7.4486E-14	7.4486E-14	7.4486E-14	7.4486E-14	7.4485E-14	7.4485E-14	7.4485E-14	7.4484E-14	7.4484E-14	7.4484E-14	7.4488E-14	7.4486E-14
Sm147	7.4418E-07	7.4418E-07	7.4418E-07	7.4417E-07	7.4417E-07	7.4417E-07	7.4416E-07	7.4416E-07	7.4416E-07	7.4416E-07	7.4415E-07	7.4415E-07	7.4415E-07	7.4414E-07	7.4414E-07	7.4414E-07	7.4418E-07	7.4416E-07
Sm148	1.2161E-08	1.2161E-08	1.2161E-08	1.2161E-08	1.2161E-08	1.2161E-08	1.2161E-08	1.2161E-08	1.2161E-08	1.2161E-08	1.2161E-08	1.2161E-08	1.2161E-08	1.2161E-08	1.2161E-08	1.2161E-08	1.2161E-08	1.2161E-08
Sm149	8.8792E-08	8.8792E-08	8.8792E-08	8.8791E-08	8.8791E-08	8.8791E-08	8.8790E-08	8.8790E-08	8.8790E-08	8.8789E-08	8.8789E-08	8.8788E-08	8.8788E-08	8.8788E-08	8.8787E-08	8.8787E-08	8.8792E-08	8.8790E-08
Sm151	5.3375E-08	5.2966E-08	5.2559E-08	5.2156E-08	5.1755E-08	5.1358E-08	5.0964E-08	5.0573E-08	5.0184E-08	4.9799E-08	4.9417E-08	4.9038E-08	4.8661E-08	4.8288E-08	4.7917E-08	4.7549E-08	5.3375E-08	5.0410E-08
Sn117m	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Sn119m	3.0422E-19	1.2829E-19	5.4098E-20	2.2812E-20	9.6198E-21	4.0566E-21	1.7106E-21	7.2135E-22	3.0419E-22	1.2827E-22	5.4091E-23	2.2810E-23	9.6187E-24	4.0561E-24	1.7104E-24	7.2127E-25	3.0422E-19	3.2878E-20
Sn121m	3.8384E-12	3.7903E-12	3.7428E-12	3.6959E-12	3.6496E-12	3.6039E-12	3.5587E-12	3.5141E-12	3.4701E-12	3.4266E-12	3.3837E-12	3.3413E-12	3.2994E-12	3.2581E-12	3.2172E-12	3.1769E-12	3.8384E-12	3.4980E-12
Sn123	7.8578E-29	1.1055E-29	1.5552E-30	2.1880E-31	3.0781E-32	4.3304E-33	6.0922E-34	8.5708E-35	1.2058E-35	1.6963E-36	2.3865E-37	3.3574E-38	4.7233E-39	6.6450E-40	9.3484E-41	1.3152E-41	7.8578E-29	5.7152E-30
Sn125	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+
Sn126	3.9884E-08	3.9883E-08	3.9883E-08	3.9882E-08	3.9882E-08	3.9881E-08	3.9881E-08	3.9880E-08	3.9880E-08	3.9879E-08	3.9878E-08	3.9878E-08	3.9877E-08	3.9877E-08	3.9876E-08	3.9876E-08	3.9884E-08	3.9880E-
Sr89	1.7065E-55	1.1385E-57	7.5952E-60	5.0669E-62	3.3803E-64	2.2551E-66	1.5044E-68	1.0036E-70	6.6953E-73	4.4666E-75	2.9798E-77	1.9879E-79	1.3262E-81	8.8471E-84	5.9021E-86	3.9374E-88	1.7065E-55	1.0737E-56
Sr90	1.3868E-05	1.3541E-05	1.3221E-05	1.2909E-05	1.2604E-05	1.2307E-05	1.2016E-05	1.1733E-05	1.1455E-05	1.1185E-05	1.0921E-05	1.0663E-05	1.0411E-05	1.0165E-05	9.9253E-06	9.6910E-06	1.3868E-05	1.1664E-05
Tb160	1.1716E-46	3.5403E-48	1.0698E-49	3.2329E-51	9.7695E-53	2.9522E-54	8.9212E-56	2.6959E-57	8.1466E-59	2.4618E-60	7.4392E-62	2.2480E-63	6.7932E-65	2.0528E-66	6.2034E-68	1.8746E-69	1.1716E-46	7.5505E-48
Tb161	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Tc 98	7.8131E-10	7.8131E-10	7.7854E-10	7.7577E-10	7.7302E-10	7.7027E-10	7.6754E-10	7.6481E-10	7.6210E-10	7.5939E-10	7.5670E-10	7.5401E-10	7.5133E-10	7.4866E-10	7.4601E-10	7.4336E-10	7.8131E-10	7.6338E-10
Tc 99	1.3034E-03	1.3034E-03	1.2987E-03	1.2941E-03	1.2895E-03	1.2849E-03	1.2804E-03	1.2758E-03	1.2713E-03	1.2668E-03	1.2623E-03	1.2578E-03	1.2533E-03	1.2489E-03	1.2444E-03	1.2400E-03	1.3034E-03	1.2734E-03
Te123	1.2422E-13	1.2422E-13	1.2422E-13	1.2422E-13	1.2422E-13	1.2422E-13	1.2422E-13	1.2422E-13	1.2422E-13	1.2421E-13	1.2421E-13	1.2421E-13	1.2421E-13	1.2421E-13	1.2421E-13	1.2421E-13	1.2422E-13	1.2422E-13
Te123m	2.6613E-35	3.2319E-36	3.9248E-37	4.7663E-38	5.7882E-39	7.0293E-40	8.5364E-41	1.0367E-41	1.2589E-42	1.5289E-43	1.8566E-44	2.2547E-45	2.7381E-46	3.3252E-47	4.0382E-48	4.9040E-49	2.6613E-35	1.8932E-36
Te125m	1.0054E-12	1.2822E-14	1.6350E-16	2.0850E-18	2.6589E-20	3.3906E-22	4.3238E-24	5.5137E-26	7.0312E-28	8.9663E-30	1.1434E-31	1.4581E-33	1.8594E-35	2.3711E-37	3.0237E-39	3.8558E-41	1.0054E-12	6.3652E-14
Te127	2.8331E-34	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8331E-34	1.7707E-35
Te127m	8.0456E-32	7.8980E-33	7.7532E-34	7.6110E-35	7.4714E-36	7.3344E-37	7.1998E-38	7.0678E-39	6.9381E-40	6.8109E-41	6.6860E-42	6.5633E-43	6.4430E-44	6.3248E-45	6.2088E-46	6.0949E-47	8.0456E-32	5.5758E-33
Te129	2.5747E-86	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5747E-86	1.6092E-87
Te129m	2.8414E-83	1.5255E-86	8.1903E-90	4.3972E-93	2.3608E-96	1.2675E-99	6.8048E-103	3.6534E-106	1.9614E-109	1.0531E-112	5.6537E-116	3.0354E-119	1.6296E-122	8.7493E-126	4.6973E-129	2.5219E-132	2.8414E-83	1.7769E-84
Th226	8.0912E-133	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.0912E-133	5.0570E-134
Th227	5.9045E-18	7.8607E-24	1.0465E-29	1.3932E-35	1.8548E-41	2.4693E-47	3.2874E-53	4.3765E-59	5.8264E-65	7.7567E-71	1.0327E-76	1.3748E-82	1.8302E-88	2.4366E-94	3.2439E-100	4.3185E-106	5.9045E-18	3.6903E-19
Th228	4.0014E-13	2.7836E-13	1.9364E-13	1.3470E-13	9.3706E-14	6.5186E-14	4.5347E-14	3.1545E-14	2.1944E-14	1.5265E-14	1.0619E-14	7.3873E-15	5.1390E-15	3.5749E-15	2.4869E-15	1.7300E-15	4.0014E-13	8.1923E-14
Th229	2.4048E-15	2.4046E-15	2.4043E-15	2.4041E-15	2.4038E-15	2.4036E-15	2.4033E-15	2.4031E-15	2.4028E-15	2.4026E-15	2.4023E-15	2.4021E-15	2.4018E-15	2.4016E-15	2.4013E-15	2.4011E-15	2.4048E-15	2.4030E-15
Th230	8.5830E-08	8.5829E-08	8.5827E-08	8.5826E-08	8.5824E-08	8.5823E-08	8.5821E-08	8.5819E-08	8.5818E-08	8.5816E-08	8.5815E-08	8.5813E-08	8.5812E-08	8.5810E-08	8.5809E-08	8.5807E-08	8.5830E-08	8.5819E-08
Th231	3.0224E-15	1.1687E-118	4.5189E-222	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0224E-15	1.8890E-16
Th232	1.4239E-02	1.4239E-02	1.4239E-02	1.4239E-02	1.4239E-02	1.4239E-02	1.4238E-02	1.4238E-02	1.4238E-02	1.4238E-02	1.4238E-02	1.4238E-02	1.4238E-02	1.4238E-02	1.4237E-02	1.4237E-02	1.4239E-02	1.4238E-02
Th234	7.3947E-16	2.0406E-20	5.6310E-25	1.5539E-29	4.2878E-34	1.1832E-38	3.2651E-43	9.0099E-48	2.4863E-52	6.8609E-57	1.8932E-61	5.2244E-66	1.4417E-70	3.9782E-75	1.0978E-79	3.0293E-84	7.3947E-16	4.6218E-17
Tl207	9.5830E-22	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5830E-22	5.9894E-23
Tl208	6.7205E-21	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7205E-21	4.2003E-22
Tl209	2.5691E-26	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5691E-26	1.6057E-27
Tm170	4.4595E-38	6.2739E-39	8.8264E-40	1.2417E-40	1.7469E-41	2.4577E-42	3.4576E-43	4.8643E-44	6.8433E-45	9.6274E-46	1.3544E-46	1.9055E-47	2.6807E-48	3.7714E-49	5.3057E-50	7.4643E-51	4.4595E-38	3.2435E

Table C.4 Model output leachate.

ICDF Leachage Concentration (mg/L or pCi/L)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Peak Leachate Concentration	Average Leachate Concentration
Tm171	6.0927E-24	4.2464E-24	2.9596E-24	2.0627E-24	1.4377E-24	1.0020E-24	6.9836E-25	4.8673E-25	3.3924E-25	2.3644E-25	1.6479E-25	1.1485E-25	8.0048E-26	5.5791E-26	3.8884E-26	2.7101E-26	6.0927E-24	1.2527E-24
U230	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U232	4.1207E-12	4.0812E-12	4.0415E-12	4.0022E-12	3.9632E-12	3.9246E-12	3.8864E-12	3.8486E-12	3.8112E-12	3.7741E-12	3.7374E-12	3.7010E-12	3.6650E-12	3.6293E-12	3.5940E-12	3.5590E-12	4.1207E-12	3.8337E-12
U233	4.3760E-10	4.3759E-10	4.3752E-10	4.3746E-10	4.3739E-10	4.3732E-10	4.3725E-10	4.3718E-10	4.3711E-10	4.3705E-10	4.3698E-10	4.3691E-10	4.3684E-10	4.3677E-10	4.3670E-10	4.3663E-10	4.3760E-10	4.3714E-10
U234	1.5941E-04	1.5941E-04	1.5938E-04	1.5936E-04	1.5933E-04	1.5931E-04	1.5928E-04	1.5926E-04	1.5923E-04	1.5921E-04	1.5918E-04	1.5916E-04	1.5913E-04	1.5911E-04	1.5909E-04	1.5906E-04	1.5941E-04	1.5924E-04
U235	8.4124E-03	8.4124E-03	8.4112E-03	8.4099E-03	8.4086E-03	8.4073E-03	8.4060E-03	8.4047E-03	8.4035E-03	8.4022E-03	8.4009E-03	8.3996E-03	8.3983E-03	8.3971E-03	8.3958E-03	8.3945E-03	8.4124E-03	8.4040E-03
U236	5.1492E-04	5.1492E-04	5.1485E-04	5.1477E-04	5.1469E-04	5.1461E-04	5.1453E-04	5.1445E-04	5.1438E-04	5.1430E-04	5.1422E-04	5.1414E-04	5.1406E-04	5.1398E-04	5.1391E-04	5.1383E-04	5.1492E-04	5.1441E-04
U237	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U238	9.5806E-01	9.5806E-01	9.5791E-01	9.5777E-01	9.5762E-01	9.5748E-01	9.5733E-01	9.5718E-01	9.5704E-01	9.5689E-01	9.5675E-01	9.5660E-01	9.5646E-01	9.5631E-01	9.5616E-01	9.5602E-01	9.5806E-01	9.5710E-01
U240	4.5229E-24	4.2906E-211	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.5229E-24	2.8268E-25
Xe127	9.3177E-82	8.9277E-85	8.4224E-88	7.9457E-91	7.4959E-94	7.0717E-97	6.6714E-100	6.2938E-103	5.9376E-106	5.6015E-109	5.2845E-112	4.9854E-115	4.7032E-118	4.4370E-121	4.1859E-124	3.9489E-127	9.3177E-82	5.8291E-83
Xe129m	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Xe131m	5.3501E-122	3.1267E-131	1.7992E-140	1.0353E-149	5.9575E-159	3.4282E-168	1.9727E-177	1.1351E-186	6.5319E-196	3.7587E-205	2.1628E-214	1.2446E-223	7.1616E-233	4.1210E-242	2.3714E-251	1.3645E-260	5.3501E-122	3.3438E-123
Xe133	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Y90	2.4696E-10	1.5458E-51	9.6754E-93	6.0560E-134	3.7905E-175	2.3726E-216	1.4850E-257	9.2951E-299	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4696E-10	1.5435E-11
Y91	9.9236E-50	1.3136E-51	1.7387E-53	2.3015E-55	3.0463E-57	4.0323E-59	5.3374E-61	7.0649E-63	9.3515E-65	1.2378E-66	1.6385E-68	2.1688E-70	2.8707E-72	3.7998E-74	5.0297E-76	6.6576E-78	9.9236E-50	6.2855E-51
Zn65	2.0378E-20	7.2250E-21	2.5616E-21	9.0817E-22	3.2198E-22	1.1415E-22	4.0472E-23	1.4349E-23	5.0873E-24	1.8036E-24	6.3946E-25	2.2671E-25	8.0379E-26	2.8497E-26	1.0103E-26	3.5821E-27	2.0378E-20	1.9732E-21
Zr93	5.6712E-07	5.6712E-07	5.6712E-07	5.6712E-07	5.6712E-07	5.6711E-07	5.6711E-07	5.6711E-07	5.6711E-07	5.6711E-07	5.6711E-07	5.6711E-07	5.6711E-07	5.6711E-07	5.6710E-07	5.6710E-07	5.6712E-07	5.6711E-07
Zr95	2.2672E-38	4.3518E-40	8.3533E-42	1.6034E-43	3.0778E-45	5.9078E-47	1.1340E-48	2.1767E-50	4.1782E-52	8.0200E-54	1.5394E-55	2.9549E-57	5.6720E-59	1.0887E-60	2.0898E-62	4.0114E-64	2.2672E-38	1.4447E-39
RADIONUCLIDES (pCi/L)																		
Ac225	1.1379E-07	1.1709E-18	1.2048E-29	1.2397E-40	1.2757E-51	1.3126E-62	1.3507E-73	1.3898E-84	1.4301E-95	1.4715E-106	1.5141E-117	1.5580E-128	1.6031E-139	1.6496E-150	1.6974E-161	1.7466E-172	1.1379E-07	7.1121E-09
Ac227	4.5417E-05	4.3995E-05	4.2618E-05	4.1285E-05	3.9993E-05	3.8741E-05	3.7528E-05	3.6354E-05	3.5216E-05	3.4114E-05	3.3046E-05	3.2012E-05	3.1010E-05	3.0039E-05	2.9099E-05	2.8189E-05	4.5417E-05	3.6166E-05
Ac228	3.3836E-10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3836E-10	2.1148E-11
Ag106	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ag108	4.1022E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.1022E-08	2.5639E-09
Ag108m	8.8779E+00	8.8296E+00	8.7814E+00	8.7335E+00	8.6859E+00	8.6386E+00	8.5914E+00	8.5446E+00	8.4980E+00	8.4517E+00	8.4056E+00	8.3597E+00	8.3141E+00	8.2688E+00	8.2237E+00	8.1789E+00	8.8779E+00	8.5240E+00
Ag109m	5.4597E-11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4597E-11	3.4123E-12
Ag110	5.7486E-10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7486E-10	3.5928E-11
Ag110m	6.1580E-08	2.2384E-08	8.1363E-09	2.9575E-09	1.0750E-09	3.9076E-10	1.4204E-10	5.1628E-11	1.8766E-11	6.8214E-12	2.4795E-12	9.0127E-13	3.2760E-13	1.1908E-13	4.3284E-14	1.5733E-14	6.1580E-08	6.0467E-09
Ag111	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Am241	7.0086E+01	6.9973E+01	6.9861E+01	6.9749E+01	6.9637E+01	6.9525E+01	6.9413E+01	6.9302E+01	6.9191E+01	6.9079E+01	6.8968E+01	6.8858E+01	6.8747E+01	6.8637E+01	6.8526E+01	6.8416E+01	7.0086E+01	6.9248E+01
Am242	1.3328E-04	2.0457E-169	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3328E-04	8.3298E-06
Am242m	1.3288E-04	1.3227E-04	1.3167E-04	1.3107E-04	1.3047E-04	1.2988E-04	1.2929E-04	1.2870E-04	1.2811E-04	1.2753E-04	1.2695E-04	1.2637E-04	1.2580E-04	1.2522E-04	1.2465E-04	1.2409E-04	1.3288E-04	1.2844E-04
Am243	9.8225E-04	9.8216E-04	9.8206E-04	9.8197E-04	9.8187E-04	9.8178E-04	9.8168E-04	9.8159E-04	9.8149E-04	9.8140E-04	9.8130E-04	9.8121E-04	9.8111E-04	9.8102E-04	9.8092E-04	9.8083E-04	9.8225E-04	9.8154E-04
Am245	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Am246	4.0649E-25	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0649E-25	2.5406E-26
At217	8.5357E-04	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5357E-04	5.3348E-05
Ba136m	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ba137m	4.6173E+05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6173E+05	2.8858E+04
Ba140	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Be 10	4.5674E-06	4.5674E-06	4.5674E-06	4.5673E-06	4.5673E-06	4.5673E-06	4.5673E-06	4.5673E-06	4.5672E-06	4.5672E-06	4.5672E-06	4.5672E-06	4.5672E-06	4.5671E-06	4.5671E-06	4.5671E-06	4.5674E-06	4.5672E-06
Bi210	1.0916E-05	1.2786E-27	1.4976E-49	1.7542E-71	2.0547E-93	2.4067E-115	2.8189E-137	3.3018E-159	3.8674E-181	4.5299E-203	5.3059E-225	6.2148E-247	7.2794E-269	8.5264E-291	0.0000E+00	0.0000E+00	1.0916E-05	6.8226E-07
Bi211	1.8299E-04	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8299E-04	1.1437E-05
Bi212	5.5260E-03	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.5260E-03	3.4537E-04
Bi213	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Bi214	5.6166E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.6166E-05	3.5104E-06
Bk249	5.3933E-22	2.4462E-22	1.1095E-22	5.0323E-23	2.2824E-23	1.0352E-23	4.6954E-24	2.1297E-24	9.6594E-25	4.3812E-25	1.9871E-25	9.0129E-26	4.0879E-26	1.8541E-26	8.4096E-27	3.8143E-27	5.3933E-22	6.1686E-23
Bk250	1.9375E-26	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9375E-26	1.2109E-27
C 14	9.1119E-03	9.1108E-03	9.1080E-03	9.1053E-03	9.1025E-03	9.0997E-03	9.0970E-03	9.0942E-03	9.0915E-03	9.0887E-03	9.0859E-03	9.0832E-03	9.0804E-03	9.0777E-03	9.0749E-03	9.0722E-03	9.1119E-03	9.0927E-03
Cd109	8.1139E-10	4.7035E-10	2.7262E-10	1.5801E-10	9.1585E-11	5.3083E-11	3.0767E-11	1.7833E-11	1.0336E-11	5.9908E-12	3.4723E-12	2.0126E-12	1.1665E-12	6.7610E-13	3.9187E-13	2.2713E-13	8.1139E-10	1.2062E-10

Table C.4 Model output leachate.

ICDF Leachage Concentration (mg/L or pCi/L)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Peak Leachate Concentration	Average Leachate Concentration
Cd113m	2.6740E+02	2.5411E+02	2.4145E+02	2.2942E+02	2.1798E+02	2.0712E+02	1.9680E+02	1.8699E+02	1.7767E+02	1.6882E+02	1.6041E+02	1.5241E+02	1.4482E+02	1.3760E+02	1.3074E+02	1.2423E+02	2.6740E+02	1.8737E+02
Cd115m	7.0200E-52	2.4141E-54	8.3004E-57	2.8539E-59	9.8128E-62	3.3740E-64	1.1601E-66	3.9887E-69	1.3715E-71	4.7155E-74	1.6214E-76	5.5748E-79	1.9168E-81	6.5905E-84	2.2660E-86	7.7914E-89	7.0200E-52	4.4026E-53
Ce141	3.6093E-71	1.5018E-74	6.2492E-78	2.6003E-81	1.0820E-84	4.5022E-88	1.8734E-91	7.7952E-95	3.2436E-98	1.3497E-101	5.6160E-105	2.3369E-108	9.7237E-112	4.0461E-115	1.6836E-118	7.0054E-122	3.6093E-71	2.2567E-72
Ce142	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ce144	3.6119E-03	1.4820E-03	6.0807E-04	2.4950E-04	1.0237E-04	4.2004E-05	1.7235E-05	7.0716E-06	2.9015E-06	1.1905E-06	4.8849E-07	2.0043E-07	8.2239E-08	3.3743E-08	1.3845E-08	5.6809E-09	3.6119E-03	3.8281E-04
Cf249	8.0859E-16	8.0700E-16	8.0540E-16	8.0381E-16	8.0223E-16	8.0064E-16	7.9906E-16	7.9748E-16	7.9591E-16	7.9434E-16	7.9277E-16	7.9120E-16	7.8964E-16	7.8808E-16	7.8653E-16	7.8497E-16	8.0859E-16	7.9673E-16
Cf250	4.1318E-16	3.9189E-16	3.7169E-16	3.5253E-16	3.3437E-16	3.1713E-16	3.0079E-16	2.8529E-16	2.7058E-16	2.5664E-16	2.4341E-16	2.3087E-16	2.1897E-16	2.0768E-16	1.9698E-16	1.8683E-16	4.1318E-16	2.8618E-16
Cf251	1.8660E-18	1.8645E-18	1.8631E-18	1.8617E-18	1.8602E-18	1.8588E-18	1.8573E-18	1.8559E-18	1.8545E-18	1.8530E-18	1.8516E-18	1.8502E-18	1.8487E-18	1.8473E-18	1.8459E-18	1.8445E-18	1.8660E-18	1.8552E-18
Cf252	4.3984E-20	3.3827E-20	2.6016E-20	2.0008E-20	1.5388E-20	1.1835E-20	9.1019E-21	7.0001E-21	5.3836E-21	4.1405E-21	3.1844E-21	2.4490E-21	1.8835E-21	1.4486E-21	1.1141E-21	8.5681E-22	4.3984E-20	1.1726E-20
Cm241	3.2405E-81	1.4479E-84	6.4693E-88	2.8905E-91	1.2915E-94	5.7707E-98	2.5784E-101	1.1521E-104	5.1475E-108	2.3000E-111	1.0276E-114	4.5916E-118	2.0516E-121	9.1667E-125	4.0958E-128	1.8300E-131	3.2405E-81	2.0262E-82
Cm242	1.3483E-17	2.8557E-18	6.0481E-19	1.2810E-19	2.7130E-20	5.7460E-21	1.2170E-21	2.5775E-22	5.4589E-23	1.1562E-23	2.4487E-24	5.1862E-25	1.0984E-25	2.3264E-26	4.9271E-27	1.0435E-27	1.3483E-17	1.0691E-18
Cm243	8.8830E-07	8.6696E-07	8.4613E-07	8.2579E-07	8.0595E-07	7.8659E-07	7.6769E-07	7.4924E-07	7.3124E-07	7.1367E-07	6.9652E-07	6.7979E-07	6.6345E-07	6.4751E-07	6.3195E-07	6.1677E-07	8.8830E-07	7.4485E-07
Cm244	4.5095E-04	4.3401E-04	4.1770E-04	4.0201E-04	3.8690E-04	3.7237E-04	3.5837E-04	3.4491E-04	3.3195E-04	3.1948E-04	3.0748E-04	2.9592E-04	2.8481E-04	2.7410E-04	2.6381E-04	2.5389E-04	4.5095E-04	3.4367E-04
Cm245	2.0055E-08	2.0053E-08	2.0051E-08	2.0050E-08	2.0048E-08	2.0047E-08	2.0045E-08	2.0043E-08	2.0042E-08	2.0040E-08	2.0038E-08	2.0037E-08	2.0035E-08	2.0033E-08	2.0032E-08	2.0030E-08	2.0055E-08	2.0042E-08
Cm246	4.4755E-10	4.4748E-10	4.4742E-10	4.4735E-10	4.4729E-10	4.4722E-10	4.4716E-10	4.4709E-10	4.4702E-10	4.4696E-10	4.4689E-10	4.4683E-10	4.4676E-10	4.4670E-10	4.4663E-10	4.4657E-10	4.4755E-10	4.4706E-10
Cm247	1.5976E-16	1.5976E-16	1.5976E-16	1.5976E-16	1.5976E-16	1.5976E-16	1.5976E-16	1.5976E-16	1.5976E-16	1.5976E-16	1.5976E-16	1.5976E-16	1.5976E-16	1.5976E-16	1.5976E-16	1.5976E-16	1.5976E-16	1.5976E-16
Cm248	4.8834E-17	4.8834E-17	4.8834E-17	4.8834E-17	4.8833E-17	4.8833E-17	4.8833E-17	4.8833E-17	4.8833E-17	4.8833E-17	4.8833E-17	4.8833E-17	4.8833E-17	4.8832E-17	4.8832E-17	4.8832E-17	4.8834E-17	4.8833E-17
Cm250	1.3823E-25	1.3822E-25	1.3821E-25	1.3820E-25	1.3819E-25	1.3818E-25	1.3817E-25	1.3816E-25	1.3815E-25	1.3814E-25	1.3813E-25	1.3812E-25	1.3811E-25	1.3810E-25	1.3809E-25	1.3808E-25	1.3823E-25	1.3816E-25
Co-57	3.6701E-01	1.4429E-01	5.6721E-02	2.2298E-02	8.7655E-03	3.4458E-03	1.3546E-03	5.3250E-04	2.0933E-04	8.2289E-05	3.2349E-05	1.2717E-05	4.9990E-06	1.9652E-06	7.7253E-07	3.0369E-07	3.6701E-01	3.7798E-02
Co-58	5.8428E-15	1.6394E-16	4.5998E-18	1.2906E-19	3.6209E-21	1.0159E-22	2.8503E-24	7.9972E-26	2.2438E-27	6.2953E-29	1.7663E-30	4.9556E-32	1.3904E-33	3.9010E-35	1.0945E-36	3.0708E-38	5.8428E-15	3.7571E-16
Co-60	1.9223E+04	1.6854E+04	1.4775E+04	1.2953E+04	1.1356E+04	9.9552E+03	8.7275E+03	7.6512E+03	6.7076E+03	5.8804E+03	5.1552E+03	4.5194E+03	3.9621E+03	3.4734E+03	3.0451E+03	2.6695E+03	1.9223E+04	8.5567E+03
Cr-51	7.6601E-53	8.2717E-57	8.9318E-61	9.6446E-65	1.0414E-68	1.1245E-72	1.2143E-76	1.3112E-80	1.4158E-84	1.5288E-88	1.6508E-92	1.7826E-96	1.9249E-100	2.0785E-104	2.2443E-108	2.4235E-112	7.6601E-53	4.7881E-54
Cs132	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Cs134	2.2424E+01	1.6017E+01	1.1440E+01	8.1717E+00	5.8369E+00	4.1692E+00	2.9779E+00	2.1271E+00	1.5193E+00	1.0852E+00	7.7515E-01	5.5368E-01	3.9548E-01	2.8248E-01	2.0177E-01	1.4412E-01	2.2424E+01	4.8826E+00
Cs135	7.1618E-02	7.1618E-02	7.1617E-02	7.1617E-02	7.1617E-02	7.1617E-02	7.1617E-02	7.1617E-02	7.1616E-02	7.1616E-02	7.1616E-02	7.1616E-02	7.1616E-02	7.1616E-02	7.1616E-02	7.1615E-02	7.1618E-02	7.1617E-
Cs136	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+
Cs137	4.8861E+04	4.7745E+04	4.6655E+04	4.5589E+04	4.4548E+04	4.3530E+04	4.2536E+04	4.1564E+04	4.0615E+04	3.9687E+04	3.8781E+04	3.7895E+04	3.7029E+04	3.6183E+04	3.5357E+04	3.4549E+04	4.8861E+04	4.1320E+04
Er169	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Eu150	5.0876E-08	2.6242E-217	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0876E-08	3.1797E-09
Eu152	2.8453E+03	2.7008E+03	2.5636E+03	2.4334E+03	2.3098E+03	2.1925E+03	2.0812E+03	1.9755E+03	1.8752E+03	1.7800E+03	1.6896E+03	1.6038E+03	1.5223E+03	1.4450E+03	1.3716E+03	1.3020E+03	2.8453E+03	1.9807E+03
Eu154	2.4138E+03	2.2310E+03	2.0620E+03	1.9058E+03	1.7614E+03	1.6280E+03	1.5047E+03	1.3907E+03	1.2854E+03	1.1880E+03	1.0980E+03	1.0148E+03	9.3797E+02	8.6692E+02	8.0126E+02	7.4056E+02	2.4138E+03	1.4269E+03
Eu155	5.1881E+02	4.5114E+02	3.9230E+02	3.4114E+02	2.9664E+02	2.5795E+02	2.2431E+02	1.9506E+02	1.6962E+02	1.4749E+02	1.2826E+02	1.1153E+02	9.6983E+01	8.4334E+01	7.3335E+01	6.3770E+01	5.1881E+02	2.2204E+02
Eu156	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Fe-59	2.0497E-34	6.9593E-37	2.3629E-39	8.0227E-42	2.7239E-44	9.2485E-47	3.1401E-49	1.0662E-51	3.6199E-54	1.2291E-56	4.1730E-59	1.4169E-61	4.8106E-64	1.6333E-66	5.5457E-69	1.8829E-71	2.0497E-34	1.2854E-35
Fr221	1.0242E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0242E-07	6.4010E-09
Fr223	5.6465E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.6465E-07	3.5290E-08
Gd152	1.1328E-13	1.1328E-13	1.1327E-13	1.1327E-13	1.1327E-13	1.1327E-13	1.1327E-13	1.1327E-13	1.1327E-13	1.1327E-13	1.1327E-13	1.1327E-13	1.1327E-13	1.1327E-13	1.1327E-13	1.1327E-13	1.1328E-13	1.1327E-13
Gd153	8.3800E-11	2.9459E-11	1.0356E-11	3.6404E-12	1.2797E-12	4.4986E-13	1.5814E-13	5.5591E-14	1.9542E-14	6.8697E-15	2.4149E-15	8.4892E-16	2.9842E-16	1.0491E-16	3.6878E-17	1.2964E-17	8.3800E-11	8.0768E-12
H 3	8.2604E+05	7.8113E+05	7.2730E+05	6.7718E+05	6.3051E+05	5.8706E+05	5.4660E+05	5.0893E+05	4.7386E+05	4.4120E+05	4.1080E+05	3.8249E+05	3.5613E+05	3.3159E+05	3.0873E+05	2.8746E+05	8.2604E+05	5.1731E+05
Hf-181	1.7331E-36	4.4403E-39	1.1376E-41	2.9146E-44	7.4674E-47	1.9132E-49	4.9016E-52	1.2558E-54	3.2174E-57	8.2432E-60	2.1119E-62	5.4108E-65	1.3863E-67	3.5517E-70	9.0996E-73	2.3313E-75	1.7331E-36	1.0860E-37
Ho166m	1.0798E-05	4.3349E-104	1.7402E-202	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0798E-05	6.7489E-07
I129	2.1633E+04	2.1633E+04	2.1301E+04	2.0973E+04	2.0650E+04	2.0332E+04	2.0020E+04	1.9712E+04	1.9408E+04	1.9110E+04	1.8816E+04	1.8526E+04	1.8241E+04	1.7960E+04	1.7684E+04	1.7412E+04	2.1633E+04	1.9588E+04
I131	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
In114	4.8348E-54	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8348E-54	3.0217E-55
In114m	5.0625E-54	3.0525E-56	1.8405E-58	1.1097E-60	6.6911E-63	4.0344E-65	2.4326E-67	1.4667E-69	8.8436E-72	5.3323E-74	3.2151E-76	1.9386E-78	1.1689E-80	7.0477E-83	4.2494E-85	2.5622E-87	5.0625E-54	3.1833E-55
In115	1.4815E-11	1.4815E-11	1.4815E-11	1.4814E-11	1.4814E-11	1.4814E-11	1.4814E-11	1.4814E-11	1.4814E-11	1.4814E-11	1.4814E-11	1.4814E-11	1.4814E-11	1.4814E-11	1.4814E-11	1.4814E-11	1.4815E-11	1.4814E-11
In115m	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
K-40	1.2729E+02	1.2729E+02	1.2728E+02	1.2728E+02	1.2727E+02	1.2726E+02	1.2725E+02	1.2724E+02	1.2724E+02	1.2723E+02	1.2722E+02	1.2721E+02	1.2721E+02	1.2720E+02	1.2719E+02	1.2718E+02	1.2729E+02	1.2724E+02
Kr81	8.8371E-05	8.8370E-05	8.7010E-05	8.5671E-05	8.4353E-05	8.3055E-05	8.1776E-05	8.0518E-05	7.9279E-05	7.8059E-05	7.6857E-05	7.5675E-05	7.4510E-05	7.3363E-05	7.2234E-05	7.1123E-05	8.8371E-05	8.0014E-05
Kr85	1.9311E+07	1.8100E+07	1.6703E+07	1.5415E+07	1.4226E+07	1.3128E+07	1.2115E+07	1.1181E+07	1.0318E+07	9.5220E+06	8.7874E+06	8.1095E+06	7.4839E+06	6.9065E+06	6.3737E+06	5.8820E+06	1.9311E+07	1.1473E+07
La138	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E

Table C.4 Model output leachate.

ICDF Leachage Concentration (mg/L or pCi/L)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Peak Leachate Concentration	Average Leachate Concentration
La140	2.2065E-105	8.1077E-171	2.9791E-236	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2065E-105	1.3791E-106
Mn-54	3.8567E-07	1.7186E-07	7.6581E-08	3.4125E-08	1.5206E-08	6.7760E-09	3.0194E-09	1.3455E-09	5.9955E-10	2.6716E-10	1.1905E-10	5.3049E-11	2.3639E-11	1.0534E-11	4.6938E-12	2.0916E-12	3.8567E-07	4.3479E-08
Nb92	6.3413E-18	6.3413E-18	6.3412E-18	6.3412E-18	6.3411E-18	6.3411E-18	6.3410E-18	6.3409E-18	6.3409E-18	6.3408E-18	6.3408E-18	6.3407E-18	6.3406E-18	6.3406E-18	6.3405E-18	6.3405E-18	6.3413E-18	6.3409E-18
Nb93m	1.3496E-01	1.2825E-01	1.2188E-01	1.1582E-01	1.1006E-01	1.0459E-01	9.9395E-02	9.4455E-02	8.9761E-02	8.5300E-02	8.1061E-02	7.7032E-02	7.3204E-02	6.9566E-02	6.6108E-02	6.2823E-02	1.3496E-01	9.4642E-02
Nb94	8.8257E-05	8.8254E-05	8.8250E-05	8.8247E-05	8.8243E-05	8.8239E-05	8.8235E-05	8.8231E-05	8.8227E-05	8.8224E-05	8.8220E-05	8.8216E-05	8.8212E-05	8.8208E-05	8.8204E-05	8.8201E-05	8.8257E-05	8.8229E-05
Nb95	4.7976E-32	3.6270E-35	2.7420E-38	2.0730E-41	1.5672E-44	1.1848E-47	8.9568E-51	6.7713E-54	5.1191E-57	3.8700E-60	2.9257E-63	2.2118E-66	1.6721E-69	1.2641E-72	9.5568E-76	7.2249E-79	4.7976E-32	3.0008E-33
Nb95m	1.8399E-34	6.5192E-65	2.3098E-95	8.1840E-126	2.8997E-156	1.0274E-186	3.6402E-217	1.2898E-247	4.5698E-278	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8399E-34	1.1500E-35
Nd144	1.3614E-09	1.3614E-09	1.3614E-09	1.3614E-09	1.3614E-09	1.3614E-09	1.3614E-09	1.3614E-09	1.3614E-09	1.3614E-09	1.3614E-09	1.3613E-09	1.3613E-09	1.3613E-09	1.3613E-09	1.3613E-09	1.3614E-09	1.3614E-09
Nd147	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Np235	8.4346E-09	4.4525E-09	2.3501E-09	1.2404E-09	6.5473E-10	3.4558E-10	1.8240E-10	9.6276E-11	5.0816E-11	2.6822E-11	1.4157E-11	7.4724E-12	3.9441E-12	2.0818E-12	1.0988E-12	5.7997E-13	8.4346E-09	1.1165E-09
Np236	8.6033E-06	8.6033E-06	8.6022E-06	8.6012E-06	8.6002E-06	8.5991E-06	8.5981E-06	8.5971E-06	8.5960E-06	8.5950E-06	8.5939E-06	8.5929E-06	8.5919E-06	8.5908E-06	8.5898E-06	8.5888E-06	8.6033E-06	8.5965E-06
Np237	7.9782E+01	7.9782E+01	7.9773E+01	7.9764E+01	7.9755E+01	7.9746E+01	7.9737E+01	7.9727E+01	7.9718E+01	7.9709E+01	7.9700E+01	7.9691E+01	7.9682E+01	7.9673E+01	7.9663E+01	7.9654E+01	7.9782E+01	7.9722E+01
Np238	2.7047E-05	4.0165E-57	5.9637E-109	8.8550E-161	1.3148E-212	1.9522E-264	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7047E-05	1.6904E-06
Np239	4.1442E-02	1.1477E-48	3.1782E-95	8.8009E-142	2.4371E-188	6.7487E-235	1.8688E-281	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.1442E-02	2.5901E-03
Np240	3.4638E-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.4638E-12	2.1649E-13
Np240m	3.1489E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1489E-09	1.9681E-10
Pa231	1.2689E-04	1.2689E-04	1.2688E-04	1.2688E-04	1.2688E-04	1.2687E-04	1.2687E-04	1.2687E-04	1.2687E-04	1.2686E-04	1.2686E-04	1.2686E-04	1.2685E-04	1.2685E-04	1.2685E-04	1.2684E-04	1.2689E-04	1.2687E-04
Pa233	7.9181E-02	6.7475E-06	5.7499E-10	4.8999E-14	4.1754E-18	3.5581E-22	3.0321E-26	2.5838E-30	2.2018E-34	1.8763E-38	1.5989E-42	1.3625E-46	1.1611E-50	9.8942E-55	8.4314E-59	7.1849E-63	7.9181E-02	4.9493E-03
Pa234	4.9849E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9849E-06	3.1156E-07
Pa234m	3.1145E-03	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1145E-03	1.9466E-04
Pb209	4.8466E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8466E-07	3.0291E-08
Pb210	1.0916E-05	1.0582E-05	1.0258E-05	9.9440E-06	9.6396E-06	9.3445E-06	9.0584E-06	8.7811E-06	8.5123E-06	8.2517E-06	7.9991E-06	7.7542E-06	7.5168E-06	7.2867E-06	7.0636E-06	6.8474E-06	1.0916E-05	8.7347E-06
Pb211	1.8299E-04	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8299E-04	1.1437E-05
Pb212	5.5260E-03	9.2614E-252	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.5260E-03	3.4537E-04
Pb214	5.6166E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.6166E-05	3.5104E-06
Pd107	1.1112E-01	1.1112E-01	1.1112E-01	1.1112E-01	1.1112E-01	1.1112E-01	1.1111E-01	1.1111E-01	1.1111E-01	1.1111E-01	1.1111E-01	1.1111E-01	1.1110E-01	1.1110E-01	1.1110E-01	1.1110E-01	1.1112E-01	1.1111E-01
Pm146	2.4204E-02	2.1354E-02	1.8840E-02	1.6622E-02	1.4666E-02	1.2939E-02	1.1416E-02	1.0072E-02	8.8862E-03	7.8400E-03	6.9171E-03	6.1028E-03	5.3843E-03	4.7505E-03	4.1912E-03	3.6978E-03	2.4204E-02	1.1118E-02
Pm147	1.5897E+03	1.2202E+03	9.3653E+02	7.1883E+02	5.5173E+02	4.2347E+02	3.2503E+02	2.4948E+02	1.9148E+02	1.4697E+02	1.1281E+02	8.6583E+01	6.6456E+01	5.1008E+01	3.9151E+01	3.0050E+01	1.5897E+03	4.2122E+02
Pm148	1.6551E-58	5.7247E-79	1.9801E-99	6.8488E-120	2.3689E-140	8.1935E-161	2.8340E-181	9.8022E-202	3.3904E-222	1.1727E-242	4.0561E-263	1.4029E-283	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6551E-58	1.0344E-59
Pm148m	3.4283E-57	7.4929E-60	1.6376E-62	3.5791E-65	7.8224E-68	1.7096E-70	3.7365E-73	8.1664E-76	1.7848E-78	3.9008E-81	8.5255E-84	1.8633E-86	4.0724E-89	8.9005E-92	1.9453E-94	4.2515E-97	3.4283E-57	2.1474E-58
Po210	6.7654E-06	1.0817E-06	1.7294E-07	2.7649E-08	4.4205E-09	7.0676E-10	1.1300E-10	1.8066E-11	2.8884E-12	4.6179E-13	7.3832E-14	1.1804E-14	1.8873E-15	3.0174E-16	4.8242E-17	7.7129E-18	6.7654E-06	5.0331E-07
Po211	4.5606E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.5606E-09	2.8504E-10
Po212	2.1867E-03	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1867E-03	1.3667E-04
Po213	2.8934E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8934E-07	1.8084E-08
Po214	3.7451E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.7451E-05	2.3407E-06
Po215	1.2202E-04	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2202E-04	7.6262E-06
Po216	3.6847E-03	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.6847E-03	2.3030E-04
Po218	3.7451E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.7451E-05	2.3407E-06
Pr143	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Pr144	7.3808E-03	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.3808E-03	4.6130E-04
Pr144m	1.0554E-04	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0554E-04	6.5964E-06
Pu236	3.9478E-05	3.0955E-05	2.4272E-05	1.9032E-05	1.4923E-05	1.1701E-05	9.1748E-06	7.1939E-06	5.6408E-06	4.4229E-06	3.4680E-06	2.7193E-06	2.1322E-06	1.6719E-06	1.3109E-06	1.0279E-06	3.9478E-05	1.1195E-05
Pu237	8.6399E-58	3.2433E-60	1.2175E-62	4.5703E-65	1.7156E-67	6.4403E-70	2.4176E-72	9.0754E-75	3.4068E-77	1.2789E-79	4.8007E-82	1.8021E-84	6.7649E-87	2.5395E-89	-9.5329E-92	3.5785E-94	8.6399E-58	5.4203E-59
Pu238	1.6664E+03	1.6533E+03	1.6403E+03	1.6274E+03	1.6145E+03	1.6018E+03	1.5892E+03	1.5767E+03	1.5643E+03	1.5519E+03	1.5397E+03	1.5276E+03	1.5155E+03	1.5036E+03	1.4918E+03	1.4800E+03	1.6664E+03	1.5715E+03
Pu239	4.7567E+01	4.7566E+01	4.7564E+01	4.7563E+01	4.7561E+01	4.7559E+01	4.7558E+01	4.7556E+01	4.7554E+01	4.7552E+01	4.7551E+01	4.7549E+01	4.7547E+01	4.7546E+01	4.7544E+01	4.7542E+01	4.7567E+01	4.7555E+01
Pu240	1.0711E+01	1.0710E+01	1.0709E+01	1.0707E+01	1.0706E+01	1.0705E+01	1.0704E+01	1.0702E+01	1.0701E+01	1.0700E+01	1.0699E+01	1.0698E+01	1.0696E+01	1.0695E+01	1.0694E+01	1.0693E+01	1.0711E+01	1.0702E+01
Pu241	4.5626E+02	4.3482E+02	4.1438E+02	3.9491E+02	3.7635E+02	3.5866E+02	3.4180E+02	3.2573E+02	3.1042E+02	2.9583E+02	2.8193E+02	2.6868E+02	2.5605E+02	2.4402E+02	2.3255E+02	2.2162E+02	4.5626E+02	3.2588E+02
Pu242	1.7183E-03	1.7183E-03	1.7182E-03	1.7182E-03	1.7182E-03	1.7182E-03	1.7182E-03	1.7182E-03	1.7182E-03	1.7181E-03	1.7181E-03	1.7181E-03	1.7181E-03	1.7181E-03	1.7181E-03	1.7181E-03	1.7183E-03	1.7182E-03
Pu243	4.5626E-15	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.5626E-15	2.8516E-16
Pu244	1.8153E-10	1.8153E-10	1.8153E-10	1.8153E-10	1.8153E-10	1.8153E-10	1.8153E-10	1.8153E-10	1.8153E-10	1.8152E-10	1.8152E-10	1.8152E-10	1.8152E-10	1.8152E-10	1.8152E-10	1.8152E-10	1.8153E-10	1.8153E-10
Pu246	9.8695E-25	8.2023E-35	6.8166E-45	5.6650E-55	4.7080E-65	3.9127E-75	3.2517E-85	2.7024E-95	2.2458E-105	1.8664E-115	1.5511E-125	1.2891E-135	1.0713E-145	8.9033E-156	7.3992E-166	6.1493E-176	9.8695E-25	6.1684E-26

Table C.4 Model output leachate.

ICDF Leachage Concentration (mg/L or pCi/L)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Peak Leachate Concentration	Average Leachate Concentration
Ra222	1.1686E-115	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1686E-115	7.3038E-117
Ra223	2.0247E-04	4.6571E-14	1.0712E-23	2.4639E-33	5.6674E-43	1.3036E-52	2.9984E-62	6.8968E-72	1.5864E-81	3.6488E-91	8.3929E-101	1.9305E-110	4.4404E-120	1.0214E-129	2.3493E-139	5.4036E-149	2.0247E-04	1.2654E-05
Ra224	5.5260E-03	5.2682E-33	5.0223E-63	4.7879E-93	4.5645E-123	4.3515E-153	4.1484E-183	3.9548E-213	3.7703E-243	3.5943E-273	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.5260E-03	3.4537E-04
Ra225	5.1183E-07	1.9279E-14	7.2614E-22	2.7351E-29	1.0302E-36	3.8802E-44	1.4615E-51	5.5049E-59	2.0735E-66	7.8098E-74	2.9416E-81	1.1080E-88	4.1733E-96	1.5719E-103	5.9206E-111	2.2300E-118	5.1183E-07	3.1990E-08
Ra226	4.7349E+00	4.7328E+00	4.7307E+00	4.7286E+00	4.7265E+00	4.7244E+00	4.7224E+00	4.7203E+00	4.7182E+00	4.7161E+00	4.7140E+00	4.7119E+00	4.7098E+00	4.7078E+00	4.7057E+00	4.7036E+00	4.7349E+00	4.7192E+00
Ra228	1.5219E-09	1.3491E-09	1.1959E-09	1.0600E-09	9.3965E-10	8.3293E-10	7.3833E-10	6.5448E-10	5.8015E-10	5.1426E-10	4.5585E-10	4.0408E-10	3.5819E-10	3.1751E-10	2.8145E-10	2.4948E-10	1.5219E-09	7.1583E-10
Rb86	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Rb87	2.0249E-04	2.0249E-04	2.0249E-04	2.0249E-04	2.0248E-04	2.0248E-04	2.0248E-04	2.0247E-04	2.0247E-04	2.0247E-04	2.0246E-04	2.0246E-04	2.0246E-04	2.0245E-04	2.0245E-04	2.0245E-04	2.0249E-04	2.0247E-04
Rh102	5.7103E-04	4.4963E-04	3.5403E-04	2.7876E-04	2.1949E-04	1.7283E-04	1.3608E-04	1.0715E-04	8.4368E-05	6.6430E-05	5.2306E-05	4.1185E-05	3.2429E-05	2.5534E-05	2.0105E-05	1.5831E-05	5.7103E-04	1.6420E-04
Rh103m	5.4278E-57	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4278E-57	3.3924E-58
Rh106	2.1842E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1842E-01	1.3651E-02
Rn218	2.0999E-112	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0999E-112	1.3125E-113
Rn219	3.3765E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3765E-01	2.1103E-02
Rn220	9.2155E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.2155E+00	5.7597E-01
Rn222	1.0349E-01	1.7846E-30	3.0302E-59	5.1452E-88	8.7363E-117	1.4834E-145	2.5187E-174	4.2767E-203	7.2618E-232	1.2330E-260	2.0936E-289	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0349E-01	6.4678E-03
Ru103	3.6451E-28	5.8329E-31	9.3337E-34	1.4936E-36	2.3899E-39	3.8243E-42	6.1196E-45	9.7924E-48	1.5670E-50	2.5074E-53	4.0123E-56	6.4203E-59	1.0274E-61	1.6440E-64	2.6306E-67	4.2095E-70	3.6451E-28	2.2819E-29
Ru106	2.2051E-01	1.1088E-01	5.5753E-02	2.8034E-02	1.4096E-02	7.0879E-03	3.5640E-03	1.7921E-03	9.0109E-04	4.5309E-04	2.2783E-04	1.1456E-04	5.7602E-05	2.8964E-05	1.4564E-05	7.3229E-06	2.2051E-01	2.7720E-02
Sb124	4.1424E-39	6.1954E-41	9.2657E-43	1.3858E-44	2.0725E-46	3.0996E-48	4.6357E-50	6.9331E-52	1.0369E-53	1.5508E-55	2.3193E-57	3.4687E-59	5.1877E-61	7.7587E-63	1.1604E-64	1.7354E-66	4.1424E-39	2.6283E-40
Sb125	1.8524E+02	1.4423E+02	1.1230E+02	8.7435E+01	6.8077E+01	5.3005E+01	4.1270E+01	3.2133E+01	2.5019E+01	1.9480E+01	1.5167E+01	1.1809E+01	9.1947E+00	7.1590E+00	5.5740E+00	4.3400E+00	1.8524E+02	5.1339E+01
Sb126	4.1187E-01	5.6728E-10	7.8132E-19	1.0761E-27	1.4821E-36	2.0413E-45	2.8115E-54	3.8723E-63	5.3333E-72	7.3456E-81	1.0117E-89	1.3934E-98	1.9192E-107	2.6433E-116	3.6406E-125	5.0142E-134	4.1187E-01	2.5742E-02
Sb126m	2.9420E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9420E+00	1.8387E-01
Sc-46	9.1778E-20	4.4830E-21	2.1898E-22	1.0696E-23	5.2247E-25	2.5520E-26	1.2466E-27	6.0890E-29	2.9743E-30	1.4528E-31	7.0964E-33	3.4663E-34	1.6932E-35	8.2704E-37	4.0398E-38	1.9733E-39	9.1778E-20	6.0307E-21
Se 79	4.0847E+01	4.0846E+01	4.0837E+01	4.0827E+01	4.0817E+01	4.0808E+01	4.0798E+01	4.0788E+01	4.0778E+01	4.0769E+01	4.0759E+01	4.0749E+01	4.0740E+01	4.0730E+01	4.0720E+01	4.0710E+01	4.0847E+01	4.0783E+01
Sm146	1.7734E-09	1.7734E-09	1.7733E-09	1.7733E-09	1.7733E-09	1.7733E-09	1.7733E-09	1.7733E-09	1.7733E-09	1.7733E-09	1.7733E-09	1.7733E-09	1.7733E-09	1.7733E-09	1.7733E-09	1.7733E-09	1.7734E-09	1.7733E-09
Sm147	1.7098E-05	1.7098E-05	1.7098E-05	1.7098E-05	1.7098E-05	1.7098E-05	1.7098E-05	1.7098E-05	1.7098E-05	1.7097E-05	1.7097E-05	1.7097E-05	1.7097E-05	1.7097E-05	1.7097E-05	1.7097E-05	1.7098E-05	1.7098E-07
Sm148	4.2026E-12	4.2026E-12	4.2026E-12	4.2025E-12	4.2025E-12	4.2025E-12	4.2025E-12	4.2025E-12	4.2025E-12	4.2024E-12	4.2024E-12	4.2024E-12	4.2024E-12	4.2024E-12	4.2024E-12	4.2023E-12	4.2026E-12	4.2025E-12
Sm149	2.1334E-11	2.1334E-11	2.1334E-11	2.1334E-11	2.1334E-11	2.1334E-11	2.1333E-11	2.1333E-11	2.1333E-11	2.1333E-11	2.1333E-11	2.1333E-11	2.1333E-11	2.1333E-11	2.1333E-11	2.1333E-11	2.1334E-11	2.1333E-11
Sm151	1.4060E+03	1.3952E+03	1.3845E+03	1.3739E+03	1.3633E+03	1.3529E+03	1.3425E+03	1.3322E+03	1.3220E+03	1.3118E+03	1.3017E+03	1.2918E+03	1.2818E+03	1.2720E+03	1.2622E+03	1.2525E+03	1.4060E+03	1.3279E+03
Sn117m	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Sn119m	1.1404E-06	4.8090E-07	2.0279E-07	8.5515E-08	3.6061E-08	1.5207E-08	6.4125E-09	2.7041E-09	1.1403E-09	4.8085E-10	2.0277E-10	8.5505E-11	3.6057E-11	1.5205E-11	6.4117E-12	2.7038E-12	1.1404E-06	1.2325E-07
Sn121m	2.0653E-01	2.0395E-01	2.0139E-01	1.9887E-01	1.9637E-01	1.9391E-01	1.9148E-01	1.8908E-01	1.8671E-01	1.8438E-01	1.8206E-01	1.7978E-01	1.7753E-01	1.7531E-01	1.7311E-01	1.7094E-01	2.0653E-01	1.8821E-01
Sn123	6.4725E-16	9.1058E-17	1.2810E-17	1.8022E-18	2.5355E-19	3.5670E-20	5.0182E-21	7.0598E-22	9.9320E-23	1.3973E-23	1.9658E-24	2.7655E-25	3.8906E-26	5.4735E-27	7.7003E-28	1.0833E-28	6.4725E-16	4.7076E-17
Sn125	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Sn126	1.1334E+00	1.1334E+00	1.1334E+00	1.1334E+00	1.1333E+00	1.1333E+00	1.1333E+00	1.1333E+00	1.1333E+00	1.1333E+00	1.1333E+00	1.1332E+00	1.1332E+00	1.1332E+00	1.1332E+00	1.1332E+00	1.1334E+00	1.1333E+00
Sr89	4.9636E-42	3.3116E-44	2.2092E-46	1.4738E-48	9.8323E-51	6.5593E-53	4.3759E-55	2.9192E-57	1.9475E-59	1.2992E-61	8.6674E-64	5.7822E-66	3.8574E-68	2.5734E-70	1.7168E-72	1.1453E-74	4.9636E-42	3.1231E-43
Sr90	1.8965E+06	1.8519E+06	1.8081E+06	1.7654E+06	1.7238E+06	1.6830E+06	1.6433E+06	1.6045E+06	1.5666E+06	1.5296E+06	1.4935E+06	1.4582E+06	1.4238E+06	1.3902E+06	1.3574E+06	1.3253E+06	1.8965E+06	1.5951E+06
Tb160	1.3232E-33	3.9987E-35	1.2084E-36	3.6515E-38	1.1034E-39	3.3344E-41	1.0076E-42	3.0449E-44	9.2013E-46	2.7805E-47	8.4023E-49	2.5391E-50	7.6727E-52	2.3186E-53	7.0065E-55	2.1173E-56	1.3232E-33	8.5280E-35
Tb161	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Tc 98	6.7983E-04	6.7983E-04	6.7742E-04	6.7501E-04	6.7262E-04	6.7023E-04	6.6785E-04	6.6548E-04	6.6311E-04	6.6076E-04	6.5841E-04	6.5607E-04	6.5374E-04	6.5142E-04	6.4911E-04	6.4680E-04	6.7983E-04	6.6423E-04
Tc 99	2.2136E+04	2.2136E+04	2.2058E+04	2.1979E+04	2.1901E+04	2.1823E+04	2.1746E+04	2.1668E+04	2.1591E+04	2.1515E+04	2.1438E+04	2.1362E+04	2.1286E+04	2.1210E+04	2.1135E+04	2.1060E+04	2.2136E+04	2.1628E+04
Te123	3.6163E-14	3.6163E-14	3.6163E-14	3.6163E-14	3.6163E-14	3.6162E-14	3.6162E-14	3.6162E-14	3.6162E-14	3.6161E-14	3.6161E-14	3.6161E-14	3.6161E-14	3.6160E-14	3.6160E-14	3.6160E-14	3.6163E-14	3.6162E-14
Te123m	2.3565E-22	2.8618E-23	3.4754E-24	4.2205E-25	5.1254E-26	6.2244E-27	7.5589E-28	9.1796E-29	1.1148E-29	1.3538E-30	1.6440E-31	1.9965E-32	2.4246E-33	2.9445E-34	3.5758E-35	4.3424E-36	2.3565E-22	1.6764E-23
Te125m	1.8125E+01	2.3114E-01	2.9475E-03	3.7587E-05	4.7932E-07	6.1123E-09	7.7945E-11	9.9397E-13	1.2675E-14	1.6164E-16	2.0612E-18	2.6285E-20	3.3519E-22	4.2744E-24	5.4508E-26	6.9510E-28	1.8125E+01	1.1475E+00
Te127	7.4836E-19	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.4836E-19	4.6773E-20
Te127m	7.5960E-19	7.4567E-20	7.3199E-21	7.1857E-22	7.0539E-23	6.9245E-24	6.7975E-25	6.6728E-26	6.5504E-27	6.4303E-28	6.3124E-29	6.1966E-30	6.0829E-31	5.9714E-32	5.8618E-33	5.7543E-34	7.5960E-19	5.2643E-20
Te129	5.3969E-70	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.3969E-70	3.3731E-71
Te129m	8.5676E-70	4.5998E-73	2.4696E-76	1.3259E-79	7.1183E-83	3.8217E-86	2.0518E-89	1.1016E-92	5.9142E-96	3.1752E-99	1.7047E-102	9.1524E-106	4.9137E-109	2.6381E-112	1.4164E-115	7.6041E-119	8.5676E-70	5.3576E-71
Th226	2.1787E-116	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1787E-116	1.3617E-117
Th227	1.8163E-04	2.4181E-10	3.2192E-16	4.2858E-22	5.7057E-28	7.5960E-34	1.0113E-39	1.3463E-45	1.7923E-51	2.3861E-57	3.1766E-63	4.2291E-69	5.6302E-75	7.4954E-81	9.9787E-87	1.3285E-92	1.8163E-04	1.1352E-05
Th228	3.2872E-01	2.2867E-01	1.5908E-01	1.1066E-01	7.6981E-02	5.3552E-02	3.7253E-02	2.5915E-02	1.8028E-02	1.2541E-02	8.7240E-03	6.0688E-03	4.2218E-03	2.9369E-03	2.0430E-03	1.4212E-03	3.2872E-01	6.7301E-02
Th229	5.1183E-07	5.1178E-07	5.1173E-07	5.1168E-07	5.1163E-07	5.1157E-07	5.1152E-07	5.1147E-07	5.1141E-07	5.1136E-07	5.1131E-07	5.1125E-07	5.1120E-07	5.1115E-07	5.1110E-07	5.1104E-07	5.1183E-07	5.1144E-07

Table C.4 Model output leachate.

ICDF Leachage Concentration (mg/L or pCi/L)	(Yrs) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Peak Leachate Concentration	Average Leachate Concentration
Th230	1.7338E+00	1.7338E+00	1.7337E+00	1.7337E+00	1.7337E+00	1.7336E+00	1.7336E+00	1.7336E+00	1.7336E+00	1.7335E+00	1.7335E+00	1.7335E+00	1.7334E+00	1.7334E+00	1.7334E+00	1.7333E+00	1.7338E+00	1.7336E+00
Th231	1.6080E+00	6.2176E-104	2.4041E-207	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6080E+00	1.0050E-01
Th232	1.5572E+00	1.5572E+00	1.5572E+00	1.5572E+00	1.5572E+00	1.5571E+00	1.5571E+00	1.5571E+00	1.5571E+00	1.5571E+00	1.5571E+00	1.5571E+00	1.5570E+00	1.5570E+00	1.5570E+00	1.5570E+00	1.5572E+00	1.5571E+00
Th234	1.7121E-02	4.7247E-07	1.3038E-11	3.5977E-16	9.9279E-21	2.7396E-25	7.5599E-30	2.0861E-34	5.7566E-39	1.5885E-43	4.3835E-48	1.2096E-52	3.3380E-57	9.2111E-62	2.5418E-66	7.0140E-71	1.7121E-02	1.0701E-03
Tl207	1.8254E-04	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8254E-04	1.1409E-05
Tl208	1.9794E-03	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9794E-03	1.2371E-04
Tl209	1.0508E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0508E-08	6.5678E-10
Tm170	2.6567E-25	3.7376E-26	5.2583E-27	7.3976E-28	1.0407E-28	1.4641E-29	2.0598E-30	2.8978E-31	4.0768E-32	5.7355E-33	8.0689E-34	1.1352E-34	1.5970E-35	2.2468E-36	3.1608E-37	4.4468E-38	2.6567E-25	1.9323E-26
Tm171	6.6422E-12	4.6294E-12	3.2265E-12	2.2488E-12	1.5673E-12	1.0924E-12	7.6135E-13	5.3063E-13	3.6983E-13	2.5776E-13	1.7965E-13	1.2521E-13	8.7268E-14	6.0823E-14	4.2392E-14	2.9545E-14	6.6422E-12	1.3657E-12
U230	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U232	8.8251E-02	8.7405E-02	8.6555E-02	8.5713E-02	8.4878E-02	8.4052E-02	8.3234E-02	8.2424E-02	8.1622E-02	8.0828E-02	8.0041E-02	7.9262E-02	7.8491E-02	7.7727E-02	7.6971E-02	7.6222E-02	8.8251E-02	8.2105E-02
U233	4.2256E-03	4.2256E-03	4.2249E-03	4.2242E-03	4.2236E-03	4.2229E-03	4.2222E-03	4.2216E-03	4.2209E-03	4.2203E-03	4.2196E-03	4.2189E-03	4.2183E-03	4.2176E-03	4.2170E-03	4.2163E-03	4.2256E-03	4.2212E-03
U234	9.9469E+02	9.9469E+02	9.9454E+02	9.9438E+02	9.9423E+02	9.9407E+02	9.9392E+02	9.9376E+02	9.9361E+02	9.9346E+02	9.9330E+02	9.9315E+02	9.9299E+02	9.9284E+02	9.9269E+02	9.9253E+02	9.9469E+02	9.9368E+02
U235	1.8190E+01	1.8190E+01	1.8188E+01	1.8185E+01	1.8182E+01	1.8179E+01	1.8176E+01	1.8174E+01	1.8171E+01	1.8168E+01	1.8165E+01	1.8163E+01	1.8160E+01	1.8157E+01	1.8154E+01	1.8152E+01	1.8190E+01	1.8172E+01
U236	3.3356E+01	3.3356E+01	3.3351E+01	3.3346E+01	3.3341E+01	3.3336E+01	3.3330E+01	3.3325E+01	3.3320E+01	3.3315E+01	3.3310E+01	3.3305E+01	3.3300E+01	3.3295E+01	3.3290E+01	3.3285E+01	3.3356E+01	3.3323E+01
U237	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U238	3.2215E+02	3.2215E+02	3.2210E+02	3.2205E+02	3.2200E+02	3.2195E+02	3.2190E+02	3.2185E+02	3.2180E+02	3.2176E+02	3.2171E+02	3.2166E+02	3.2161E+02	3.2156E+02	3.2151E+02	3.2146E+02	3.2215E+02	3.2183E+02
U240	4.1882E-09	3.9731E-196	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.1882E-09	2.6176E-10
Xe127	2.6343E-68	2.5240E-71	2.3811E-74	2.2464E-77	2.1192E-80	1.9993E-83	1.8861E-86	1.7794E-89	1.6787E-92	1.5836E-95	1.4940E-98	1.4094E-101	1.3297E-104	1.2544E-107	1.1834E-110	1.1164E-113	2.6343E-68	1.6480E-69
Xe129m	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Xe131m	4.4853E-108	2.6213E-117	1.5084E-126	8.6797E-136	4.9946E-145	2.8740E-154	1.6538E-163	9.5165E-173	5.4761E-182	3.1511E-191	1.8132E-200	1.0434E-209	6.0040E-219	3.4549E-228	1.9880E-237	1.1440E-246	4.4853E-108	2.8033E-109
Xe133	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Y90	1.3452E+05	8.4202E-37	5.2703E-78	3.2988E-119	2.0648E-160	1.2924E-201	8.0892E-243	5.0632E-284	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3452E+05	8.4078E+03
Y91	2.4370E-36	3.2257E-38	4.2698E-40	5.6517E-42	7.4809E-44	9.9022E-46	1.3107E-47	1.7349E-49	2.2965E-51	3.0398E-53	4.0236E-55	5.3259E-57	7.0496E-59	9.3313E-61	1.2351E-62	1.6349E-64	2.4370E-36	1.5435E-37
Zn65	1.6798E-07	5.9558E-08	2.1116E-08	7.4864E-09	2.6542E-09	9.4102E-10	3.3363E-10	1.1828E-10	4.1936E-11	1.4868E-11	5.2713E-12	1.8689E-12	6.6259E-13	2.3491E-13	8.3286E-14	2.9528E-14	1.6798E-07	1.6266E-08
Zr93	1.4275E+00	1.4275E+00	1.4275E+00	1.4275E+00	1.4275E+00	1.4275E+00	1.4275E+00	1.4275E+00	1.4275E+00	1.4275E+00	1.4275E+00	1.4275E+00	1.4275E+00	1.4275E+00	1.4275E+00	1.4275E+00	1.4275E+00	1.4275E+00
Zr95	4.8745E-25	9.3567E-27	1.7960E-28	3.4474E-30	6.6174E-32	1.2702E-33	2.4381E-35	4.6800E-37	8.9833E-39	1.7243E-40	3.3099E-42	6.3533E-44	1.2195E-45	2.3409E-47	4.4933E-49	8.6248E-51	4.8745E-25	3.1062E-26