

APPENDIX A

EVALUATION OF WASTE STREAMS FOR THE NORTH-SOUTH DIVERSION DITCH REMEDIAL ACTION

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EVALUATION OF WASTE STREAMS FOR THE NORTH-SOUTH DIVERSTION DITCH REMEDIAL ACTION

BACKGROUND AND OBJECTIVE

The North-South Diversion Ditch (NSDD) is a surface drainage feature that originates near the C-400 building at PGDP and flows in a generally northward direction for approximately 11,000 ft before discharging into Little Bayou Creek. Past operating practices at the Paducah Gaseous Diffusion Plant resulted in contamination of the NSDD. As a result, the entire length of the NSDD is designated as one of two Solid Waste Management Units (SWMUs). The portion of the ditch located within the security fence is SWMU 59, and the portion situated outside the security fence is SWMU 58. The NSDD has been targeted as a response action. Although the decision has not been finalized, it is likely the action for SWMU 59 will include excavation and disposal of contaminated materials.

This appendix presents an evaluation of the impact of disposing in the C-746-U Landfill materials generated during remediation of SWMU 59. To evaluate the impact, an inventory of contaminants associated with SWMU 59 waste streams was developed and compared to the contaminant inventory limits for the C-746-U Landfill derived in the main text of this report.

METHODS AND RESULTS

Volume of Waste

Two distinct waste streams from the SWMU 59 action were identified:

- Soil and sediment from SWMU 59 (i.e., the portion of the NSDD situated inside the security fence); and
- Soil associated with the creation of a surge basin to be constructed inside the security fence.

Waste volumes were estimated for each of these areas (see Table A.1). Volumes were estimated using the excavation dimensions, volumes, and swell factors specified in the *FY 2002 Oak Ridge Operations Environmental Program Life Cycle Baseline* (LCB) Rev. 8 (DOE 2002). The LCB information was supplemented by information collected during an interview with the remedial design engineer.

Contaminant Concentrations

Analytical data were downloaded from the Paducah Oak Ridge Environmental Information System (OREIS) database for each of the areas described above. The laboratory results for soil and sediment samples collected within 10 ft of the ground surface were considered. Those analytes not appearing on the PGDP list of significant contaminants of potential concern (COPC) were not considered. The list of COPCs was obtained from the PGDP human health risk methods document (DOE 2001). Statistical analytical results for detected analytes for each waste stream are summarized in Tables A.2 and A.3. These statistics include the arithmetic average concentration of each COPC, which was subsequently used in estimating the contaminant inventory expected from the SWMU 59 action.

MASS AND ACTIVITY OF CONTAMINANTS

The mass, or activity when applicable, of each COPC was calculated by using the following equations:

1. To convert concentration (in mg/kg) to mass (in kg):

$$\text{Mass (kg)} = \text{Concentration} \left(\frac{\text{mg}}{\text{kg}} \right) \times \text{Volume} (\text{m}^3) \times \text{Density} \left(\frac{\text{kg}}{\text{m}^3} \right) \times \frac{1 \text{kg}}{1 \times 10^6 \text{ mg}}$$

2. To convert concentration (in pCi/g) to activity in Ci:

$$\text{Activity (Ci)} = \text{Concentration} \left(\frac{\text{pCi}}{\text{g}} \right) \times \text{Volume} (\text{m}^3) \times \text{Density} \left(\frac{\text{kg}}{\text{m}^3} \right) \times \frac{1000 \text{ g}}{1 \text{ kg}} \times \frac{1 \text{ Ci}}{1 \times 10^{12} \text{ pCi}}$$

The density of waste (excavated soil) was set at 1.4 g/cm³ (see Chaps. 3 and 4).

The mass or activity of each COPC was first calculated for each of the waste streams. The mass or activity of each COPC is shown on Tables A.4 and A.5 for the SWMU 59 and surge basin waste streams, respectively. The mass and activity subtotals for the waste streams were then added to yield a total contaminant inventory for the waste streams for each COPC (see Table A.6). If a particular COPC was not detected in the laboratory analysis of samples taken in the waste stream areas, then the inventory of the COPC was assumed to be 0 for that area.

RESULTS AND CONCLUSIONS

As shown in Table A.1, the total waste volume of the two waste streams is 42,764 cubic yards. This value is 2.7% of the planned total volume of C-746-U Landfill (i.e., 1.56 million cubic yards; see Chap. 3).

As shown in Table A.6, the total contaminant mass inventories for the top five chemical analytes on a mass basis are iron (626,000 kg), manganese (19,600 kg), barium (5,120 kg), nickel (4,250 kg), and uranium (3,600 kg). These analytes account for 0.35, 0.23, 0.03, <0.01, and 0.26% of the total contaminant mass inventory limits for these analytes for the C-746-U Landfill. Therefore, of the analytes contributing the greatest mass, none has a percentage that exceeds the volume percentage of 2.7%.

Also as shown in Table A.6, the five chemical analytes with the highest percentage mass inventory compared to their contaminant inventory mass limit are arsenic (0.47%), iron (0.35%), uranium (0.26%), mercury (0.25%), and manganese (0.23%). The masses contributed by these analytes are 243; 626,000; 3,600; 14.2; and 19,600 kg, respectively. Therefore, none of the chemical COPCs contributes a percentage that exceeds the volume percentage of 2.7%.

The five organic compounds with the highest percentage of the contaminant mass inventory limit used are polychlorinated biphenyl; trichloroethene; 1,2-dichloroethene; phenanthrene, and fluoranthene. Each has a percentage of the contaminant inventory limit of less than 0.1%.

The five radionuclides with the highest percentage of the contaminant mass inventory limit used are ⁹⁹Tc (19.13%), ²³⁷Np (0.29%), ²³⁰Th (0.11%), ²³⁸U (0.03%), and ²³⁴U (0.01%). Of these, only the mass percentage of ⁹⁹Tc exceeds the volume percentage of 2.7%. [Note that the result for ²⁴¹Am (0.07%) is not

considered here. This is because all the ^{241}Am can be expected to decay to ^{237}Np prior to transport. Please see the footnote to Table A.6 for additional explanation.]

These results indicate that the total volume of SWMU 59 excavation can be placed in the landfill but that this placement may adversely impact the balance between the percentage of volume taken and the percentage of contaminant inventory limit used for one analyte. This analyte is ^{99}Tc . Because the mass percentage of this analyte exceeds the volume percentage used by SWMU 59 waste, future waste placed within the landfill will need to have the concentration of this analyte reduced below the CERCLA-derived waste disposal criterion to reduce the average overall concentration of this analyte in the landfill to the disposal criteria. Alternatively, the waste from the SWMU 59 action can be monitored to ensure that the inventory of this contaminant in waste is reduced.

If the entire ^{99}Tc is placed in the landfill, then the remaining inventory allowed will be 29.22 Ci. This inventory will be expected in a contaminant mass of 1,754,000,000 kg (i.e., mass limit of landfill minus mass of NSDD soil). This is equivalent to an average concentration (i.e., modified disposal criteria) of 16.7 pCi/g, a value well above the concentration expected for ^{99}Tc in the CERCLA-derived waste stream projected for disposal in the landfill (i.e., 0.7 pCi/g; see Chap. 3).

Finally, it must be cautioned that the results presented here are dependent upon the quality of the data set used to generate the average contaminant concentrations. If these data do not represent areas and volumes within SWMU 59 with higher contaminant concentrations, then the results may be biased low. However, if these data come from sampling biased towards areas of suspected higher contamination, then the results may be biased high. Sampling during waste deposition will be used to address this uncertainty.

REFERENCES

- DOE (U.S. Department of Energy) 1997. *Background Levels of Selected Radionuclides and Metals in Soils and Geologic Media at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-1586&D0, U.S. Department of Energy, Paducah, KY, March.
- DOE 2001. *Methods for Conducting Risk Assessments and Risk Evaluations at the Paducah Gaseous Diffusion Plant, Paducah Kentucky, Volume 1. Human Health*, DOE/OR/07-1506&D2.
- DOE 2002. *FY 2002 Oak Ridge Operations Environmental Programs Life Cycle Baseline (LCB)*, Rev. 8, U.S. Department of Energy, Oak Ridge, TN.

Table A.1. NSDD Waste Generation Values

Waste Stream	Section	Excavation			Volume (cubic ft)	Volume (cubic yds)	Volume with 25% swell (cubic yds)
		Depth (feet)	Width (feet)	Length (feet)			
SWMU 59	1	4	35	2,380	333,200	12,341	15,426
SWMU 59	2	4	35	380	53,200	1,970	2,463
Total SWMU 59							17,889
Surge Basin	2					19,900	24,875

Excavation dimension and swell factor from 2002 LCB Rev 8 (DOE 2002).

Surge basin volume of 19,900 cy equals 15,700 (from LCB) plus 4,200 (existing spoil pile per A. Crabtree, 11/06/01).

Table A.2. Summary statistics for COPCs detected in soil at SWMU 59

Analysis Type	COPC	Units	Proportion Detected	Minimum Detect	Arithmetic Mean	Maximum Detect
Inorganics	Antimony	mg/kg	10/113	6.00E-01	8.31E+00	2.90E+00
Inorganics	Arsenic	mg/kg	67/112	1.30E+00	7.62E+00	1.30E+02
Inorganics	Barium	mg/kg	115/115	2.91E+01	1.46E+02	9.22E+02
Inorganics	Beryllium	mg/kg	72/114	2.90E-01	1.36E+00	1.37E+01
Inorganics	Cadmium	mg/kg	13/115	3.00E-02	9.08E-01	3.40E+00
Inorganics	Chromium	mg/kg	115/116	5.70E+00	3.30E+01	4.61E+02
Inorganics	Copper	mg/kg	113/113	2.92E+00	1.34E+02	9.52E+03
Inorganics	Iron	mg/kg	113/113	3.84E+03	1.35E+04	5.17E+04
Inorganics	Lead	mg/kg	44/115	4.30E+00	1.83E+01	4.11E+02
Inorganics	Manganese	mg/kg	112/112	6.68E+01	3.49E+02	4.15E+03
Inorganics	Mercury	mg/kg	29/116	1.63E-02	2.67E-01	1.23E+01
Inorganics	Molybdenum	mg/kg	1/3	4.20E+00	1.90E+00	4.20E+00
Inorganics	Nickel	mg/kg	112/115	5.21E+00	1.87E+02	1.76E+04
Inorganics	Selenium	mg/kg	14/112	2.40E-01	6.88E-01	1.25E+01
Inorganics	Silver	mg/kg	22/115	1.00E-01	1.94E+00	2.42E+01
Inorganics	Thallium	mg/kg	3/114	4.20E-01	7.75E+00	1.30E+00
Inorganics	Uranium	mg/kg	14/90	2.20E+01	1.01E+02	2.10E+03
Inorganics	Vanadium	mg/kg	109/111	6.20E+00	2.87E+01	1.23E+02
Inorganics	Zinc	mg/kg	113/113	1.11E+01	4.60E+01	2.03E+02
Organics	Acenaphthene	mg/kg	3/115	5.00E-02	2.78E-01	1.80E+00
Organics	Anthracene	mg/kg	4/116	1.60E-01	2.90E-01	1.90E+00
Organics	Benzo(a)pyrene	mg/kg	10/116	4.00E-02	3.44E-01	4.00E+00
Organics	Dichloroethene, 1,2-(Mixed Isomers)	mg/kg	2/9	5.00E-03	4.94E-03	1.40E-02
Organics	Fluoranthene	mg/kg	14/41	4.00E-02	6.35E-01	9.10E+00
Organics	Fluorene	mg/kg	2/116	5.00E-02	2.72E-01	1.50E+00
Organics	Naphthalene	mg/kg	5/116	5.40E-01	3.17E-01	4.10E+00
Organics	Pentachlorophenol	mg/kg	1/109	5.10E-01	4.89E-01	5.10E-01
Organics	Phenanthrene	mg/kg	15/116	4.00E-02	5.71E-01	1.80E+01
Organics	Polychlorinated biphenyl (Total)	mg/kg	133/214	5.60E-03	5.62E-01	2.21E+01
Organics	Pyrene	mg/kg	17/116	7.00E-02	4.94E-01	8.60E+00
Organics	Trichloroethene	mg/kg	6/115	2.00E-03	4.34E-02	2.60E-02
Radionuclides	Americium-241	pCi/g	27/95	1.00E-01	4.07E-01	1.13E+01
Radionuclides	Cesium-137	pCi/g	60/98	2.63E-02	4.08E-01	1.11E+01
Radionuclides	Cobalt-60	pCi/g	1/89	-5.40E-03	2.69E-02	-5.40E-03
Radionuclides	Neptunium-237	pCi/g	47/102	9.26E-02	3.18E+00	6.30E+01
Radionuclides	Plutonium-238	pCi/g	2/84	6.56E-01	1.62E-02	7.86E-01
Radionuclides	Plutonium-239	pCi/g	14/17	1.00E-01	5.67E+00	5.30E+01
Radionuclides	Plutonium-239/240	pCi/g	52/84	3.99E-02	1.94E+00	4.39E+01
Radionuclides	Technetium-99	pCi/g	78/106	9.00E-01	1.47E+02	4.84E+03
Radionuclides	Thorium-228	pCi/g	83/84	1.55E-01	8.28E-01	1.39E+01
Radionuclides	Thorium-230	pCi/g	100/100	2.59E-01	5.37E+01	1.30E+03
Radionuclides	Thorium-232	pCi/g	84/84	2.26E-01	8.34E-01	1.26E+01
Radionuclides	Uranium-234	pCi/g	63/92	1.60E-01	1.02E+01	1.50E+02
Radionuclides	Uranium-235	pCi/g	13/19	5.40E-03	1.72E+00	5.00E+00
Radionuclides	Uranium-238	pCi/g	94/96	1.40E-01	1.49E+01	2.10E+02

Only COPCs detected in one or more samples are shown.

Proportion detected is the number of samples in which a COPC was detected over the number of samples analyzed.

Table A.3. Summary statistics for COPCs detected in soil at planned NSDD Surge Basin

Analysis Type	Analyte	Units	Proportion Detected	Minimum Detect	Arithmetic Mean	Maximum Detect
Inorganics	Arsenic	mg/kg	7/24	5.04E+00	3.65E+00	7.65E+00
Inorganics	Barium	mg/kg	24/24	5.93E+01	8.72E+01	2.14E+02
Inorganics	Beryllium	mg/kg	4/24	5.05E-01	3.21E-01	1.03E+00
Inorganics	Chromium	mg/kg	24/24	1.04E+01	3.05E+01	2.75E+02
Inorganics	Copper	mg/kg	24/24	4.52E+00	2.86E+01	1.83E+02
Inorganics	Iron	mg/kg	24/24	8.80E+03	1.38E+04	3.05E+04
Inorganics	Lead	mg/kg	2/24	2.28E+01	1.15E+01	3.30E+01
Inorganics	Manganese	mg/kg	24/24	1.03E+02	4.86E+02	1.47E+03
Inorganics	Mercury	mg/kg	4/24	2.80E-01	3.41E-01	5.03E+00
Inorganics	Nickel	mg/kg	24/24	8.03E+00	2.53E+01	1.08E+02
Inorganics	Selenium	mg/kg	11/24	1.01E+00	8.91E-01	1.95E+00
Inorganics	Silver	mg/kg	1/24	6.80E+00	1.48E+00	6.80E+00
Inorganics	Uranium	mg/kg	4/26	6.80E+01	6.25E+01	2.00E+02
Inorganics	Vanadium	mg/kg	24/24	1.88E+01	2.67E+01	4.09E+01
Inorganics	Zinc	mg/kg	24/24	1.56E+01	3.92E+01	1.40E+02
Organics	Polychlorinated biphenyl	mg/kg	31/50	9.00E-01	1.52E+00	2.51E+01
Radionuclides	Americium-241	pCi/g	7/24	4.54E-01	7.81E-01	8.53E+00
Radionuclides	Cesium-137	pCi/g	10/24	4.72E-02	5.69E-01	5.32E+00
Radionuclides	Neptunium-237	pCi/g	9/25	3.25E-01	2.18E+00	2.15E+01
Radionuclides	Plutonium-238	pCi/g	3/24	3.44E-01	6.37E-02	6.01E-01
Radionuclides	Plutonium-239	pCi/g	1/1	4.40E+01	4.40E+01	4.40E+01
Radionuclides	Plutonium-239/240	pCi/g	10/24	1.53E-01	4.55E+00	3.60E+01
Radionuclides	Technetium-99	pCi/g	17/27	3.51E+00	1.54E+02	2.40E+03
Radionuclides	Thorium-228	pCi/g	24/24	3.27E-01	1.86E+00	1.23E+01
Radionuclides	Thorium-230	pCi/g	25/25	4.40E-03	1.51E+02	1.17E+03
Radionuclides	Thorium-232	pCi/g	24/24	3.81E-01	1.95E+00	1.18E+01
Radionuclides	Uranium-234	pCi/g	10/24	1.75E+00	5.22E+00	2.99E+01
Radionuclides	Uranium-235	pCi/g	1/1	1.20E-01	1.20E-01	1.20E-01
Radionuclides	Uranium-238	pCi/g	25/25	1.01E+00	7.23E+00	3.59E+01

Only COPCs detected in one or more samples are shown.

Proportion detected is the number of samples in which a COPC was detected over the number of samples analyzed.

Table A.4. Contaminant inventory for SWMU 59 – Sections 1 and 2 of the NSDD

Soil	Analyte	Units	Arithmetic Mean	Average Background	Units	Contaminant Inventory
Waste Volume (Soil)	Antimony	mg/kg	8.31E+00	2.10E-01	kg	1.59E+02
17,889 cubic yards	Arsenic	mg/kg	7.62E+00	1.99E+00	kg	1.46E+02
13,677 cubic meters	Barium	mg/kg	1.46E+02	3.89E+01	kg	2.80E+03
Density of Soil	Beryllium	mg/kg	1.36E+00	4.90E-01	kg	2.60E+01
1.4 g per cubic cm	Cadmium	mg/kg	9.08E-01	2.10E-01	kg	1.74E+01
1,400 kg per cubic m	Chromium	mg/kg	3.30E+01	1.10E+01	kg	6.32E+02
Total Mass of Soil	Copper	mg/kg	1.34E+02	6.17E+00	kg	2.57E+03
19,147,730 kg	Iron	mg/kg	1.35E+04	1.18E+04	kg	2.58E+05
	Lead	mg/kg	1.83E+01	6.89E+00	kg	3.50E+02
	Manganese	mg/kg	3.49E+02	1.25E+02	kg	6.68E+03
	Mercury	mg/kg	2.67E-01	1.00E-01	kg	5.11E+00
	Molybdenum	mg/kg	1.90E+00	0.00E+00	kg	3.64E+01
	Nickel	mg/kg	1.87E+02	7.61E+00	kg	3.58E+03
	Selenium	mg/kg	6.88E-01	3.00E-01	kg	1.32E+01
	Silver	mg/kg	1.94E+00	9.60E-01	kg	3.71E+01
	Thallium	mg/kg	7.75E+00	2.30E-01	kg	1.48E+02
	Uranium	mg/kg	1.01E+02	3.62E+00	kg	1.93E+03
	Vanadium	mg/kg	2.87E+01	1.71E+01	kg	5.50E+02
	Zinc	mg/kg	4.60E+01	1.89E+01	kg	8.81E+02
	Acenaphthene	mg/kg	2.78E-01	0.00E+00	kg	5.32E+00
	Anthracene	mg/kg	2.90E-01	0.00E+00	kg	5.55E+00
	Benzo(a)pyrene	mg/kg	3.44E-01	0.00E+00	kg	6.59E+00
	Dichloroethene,	mg/kg	4.94E-03	0.00E+00	kg	9.46E-02
	1,2- (Mixed Isomers)					
	Fluoranthene	mg/kg	6.35E-01	0.00E+00	kg	1.22E+01
	Fluorene	mg/kg	2.72E-01	0.00E+00	kg	5.21E+00
	Naphthalene	mg/kg	3.17E-01	0.00E+00	kg	6.07E+00
	Pentachlorophenol	mg/kg	4.89E-01	0.00E+00	kg	9.36E+00
	Phenanthrene	mg/kg	5.71E-01	0.00E+00	kg	1.09E+01
	Polychlorinated biphenyl (Total)	mg/kg	5.62E-01	0.00E+00	kg	1.08E+01
	Pyrene	mg/kg	4.94E-01	0.00E+00	kg	9.46E+00
	Trichloroethene	mg/kg	4.34E-02	0.00E+00	kg	8.31E-01
	Americium-241	pCi/g	4.07E-01	0.00E+00	Ci	7.79E-03
	Cesium-137	pCi/g	4.08E-01	3.70E-02	Ci	7.81E-03
	Cobalt-60	pCi/g	2.69E-02	0.00E+00	Ci	5.15E-04
	Neptunium-237	pCi/g	3.18E+00	0.00E+00	Ci	6.09E-02
	Plutonium-238	pCi/g	1.62E-02	0.00E+00	Ci	3.10E-04
	Plutonium-239	pCi/g	5.67E+00	0.00E+00	Ci	1.09E-01
	Plutonium-239/240	pCi/g	1.94E+00	0.00E+00	Ci	3.71E-02
	Technetium-99	pCi/g	1.47E+02	3.95E-01	Ci	2.81E+00
	Thorium-228	pCi/g	8.28E-01	1.15E+00	Ci	1.59E-02
	Thorium-230	pCi/g	5.37E+01	1.11E+00	Ci	1.03E+00
	Thorium-232	pCi/g	8.34E-01	1.09E+00	Ci	1.60E-02
	Uranium-234	pCi/g	1.02E+01	8.79E-01	Ci	1.95E-01
	Uranium-235	pCi/g	1.72E+00	5.30E-02	Ci	3.29E-02
	Uranium-238	pCi/g	1.49E+01	9.11E-01	Ci	2.85E-01

Table A.5. Contaminant Inventory for the planned NSDD Surge Basin

Soil	Analyte	Units	Arithmetic Mean	Average Background	Units	Contaminant Inventory
Waste Volume (Soil)	Arsenic	mg/kg	3.65E+00	1.99E+00	kg	9.72E+01
24,875 cubic yards	Barium	mg/kg	8.72E+01	3.89E+01	kg	2.32E+03
19,018 cubic meters	Beryllium	mg/kg	3.21E-01	4.90E-01	kg	8.55E+00
Density of Soil	Chromium	mg/kg	3.05E+01	1.10E+01	kg	8.12E+02
1.4 g per cubic cm	Copper	mg/kg	2.86E+01	6.17E+00	kg	7.61E+02
1,400 kg per cubic m	Iron	mg/kg	1.38E+04	1.18E+04	kg	3.67E+05
Total Mass of Soil	Lead	mg/kg	1.15E+01	6.89E+00	kg	3.06E+02
26,625,454 kg	Manganese	mg/kg	4.86E+02	1.25E+02	kg	1.29E+04
	Mercury	mg/kg	3.41E-01	1.00E-01	kg	9.08E+00
	Nickel	mg/kg	2.53E+01	7.61E+00	kg	6.74E+02
	Selenium	mg/kg	8.91E-01	3.00E-01	kg	2.37E+01
	Silver	mg/kg	1.48E+00	9.60E-01	kg	3.94E+01
	Uranium	mg/kg	6.25E+01	3.62E+00	kg	1.66E+03
	Vanadium	mg/kg	2.67E+01	1.71E+01	kg	7.11E+02
	Zinc	mg/kg	3.92E+01	1.89E+01	kg	1.04E+03
	Polychlorinated biphenyl	mg/kg	1.52E+00	0.00E+00	kg	4.05E+01
	Americium-241	pCi/g	7.81E-01	0.00E+00	Ci	2.08E-02
	Cesium-137	pCi/g	5.69E-01	3.70E-02	Ci	1.51E-02
	Neptunium-237	pCi/g	2.18E+00	0.00E+00	Ci	5.80E-02
	Plutonium-238	pCi/g	6.37E-02	0.00E+00	Ci	1.70E-03
	Plutonium-239	pCi/g	4.40E+01	0.00E+00	Ci	1.17E+00
	Plutonium-239/240	pCi/g	4.55E+00	0.00E+00	Ci	1.21E-01
	Technetium-99	pCi/g	1.54E+02	3.95E-01	Ci	4.10E+00
	Thorium-228	pCi/g	1.86E+00	1.15E+00	Ci	4.95E-02
	Thorium-230	pCi/g	1.51E+02	1.11E+00	Ci	4.02E+00
	Thorium-232	pCi/g	1.95E+00	1.09E+00	Ci	5.19E-02
	Uranium-234	pCi/g	5.22E+00	8.79E-01	Ci	1.39E-01
	Uranium-235	pCi/g	1.20E-01	5.30E-02	Ci	3.20E-03
	Uranium-238	pCi/g	7.23E+00	9.11E-01	Ci	1.93E-01

Table A.6. Summation of contaminant inventory from SWMU 59 response action and comparison to C-756-U contaminant inventory limits

COPC	Units	SWMU 59 Inventory	Basin Inventory	Contaminant Inventory for Sects. 1 and 2 of the NSDD	C-746-U Landfill Inventory Limit	Percent of C-746-U Landfill Inventory
Antimony	kg	1.59E+02		1.59E+02	1.215E+05	0.13%
Arsenic	kg	1.46E+02	9.72E+01	2.43E+02	5.153E+04	0.47%
Barium	kg	2.80E+03	2.32E+03	5.12E+03	2.040E+07	0.03%
Beryllium	kg	2.60E+01	8.55E+00	3.46E+01	4.294E+07	<0.01%
Cadmium	kg	1.74E+01		1.74E+01	1.020E+06	<0.01%
Chromium	kg	6.32E+02	8.12E+02	1.44E+03	7.819E+06	0.02%
Copper	kg	2.57E+03	7.61E+02	3.33E+03	9.339E+06	0.04%
Iron	kg	2.58E+05	3.67E+05	6.26E+05	1.789E+08	0.35%
Lead	kg	3.50E+02	3.06E+02	6.57E+02	1.390E+08	<0.01%
Manganese	kg	6.68E+03	1.29E+04	1.96E+04	8.373E+06	0.23%
Mercury	kg	5.11E+00	9.08E+00	1.42E+01	5.600E+03	0.25%
Molybdenum	kg	3.64E+01		3.64E+01	6.924E+04	0.05%
Nickel	kg	3.58E+03	6.74E+02	4.25E+03	1.789E+08	<0.01%
Selenium	kg	1.32E+01	2.37E+01	3.69E+01	1.390E+05	0.03%
Silver	kg	3.71E+01	3.94E+01	7.66E+01	1.390E+07	<0.01%
Thallium	kg	1.48E+02		1.48E+02	1.753E+05	0.08%
Uranium	kg	1.93E+03	1.66E+03	3.60E+03	1.394E+06	0.26%
Vanadium	kg	5.50E+02	7.11E+02	1.26E+03	1.789E+08	<0.01%
Zinc	kg	8.81E+02	1.04E+03	1.92E+03	1.337E+08	<0.01%
Acenaphthene	kg	5.32E+00		5.32E+00	1.789E+08	<0.01%
Anthracene	kg	5.55E+00		5.55E+00	1.789E+08	<0.01%
Benzo(a)pyrene	kg	6.59E+00		6.59E+00	1.789E+08	<0.01%
Dichloroethene, 1,2-(Mixed Isomers)	kg	9.46E-02		9.46E-02	3.757E+05	<0.01%
Fluoranthene	kg	1.22E+01		1.22E+01	1.789E+08	<0.01%
Fluorene	kg	5.21E+00		5.21E+00	1.789E+08	<0.01%
Naphthalene	kg	6.07E+00		6.07E+00	1.789E+08	<0.01%
Pentachlorophenol	kg	9.36E+00		9.36E+00	1.789E+08	<0.01%
Phenanthrene	kg	1.09E+01		1.09E+01	1.789E+08	<0.01%
Polychlorinated biphenyl (Total)	kg	1.08E+01	4.05E+01	5.12E+01	3.095E+05	0.02%
Pyrene	kg	9.46E+00		9.46E+00	1.789E+08	<0.01%
Trichloroethene	kg	8.31E-01		8.31E-01	1.480E+05	<0.01%
Americium-241 ^a	Ci	7.79E-03	2.08E-02	2.86E-02	4.044E+01	0.07%
Neptunium-237	Ci	6.09E-02	5.80E-02	1.19E-01	4.044E+01	0.29%
Plutonium-238	Ci	3.10E-04	1.70E-03	2.01E-03	1.013E+04	<0.01%
Plutonium-239	Ci	1.09E-01	1.17E+00	1.28E+00	9.823E+03	0.01%
Plutonium-239/240	Ci	3.71E-02	1.21E-01	1.58E-01	9.823E+03	<0.01%
Technetium-99	Ci	2.81E+00	4.10E+00	6.92E+00	3.614E+01	19.13%
Thorium-230	Ci	1.03E+00	4.02E+00	5.05E+00	4.419E+03	0.11%
Thorium-232	Ci	1.60E-02	5.19E-02	6.79E-02	5.350E+03	<0.01%
Uranium-234	Ci	1.95E-01	1.39E-01	3.34E-01	2.272E+03	0.01%
Uranium-235	Ci	3.29E-02	3.20E-03	3.61E-02	2.236E+03	<0.01%
Uranium-238	Ci	2.85E-01	1.93E-01	4.78E-01	1.843E+03	0.03%

Blank cells indicate that the COPC was not detected in any sample taken from the area.

^aThe C-746-U Landfill contaminant inventory limit for ²⁴¹Am used is that for ²³⁷Np. The ²³⁷Np limit is used because all ²⁴¹Am can be expected to decay to ²³⁷Np before the radionuclide migrates to the exposure point.

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APPENDIX B

**EVALUATION OF WASTE STREAMS FOR THE
SCRAP METAL REMOVAL ACTION**

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APPENDIX B

EVALUATION OF WASTE STREAMS FOR THE SCRAP METAL REMOVAL ACTION

BACKGROUND AND OBJECTIVE

Scrap metal contaminated with radionuclides and other constituents is currently being stored in aboveground piles in the northwest corner of the Paducah Gaseous Diffusion Plant (PGDP). An Engineering Evaluation/Cost Analysis (EE/CA) has been prepared for removal of the contaminated scrap metal and disposal of contaminated materials. Results of that EE/CA are presented in *Engineering Evaluation/Cost Analysis for Scrap Metal Disposition at the PGDP, Paducah, Kentucky* (DOE 2001a).

This appendix presents an evaluation of the impact of disposing materials generated during removal of the contaminated scrap metal in the C-746-U Landfill. To evaluate the impact, an inventory of contaminants associated with the scrap metal waste streams was developed and compared to the contaminant inventory limits for the C-746-U Landfill derived in the main text of this report.

METHODS AND RESULTS

Volume and Mass of Waste

Several distinct waste streams from the scrap metal removal action were identified:

- Aluminum, copper, iron, and stainless steel scrap metal;
- Nickel ingots to be relocated to further on-site storage;
- Classified scrap metal to be disposed off-site and not within the C-746-U Landfill;
- Wood scrap, predominantly from wooden pallets beneath the scrap metal;
- Soil associated with the surface of the scrap metal during removal; and
- Personal protective equipment (PPE) and plastic generated during the removal action.

Because the nickel ingots and classified scrap are not to be disposed in the C-746-U Landfill, these waste streams were not evaluated further.

Waste volumes and mass were estimated for each of the remaining waste streams (see Table B.1). Volumes and mass were estimated using the estimated values for on-site disposal as presented in the EE/CA. The EE/CA information was supplemented by estimating the volumes of incidental soil on the surface of the scrap metal, and the likely volumes of PPE/plastic that would be generated. For estimating purposes, the volume of incidental soil was assumed to be 1/1000th of the volume of the scrap metal itself. (The volume of soil was assumed to be 1/1000th of the volume of scrap metal in order to provide a conservative estimate of the contaminant inventory and use of landfill volume.) Other significant assumptions are as follows:

- Classified metal will not go to C-746-U Landfill.
- No volatile organic compounds are associated with scrap metal due to weathering.
- Total PPE and plastic utilized during the project will be an insignificant volume (see Table B.1).

Contaminant Concentrations

For the wood, soil on the surface of the metal scrap, and PPE/plastic, it was assumed that contamination would be similar to the average soil concentrations present across the PGDP. Analytical data were downloaded from the Paducah Oak Ridge Environmental Information System (OREIS) database for the entire plant site. The laboratory results for soil samples collected within 10 ft of the ground surface were considered. Those analytes not appearing on the list of contaminants of potential concern (COPCs) were not considered. The list of COPCs was obtained from the PGDP human health risk methods document (DOE 2001b). Analytical results for detected analytes for these waste streams are summarized in Table B.2. These results include the arithmetic average concentration of each COPC, which was subsequently used in estimating the contaminant inventory expected from the scrap metal removal action.

No analytical data are available for the scrap metal. An estimate of the radiological contamination was made by assuming that the volume of waste targeted for on-site disposal within the C-746-U Landfill would meet the limits for release of equipment and material for unrestricted use, as established in accordance with DOE Order 5400.5 (DOE 1993) and Reg. Guide 1.86 (NRC 1974). These limits (as taken from the EE/CA) are:

Alpha: Total: 100 dpm per 100 cm²
 Removable: 20 dpm per 100 cm²

Beta/Gamma: Total: 5000 dpm per 100 cm²
 Removable: 1000 dpm per 100 cm²

Contamination was assumed to be controlled by total beta/gamma contamination of 5000 dpm per 100 cm². PGDP average isotopic distribution values, as found in *Isotopic Distribution of Contamination Found at the U.S. Department of Energy Gaseous Diffusion Plants* (Rucker, 1999), were applied as scaling factors to derive isotopic concentrations. Technetium-99 concentration was assumed to be low due to weathering. This is reasonable given that the scrap has lain exposed to precipitation and surface wash for several years. The estimated radioisotopic concentrations on the scrap metal are presented in Table B.3. These results include the arithmetic average concentration of each COPC, which was subsequently used in estimating the contaminant inventory expected from the scrap metal removal action.

Mass and Activity of Contaminants

The mass of copper and iron in the scrap metal was taken as the total mass of the scrap as defined in the EE/CA. This assumes that this mass of copper and iron would be available for transport in leachate. For other constituents, the mass, or activity when applicable, of each COPC was calculated from its contaminant concentration by using the following equations:

To convert concentration (in mg/kg) to mass (in kg):

$$\text{Mass (kg)} = \text{Concentration} \left(\frac{\text{mg}}{\text{kg}} \right) \times \text{Volume} (\text{m}^3) \times \text{Density} \left(\frac{\text{kg}}{\text{m}^3} \right) \times \frac{1 \text{ kg}}{1 \times 10^6 \text{ mg}}$$

To convert concentration (in pCi/g) to activity (in Ci):

$$\text{Activity (Ci)} = \text{Concentration} \left(\frac{\text{pCi}}{\text{g}} \right) \times \text{Volume} (\text{m}^3) \times \text{Density} \left(\frac{\text{kg}}{\text{m}^3} \right) \times \frac{1000 \text{ g}}{1 \text{ kg}} \times \frac{1 \text{ Ci}}{1 \times 10^{12} \text{ pCi}}$$

The mass or activity of each COPC was first calculated for each waste stream, as shown on Tables B.2 and B.3 for the wood/soil/PPE/plastic and scrap metal waste streams, respectively. The mass and activity subtotals for the waste streams were then added to yield a total contaminant inventory for the waste streams for each COPC (see Table B.4).

CONCLUSIONS

As seen on Table B.4, the mass inventory of iron from the scrap metal removal action would comprise 5.81% of the total mass inventory limits for iron derived for the C-746-U Landfill. The volume of waste represented by the scrap metal would comprise only 1% of the landfill volume capacity. Therefore, the scrap designated for disposal within the C-746-U Landfill would be acceptable; however the remaining volume of materials placed within the landfill would be required to have a lower average iron concentration if it is assumed all the iron is in a form that may leach from the landfill. Specifically, if the iron inventory from the scrap metal removal action is placed in the landfill, then the disposal criterion for iron for subsequent wastes would be reduced to 93,600 mg/kg from the current 100,000 mg/kg.

No other constituent in the scrap has a greater percentage of mass inventory volume than the volume percentage of the scrap waste has of the total C-746-U volume (1%). Therefore, the scrap would be acceptable and would not adversely affect the remaining contaminant mass inventory limits for the C-746-U Landfill. In fact, the disposal criteria for the other constituents would be increased over their current value.

REFERENCES

- DOE (U.S. Department of Energy) 1993. *Radiation Protection of the Public and the Environment*, U.S. Department of Energy, Washington, D.C., DOE Order 5400.5.
- DOE 2001a. *Engineering Evaluation/Cost Analysis for Scrap Metal Disposition at the PGDP, Paducah, Kentucky* (DOE/OR/07-1880&D2/R1), March.
- DOE 2001b. *Methods for Conducting Risk Assessments and Risk Evaluations at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky. Volume 1 Human Health and Volume 2. Ecological* DOE/OR/07-1506&D2/V1 & V2/R0.
- NRC 1974. *Termination of Operation Licenses for Nuclear Reactors*, NRC Reg. Guide 1.86, June.
- Rucker, T. L., 1999. *Isotopic Distribution of Contamination Found at the U.S. Department of Energy Gaseous Diffusion Plants*, SAIC Report for the Bechtel Jacobs Company Reindustrialization Program and the U.S. DOE National Center of Excellence for Metals Recycle, October.

Table B.1. Scrap metal removal waste generation values

Waste Stream	On-site Disposal Volume (cf)	On-site Disposal Volume (cy)	On-site Disposal Weight (tons)	On-site Disposal Weight (kg)
Aluminum	47,815	1,771	1,554	1,409,789
Nickel	0	0	0	0
Copper	646	24	21	19,051
Iron	352,062	13,039	11,442	10,380,182
Stainless steel	646	24	21	19,051
Classified metal	0	0	0	0
Wood	<u>11,190</u>	<u>414</u>	<u>234</u>	<u>212,285</u>
Subtotal	412,359	15,273	13,272	12,040,358
Soil on metal surfaces	412	15	18	16,340
PPE/plastic	1.11	0.04	0.02	16
Total	412,771	15,288	13,290	12,056,699

Source: DOE 2001a.

Table B.2. Contaminant inventory: soil, wood, PPE/plastic

	Analysis Type	Analyte	Units	Arithmetic Mean	Units	Contaminant Inventory
Waste Volume	Inorganics	Antimony	mg/kg	4.09E+00	kg	9.35E-01
429 cubic yards	Inorganics	Arsenic	mg/kg	3.90E+00	kg	8.92E-01
Waste Mass	Inorganics	Beryllium	mg/kg	1.12E+00	kg	2.56E-01
228,641 kg	Inorganics	Cadmium	mg/kg	1.03E+00	kg	2.36E-01
	Inorganics	Chromium	mg/kg	3.64E+01	kg	8.32E+00
	Inorganics	Chromium, hexavalent	mg/kg	1.00E+00	kg	2.29E-01
	Inorganics	Copper	mg/kg	2.69E+01	kg	6.15E+00
	Inorganics	Iron	mg/kg	1.37E+04	kg	3.13E+03
	Inorganics	Lead	mg/kg	1.22E+01	kg	2.79E+00
	Inorganics	Manganese	mg/kg	2.79E+02	kg	6.38E+01
	Inorganics	Mercury	mg/kg	1.55E-01	kg	3.54E-02
	Inorganics	Molybdenum	mg/kg	2.60E+00	kg	5.94E-01
	Inorganics	Nickel	mg/kg	4.46E+01	kg	1.02E+01
	Inorganics	Selenium	mg/kg	3.57E-01	kg	8.16E-02
	Inorganics	Silver	mg/kg	1.24E+00	kg	2.84E-01
	Inorganics	Thallium	mg/kg	7.06E-01	kg	1.61E-01
	Inorganics	Uranium	mg/kg	2.09E+01	kg	4.78E+00
	Inorganics	Vanadium	mg/kg	2.02E+01	kg	4.62E+00
	Inorganics	Zinc	mg/kg	3.35E+01	kg	7.66E+00
	Organics	1,1-Dichloroethene	mg/kg	1.18E+00	kg	2.70E-01
	Organics	1,2-Dichloroethene	mg/kg	2.96E-02	kg	6.77E-03
	Organics	Acenaphthene	mg/kg	8.95E+00	kg	2.05E+00
	Organics	Acenaphthylene	mg/kg	1.44E-01	kg	3.29E-02
	Organics	Acrylonitrile	mg/kg	1.23E-02	kg	2.81E-03
	Organics	Anthracene	mg/kg	1.19E+01	kg	2.72E+00
	Organics	Benzene	mg/kg	3.49E-02	kg	7.98E-03
	Organics	Carbon tetrachloride	mg/kg	3.51E-02	kg	8.03E-03
	Organics	Chloroform	mg/kg	3.40E-02	kg	7.77E-03
	Organics	cis-1,2-Dichloroethene	mg/kg	2.53E+00	kg	5.78E-01
	Organics	Dioxins/Furans (Total)	mg/kg	1.22E-04	kg	2.80E-05
	Organics	Ethylbenzene	mg/kg	3.51E-02	kg	8.03E-03
	Organics	Fluoranthene	mg/kg	4.18E+01	kg	9.56E+00
	Organics	Fluorene	mg/kg	8.57E+00	kg	1.96E+00
	Organics	m,p-Xylene	mg/kg	2.95E-03	kg	6.74E-04
	Organics	Naphthalene	mg/kg	3.77E+00	kg	8.62E-01
	Organics	Phenanthrene	mg/kg	4.35E+01	kg	9.95E+00
	Organics	Polychlorinated Biphenyls (Total) (high risk)	mg/kg	2.18E+00	kg	4.98E-01
	Organics	Polycyclic aromatic hydrocarbons (PAH)	mg/kg	5.22E-02	kg	1.19E-02
	Organics	Pyrene	mg/kg	2.96E+01	kg	6.77E+00
	Organics	Tetrachloroethene	mg/kg	3.66E-02	kg	8.37E-03
	Organics	trans-1,2-Dichloroethene	mg/kg	3.58E+00	kg	8.19E-01
	Organics	Trichloroethene	mg/kg	2.49E+01	kg	5.69E+00
	Organics	Vinyl chloride	mg/kg	2.54E+00	kg	5.81E-01
	Radionuclides	Americium-241	pCi/g	9.54E-01	Ci	2.18E-04
	Radionuclides	Cesium-137	pCi/g	1.56E-01	Ci	3.57E-05
	Radionuclides	Cobalt-60	pCi/g	5.55E-01	Ci	1.27E-04
	Radionuclides	Neptunium-237	pCi/g	3.36E-01	Ci	7.68E-05
	Radionuclides	Plutonium-238	pCi/g	2.10E-03	Ci	4.80E-07
	Radionuclides	Plutonium-239	pCi/g	2.36E-01	Ci	5.40E-05
	Radionuclides	Plutonium-239/240	pCi/g	1.59E+00	Ci	3.64E-04

Table B.2. Contaminant inventory: soil, wood, PPE/plastic (continued)

Analysis Type	Analyte	Units	Arithmetic Mean	Units	Contaminant Inventory
Radionuclides	Radium-226	pCi/g	6.74E-01	Ci	1.54E-04
Radionuclides	Radon-222	pCi/g	7.37E-01	Ci	1.69E-04
Radionuclides	Strontium-90	pCi/g	1.95E-02	Ci	4.46E-06
Radionuclides	Technetium-99	pCi/g	2.65E+01	Ci	6.06E-03
Radionuclides	Thorium-228	pCi/g	8.00E-01	Ci	1.83E-04
Radionuclides	Thorium-230	pCi/g	4.26E+00	Ci	9.74E-04
Radionuclides	Thorium-232	pCi/g	7.08E-01	Ci	1.62E-04
Radionuclides	Uranium-234	pCi/g	4.00E+00	Ci	9.15E-04
Radionuclides	Uranium-235	pCi/g	2.48E-01	Ci	5.67E-05
Radionuclides	Uranium-238	pCi/g	1.14E+01	Ci	2.61E-03

Table B.3. Contaminant inventory: scrap metal

	Analysis Type	Analyte	Units	Arithmetic Mean	Units	Contaminant Inventory
Waste Volume	Inorganics	Antimony	mg/kg		kg	0.00E+00
14,859 cubic yards	Inorganics	Arsenic	mg/kg		kg	0.00E+00
Waste Mass	Inorganics	Beryllium	mg/kg		kg	0.00E+00
11,828,073 kg	Inorganics	Cadmium	mg/kg		kg	0.00E+00
	Inorganics	Chromium	mg/kg		kg	0.00E+00
	Inorganics	Chromium, hexavalent	mg/kg		kg	0.00E+00
	Inorganics	Copper	mg/kg		kg	1.91E+04
	Inorganics	Iron	mg/kg		kg	1.04E+07
	Inorganics	Lead	mg/kg		kg	0.00E+00
	Inorganics	Manganese	mg/kg		kg	0.00E+00
	Inorganics	Mercury	mg/kg		kg	0.00E+00
	Inorganics	Molybdenum	mg/kg		kg	0.00E+00
	Inorganics	Nickel	mg/kg		kg	0.00E+00
	Inorganics	Selenium	mg/kg		kg	0.00E+00
	Inorganics	Silver	mg/kg		kg	0.00E+00
	Inorganics	Thallium	mg/kg		kg	0.00E+00
	Inorganics	Uranium	mg/kg		kg	0.00E+00
	Inorganics	Vanadium	mg/kg		kg	0.00E+00
	Inorganics	Zinc	mg/kg		kg	0.00E+00
	Organics	1,1-Dichloroethene	mg/kg		kg	0.00E+00
	Organics	1,2-Dichloroethene	mg/kg		kg	0.00E+00
	Organics	Acenaphthene	mg/kg		kg	0.00E+00
	Organics	Acenaphthylene	mg/kg		kg	0.00E+00
	Organics	Acrylonitrile	mg/kg		kg	0.00E+00
	Organics	Anthracene	mg/kg		kg	0.00E+00
	Organics	Benzene	mg/kg		kg	0.00E+00
	Organics	Carbon tetrachloride	mg/kg		kg	0.00E+00
	Organics	Chloroform	mg/kg		kg	0.00E+00
	Organics	cis-1,2-Dichloroethene	mg/kg		kg	0.00E+00
	Organics	Dioxins/Furans (Total)	mg/kg		kg	0.00E+00
	Organics	Ethylbenzene	mg/kg		kg	0.00E+00
	Organics	Fluoranthene	mg/kg		kg	0.00E+00
	Organics	Fluorene	mg/kg		kg	0.00E+00
	Organics	m,p-Xylene	mg/kg		kg	0.00E+00
	Organics	Naphthalene	mg/kg		kg	0.00E+00
	Organics	Phenanthrene	mg/kg		kg	0.00E+00
	Organics	Polychlorinated Biphenyls (Total) (high risk)	mg/kg		kg	0.00E+00
	Organics	Polycyclic aromatic hydrocarbons (PAH)	mg/kg		kg	0.00E+00
	Organics	Pyrene	mg/kg		kg	0.00E+00
	Organics	Tetrachloroethene	mg/kg		kg	0.00E+00
	Organics	trans-1,2-Dichloroethene	mg/kg		kg	0.00E+00
	Organics	Trichloroethene	mg/kg		kg	0.00E+00
	Organics	Vinyl chloride	mg/kg		kg	0.00E+00
	Radionuclides	Americium-241	pCi/g	8.00E-03	Ci	9.46E-05
	Radionuclides	Cesium-137	pCi/g	4.50E-03	Ci	5.32E-05
	Radionuclides	Cobalt-60	pCi/g		Ci	0.00E+00
	Radionuclides	Neptunium-237	pCi/g	1.35E-01	Ci	1.60E-03
	Radionuclides	Plutonium-238	pCi/g	8.00E-03	Ci	9.46E-05
	Radionuclides	Plutonium-239	pCi/g	1.77E-02	Ci	2.09E-04
	Radionuclides	Plutonium-239/240	pCi/g		Ci	0.00E+00

Table B.3. Contaminant inventory: scrap metal (continued)

Analysis Type	Analyte	Units	Arithmetic Mean	Units	Contaminant Inventory
Radionuclides	Radium-226	pCi/g		Ci	0.00E+00
Radionuclides	Radon-222	pCi/g		Ci	0.00E+00
Radionuclides	Strontium-90	pCi/g		Ci	0.00E+00
Radionuclides	Technetium-99	pCi/g	2.30E-03	Ci	2.72E-05
Radionuclides	Thorium-228	pCi/g		Ci	0.00E+00
Radionuclides	Thorium-230	pCi/g	7.20E-04	Ci	8.52E-06
Radionuclides	Thorium-232	pCi/g		Ci	0.00E+00
Radionuclides	Uranium-234	pCi/g	1.10E+00	Ci	1.30E-02
Radionuclides	Uranium-235	pCi/g	4.50E-02	Ci	5.32E-04
Radionuclides	Uranium-238	pCi/g	1.10E+00	Ci	1.30E-02

Table B.4. Summation of contaminant inventory in the scrap metal removal waste streams

Analyte	Units	Soils, Wood, PPE/Plastic	Scrap Metal	Total Scrap	C-746-U Landfill Inventory	Percent of C-746-U Landfill Inventory
Antimony	kg	9.35E-01	0.00E+00	9.35E-01	1.215E+05	<0.01%
Arsenic	kg	8.92E-01	0.00E+00	8.92E-01	5.153E+04	<0.01%
Beryllium	kg	2.56E-01	0.00E+00	2.56E-01	4.294E+07	<0.01%
Cadmium	kg	2.36E-01	0.00E+00	2.36E-01	1.020E+06	<0.01%
Chromium	kg	8.32E+00	0.00E+00	8.32E+00	7.819E+06	<0.01%
Chromium, hexavalent	kg	2.29E-01	0.00E+00	2.29E-01	7.819E+06	<0.01%
Copper	kg	6.15E+00	1.91E+04	1.91E+04	9.339E+06	0.20%
Iron	kg	3.13E+03	1.04E+07	1.04E+07	1.789E+08	5.81%
Lead	kg	2.79E+00	0.00E+00	2.79E+00	1.390E+08	<0.01%
Manganese	kg	6.38E+01	0.00E+00	6.38E+01	8.373E+06	<0.01%
Mercury	kg	3.54E-02	0.00E+00	3.54E-02	5.600E+03	<0.01%
Molybdenum	kg	5.94E-01	0.00E+00	5.94E-01	6.924E+04	<0.01%
Nickel	kg	1.02E+01	0.00E+00	1.02E+01	1.789E+08	<0.01%
Selenium	kg	8.16E-02	0.00E+00	8.16E-02	1.390E+05	<0.01%
Silver	kg	2.84E-01	0.00E+00	2.84E-01	1.390E+07	<0.01%
Thallium	kg	1.61E-01	0.00E+00	1.61E-01	1.753E+05	<0.01%
Uranium	kg	4.78E+00	0.00E+00	4.78E+00	1.394E+06	<0.01%
Vanadium	kg	4.62E+00	0.00E+00	4.62E+00	1.789E+08	<0.01%
Zinc	kg	7.66E+00	0.00E+00	7.66E+00	1.337E+08	<0.01%
1,1-Dichloroethene	kg	2.70E-01	0.00E+00	2.70E-01	1.023E+06	<0.01%
1,2-Dichloroethene	kg	6.77E-03	0.00E+00	6.77E-03	3.757E+05	<0.01%
Acenaphthene	kg	2.05E+00	0.00E+00	2.05E+00	1.789E+08	<0.01%
Acenaphthylene	kg	3.29E-02	0.00E+00	3.29E-02	1.789E+08	<0.01%
Acrylonitrile	kg	2.81E-03	0.00E+00	2.81E-03	2.630E+07	<0.01%
Anthracene	kg	2.72E+00	0.00E+00	2.72E+00	1.789E+08	<0.01%
Benzene	kg	7.98E-03	0.00E+00	7.98E-03	7.837E+05	<0.01%
Carbon tetrachloride	kg	8.03E-03	0.00E+00	8.03E-03	4.598E+05	<0.01%
Chloroform	kg	7.77E-03	0.00E+00	7.77E-03	3.435E+06	<0.01%
cis-1,2-Dichloroethene	kg	5.78E-01	0.00E+00	5.78E-01	1.433E+06	<0.01%
Dioxins/Furans (Total)	kg	2.80E-05	0.00E+00	2.80E-05	1.789E+08	<0.01%
Ethylbenzene	kg	8.03E-03	0.00E+00	8.03E-03	1.100E+05	<0.01%
Fluoranthene	kg	9.56E+00	0.00E+00	9.56E+00	1.789E+08	<0.01%
Fluorene	kg	1.96E+00	0.00E+00	1.96E+00	1.789E+08	<0.01%
m,p-Xylene	kg	6.74E-04	0.00E+00	6.74E-04	1.031E+05	<0.01%
Naphthalene	kg	8.62E-01	0.00E+00	8.62E-01	1.789E+08	<0.01%
Phenanthrene	kg	9.95E+00	0.00E+00	9.95E+00	1.789E+08	<0.01%
Polychlorinated Biphenyls (Total) (high risk)	kg	4.98E-01	0.00E+00	4.98E-01	3.095E+05	<0.01%
Polycyclic aromatic hydrocarbons (PAH)	kg	1.19E-02	0.00E+00	1.19E-02	1.789E+08	<0.01%
Pyrene	kg	6.77E+00	0.00E+00	6.77E+00	1.789E+08	<0.01%
Tetrachloroethene	kg	8.37E-03	0.00E+00	8.37E-03	1.480E+05	<0.01%
trans-1,2-Dichloroethene	kg	8.19E-01	0.00E+00	8.19E-01	2.612E+06	<0.01%
Trichloroethene	kg	5.69E+00	0.00E+00	5.69E+00	5.439E+05	<0.01%
Vinyl chloride	kg	5.81E-01	0.00E+00	5.81E-01	1.073E+06	<0.01%
Americium-241 ^a	Ci	2.18E-04	9.46E-05	3.13E-04	4.044E+01	<0.01%
Cesium-137	Ci	3.57E-05	5.32E-05	8.89E-05	No Value	No Value

Table B.4. Summation of contaminant inventory in the scrap metal removal waste streams (continued)

Analyte	Units	Soils, Wood,	Scrap Metal	Total Scrap	C-746-U Landfill Inventory	Percent of C-746-U Landfill Inventory
Neptunium-237	Ci	7.68E-05	1.60E-03	1.67E-03	4.044E+01	<0.01%
Plutonium-238	Ci	4.80E-07	9.46E-05	9.51E-05	1.013E+04	<0.01%
Plutonium-239	Ci	5.40E-05	2.09E-04	2.63E-04	9.823E+03	<0.01%
Plutonium-239/240	Ci	3.64E-04	0.00E+00	3.64E-04	9.823E+03	<0.01%
Radium-226	Ci	1.54E-04	0.00E+00	1.54E-04	7.264E+02	<0.01%
Strontium-90	Ci	4.46E-06	0.00E+00	4.46E-06	No Value	No Value
Technetium-99	Ci	6.06E-03	2.72E-05	6.09E-03	3.614E+01	0.02%
Thorium-228	Ci	1.83E-04	0.00E+00	1.83E-04	No Value	No Value
Thorium-230	Ci	9.74E-04	8.52E-06	9.83E-04	4.419E+03	<0.01%
Thorium-232	Ci	1.62E-04	0.00E+00	1.62E-04	5.350E+03	<0.01%
Uranium-234	Ci	9.15E-04	1.30E-02	1.39E-02	2.272E+03	<0.01%
Uranium-235	Ci	5.67E-05	5.32E-04	5.89E-04	2.236E+03	<0.01%
Uranium-238	Ci	2.61E-03	1.30E-02	1.56E-02	1.843E+03	<0.01%

" The C-746-U Landfill inventory limit for Americium-241 used is that for Neptunium-237. The Neptunium-237 limit is used because all Americium-241 can be expected to decay to Neptunium-237 prior by the time the radionuclide reaches the point of exposure.

APPENDIX C
SUPPORTING INFORMATION

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APPENDIX C.1

HUMAN HEALTH RISK CALCULATIONS

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APPENDIX C.1

HUMAN HEALTH RISK CALCULATIONS

This appendix contains the calculation sheets used to derive the human health risk, hazard, and dose curves presented in Chap. 5.

Table C.1.1 presents the groundwater concentration information derived from the projected C-746-U Landfill waste inventory for the property boundary point of exposure. Table C.1.1 also presents the cancer risk, hazard, and dose screening levels on which the risk calculations are based.

Table C.1.2 presents the hazard estimates for the DOE property boundary point of exposure. These values are calculated from the concentrations and hazard screening levels presented in Table C.1.1.

Tables C.1.3 and C.1.4 present the cancer and dose estimates for the DOE property boundary point of exposure. These values were also calculated using the concentrations and screening values in Table C.1.1.

Table C.1.5 presents the groundwater concentrations for the DOE property boundary point of exposure used to examine the effect of gradual and immediate failure. Concentrations presented were derived from the projected C-746-U Landfill waste inventory.

Table C.1.6 presents the groundwater information derived from the final CERCLA-derived waste disposal criteria for the DOE property boundary point of exposure and the screening values used in the risk derivation.

Table C.1.7 presents the groundwater information derived from the final CERCLA-derived waste disposal criteria for the Ohio River point of exposure and the screening values used in the risk derivation.

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**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

Concentrations	Time (yr)	ap	2-Butanone Group			Benzene Group						Vinyl Chloride Group						Trichloroethene (mg/L)
			Molybdenum	2-Butanone		Benzene	Ethylbenzene	Xylylene	m-Xylene	p-Xylene	o-Xylene	Vinyl chloride	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	Chloroform	1,1-DCE	1,2-DCE
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	
	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	10	0.00E+00	4.50E-10	1.69E-13	5.42E-14	4.41E-14	6.10E-14	3.85E-14	4.97E-14	1.08E-14	1.80E-14	6.36E-15	2.58E-16	1.54E-15	6.19E-16	3.27E-18	7.82E-12	
	20	0.00E+00	6.20E-10	3.27E-13	1.05E-13	8.53E-14	1.18E-13	7.46E-14	9.61E-14	2.42E-13	4.04E-13	1.43E-13	5.78E-15	3.46E-14	1.39E-14	7.33E-17	8.54E-11	
	30	0.00E+00	1.38E-10	1.08E-13	2.82E-14	3.90E-14	2.46E-14	3.18E-14	8.34E-13	1.39E-12	1.91E-13	1.99E-14	1.19E-13	4.78E-14	2.53E-16	1.38E-10		
	40	0.00E+00	1.95E-11	3.53E-14	1.13E-14	9.21E-15	1.27E-14	8.05E-15	1.04E-14	1.45E-12	2.42E-12	8.54E-13	3.47E-14	2.07E-13	8.31E-14	4.39E-16	1.12E-10	
	50	0.00E+00	1.69E-12	6.39E-15	2.05E-15	1.67E-15	2.31E-15	1.46E-15	1.88E-15	1.74E-12	2.91E-12	1.02E-12	4.16E-14	2.49E-13	9.97E-14	5.27E-16	6.56E-11	
	60	0.00E+00	3.75E-12	7.90E-14	2.54E-14	2.06E-14	2.85E-14	1.80E-14	2.32E-14	1.09E-10	1.82E-10	6.42E-11	2.61E-12	1.56E-11	6.25E-12	3.30E-14	6.06E-10	
	70	0.00E+00	2.47E-12	1.38E-13	4.43E-14	3.60E-14	4.98E-14	3.15E-14	4.06E-14	2.28E-10	3.81E-10	1.34E-10	5.45E-12	3.26E-11	1.31E-11	6.91E-14	7.69E-10	
	80	0.00E+00	7.80E-13	1.36E-13	4.37E-14	3.55E-14	4.91E-14	3.10E-14	4.00E-14	3.33E-10	5.56E-10	1.96E-10	7.96E-12	4.76E-11	1.91E-11	1.01E-13	5.33E-10	
	90	0.00E+00	2.45E-13	1.00E-14	3.21E-14	2.61E-14	3.61E-14	2.28E-14	2.94E-14	4.22E-10	7.05E-10	2.49E-10	1.01E-11	6.03E-11	2.42E-11	1.28E-13	3.66E-10	
	100	1.60E-29	9.80E-14	9.46E-14	3.01E-14	2.47E-14	3.42E-14	2.16E-14	2.78E-14	9.39E-10	1.57E-09	5.53E-10	2.24E-11	1.34E-10	5.38E-11	2.85E-13	3.46E-10	
	110	1.60E-29	4.61E-14	8.61E-14	2.76E-14	2.25E-14	3.11E-14	1.96E-14	2.53E-14	1.98E-09	3.31E-09	1.17E-09	4.73E-11	2.83E-10	1.13E-10	6.00E-13	3.66E-10	
	120	1.60E-29	1.94E-14	5.83E-14	1.87E-14	1.52E-14	2.10E-14	1.33E-14	1.71E-14	3.60E-09	6.01E-09	2.12E-09	8.60E-10	5.15E-10	2.06E-10	1.09E-12	3.25E-10	
	130	1.60E-29	7.46E-15	3.11E-14	9.98E-15	8.12E-15	1.12E-14	7.09E-15	9.14E-15	5.72E-09	9.55E-09	3.37E-09	1.37E-10	8.18E-10	3.28E-10	1.73E-12	2.48E-10	
	140	1.60E-29	2.83E-15	1.49E-14	4.78E-15	3.89E-15	5.38E-15	3.40E-15	4.38E-15	9.16E-09	1.53E-08	5.40E-09	2.19E-10	1.31E-09	5.25E-10	2.78E-12	1.81E-10	
	150	1.60E-29	1.05E-15	6.65E-15	2.13E-15	1.74E-15	2.40E-15	1.52E-15	1.96E-15	1.27E-08	2.12E-08	7.48E-09	3.04E-10	1.82E-09	7.28E-10	3.85E-12	1.26E-10	
	160	1.60E-29	3.60E-16	2.60E-15	8.35E-16	6.79E-16	9.39E-16	5.93E-16	7.64E-16	1.47E-08	2.45E-08	8.66E-09	3.51E-10	2.10E-09	8.42E-10	4.45E-12	7.91E-11	
	170	1.60E-29	1.15E-16	9.11E-16	2.92E-16	2.38E-16	3.29E-16	2.08E-16	2.68E-16	1.45E-08	2.42E-08	8.54E-09	3.47E-10	2.07E-09	8.31E-10	4.39E-12	4.60E-11	
	180	1.60E-29	3.32E-17	2.86E-16	9.18E-17	7.46E-17	1.03E-16	6.52E-17	8.41E-17	1.16E-08	1.94E-08	6.83E-09	2.77E-10	1.66E-09	6.65E-10	3.51E-12	2.42E-11	
	190	1.60E-29	8.70E-18	8.07E-17	2.59E-17	2.11E-17	2.91E-17	1.84E-17	2.37E-17	8.16E-09	1.36E-08	1.81E-09	1.95E-10	1.17E-09	4.68E-10	2.47E-12	1.16E-11	
	200	1.62E-08	2.22E-18	2.19E-17	7.03E-18	5.72E-18	7.91E-18	4.99E-18	6.44E-18	5.28E-09	8.82E-09	3.11E-09	1.26E-10	7.55E-10	3.03E-10	1.60E-12	5.36E-12	
	210	1.62E-08	5.52E-19	5.79E-18	1.86E-18	1.51E-18	2.09E-18	1.32E-18	1.70E-18	3.21E-09	5.36E-09	1.89E-09	7.67E-11	4.59E-10	1.84E-10	9.73E-13	2.43E-12	
	220	1.62E-08	1.32E-19	1.47E-18	4.72E-19	3.84E-19	5.31E-19	3.35E-19	4.32E-19	1.81E-09	3.02E-09	1.07E-09	4.33E-11	2.95E-10	1.04E-10	5.48E-13	1.05E-12	
	230	1.62E-08	3.03E-20	3.57E-19	1.15E-19	9.32E-20	1.29E-19	8.14E-20	1.05E-19	9.74E-10	1.63E-09	5.74E-10	2.33E-11	1.39E-10	5.58E-11	2.95E-13	4.34E-13	
	240	1.62E-08	6.87E-21	8.52E-20	2.73E-20	2.22E-20	3.08E-20	1.94E-20	2.50E-20	5.06E-10	8.45E-10	2.98E-10	1.21E-11	7.24E-11	2.90E-11	1.53E-13	1.77E-13	
	250	1.62E-08	1.54E-21	2.01E-20	6.45E-21	5.25E-21	7.26E-21	4.58E-21	5.91E-21	2.57E-10	4.29E-10	1.51E-10	6.14E-12	3.68E-11	1.47E-11	7.79E-14	7.06E-14	
	260	1.62E-08	3.39E-22	4.68E-21	1.50E-21	1.22E-21	1.69E-21	1.07E-21	1.38E-21	1.28E-10	2.14E-10	7.54E-11	3.06E-12	1.83E-11	7.33E-12	3.88E-14	2.80E-14	
	270	1.62E-08	7.38E-23	1.08E-21	3.47E-22	2.82E-22	3.90E-22	2.46E-22	3.18E-22	6.25E-11	1.04E-11	3.68E-11	1.49E-12	8.94E-12	3.58E-12	1.89E-14	1.09E-14	
	280	1.62E-08	1.60E-23	2.45E-22	7.86E-23	6.39E-23	8.84E-23	5.59E-23	7.30E-23	3.03E-11	5.06E-11	1.78E-11	7.24E-13	4.33E-12	1.74E-12	9.18E-15	4.19E-15	
	290	1.62E-08	3.45E-24	5.55E-23	1.78E-23	1.45E-23	2.00E-23	1.27E-23	1.63E-23	1.45E-11	2.42E-11	8.54E-12	3.47E-13	2.07E-12	8.31E-13	4.39E-15	1.61E-15	
	300	1.31E-06	7.11E-25	1.24E-23	3.98E-24	3.24E-24	4.48E-24	2.81E-24	1.65E-24	6.91E-12	1.15E-11	4.07E-12	1.65E-13	9.88E-13	3.96E-13	2.09E-15	6.12E-16	
	310	1.31E-06	1.58E-25	2.77E-24	8.89E-25	7.23E-25	1.00E-24	6.32E-25	8.14E-25	3.25E-12	5.43E-12	1.91E-12	7.77E-14	4.65E-13	1.86E-13	9.85E-16	2.31E-16	
	320	1.31E-06	3.36E-26	6.15E-25	1.97E-25	1.61E-25	2.22E-25	1.40E-25	1.81E-25	1.53E-12	2.56E-12	9.01E-13	3.66E-14	2.19E-13	8.77E-14	4.64E-16	8.66E-17	
	330	1.31E-06	7.12E-27	1.36E-26	3.47E-26	3.55E-26	4.91E-26	3.10E-26	4.00E-26	7.16E-13	1.20E-12	4.25E-13	1.71E-14	1.02E-13	4.10E-14	2.17E-16	3.24E-17	
	340	1.31E-06	1.50E-27	2.96E-26	9.50E-27	7.73E-27	1.07E-26	6.75E-27	8.70E-27	3.34E-13	5.58E-13	1.97E-13	7.98E-15	4.78E-14	1.91E-14	1.01E-16	1.21E-17	
	350	1.31E-06	3.16E-28	6.51E-27	2.09E-27	1.70E-27	2.35E-27	1.48E-27	1.91E-27	1.55E-13	2.59E-13	9.13E-14	3.70E-15	2.22E-14	8.88E-15	4.70E-17	4.48E-18	
	360	1.31E-06	6.66E-29	1.42E-27	4.56E-28	3.71E-28	5.13E-28	3.24E-28	4.17E-28	7.23E-14	1.21E-13	4.26E-14	1.73E-15	1.03E-14	4.14E-15	2.19E-17	1.66E-18	
	370	1.31E-06	1.40E-29	3.08E-28	9.89E-29	8.04E-29	1.11E-28	7.02E-29	9.06E-29	3.33E-14	5.36E-14	1.96E-14	7.96E-16	4.76E-15	1.91E-15	1.01E-17	6.11E-19	
	380	1.31E-06	2.93E-30	6.67E-29	2.14E-29	1.74E-29	2.41E-29	1.52E-29	1.96E-29	1.54E-14	2.57E-14	9.07E-15	3.68E-16	2.20E-15	8.82E-16	4.67E-18	2.25E-19	
	390	1.31E-06	6.12E-31	1.41E-29	4.62E-30	3.76E-30	5.20E-30	3.28E-30	4.23E-30	7.11E-15	1.19E-14	4.19E-15	1.70E-16	1.02E-15	4.07E-16	2.15E-18	8.28E-20	
	400	1.92E-05	3.09E-30	9.92E-31	8.06E-31	1.12E-30	7.05E-31	9.08E-31	1.29E-15	3.29E-15	5.49E-15	1.94E-15	7.86E-17	4.70E-16	1.89E-16	9.97E-19	3.03E-20	
	410	1.92E-05	2.67E-32	6.67E-31	2.14E-31	1.74E-31	2.41E-31	1.52E-31	1.96E-31	1.52E-15	2.54E-15	8.95E-16	3.63E-17	2.17E-16	8.71E-17	4.61E-19	1.11E-20	
	420	1.92E-05	5.56E-33	1.43E-31	4.59E-32	3.73E-32	5.16E-32	3.26E-32	4.20E-32	6.97E-16	1.16E-15	4.11E-16	1.67E-17	9.97E-17	3.99E-17	2.11E-19	4.05E-21	
	430	1.92E-05	1.16E-33	3.07E-32	9.85E-33	8.01E-33	1.11E-32	7.00E-33	9.03E-33	3.21E-16	5.36E-16	1.89E-16	7.67E-18	4.59E-17	1.84E-17	9.73E-20	1.48E-21	
	440	1.92E-05	2.41E-34	6.56E-33	2.11E-33	1.71E-33	2.37E-33	1.50E-33	1.93E-33	1.48E-16	2.47E-16	8.72E-17	3.54E-18	2.12E-17	8.48E-18	4.48E-20	5.42E-22	
	450	1.92E-05	5.01E-35	1.40E-33	4.49E-34	3.65E-34	5.05E-34	3.1										

**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

Concentrations	richloroethene Group		Chlorobenzene Group			2-Methylphenol Group						
	Carbon tetrachloride	Tetrachloroethene	Chlorobenzene	1,4-Dichlorobenzene	Hexachlorobenzene	2-Methylphenol	Pyridine	4-Methylphenol	3-Methylphenol	2,4-DNT	Nitrobenzene	2,4,6-Trichlorophenol
	Time (yr)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	2.69E-13	2.38E-13	1.43E-13	6.51E-15	1.90E-17	5.20E-11	1.53E-11	2.88E-11	1.75E-11	4.77E-13	5.46E-13	4.66E-14
20	2.94E-12	2.60E-12	4.33E-13	1.97E-14	5.76E-17	9.05E-11	2.66E-11	5.00E-11	3.04E-11	8.31E-13	9.50E-13	8.11E-14
30	4.75E-12	4.20E-12	1.42E-13	6.46E-15	1.89E-17	3.66E-11	1.08E-11	2.02E-11	1.21E-11	3.36E-13	3.84E-13	3.28E-14
40	3.85E-12	3.40E-12	1.07E-13	4.87E-15	1.42E-17	9.05E-12	2.66E-12	5.00E-12	3.04E-12	8.31E-14	9.50E-14	8.11E-15
50	2.26E-12	1.99E-12	1.96E-14	8.92E-16	2.61E-18	1.35E-12	3.97E-13	7.47E-13	4.54E-13	1.24E-14	1.42E-14	1.21E-15
60	2.08E-11	1.84E-11	2.26E-12	1.03E-13	3.01E-16	1.06E-11	3.12E-12	5.86E-12	3.56E-12	9.73E-14	1.11E-13	9.50E-15
70	2.65E-11	2.34E-11	5.97E-12	2.72E-13	7.94E-16	1.49E-11	4.38E-12	8.24E-12	5.01E-12	1.37E-13	1.56E-13	1.34E-14
80	1.83E-11	1.62E-11	7.16E-12	3.26E-13	9.52E-16	1.32E-11	3.88E-12	7.30E-12	4.44E-12	1.21E-13	1.39E-13	1.18E-14
90	1.26E-11	1.11E-11	5.60E-12	2.55E-13	7.45E-16	9.39E-12	2.76E-12	5.19E-12	3.16E-12	8.62E-14	9.86E-14	8.41E-15
100	1.19E-11	1.05E-11	4.99E-12	2.27E-13	6.64E-16	9.11E-12	2.68E-12	5.04E-12	3.06E-12	8.36E-14	9.57E-14	8.16E-15
110	1.26E-11	1.11E-11	5.01E-12	2.28E-13	6.66E-16	8.20E-12	2.41E-12	4.53E-12	2.76E-12	7.53E-14	8.61E-14	7.35E-15
120	1.12E-11	9.88E-12	3.62E-12	1.65E-13	4.81E-16	5.42E-12	1.59E-12	3.00E-12	1.82E-12	4.98E-14	5.69E-14	4.86E-15
130	8.53E-12	7.54E-12	2.00E-12	9.10E-14	2.66E-16	2.81E-12	8.26E-13	1.55E-12	9.44E-13	2.58E-14	2.95E-14	2.52E-15
140	6.23E-12	5.50E-12	9.47E-13	4.31E-14	1.26E-16	1.31E-12	3.85E-13	7.24E-13	4.40E-13	1.20E-14	1.38E-14	1.17E-15
150	4.33E-12	3.83E-12	4.23E-13	1.92E-14	5.63E-17	5.60E-13	1.65E-13	3.10E-13	1.88E-13	5.14E-15	5.88E-15	5.02E-16
160	2.72E-12	2.40E-12	1.62E-13	7.37E-15	2.15E-17	2.07E-13	6.09E-14	1.14E-13	6.96E-14	1.90E-15	2.17E-15	1.85E-16
170	1.58E-12	1.40E-12	5.44E-14	2.48E-15	7.24E-18	6.83E-14	2.01E-14	3.78E-14	2.29E-14	6.27E-16	7.17E-16	6.12E-17
180	8.32E-13	7.36E-13	1.62E-14	7.37E-16	2.15E-18	2.00E-14	5.88E-15	1.11E-14	6.72E-15	1.84E-16	2.10E-16	1.79E-17
190	3.99E-13	3.53E-13	4.16E-15	1.89E-16	5.53E-19	5.22E-15	1.53E-15	2.89E-15	1.75E-15	4.79E-17	5.48E-17	4.68E-18
200	1.84E-13	1.63E-13	1.01E-15	4.60E-17	1.34E-19	1.30E-15	3.32E-16	7.19E-16	4.37E-16	1.19E-17	1.37E-17	1.16E-18
210	8.36E-14	7.39E-14	2.35E-16	1.07E-17	3.13E-20	3.15E-16	9.26E-17	1.74E-16	1.06E-16	2.89E-18	3.31E-18	2.82E-19
220	3.61E-14	3.19E-14	5.28E-17	2.40E-18	7.02E-21	7.35E-17	2.16E-17	4.06E-17	2.47E-17	6.75E-19	7.72E-19	6.59E-20
230	1.49E-14	1.32E-14	1.12E-17	5.10E-19	1.49E-21	1.64E-17	4.82E-18	9.07E-18	5.51E-18	1.51E-19	1.72E-19	1.47E-20
240	6.09E-15	5.38E-15	2.32E-18	1.06E-19	3.09E-22	3.59E-18	1.06E-18	1.99E-18	1.21E-18	3.30E-20	3.77E-20	3.22E-21
250	2.43E-15	2.15E-15	4.76E-19	2.17E-20	6.33E-23	7.82E-19	2.30E-19	4.32E-19	2.63E-19	7.18E-21	8.21E-21	7.01E-22
260	9.63E-16	8.51E-16	9.63E-20	4.38E-21	1.28E-23	1.68E-19	4.94E-20	9.29E-20	5.64E-20	1.34E-21	1.76E-21	1.51E-22
270	3.75E-16	3.31E-16	1.92E-20	8.74E-22	2.55E-24	3.61E-20	1.06E-20	2.00E-20	1.21E-20	3.31E-22	3.79E-22	3.23E-23
280	1.44E-16	1.27E-16	3.81E-21	1.73E-22	5.07E-25	7.65E-21	2.23E-21	4.23E-21	2.57E-21	7.02E-23	8.03E-23	6.85E-24
290	5.54E-17	4.89E-17	7.51E-22	3.42E-23	9.99E-26	1.62E-21	4.76E-22	8.96E-22	5.44E-22	1.49E-23	1.70E-23	1.45E-24
300	2.11E-17	1.86E-17	1.47E-22	6.69E-24	1.96E-26	3.41E-22	1.00E-22	1.89E-22	1.15E-22	3.13E-24	3.58E-24	3.06E-25
310	7.95E-18	7.02E-18	2.85E-23	1.30E-24	3.79E-27	7.15E-23	2.10E-23	3.95E-23	2.40E-23	6.56E-25	7.51E-25	6.41E-26
320	2.98E-18	2.63E-18	5.53E-24	2.52E-25	7.35E-28	1.50E-23	4.41E-24	8.30E-24	5.04E-24	1.38E-25	1.58E-25	1.34E-26
330	1.11E-18	9.85E-19	1.07E-24	4.87E-26	1.42E-28	3.14E-24	9.23E-25	1.74E-24	1.06E-24	2.88E-26	3.30E-26	2.81E-27
340	4.16E-19	3.68E-19	2.06E-25	9.37E-27	2.74E-29	6.56E-25	1.93E-25	3.63E-25	2.20E-25	6.02E-27	6.89E-27	5.88E-28
350	1.54E-19	1.36E-19	3.94E-26	1.79E-27	5.24E-30	1.37E-25	4.03E-26	7.58E-26	4.60E-26	1.26E-27	1.44E-27	1.23E-28
360	5.71E-20	5.03E-20	7.55E-27	3.44E-28	1.00E-30	2.86E-26	8.41E-27	1.58E-26	9.61E-27	2.63E-28	3.00E-28	2.56E-29
370	2.10E-20	1.86E-20	1.45E-27	6.60E-29	1.93E-31	5.93E-27	1.75E-27	3.29E-27	2.00E-27	5.46E-29	6.25E-29	5.33E-30
380	7.74E-21	6.84E-21	2.76E-28	1.26E-29	3.67E-32	1.24E-27	3.65E-28	6.86E-28	4.17E-28	1.14E-29	1.30E-29	1.11E-30
390	2.85E-21	2.52E-21	5.25E-29	2.39E-30	6.98E-33	2.58E-28	7.59E-29	1.43E-28	8.67E-29	2.37E-30	2.71E-30	2.31E-31
400	1.04E-21	9.21E-22	9.96E-30	4.53E-31	1.32E-33	5.38E-29	1.58E-29	2.98E-29	1.81E-29	4.94E-31	5.65E-31	4.82E-32
410	3.82E-22	3.37E-22	1.90E-30	8.65E-32	2.53E-34	1.12E-29	3.29E-30	6.19E-30	3.76E-30	1.03E-31	1.18E-31	1.00E-32
420	1.39E-22	1.23E-22	3.59E-31	1.63E-32	4.77E-35	2.32E-30	6.82E-31	1.28E-30	7.80E-31	2.13E-32	2.44E-32	2.08E-33
430	5.09E-23	4.50E-23	6.77E-32	3.08E-33	9.00E-36	4.82E-31	1.42E-31	2.67E-31	1.62E-31	4.42E-33	5.06E-33	4.32E-34
440	1.86E-23	1.65E-23	1.28E-32	5.82E-34	1.70E-36	1.00E-31	2.94E-32	5.53E-32	3.36E-32	9.18E-34	1.05E-33	8.96E-35
450	6.78E-24	5.99E-24	2.42E-33	1.10E-34	3.22E-37	2.08E-32	6.12E-33	1.15E-32	6.99E-33	1.91E-34	2.18E-34	1.86E-35
460	2.47E-24	2.18E-24	4.58E-34	2.08E-35	6.09E-38	4.34E-33	1.28E-33	2.40E-33	1.46E-33	3.98E-35	4.56E-35	3.89E-36
470	9.01E-25	7.96E-25	8.64E-35	3.93E-36	1.15E-38	8.99E-34	2.64E-34	4.97E-34	3.02E-34	8.25E-36	9.44E-36	8.06E-37
480	3.27E-25	2.89E-25	1.63E-35	7.42E-37	2.17E-39	1.87E-34	5.50E-35	1.02E-34	6.28E-35	1.72E-36	1.96E-36	1.68E-37
490	1.19E-25	1.05E-25	3.06E-36	1.39E-37	4.07E-40	3.89E-35	1.14E-35	2.15E-35	1.31E-35	3.57E-37	4.08E-37	3.49E-38
500	4.33E-26	3.83E-26	5.76E-37	2.62E-38	7.66E-41	8.07E-36	2.37E-36	4.46E-36	2.71E-36	7.41E-38	8.47E-38	7.23E-39
510	1.57E-26	1.39E-26	1.08E-37	4.91E-39	1.44E-41	1.68E-36	4.94E-37	9.29E-37	5.64E-37	1.54E-38	1.76E-38	1.51E-39
520	5.71E-27	5.05E-27	2.03E-38	9.24E-40	2.70E-42	3.48E-37	1.02E-37	1.92E-37	1.17E-37	3.19E-39	3.65E-39	3.12E-40
530	2.07E-27	1.83E-27	3.82E-39	1.74E-40	5.08E-43	7.23E-38	2.13E-38	4.00E-38	2.43E-38	6.64E-40	7.59E-40	6.48E-41

**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

Concentrations	gamma-Chlordane Group						Pentachlorophenol Group						
	2,4,5-Trichlorophenol	Acrylonitrile	gamma-Chlordane	alpha-Chlordane	Methoxychlor	Heptachlor epoxide	Toxaphene	Pentachlorophenol	Naphthalene	Hexachloroethane	Acenaphthene	Acenaphthylene	Fluorene
Time (yr)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	6.19E-13	2.30E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-16	3.70E-17	1.57E-17	8.94E-18	6.12E-18	5.61E-18
20	1.08E-12	4.00E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-14	5.47E-15	2.32E-15	1.32E-15	9.05E-16	8.29E-16
30	4.36E-13	1.62E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-13	2.67E-14	1.13E-14	6.46E-15	4.42E-15	4.05E-15
40	1.08E-13	4.00E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-13	3.92E-14	1.66E-14	9.47E-15	6.48E-15	5.94E-15
50	1.61E-14	5.97E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-13	3.62E-14	1.54E-14	8.76E-15	6.00E-15	5.49E-15
60	1.26E-13	4.69E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-12	5.89E-13	2.50E-13	1.42E-13	9.76E-14	8.94E-14
70	1.77E-13	6.59E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-11	3.60E-12	1.53E-12	8.70E-13	5.96E-13	5.46E-13
80	1.57E-13	5.83E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-11	4.61E-12	1.95E-12	1.12E-12	7.64E-13	6.99E-13
90	1.12E-13	4.15E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-11	5.43E-12	2.30E-12	1.31E-12	8.99E-13	8.23E-13
100	1.08E-13	4.03E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-11	6.94E-12	2.94E-12	1.68E-12	1.15E-12	1.05E-12
110	9.76E-14	3.62E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-10	1.42E-11	6.00E-12	3.42E-12	2.34E-12	2.15E-12
120	6.45E-14	2.40E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-10	2.18E-11	9.25E-12	5.28E-12	3.62E-12	3.31E-12
130	3.34E-14	1.24E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-10	2.53E-11	1.07E-11	6.11E-12	4.18E-12	3.83E-12
140	1.56E-14	5.79E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-10	2.40E-11	1.02E-11	5.81E-12	3.98E-12	3.64E-12
150	6.66E-15	2.48E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-10	2.18E-11	9.25E-12	5.28E-12	3.62E-12	3.31E-12
160	2.46E-15	9.15E-14	3.50E-44	6.34E-43	2.15E-45	5.29E-41	1.39E-10	1.70E-11	7.19E-12	4.10E-12	2.81E-12	2.57E-12	
170	8.13E-16	3.02E-14	2.52E-43	2.52E-43	4.57E-42	1.55E-44	3.81E-43	9.47E-11	1.16E-11	4.90E-12	2.79E-12	1.91E-12	1.75E-12
180	2.38E-16	8.84E-15	1.02E-42	1.02E-42	1.85E-41	6.26E-44	1.54E-42	5.72E-11	6.98E-12	2.96E-12	1.69E-12	1.16E-12	1.06E-12
190	6.21E-17	2.31E-15	1.40E-36	1.40E-36	2.53E-35	8.60E-38	2.11E-36	2.95E-11	3.60E-12	1.53E-12	8.70E-13	5.96E-13	5.46E-13
200	1.55E-17	5.75E-16	2.13E-35	2.13E-35	3.86E-34	1.31E-36	3.22E-35	1.42E-11	1.73E-12	7.34E-13	4.19E-13	2.87E-13	2.63E-13
210	3.75E-18	1.39E-16	1.34E-34	1.34E-34	2.43E-33	8.23E-36	2.02E-34	6.53E-12	7.97E-13	3.38E-13	1.93E-13	1.32E-13	1.21E-13
220	8.75E-19	3.25E-17	5.34E-34	5.34E-34	9.67E-33	3.28E-35	8.06E-34	2.90E-12	3.54E-13	1.50E-13	8.56E-14	5.86E-14	5.37E-14
230	1.95E-19	7.25E-18	1.85E-33	1.85E-33	3.35E-32	1.14E-34	2.79E-33	1.22E-12	1.49E-13	6.31E-14	3.60E-14	2.46E-14	2.26E-14
240	4.27E-20	1.59E-18	7.61E-33	7.61E-33	1.38E-31	4.67E-34	1.15E-32	4.98E-13	6.08E-14	2.57E-14	1.47E-14	1.01E-14	9.21E-15
250	9.31E-21	3.46E-19	3.01E-32	3.01E-32	5.45E-31	1.85E-33	4.55E-32	2.00E-13	2.44E-14	1.03E-14	5.90E-15	4.04E-15	3.70E-15
260	2.00E-21	7.43E-20	9.97E-32	9.97E-32	1.80E-30	6.12E-33	1.51E-31	7.97E-14	9.72E-15	4.12E-15	2.35E-15	1.61E-15	1.47E-15
270	4.30E-22	1.60E-20	2.78E-31	2.78E-31	5.03E-30	1.71E-32	4.20E-31	3.12E-14	3.81E-15	1.61E-15	9.20E-16	6.30E-16	5.77E-16
280	9.10E-23	3.38E-21	6.93E-31	6.93E-31	1.25E-29	4.26E-32	1.05E-30	1.22E-14	1.49E-15	6.31E-16	3.60E-16	2.46E-16	2.26E-16
290	1.93E-23	7.16E-22	1.56E-30	1.56E-30	2.82E-29	9.58E-32	2.36E-30	4.71E-15	5.75E-16	2.44E-16	1.39E-16	9.51E-17	8.71E-17
300	4.06E-24	1.51E-22	3.18E-30	3.18E-30	5.76E-29	1.95E-31	4.80E-30	1.81E-15	2.21E-16	9.36E-17	5.34E-17	3.66E-17	3.35E-17
310	8.51E-25	3.16E-23	5.84E-30	5.84E-30	1.06E-28	3.59E-31	8.82E-30	6.94E-16	8.47E-17	3.59E-17	2.05E-17	1.40E-17	1.28E-17
320	1.79E-25	6.63E-24	9.64E-30	9.64E-30	1.74E-28	5.92E-31	1.46E-29	2.64E-16	3.22E-17	1.36E-17	7.79E-18	5.33E-18	4.88E-18
330	3.74E-26	1.39E-24	1.44E-29	1.44E-29	2.61E-28	8.84E-31	2.17E-29	1.01E-16	1.23E-17	5.22E-18	2.98E-18	2.04E-18	1.87E-18
340	7.81E-27	2.90E-25	1.97E-29	1.97E-29	3.57E-28	1.31E-30	2.97E-29	3.81E-17	4.65E-18	1.97E-18	1.12E-18	7.70E-19	7.05E-19
350	1.63E-27	6.06E-26	2.50E-29	2.50E-29	4.53E-28	1.54E-30	3.78E-29	1.44E-17	1.76E-18	7.44E-19	4.25E-19	2.91E-19	2.66E-19
360	3.40E-28	1.26E-26	2.95E-29	2.95E-29	5.34E-28	1.81E-30	4.45E-29	5.44E-18	6.64E-19	2.81E-19	1.60E-19	1.10E-19	1.01E-19
370	7.08E-29	2.63E-27	3.26E-29	3.26E-29	5.90E-28	2.00E-30	4.92E-29	2.04E-18	2.49E-19	1.05E-19	6.02E-20	4.12E-20	3.77E-20
380	1.48E-29	5.48E-28	3.41E-29	3.41E-29	6.17E-28	2.09E-30	5.15E-29	7.69E-19	9.38E-20	3.98E-20	2.27E-20	1.55E-20	1.42E-20
390	3.07E-30	1.14E-28	3.39E-29	3.39E-29	6.14E-28	2.08E-30	5.12E-29	2.89E-19	3.53E-20	1.49E-20	8.53E-21	5.84E-21	5.35E-21
400	6.40E-31	2.38E-29	3.21E-29	3.21E-29	5.81E-28	1.97E-30	4.85E-29	1.08E-19	1.32E-20	5.58E-21	3.19E-21	2.18E-21	2.00E-21
410	1.33E-31	4.95E-30	2.92E-29	2.92E-29	5.29E-28	1.79E-30	4.41E-29	4.04E-20	4.93E-21	2.09E-21	1.19E-21	8.16E-22	7.47E-22
420	2.76E-32	1.03E-30	2.55E-29	2.55E-29	4.62E-28	1.57E-30	3.85E-29	1.51E-20	1.84E-21	7.81E-22	4.45E-22	3.05E-22	2.79E-22
430	5.74E-33	2.13E-31	2.15E-29	2.15E-29	3.89E-28	1.32E-30	3.25E-29	5.64E-21	6.88E-22	2.92E-22	1.66E-22	1.14E-22	1.04E-22
440	1.19E-33	4.42E-32	1.75E-29	1.75E-29	3.17E-28	1.07E-30	2.64E-29	2.10E-21	2.56E-22	1.09E-22	6.20E-23	4.24E-23	3.89E-23
450	2.48E-34	9.19E-33	1.39E-29	1.39E-29	2.52E-28	8.53E-31	2.10E-29	7.83E-22	9.55E-23	4.05E-23	2.31E-23	1.58E-23	1.45E-23
460	5.16E-35	1.92E-33	1.07E-29	1.07E-29	1.94E-28	6.57E-31	1.62E-29	2.92E-22	3.56E-23	1.51E-23	8.61E-24	5.90E-24	5.40E-24
470	1.07E-35	3.97E-34	8.01E-30	8.01E-30	1.45E-28	4.92E-31	1.21E-29	1.08E-22	1.32E-23	5.58E-24	3.19E-24	2.18E-24	2.00E-24
480	2.23E-36	8.27E-35	5.88E-30	5.88E-30	1.06E-28	3.61E-31	8.88E-30	4.03E-23	4.92E-24	2.08E-24	1.19E-24	8.14E-25	7.46E-25
490	4.63E-37	1.72E-35	4.22E-30	4.22E-30	7.64E-29	2.59E-31	6.37E-30	1.49E-23	1.82E-24	7.70E-25	4.40E-25	3.01E-25	2.76E-25
500	9.60E-38	3.57E-36	2.97E-30	2.97E-30	5.38E-29	1.82E-31	4.48E-30	5.54E-24	6.76E-25	2.86E-25	1.63E-25	1.12E-25	1.02E-25
510	2.00E-38	7.43E-37	2.06E-30	2.06E-30	3.73E-29	1.26E-31	3.11E-30	2.05E-24	2.50E-25	1.06E-25	6.05E-26	4.14E-26	3.79E-26
520	4.14E-39	1.54E-37	1.40E-30	1.40E-30	2.53E-29	8.60E-32	2.11E-30	7.60E-25	9.27E-26	3.93E-26	2.24E-26	1.54E-26	1.41E-26
530	8.60E-40	3.20E-38	9.40E-31	9.40E-31	1.70E-29	5.77E-32	1.42E-30	2.82E-25	3.44E-26	1.46E-26	8.32E-27	5.70E-27	5.22E-27

**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

Concentrations Time (yr)	Benzo(a)pyrene Group					PCB Group	Tc-99 Group		U-238 Group								
	Phenanthrene (mg/L)	Anthracene (mg/L)	Fluoranthene (mg/L)	Hexachlorobutadiene (mg/L)	Pyrene (mg/L)		Benz(a)pyrene (mg/L)	Dioxin/Furan (mg/L)	Tc-99 (pCi/L)	Np-237 (pCi/L)	U-238 (pCi/L)	U-234 (pCi/L)	U-235 (pCi/L)	Ra-226 (pCi/L)	Pu-238 (pCi/L)	Pu-239 (pCi/L)	
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
10	6.88E-18	2.89E-18	2.43E-18	3.42E-19	1.65E-18		0.00E+00	0.00E+00	2.25E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
20	1.02E-15	4.27E-16	3.59E-16	5.06E-17	2.45E-16		0.00E+00	0.00E+00	0.00E+00	5.45E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
30	4.97E-15	2.09E-15	1.75E-15	2.47E-16	1.20E-15		0.00E+00	0.00E+00	0.00E+00	8.33E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
40	7.29E-15	3.06E-15	2.57E-15	3.63E-16	1.75E-15		0.00E+00	0.00E+00	0.00E+00	4.30E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
50	5.74E-15	2.83E-15	2.38E-15	3.36E-16	1.62E-15		0.00E+00	0.00E+00	0.00E+00	1.32E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
60	1.10E-13	4.60E-14	3.87E-14	5.46E-15	2.64E-14		0.00E+00	0.00E+00	0.00E+00	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
70	6.70E-13	2.81E-13	2.36E-13	3.33E-14	1.61E-13		0.00E+00	0.00E+00	0.00E+00	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
80	8.58E-13	3.60E-13	3.03E-13	4.27E-14	2.06E-13		0.00E+00	0.00E+00	0.00E+00	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
90	1.01E-12	4.24E-13	3.56E-13	5.03E-14	2.43E-13		0.00E+00	0.00E+00	0.00E+00	6.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
100	1.29E-12	5.42E-13	4.56E-13	6.43E-14	3.11E-13		0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
110	2.63E-12	1.11E-12	9.29E-13	1.31E-13	6.33E-13		0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
120	4.06E-12	1.71E-12	1.43E-12	2.02E-13	9.77E-13		0.00E+00	0.00E+00	0.00E+00	6.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
130	4.70E-12	1.97E-12	1.66E-12	2.34E-13	1.13E-12		0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
140	4.47E-12	1.88E-12	1.58E-12	2.23E-13	1.08E-12		0.00E+00	0.00E+00	0.00E+00	4.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
150	4.06E-12	1.71E-12	1.43E-12	2.02E-13	9.77E-13		0.00E+00	0.00E+00	0.00E+00	1.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
160	3.16E-12	1.32E-12	1.11E-12	1.57E-13	7.59E-13		0.00E+00	0.00E+00	0.00E+00	2.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
170	2.15E-12	9.02E-13	7.59E-13	1.07E-13	5.17E-13		0.00E+00	0.00E+00	0.00E+00	6.76E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
180	1.30E-12	5.45E-13	4.58E-13	6.46E-14	3.12E-13		0.00E+00	0.00E+00	0.00E+00	1.32E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
190	6.70E-13	2.81E-13	2.36E-13	3.33E-14	1.61E-13		0.00E+00	0.00E+00	0.00E+00	2.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
200	3.22E-13	1.35E-13	1.14E-13	1.60E-14	7.75E-14		0.00E+00	0.00E+00	0.00E+00	3.62E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
210	1.48E-13	6.22E-14	5.23E-14	7.38E-15	3.57E-14		0.00E+00	0.00E+00	0.00E+00	5.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
220	6.58E-14	2.76E-14	2.32E-14	3.28E-15	1.58E-14		0.00E+00	0.00E+00	0.00E+00	7.54E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
230	2.77E-14	1.15E-14	9.77E-15	1.38E-15	6.66E-15		0.00E+00	0.00E+00	0.00E+00	9.78E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
240	1.13E-14	4.75E-15	3.99E-15	5.63E-16	2.72E-15		0.00E+00	0.00E+00	0.00E+00	1.22E-00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
250	4.54E-15	1.91E-15	1.60E-15	2.26E-16	1.09E-15		0.00E+00	0.00E+00	0.00E+00	1.48E-00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
260	1.81E-15	7.60E-16	6.38E-16	9.01E-17	4.35E-16		0.00E+00	0.00E+00	0.00E+00	1.75E-00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
270	7.08E-16	2.97E-16	2.50E-16	3.53E-17	1.70E-16		0.00E+00	0.00E+00	0.00E+00	2.00E-00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
280	2.77E-16	1.15E-16	9.77E-17	1.38E-17	6.66E-17		0.00E+00	0.00E+00	0.00E+00	2.25E-00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
290	1.07E-16	4.49E-17	3.77E-17	5.32E-18	2.57E-17		0.00E+00	0.00E+00	0.00E+00	2.51E-00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
300	4.11E-17	1.72E-17	1.45E-17	2.03E-18	9.88E-18		0.00E+00	0.00E+00	0.00E+00	2.74E-00	3.03E-11	4.71E-15	4.68E-15	2.32E-16	5.28E-17	2.06E-18	4.90E-18
310	1.58E-17	6.61E-18	5.56E-18	7.84E-19	3.79E-18		0.00E+00	0.00E+00	0.00E+00	2.97E+00	3.05E-11	4.71E-15	4.68E-15	2.32E-16	5.28E-17	2.06E-18	4.90E-18
320	5.99E-18	2.52E-18	2.11E-18	2.98E-19	1.44E-18		0.00E+00	0.00E+00	0.00E+00	3.18E-00	3.05E-11	4.71E-15	4.68E-15	2.32E-16	5.28E-17	2.06E-18	4.90E-18
330	2.29E-18	9.63E-19	8.09E-19	1.14E-19	5.51E-19		0.00E+00	0.00E+00	0.00E+00	3.38E-00	3.05E-11	4.71E-15	4.68E-15	2.32E-16	5.28E-17	2.06E-18	4.90E-18
340	8.65E-19	3.63E-19	3.05E-19	4.31E-20	2.08E-19		0.00E+00	0.00E+00	0.00E+00	3.56E-00	3.05E-11	4.71E-15	4.68E-15	2.32E-16	5.28E-17	2.06E-18	4.90E-18
350	3.27E-19	1.37E-19	1.15E-19	1.63E-20	7.86E-20		0.00E+00	0.00E+00	0.00E+00	3.73E-00	3.05E-11	4.71E-15	4.68E-15	2.32E-16	5.28E-17	2.06E-18	4.90E-18
360	1.23E-19	5.18E-20	4.36E-20	6.15E-21	2.97E-20		0.00E+00	0.00E+00	0.00E+00	3.89E-00	3.05E-11	4.71E-15	4.68E-15	2.32E-16	5.28E-17	2.06E-18	4.90E-18
370	4.63E-20	1.94E-20	1.63E-20	2.31E-21	1.11E-20		0.00E+00	0.00E+00	0.00E+00	4.03E-00	3.05E-11	4.71E-15	4.68E-15	2.32E-16	5.28E-17	2.06E-18	4.90E-18
380	1.75E-20	7.33E-21	6.16E-21	8.69E-22	4.20E-21		0.00E+00	0.00E+00	0.00E+00	4.17E-00	3.05E-11	4.71E-15	4.68E-15	2.32E-16	5.28E-17	2.06E-18	4.90E-18
390	6.56E-21	2.75E-21	2.31E-21	3.27E-22	1.58E-21		0.00E+00	0.00E+00	0.00E+00	4.28E-00	3.05E-11	4.71E-15	4.68E-15	2.32E-16	5.28E-17	2.06E-18	4.90E-18
400	2.45E-21	1.03E-21	8.65E-22	1.22E-22	5.90E-22		0.00E+00	0.00E+00	0.00E+00	4.38E-00	3.01E-08	3.37E-12	3.35E-12	1.66E-13	3.77E-14	1.47E-15	3.50E-15
410	9.17E-22	3.85E-22	3.24E-22	4.57E-23	2.21E-22		0.00E+00	0.00E+00	0.00E+00	4.48E-00	3.01E-08	3.37E-12	3.35E-12	1.66E-13	3.77E-14	1.47E-15	3.50E-15
420	3.43E-22	1.44E-22	1.21E-22	1.71E-23	8.24E-23		0.00E+00	0.00E+00	0.00E+00	4.56E-00	3.01E-08	3.37E-12	3.35E-12	1.66E-13	3.77E-14	1.47E-15	3.50E-15
430	1.28E-22	5.37E-23	4.52E-23	6.37E-24	3.08E-23		0.00E+00	0.00E+00	0.00E+00	4.63E-00	3.01E-08	3.37E-12	3.35E-12	1.66E-13	3.77E-14	1.47E-15	3.50E-15
440	4.77E-23	2.00E-23	1.68E-23	2.37E-24	1.15E-23		0.00E+00	0.00E+00	0.00E+00	4.69E-00	3.01E-08	3.37E-12	3.35E-12	1.66E-13	3.77E-14	1.47E-15	3.50E-15
450	1.78E-23	7.46E-24	6.27E-24	8.85E-25	4.28E-24		0.00E+00	0.00E+00	0.00E+00	4.74E-00	3.01E-08	3.37E-12	3.35E-12	1.66E-13	3.77E-14	1.47E-15	3.50E-15
460	6.63E-24	2.78E-24	2.34E-24	3.30E-25	1.59E-24		0.00E+00	0.00E+00	0.00E+00	4.79E-00	3.01E-08	3.37E-12	3.35E-12	1.66E-13	3.77E-14	1.47E-15	3.50E-15
470	2.45E-24	1.03E-24	8.65E-25	1.22E-25	5.90E-25		0.00E+00	0.00E+00	0.00E+00	4.82E-00	3.01E-08	3.37E-12	3.35E-12	1.66E-13	3.77E-14	1.47E-15	3.50E-15
480	9.15E-25	3.84E-25	3.23E-25	4.55E-26	2.20E-25		0.00E+00	0.00E+00	0.00E+00	4.85E-00	3.01E-08	3.37E-12	3.35E-12	1.66E-13	3.77E-14	1.47E-15	3.50E-15
490	3.38E-25</																

**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

Concentrations	Pu-240	Th-230	Th-232
Time (yr)	(pCi/L)	(pCi/L)	(pCi/L)
0	0.00E+00	0.00E+00	0.00E+00
10	0.00E+00	0.00E+00	0.00E+00
20	0.00E+00	0.00E+00	0.00E+00
30	0.00E+00	0.00E+00	0.00E+00
40	0.00E+00	0.00E+00	0.00E+00
50	0.00E+00	0.00E+00	0.00E+00
60	0.00E+00	0.00E+00	0.00E+00
70	0.00E+00	0.00E+00	0.00E+00
80	0.00E+00	0.00E+00	0.00E+00
90	0.00E+00	0.00E+00	0.00E+00
100	0.00E+00	0.00E+00	0.00E+00
110	0.00E+00	0.00E+00	0.00E+00
120	0.00E+00	0.00E+00	0.00E+00
130	0.00E+00	0.00E+00	0.00E+00
140	0.00E+00	0.00E+00	0.00E+00
150	0.00E+00	0.00E+00	0.00E+00
160	0.00E+00	0.00E+00	0.00E+00
170	0.00E+00	0.00E+00	0.00E+00
180	0.00E+00	0.00E+00	0.00E+00
190	0.00E+00	0.00E+00	0.00E+00
200	0.00E+00	0.00E+00	0.00E+00
210	0.00E+00	0.00E+00	0.00E+00
220	0.00E+00	0.00E+00	0.00E+00
230	0.00E+00	0.00E+00	0.00E+00
240	0.00E+00	0.00E+00	0.00E+00
250	0.00E+00	0.00E+00	0.00E+00
260	0.00E+00	0.00E+00	0.00E+00
270	0.00E+00	0.00E+00	0.00E+00
280	0.00E+00	0.00E+00	0.00E+00
290	0.00E+00	0.00E+00	0.00E+00
300	6.12E-18	4.16E-18	9.18E-18
310	6.12E-18	4.16E-18	9.18E-18
320	6.12E-18	4.16E-18	9.18E-18
330	6.12E-18	4.16E-18	9.18E-18
340	6.12E-18	4.16E-18	9.18E-18
350	6.12E-18	4.16E-18	9.18E-18
360	6.12E-18	4.16E-18	9.18E-18
370	6.12E-18	4.16E-18	9.18E-18
380	6.12E-18	4.16E-18	9.18E-18
390	6.12E-18	4.16E-18	9.18E-18
400	4.38E-15	2.98E-15	6.57E-15
410	4.38E-15	2.98E-15	6.57E-15
420	4.38E-15	2.98E-15	6.57E-15
430	4.38E-15	2.98E-15	6.57E-15
440	4.38E-15	2.98E-15	6.57E-15
450	4.38E-15	2.98E-15	6.57E-15
460	4.38E-15	2.98E-15	6.57E-15
470	4.38E-15	2.98E-15	6.57E-15
480	4.38E-15	2.98E-15	6.57E-15
490	4.38E-15	2.98E-15	6.57E-15
500	2.42E-13	1.64E-13	3.63E-13
510	2.42E-13	1.64E-13	3.63E-13
520	2.42E-13	1.64E-13	3.63E-13
530	2.42E-13	1.64E-13	3.63E-13

Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.

**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

Concentrations	pp	2-Butanone Group	Benzene Group						Vinyl Chloride Group							Trichloroethene (mg/L)
	Molybdenum (mg/L)	2-Butanone (mg/L)	Benzene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	m-Xylene (mg/L)	p-Xylene (mg/L)	o-Xylene (mg/L)	Vinyl chloride (mg/L)	cis-1,2-DCE (mg/L)	trans-1,2-DCE (mg/L)	1,2-DCA (mg/L)	Chloroform (mg/L)	1,1-DCE (mg/L)	1,2-DCE (mg/L)	
Time (yr)																
540	9.41E-05	3.56E-41	1.23E-39	3.95E-40	3.21E-40	4.44E-40	2.80E-40	3.62E-40	6.17E-20	1.03E-19	3.63E-20	1.47E-21	8.82E-21	3.54E-21	1.87E-23	2.18E-26
550	9.41E-05	6.63E-42	2.59E-40	8.31E-41	6.76E-41	9.35E-41	5.91E-41	7.61E-41	2.83E-20	4.73E-20	1.67E-20	6.76E-22	4.05E-21	1.62E-21	8.57E-24	7.91E-27
560	9.41E-05	9.05E-43	5.46E-41	1.75E-41	1.43E-41	1.97E-41	1.24E-41	1.61E-41	1.30E-20	2.17E-20	7.66E-21	3.11E-22	1.86E-21	7.45E-22	3.94E-24	2.87E-27
570	9.41E-05	0.00E+00	1.12E-41	3.60E-42	2.92E-42	4.04E-42	2.55E-42	3.29E-42	5.98E-21	9.99E-21	3.52E-21	1.43E-22	8.55E-22	3.43E-22	1.81E-24	1.04E-27
580	9.41E-05	0.00E+00	2.61E-42	8.38E-43	6.81E-43	9.42E-43	5.95E-43	7.68E-43	2.74E-21	4.58E-21	1.61E-21	6.55E-23	3.92E-22	1.57E-22	8.30E-25	1.36E-28
590	9.41E-05	0.00E+00	4.75E-43	1.52E-43	1.24E-43	1.71E-43	1.08E-43	1.40E-43	1.26E-21	2.10E-21	7.42E-22	3.01E-23	1.80E-22	7.22E-23	3.82E-25	4.93E-29
600	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-22	9.62E-22	3.39E-22	1.38E-23	8.24E-23	3.30E-23	1.75E-25	1.79E-29
610	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-22	4.41E-22	1.55E-22	6.31E-24	3.78E-23	1.51E-23	8.00E-26	6.48E-30
620	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-22	2.02E-22	7.13E-23	2.89E-24	1.73E-23	6.93E-24	3.67E-26	2.35E-30
630	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-23	9.32E-23	3.29E-23	1.33E-24	7.98E-24	3.20E-24	1.69E-26	8.49E-31
640	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-23	4.28E-23	1.51E-23	6.12E-25	3.66E-24	1.47E-24	7.76E-27	3.08E-31
650	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-23	1.97E-23	6.95E-24	2.82E-25	1.69E-24	6.76E-25	3.58E-27	1.11E-31
660	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-24	9.00E-24	3.17E-24	1.29E-25	7.71E-25	3.09E-25	1.63E-27	4.04E-32
670	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-24	4.12E-24	1.45E-24	5.90E-26	3.53E-25	1.42E-25	7.48E-28	1.46E-32
680	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-24	1.89E-24	6.66E-25	2.70E-26	1.62E-25	6.47E-26	3.42E-28	5.28E-33
690	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-25	8.70E-25	3.07E-25	1.25E-26	7.45E-26	2.99E-26	1.58E-28	1.91E-33
700	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-25	3.99E-25	1.41E-25	5.71E-27	3.42E-26	1.17E-26	7.24E-29	6.92E-34
710	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-25	1.82E-25	6.42E-26	2.61E-27	1.56E-26	6.25E-27	3.30E-29	2.50E-34
720	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-26	8.40E-26	2.96E-26	1.20E-27	7.19E-27	2.88E-27	1.52E-29	9.05E-35
730	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-26	3.84E-26	1.35E-26	5.50E-28	3.29E-27	1.32E-27	6.97E-30	3.28E-35
740	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-26	1.77E-26	6.24E-27	2.53E-28	1.52E-27	6.07E-28	3.21E-30	1.19E-35
750	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-27	8.12E-27	2.86E-27	1.16E-28	6.95E-28	2.78E-28	1.47E-30	4.29E-36
760	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-27	3.72E-27	1.31E-27	5.33E-29	3.19E-28	1.28E-28	6.76E-31	1.55E-36
770	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-27	1.70E-27	6.01E-28	2.44E-29	1.46E-28	5.84E-29	3.09E-31	1.53E-36
780	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-28	7.83E-28	2.76E-28	1.12E-29	6.71E-29	2.69E-29	1.42E-31	5.61E-37
790	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-28	3.59E-28	1.27E-28	5.14E-30	3.07E-29	1.23E-29	6.51E-32	2.03E-37
800	7.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-29	1.65E-28	5.83E-29	2.36E-30	1.41E-29	5.67E-30	3.00E-32	7.34E-38
810	7.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-29	7.58E-29	2.67E-29	1.09E-30	6.49E-30	2.60E-30	1.38E-32	2.66E-38
820	7.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-29	3.47E-29	1.23E-29	4.97E-31	2.97E-30	1.19E-30	6.30E-33	9.63E-39
830	7.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-30	1.59E-29	5.62E-30	2.28E-31	1.37E-30	5.47E-31	2.89E-33	3.49E-39
840	7.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-30	7.30E-30	2.57E-30	1.04E-31	6.25E-31	2.50E-31	1.32E-33	1.26E-39
850	7.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-30	3.36E-30	1.18E-30	4.80E-32	2.87E-31	1.15E-31	6.09E-34	4.56E-40
860	7.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-31	1.54E-30	5.42E-31	2.20E-32	1.32E-31	5.27E-32	2.79E-34	1.64E-40
870	7.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-31	7.06E-31	2.49E-31	1.01E-32	6.05E-32	2.42E-32	1.28E-34	5.96E-41
880	7.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-31	3.24E-31	1.14E-31	4.64E-33	2.77E-32	1.11E-32	5.88E-35	2.14E-41
890	7.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-32	1.48E-31	5.23E-32	2.12E-33	1.27E-32	5.09E-33	2.69E-35	7.69E-42
900	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-32	6.81E-32	2.40E-32	9.75E-34	5.83E-33	2.34E-33	1.24E-35	3.20E-42
910	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-32	3.14E-32	1.11E-32	4.49E-34	2.69E-33	1.08E-33	5.70E-36	6.40E-43
920	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-33	1.44E-32	5.08E-33	2.06E-34	1.23E-33	4.94E-34	2.61E-36	6.40E-43
930	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-33	6.58E-33	2.32E-33	9.42E-35	5.63E-34	2.26E-34	1.19E-36	0.00E+00
940	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-33	3.02E-33	1.07E-33	4.33E-35	2.59E-34	1.04E-34	5.48E-37	0.00E+00
950	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-34	1.39E-33	4.89E-34	1.98E-35	1.19E-34	4.76E-35	2.51E-37	0.00E+00
960	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-34	6.36E-34	2.24E-34	9.11E-36	5.45E-35	2.18E-35	1.15E-37	0.00E+00
970	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-34	2.92E-34	1.03E-34	4.18E-36	2.50E-35	1.00E-35	5.30E-38	0.00E+00
980	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-35	1.34E-34	4.71E-35	1.91E-36	1.14E-35	4.58E-36	2.42E-38	0.00E+00
990	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-35	6.15E-35	2.17E-35	8.80E-17	5.26E-36	2.11E-36</		

**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

Concentrations	chloroethene Group		Chlorobenzene Group			2-Methylphenol Group						
	Carbon tetrachloride	Tetrachloroethene	Chlorobenzene	1,4-Dichlorobenzene	Hexachlorobenzene	2-Methylphenol	Pyridine	4-Methylphenol	3-Methylphenol	2,4-DNT	Nitrobenzene	2,4,6-Trichlorophenol
Time (yr)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
540	7.50E-28	6.61E-28	7.16E-40	3.26E-41	9.52E-44	1.50E-38	4.41E-39	8.30E-39	5.04E-39	1.38E-40	1.58E-40	1.34E-41
550	2.72E-28	2.40E-28	1.34E-40	6.10E-42	1.78E-44	3.11E-39	9.14E-40	1.72E-39	1.04E-39	2.85E-41	3.27E-41	2.79E-42
560	9.87E-29	8.72E-29	2.47E-41	1.12E-42	3.29E-45	6.47E-40	1.90E-40	3.58E-40	2.17E-40	5.94E-42	6.79E-42	5.80E-43
570	3.58E-29	3.16E-29	4.71E-42	2.14E-43	6.26E-46	1.35E-40	3.97E-41	7.47E-41	4.54E-41	1.24E-42	1.42E-42	1.21E-43
580	4.68E-30	4.13E-30	6.07E-43	2.76E-44	8.07E-47	2.76E-41	8.11E-42	1.53E-41	9.27E-42	2.53E-43	2.90E-43	2.47E-44
590	1.70E-30	1.50E-30	0.00E+00	0.00E+00	0.00E+00	6.40E-42	1.88E-42	3.54E-42	2.15E-42	5.87E-44	6.72E-44	5.73E-43
600	6.16E-31	5.44E-31	0.00E+00	0.00E+00	0.00E+00	8.35E-43	2.46E-43	4.62E-43	2.81E-43	7.67E-45	8.77E-45	7.48E-46
610	2.23E-31	1.97E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	8.08E-32	7.14E-32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	2.92E-32	2.58E-32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	1.06E-32	9.36E-33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	3.82E-33	3.37E-33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	1.39E-33	1.23E-33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	5.02E-34	4.44E-34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	1.82E-34	1.61E-34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	6.57E-35	5.81E-35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	2.38E-35	2.10E-35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	8.60E-36	7.60E-36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	3.11E-36	2.75E-36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	1.13E-36	9.97E-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	4.09E-37	3.62E-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	1.48E-37	1.30E-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	5.33E-38	4.71E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	5.33E-38	4.71E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	1.93E-38	1.71E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	6.98E-39	6.17E-39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	2.52E-39	2.23E-39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	9.15E-40	8.09E-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	3.31E-40	2.93E-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	1.20E-40	1.06E-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	4.33E-41	3.83E-41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	1.57E-41	1.39E-41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	5.64E-42	4.99E-42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	2.05E-42	1.81E-42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	7.36E-43	6.51E-43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	2.65E-43	2.34E-43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	1.10E-43	9.73E-44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
910	2.20E-44	1.95E-44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	2.20E-44	1.95E-44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
940	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

Concentrations	gamma-Chlordane Group						Pentachlorophenol Group						
	2,4,5-Trichlorophenol	Acrylonitrile	gamma-Chlordane	alpha-Chlordane	Methoxychlor	Heptachlor epoxide	Toxaphene	Pentachlorophenol	Naphthalene	Hexachloroethane	Acenaphthene	Acenaphthylene	Fluorene
Time (yr)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
540	1.79E-40	6.63E-39	6.22E-31	6.22E-31	1.13E-29	3.82E-32	9.39E-31	1.04E-25	1.27E-26	5.38E-27	3.07E-27	2.10E-27	1.92E-27
550	3.70E-41	1.37E-39	4.06E-31	4.06E-31	7.35E-30	2.49E-32	6.13E-31	3.85E-26	4.70E-27	1.99E-27	1.14E-27	7.78E-28	7.12E-28
560	7.70E-42	2.86E-40	2.62E-31	2.62E-31	4.74E-30	1.61E-32	3.96E-31	1.42E-26	1.73E-27	7.34E-28	4.19E-28	2.87E-28	2.63E-28
570	1.61E-42	5.97E-41	1.67E-31	1.67E-31	3.02E-30	1.03E-32	2.52E-31	5.24E-27	6.39E-28	2.71E-28	1.55E-28	1.06E-28	9.69E-29
580	3.28E-43	1.22E-41	1.06E-31	1.06E-31	1.92E-30	6.51E-33	1.60E-31	1.93E-27	2.35E-28	9.95E-29	5.69E-29	3.90E-29	3.57E-29
590	7.62E-44	2.83E-42	6.62E-32	6.62E-32	1.20E-30	4.06E-33	1.00E-31	7.14E-28	8.71E-29	3.69E-29	2.11E-29	1.44E-29	1.32E-29
600	9.94E-45	3.69E-43	4.10E-32	4.10E-32	7.42E-31	2.52E-33	6.19E-32	2.64E-28	3.22E-29	1.36E-29	7.79E-30	5.33E-30	4.88E-30
610	0.00E+00	0.00E+00	2.53E-32	2.53E-32	4.58E-31	1.55E-33	3.82E-32	9.72E-29	1.19E-29	5.03E-30	2.87E-30	1.96E-30	1.80E-30
620	0.00E+00	0.00E+00	1.54E-32	1.54E-32	2.79E-31	9.46E-34	2.33E-32	3.59E-29	4.37E-30	1.85E-30	1.06E-30	7.23E-31	6.62E-31
630	0.00E+00	0.00E+00	9.36E-33	9.36E-33	1.69E-31	5.75E-34	1.41E-32	1.32E-29	1.61E-30	6.82E-31	3.89E-31	2.67E-31	2.44E-31
640	0.00E+00	0.00E+00	5.64E-33	5.64E-33	1.02E-31	3.46E-34	8.52E-33	4.85E-30	5.92E-31	2.51E-31	1.43E-31	9.80E-32	8.97E-32
650	0.00E+00	0.00E+00	3.38E-33	3.38E-33	6.12E-32	2.08E-34	5.10E-33	1.79E-30	2.18E-31	9.25E-32	5.28E-32	3.62E-32	3.31E-32
660	0.00E+00	0.00E+00	2.01E-33	2.01E-33	3.64E-32	1.23E-34	3.04E-33	6.57E-31	8.02E-32	3.40E-32	1.94E-32	1.33E-32	1.22E-32
670	0.00E+00	0.00E+00	1.19E-33	1.19E-33	2.15E-32	7.31E-35	1.80E-33	2.42E-31	2.95E-32	1.25E-32	7.14E-33	4.89E-33	4.48E-33
680	0.00E+00	0.00E+00	7.01E-34	7.01E-34	1.27E-32	4.30E-35	1.06E-33	8.91E-32	1.09E-32	4.61E-33	2.63E-33	1.80E-33	1.65E-33
690	0.00E+00	0.00E+00	4.11E-34	4.11E-34	7.44E-33	2.52E-35	6.21E-34	3.27E-32	3.99E-33	1.69E-33	9.65E-34	6.61E-34	6.05E-34
700	0.00E+00	0.00E+00	2.40E-34	2.40E-34	4.34E-33	1.47E-35	3.62E-34	1.20E-32	1.46E-33	6.20E-34	3.54E-34	2.42E-34	2.22E-34
710	0.00E+00	0.00E+00	1.39E-34	1.39E-34	2.52E-33	8.53E-36	2.10E-34	4.42E-33	5.39E-34	2.29E-34	1.30E-34	8.93E-35	8.18E-35
720	0.00E+00	0.00E+00	8.07E-35	8.07E-35	1.46E-33	4.95E-36	1.22E-34	1.62E-33	1.98E-34	8.38E-35	4.78E-35	3.27E-35	3.00E-35
730	0.00E+00	0.00E+00	4.65E-35	4.65E-35	8.42E-34	2.86E-36	7.02E-35	5.97E-34	7.28E-35	3.09E-35	1.76E-35	1.21E-35	1.10E-35
740	0.00E+00	0.00E+00	2.67E-35	2.67E-35	4.83E-34	1.64E-36	4.03E-35	2.20E-34	2.68E-35	1.14E-35	6.49E-36	4.44E-36	4.07E-36
750	0.00E+00	0.00E+00	1.53E-35	1.53E-35	2.77E-34	9.39E-37	2.31E-35	8.04E-35	9.81E-36	4.16E-36	2.37E-36	1.62E-36	1.49E-36
760	0.00E+00	0.00E+00	8.74E-36	8.74E-36	1.58E-34	5.37E-37	1.32E-35	2.96E-35	3.61E-36	1.53E-36	8.73E-37	5.98E-37	5.48E-37
770	0.00E+00	0.00E+00	4.98E-36	4.98E-36	9.01E-35	3.06E-37	7.52E-36	1.08E-35	1.32E-36	5.58E-37	3.19E-37	2.18E-37	2.00E-37
780	0.00E+00	0.00E+00	2.82E-36	2.82E-36	5.10E-35	1.73E-37	4.26E-36	3.98E-36	4.86E-37	2.06E-37	1.17E-37	8.04E-38	7.36E-38
790	0.00E+00	0.00E+00	1.60E-36	1.60E-36	2.90E-35	9.82E-38	2.42E-36	1.46E-36	1.78E-37	7.55E-38	4.31E-38	2.95E-38	2.70E-38
800	0.00E+00	0.00E+00	9.03E-37	9.03E-37	1.63E-35	5.54E-38	1.36E-36	5.36E-37	6.54E-38	2.77E-38	1.58E-38	1.08E-38	9.92E-39
810	0.00E+00	0.00E+00	5.09E-37	5.09E-37	9.21E-36	3.13E-38	7.69E-37	1.97E-37	2.40E-38	1.02E-38	5.81E-39	3.98E-39	3.64E-39
820	0.00E+00	0.00E+00	2.86E-37	2.86E-37	5.18E-36	1.76E-38	4.32E-37	7.21E-38	8.80E-39	3.73E-39	2.13E-39	1.46E-39	1.33E-39
830	0.00E+00	0.00E+00	1.60E-37	1.60E-37	2.90E-36	9.82E-39	2.42E-37	2.64E-38	3.22E-39	1.36E-39	7.79E-40	5.33E-40	4.88E-40
840	0.00E+00	0.00E+00	8.97E-38	8.97E-38	1.62E-35	5.51E-39	1.35E-37	9.68E-39	1.18E-39	5.00E-40	2.86E-40	1.96E-40	1.79E-40
850	0.00E+00	0.00E+00	5.01E-38	5.01E-38	9.07E-37	3.08E-39	7.57E-38	3.54E-39	4.32E-40	1.83E-40	1.04E-40	7.15E-41	6.55E-41
860	0.00E+00	0.00E+00	2.79E-38	2.79E-38	5.05E-37	1.71E-39	4.21E-38	1.30E-39	1.59E-40	6.72E-41	3.84E-41	2.63E-41	2.41E-41
870	0.00E+00	0.00E+00	1.55E-38	1.55E-38	2.81E-37	9.52E-40	2.34E-38	4.77E-40	5.82E-41	2.47E-41	1.41E-41	9.64E-42	8.82E-42
880	0.00E+00	0.00E+00	8.63E-39	8.63E-39	1.56E-37	5.10E-40	1.30E-38	1.74E-40	2.12E-41	9.00E-42	5.13E-42	3.51E-42	3.22E-42
890	0.00E+00	0.00E+00	4.78E-39	4.78E-39	8.65E-38	2.93E-40	7.22E-39	6.41E-41	7.82E-42	3.31E-42	1.89E-42	1.29E-42	1.19E-42
900	0.00E+00	0.00E+00	2.65E-39	2.65E-39	4.80E-38	1.63E-40	4.00E-39	2.37E-41	2.89E-42	1.23E-42	6.99E-43	4.79E-43	4.38E-43
910	0.00E+00	0.00E+00	1.46E-39	1.46E-39	2.64E-38	8.96E-41	2.20E-39	8.75E-42	1.07E-42	4.52E-43	2.58E-43	1.77E-43	1.62E-43
920	0.00E+00	0.00E+00	8.08E-40	8.08E-40	1.46E-38	4.96E-41	1.22E-39	3.25E-42	3.96E-43	1.68E-43	9.59E-44	6.56E-44	6.01E-44
930	0.00E+00	0.00E+00	4.45E-40	4.45E-40	8.05E-39	2.73E-41	6.72E-40	9.99E-43	1.22E-43	5.17E-44	2.95E-44	2.02E-44	1.85E-44
940	0.00E+00	0.00E+00	2.45E-40	2.45E-40	4.43E-39	1.50E-41	3.70E-40	8.27E-44	1.01E-44	4.27E-45	2.44E-45	1.67E-45	1.53E-45
950	0.00E+00	0.00E+00	1.35E-40	1.35E-40	2.44E-39	8.29E-42	2.04E-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	0.00E+00	0.00E+00	7.40E-41	7.40E-41	1.74E-39	4.54E-42	1.12E-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	0.00E+00	0.00E+00	4.06E-41	4.06E-41	7.35E-40	2.49E-42	6.13E-41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	0.00E+00	0.00E+00	2.22E-41	2.22E-41	4.02E-40	1.36E-42	3.35E-41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	0.00E+00	0.00E+00	1.22E-41	1.22E-41	2.21E-40	7.49E-43	1.84E-41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	0.00E+00	0.00E+00	6.64E-42	6.64E-42	1.20E-40	4.08E-43	1.00E-41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

Concentrations	Benzo(a)pyrene Group					PCB Group	Tc-99 Group		U-238 Group					U-238 Group			
	Phenanthrene	Anthracene	Fluoranthene	Hexachlorobutadiene	Pyrene		Benzo(a)pyrene	Dioxin/Furan	PCB	Tc-99	Np-237	U-238	U-234	U-235	Ra-226	Pu-238	Pu-239
Time (yr)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)
540	2.36E-27	9.91E-28	8.33E-28	1.18E-28	5.68E-28	0.00E+00	0.00E+00	0.00E+00	4.89E+00	1.48E-06	1.86E-10	1.85E-10	9.15E-12	2.08E-12	8.13E-14	1.93E-13	
550	8.74E-28	3.67E-28	3.08E-28	4.35E-29	2.10E-28	0.00E+00	0.00E+00	0.00E+00	4.88E+00	1.48E-06	1.86E-10	1.85E-10	9.15E-12	2.08E-12	8.13E-14	1.93E-13	
560	3.22E-28	1.35E-28	1.14E-28	1.60E-29	7.75E-29	0.00E+00	0.00E+00	0.00E+00	4.86E+00	1.48E-06	1.86E-10	1.85E-10	9.15E-12	2.08E-12	8.13E-14	1.93E-13	
570	1.19E-28	4.99E-29	4.20E-29	5.92E-30	2.86E-29	0.00E+00	0.00E+00	0.00E+00	4.84E+00	1.48E-06	1.86E-10	1.85E-10	9.15E-12	2.08E-12	8.13E-14	1.93E-13	
580	4.38E-29	1.84E-29	1.55E-29	2.18E-30	1.05E-29	0.00E+00	0.00E+00	0.00E+00	4.82E+00	1.48E-06	1.86E-10	1.85E-10	9.15E-12	2.08E-12	8.13E-14	1.93E-13	
590	1.62E-29	6.80E-30	5.72E-30	8.07E-31	3.90E-30	0.00E+00	0.00E+00	0.00E+00	4.80E+00	1.48E-06	1.86E-10	1.85E-10	9.15E-12	2.08E-12	8.13E-14	1.93E-13	
600	5.99E-30	2.52E-30	2.11E-30	2.98E-31	1.44E-30	0.00E+00	0.00E+00	0.00E+00	4.77E+00	2.23E-05	3.66E-09	3.63E-09	1.80E-10	4.10E-11	1.60E-12	3.81E-12	
610	2.21E-30	9.26E-31	7.79E-31	1.10E-31	5.31E-31	0.00E+00	0.00E+00	0.00E+00	4.73E+00	2.23E-05	3.66E-09	3.63E-09	1.80E-10	4.10E-11	1.60E-12	3.81E-12	
620	8.13E-31	3.41E-31	2.87E-31	4.05E-32	1.95E-31	0.00E+00	0.00E+00	0.00E+00	4.70E+00	2.23E-05	3.66E-09	3.63E-09	1.80E-10	4.10E-11	1.60E-12	3.81E-12	
630	3.00E-31	1.26E-31	1.06E-31	1.49E-32	7.21E-32	0.00E+00	0.00E+00	0.00E+00	4.67E+00	2.23E-05	3.66E-09	3.63E-09	1.80E-10	4.10E-11	1.60E-12	3.81E-12	
640	1.10E-31	4.62E-32	3.88E-32	5.48E-33	2.65E-32	0.00E+00	0.00E+00	0.00E+00	4.64E+00	2.23E-05	3.66E-09	3.63E-09	1.80E-10	4.10E-11	1.60E-12	3.81E-12	
650	4.06E-32	1.71E-32	1.43E-32	2.02E-33	9.77E-33	0.00E+00	0.00E+00	0.00E+00	4.60E+00	2.23E-05	3.66E-09	3.63E-09	1.80E-10	4.10E-11	1.60E-12	3.81E-12	
660	1.49E-32	6.26E-33	5.26E-33	7.42E-34	3.59E-33	0.00E+00	0.00E+00	0.00E+00	4.56E+00	2.23E-05	3.66E-09	3.63E-09	1.80E-10	4.10E-11	1.60E-12	3.81E-12	
670	5.49E-33	2.31E-33	1.94E-33	2.73E-34	1.32E-33	0.00E+00	0.00E+00	0.00E+00	4.52E+00	2.23E-05	3.66E-09	3.63E-09	1.80E-10	4.10E-11	1.60E-12	3.81E-12	
680	2.02E-33	8.49E-34	7.14E-34	1.01E-34	4.86E-34	0.00E+00	0.00E+00	0.00E+00	4.48E+00	2.23E-05	3.66E-09	3.63E-09	1.80E-10	4.10E-11	1.60E-12	3.81E-12	
690	7.42E-34	3.12E-34	2.62E-34	3.70E-35	1.79E-34	0.00E+00	0.00E+00	0.00E+00	4.43E+00	2.23E-05	3.66E-09	3.63E-09	1.80E-10	4.10E-11	1.60E-12	3.81E-12	
700	2.72E-34	1.14E-34	9.61E-35	1.36E-35	6.55E-35	0.00E+00	0.00E+00	0.00E+00	4.39E+00	1.62E-04	3.21E-08	3.19E-08	1.58E-09	3.60E-10	1.40E-11	3.34E-11	
710	1.00E-34	4.21E-35	3.54E-35	4.99E-36	2.41E-35	0.00E+00	0.00E+00	0.00E+00	4.34E+00	1.62E-04	3.21E-08	3.19E-08	1.58E-09	3.60E-10	1.40E-11	3.34E-11	
720	3.68E-35	1.54E-35	1.30E-35	1.83E-36	8.85E-36	0.00E+00	0.00E+00	0.00E+00	4.29E+00	1.62E-04	3.21E-08	3.19E-08	1.58E-09	3.60E-10	1.40E-11	3.34E-11	
730	1.36E-35	5.69E-36	4.78E-36	6.75E-37	3.26E-36	0.00E+00	0.00E+00	0.00E+00	4.25E+00	1.62E-04	3.21E-08	3.19E-08	1.58E-09	3.60E-10	1.40E-11	3.34E-11	
740	4.99E-36	2.10E-36	1.76E-36	2.49E-37	1.20E-36	0.00E+00	0.00E+00	0.00E+00	4.20E+00	1.62E-04	3.21E-08	3.19E-08	1.58E-09	3.60E-10	1.40E-11	3.34E-11	
750	1.83E-36	7.66E-37	6.44E-37	9.09E-38	4.39E-37	0.00E+00	0.00E+00	0.00E+00	4.15E+00	1.62E-04	3.21E-08	3.19E-08	1.58E-09	3.60E-10	1.40E-11	3.34E-11	
760	6.72E-37	2.82E-37	2.37E-37	3.34E-38	1.62E-37	0.00E+00	0.00E+00	0.00E+00	4.11E+00	1.62E-04	3.21E-08	3.19E-08	1.58E-09	3.60E-10	1.40E-11	3.34E-11	
770	2.45E-37	1.03E-37	8.65E-38	1.22E-38	5.90E-38	0.00E+00	0.00E+00	0.00E+00	4.06E+00	1.62E-04	3.21E-08	3.19E-08	1.58E-09	3.60E-10	1.40E-11	3.34E-11	
780	9.03E-38	3.79E-38	3.19E-38	4.50E-39	2.17E-38	0.00E+00	0.00E+00	0.00E+00	4.01E+00	1.62E-04	3.21E-08	3.19E-08	1.58E-09	3.60E-10	1.40E-11	3.34E-11	
790	3.31E-38	1.39E-38	1.17E-38	1.65E-39	7.97E-39	0.00E+00	0.00E+00	0.00E+00	3.96E+00	1.62E-04	3.21E-08	3.19E-08	1.58E-09	3.60E-10	1.40E-11	3.34E-11	
800	1.22E-38	5.11E-39	4.29E-39	6.06E-40	2.93E-39	0.00E+00	0.00E+00	0.00E+00	3.91E+00	6.96E-04	1.62E-07	1.61E-07	7.97E-09	1.81E-09	7.08E-11	1.68E-10	
810	4.47E-39	1.88E-39	1.58E-39	2.23E-40	1.08E-39	0.00E+00	0.00E+00	0.00E+00	3.87E+00	6.96E-04	1.62E-07	1.61E-07	7.97E-09	1.81E-09	7.08E-11	1.68E-10	
820	1.64E-39	6.87E-40	5.78E-40	8.15E-41	3.94E-40	0.00E+00	0.00E+00	0.00E+00	3.73E-24	6.96E-04	1.62E-07	1.61E-07	7.97E-09	1.81E-09	7.08E-11	1.68E-10	
830	5.99E-40	2.52E-40	2.11E-40	2.98E-41	1.44E-40	0.00E+00	0.00E+00	0.00E+00	3.73E-24	6.96E-04	1.62E-07	1.61E-07	7.97E-09	1.81E-09	7.08E-11	1.68E-10	
840	2.20E-40	9.23E-41	7.75E-41	1.09E-41	5.29E-41	0.00E+00	0.00E+00	0.00E+00	3.73E-24	6.96E-04	1.62E-07	1.61E-07	7.97E-09	1.81E-09	7.08E-11	1.68E-10	
850	8.04E-41	3.37E-41	2.84E-41	4.00E-42	1.93E-41	0.00E+00	0.00E+00	0.00E+00	3.73E-24	6.96E-04	1.62E-07	1.61E-07	7.97E-09	1.81E-09	7.08E-11	1.68E-10	
860	2.95E-41	1.24E-41	1.04E-41	1.47E-42	7.10E-42	0.00E+00	0.00E+00	0.00E+00	3.73E-24	6.96E-04	1.62E-07	1.61E-07	7.97E-09	1.81E-09	7.08E-11	1.68E-10	
870	1.08E-41	4.55E-42	3.82E-42	5.39E-43	2.60E-42	0.00E+00	0.00E+00	0.00E+00	3.73E-24	6.96E-04	1.62E-07	1.61E-07	7.97E-09	1.81E-09	7.08E-11	1.68E-10	
880	3.95E-42	1.66E-42	1.39E-42	1.97E-43	9.50E-43	0.00E+00	0.00E+00	0.00E+00	3.73E-24	6.96E-04	1.62E-07	1.61E-07	7.97E-09	1.81E-09	7.08E-11	1.68E-10	
890	1.46E-42	6.11E-43	5.13E-43	7.24E-44	3.50E-43	0.00E+00	0.00E+00	0.00E+00	3.73E-24	6.96E-04	1.62E-07	1.61E-07	7.97E-09	1.81E-09	7.08E-11	1.68E-10	
900	5.38E-43	2.26E-43	1.90E-43	2.68E-44	1.29E-43	0.00E+00	0.00E+00	0.00E+00	4.20E-22	3.43E-00	2.08E-03	5.66E-07	5.62E-07	2.78E-08	6.34E-09	2.47E-10	
910	1.99E-43	8.34E-44	7.01E-44	9.89E-45	4.78E-44	0.00E+00	0.00E+00	0.00E+00	4.20E-22	3.43E-00	2.08E-03	5.66E-07	5.62E-07	2.78E-08	6.34E-09	2.47E-10	
920	7.38E-44	3.10E-44	2.60E-44	3.67E-45	1.77E-44	0.00E+00	0.00E+00	0.00E+00	4.20E-22	3.43E-00	2.08E-03	5.66E-07	5.62E-07	2.78E-08	6.34E-09	2.47E-10	
930	2.27E-44	9.52E-45	8.00E-45	1.13E-45	5.46E-45	0.00E+00	0.00E+00	0.00E+00	4.20E-22	3.42E+00	2.08E-03	5.66E-07	5.62E-07	2.78E-08	6.34E-09	2.47E-10	
940	1.88E-45	7.88E-46	6.62E-46	9.34E-47	4.51E-46	0.00E+00	0.00E+00	0.00E+00	4.20E-22	3.23E+00	2.08E-03	5.66E-07	5.62E-07	2.78E-08	6.34E-09	2.47E-10	
950	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-22	3.18E+00	2.08E-03	5.66E-07	5.62E-07	2.78E-08	6.34E-09	2.47E-10	
960	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-22	3.14E+00	2.08E-03	5.66E-07	5.62E-07	2.78E-08	6.34E-09	2.47E-10	
970	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-22	3.09E+00	2.08E-03	5.66E-07	5.62E-07	2.78E-08	6.34E-09	2.47E-10	
980	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-22	3.05E+00	2.08E-03	5.66E-07	5.62E-07	2.78E-08	6.34E-09	2.47E-10	
990	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-22	3.00E+00	2.08E-03	5.66E-07	5.62E-07	2.78E-08	6.34E-09	2.47E-10	
1000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-22	2.79E-21	4.85E-03	5.55E-06	5.14E-06	7.63E-08	1.74E-08	6.77E-10	
1100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-20	2.90E+00	9.42E-03	5.34E-06	5.32E-06	1.74E-07	3.96E-09	1.55E-09	
1200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-19	2.26E+00	1.60E-02	7.10E-06	7.05E-06	3.49E-07	7.95E-08	3.10E-09	
1300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-19	1.98E+00	2.46E-02	1.29E-05	1.28E-05	6.35E-07	1.44E-07	5.64E-09	
1400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-18	1.72E+00	3.48E-02	2.15E-05	2.13E-05	1.06E-06	2.41E-07	9.40E-09	
1500	0.00E+00	0.00E+00	0.00														

**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

<i>Concentrations</i>	Pu-240	Tb-230	Tb-232
<i>Time (yr)</i>	(pCi/L)	(pCi/L)	(pCi/L)
540	2.42E-13	1.64E-13	3.63E-13
550	2.42E-13	1.64E-13	3.63E-13
560	2.42E-13	1.64E-13	3.63E-13
570	2.42E-13	1.64E-13	3.63E-13
580	2.42E-13	1.64E-13	3.63E-13
590	2.42E-13	1.64E-13	3.63E-13
600	4.76E-12	3.24E-12	7.14E-12
610	4.76E-12	3.24E-12	7.14E-12
620	4.76E-12	3.24E-12	7.14E-12
630	4.76E-12	3.24E-12	7.14E-12
640	4.76E-12	3.24E-12	7.14E-12
650	4.76E-12	3.24E-12	7.14E-12
660	4.76E-12	3.24E-12	7.14E-12
670	4.76E-12	3.24E-12	7.14E-12
680	4.76E-12	3.24E-12	7.14E-12
690	4.76E-12	3.24E-12	7.14E-12
700	4.17E-11	2.84E-11	6.26E-11
710	4.17E-11	2.84E-11	6.26E-11
720	4.17E-11	2.84E-11	6.26E-11
730	4.17E-11	2.84E-11	6.26E-11
740	4.17E-11	2.84E-11	6.26E-11
750	4.17E-11	2.84E-11	6.26E-11
760	4.17E-11	2.84E-11	6.26E-11
770	4.17E-11	2.84E-11	6.26E-11
780	4.17E-11	2.84E-11	6.26E-11
790	4.17E-11	2.84E-11	6.26E-11
800	2.11E-10	1.43E-10	3.16E-10
810	2.11E-10	1.43E-10	3.16E-10
820	2.11E-10	1.43E-10	3.16E-10
830	2.11E-10	1.43E-10	3.16E-10
840	2.11E-10	1.43E-10	3.16E-10
850	2.11E-10	1.43E-10	3.16E-10
860	2.11E-10	1.43E-10	3.16E-10
870	2.11E-10	1.43E-10	3.16E-10
880	2.11E-10	1.43E-10	3.16E-10
890	2.11E-10	1.43E-10	3.16E-10
900	7.36E-10	5.00E-10	1.10E-09
910	7.36E-10	5.00E-10	1.10E-09
920	7.36E-10	5.00E-10	1.10E-09
930	7.36E-10	5.00E-10	1.10E-09
940	7.36E-10	5.00E-10	1.10E-09
950	7.36E-10	5.00E-10	1.10E-09
960	7.36E-10	5.00E-10	1.10E-09
970	7.36E-10	5.00E-10	1.10E-09
980	7.36E-10	5.00E-10	1.10E-09
990	7.36E-10	5.00E-10	1.10E-09
1000	2.02E-09	1.37E-09	3.02E-09
1100	4.60E-09	3.13E-09	6.90E-09
1200	9.23E-09	6.28E-09	1.38E-08
1300	1.68E-08	1.14E-08	2.52E-08
1400	2.80E-08	1.90E-08	4.19E-08
1500	4.38E-08	2.98E-08	6.57E-08
1600	6.51E-08	4.43E-08	9.77E-08
1700	9.27E-08	6.30E-08	1.39E-07

**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

Concentrations	Copper Group						Thallium Group									Chromium Group		
	Copper	Barium	Antimony	Manganese	Mercury	Uranium	Zinc	Thallium	Cadmium	Silver	Iron	Nickel	Beryllium	Vanadium	Arsenic	Chromium	Selenium	
	Time (yr)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	
1800	4.30E-04	3.24E-04	1.30E-06	2.95E-04	6.06E-08	7.67E-06	3.92E-05	1.40E-08	1.88E-08	2.21E-08	1.22E-09	1.39E-07	1.90E-15	1.60E-09	9.42E-08	1.78E-09	4.55E-02	2.47E-04
1900	5.44E-04	4.10E-04	1.64E-06	3.73E-04	7.66E-08	1.05E-05	4.96E-05	1.92E-08	2.57E-08	3.03E-08	3.14E-09	1.90E-07	8.97E-15	2.19E-09	1.29E-07	3.51E-09	4.85E-02	2.50E-04
2000	6.74E-04	5.08E-04	2.04E-06	4.61E-04	9.50E-08	1.40E-05	6.14E-05	2.57E-08	3.44E-08	4.06E-08	7.39E-09	2.55E-07	3.60E-14	2.93E-09	1.73E-07	6.50E-09	5.13E-02	2.52E-04
2100	8.20E-04	6.18E-04	2.48E-06	5.62E-04	1.16E-07	1.82E-05	7.47E-05	3.35E-08	4.49E-08	5.29E-08	1.61E-08	3.32E-07	1.27E-13	3.82E-09	2.25E-07	1.14E-08	5.39E-02	2.54E-04
2200	9.85E-04	7.42E-04	2.97E-06	6.74E-04	1.39E-07	2.32E-05	8.97E-05	4.26E-08	5.71E-08	6.73E-08	3.30E-08	4.22E-07	4.00E-13	4.86E-09	2.87E-07	1.89E-08	5.63E-02	2.55E-04
2300	1.17E-03	8.78E-04	3.52E-06	7.98E-04	1.64E-07	2.90E-05	1.06E-04	5.33E-08	7.14E-08	8.42E-08	6.37E-08	5.28E-07	1.15E-12	6.08E-09	3.59E-07	3.02E-08	5.85E-02	2.55E-04
2400	1.36E-03	1.03E-03	4.12E-06	9.34E-04	1.92E-07	3.56E-05	1.24E-04	6.56E-08	8.79E-08	1.04E-07	1.17E-07	6.50E-07	3.07E-12	7.48E-09	4.41E-07	4.63E-08	6.05E-02	2.55E-04
2500	1.58E-03	1.19E-03	4.77E-06	1.08E-03	2.23E-07	4.31E-05	1.44E-04	7.94E-08	1.06E-07	1.25E-07	2.06E-07	7.87E-07	7.95E-12	9.05E-09	5.34E-07	6.88E-08	6.23E-02	2.55E-04
2600	1.81E-03	1.36E-03	5.47E-06	1.24E-03	2.55E-07	5.14E-05	1.65E-04	9.50E-08	1.27E-07	1.50E-07	3.49E-07	9.41E-07	1.77E-11	1.08E-08	6.39E-07	9.92E-08	6.39E-02	2.55E-04
2700	2.07E-03	1.56E-03	6.25E-06	1.42E-03	2.92E-07	6.07E-05	1.89E-04	1.12E-07	1.50E-07	1.77E-07	5.70E-07	1.11E-06	3.89E-11	1.28E-08	7.54E-07	1.39E-07	6.54E-02	2.54E-04
2800	2.33E-03	1.76E-03	7.05E-06	1.60E-03	3.29E-07	7.09E-05	2.13E-04	1.31E-07	1.76E-07	2.07E-07	9.03E-07	1.30E-06	8.14E-11	1.49E-08	8.82E-07	1.91E-07	6.67E-02	2.54E-04
2900	2.60E-03	1.96E-03	7.85E-06	1.78E-03	3.66E-07	8.20E-05	2.37E-04	1.52E-07	2.04E-07	2.40E-07	1.39E-06	1.51E-06	1.63E-10	1.73E-08	1.02E-06	2.56E-07	6.78E-02	2.53E-04
3000	2.90E-03	2.19E-03	8.77E-06	1.99E-03	4.09E-07	9.41E-05	2.65E-04	1.75E-07	2.35E-07	2.77E-07	2.09E-06	1.73E-06	1.13E-10	2.00E-08	1.18E-06	3.37E-07	6.88E-02	2.52E-04
3100	3.23E-03	2.43E-03	9.75E-06	2.21E-03	4.55E-07	1.07E-04	2.94E-04	1.99E-07	2.67E-07	3.14E-07	3.06E-06	1.97E-06	5.80E-10	2.27E-08	1.34E-06	4.36E-07	6.97E-02	2.51E-04
3200	3.55E-03	2.68E-03	1.07E-05	2.43E-03	5.01E-07	1.21E-04	3.24E-04	2.26E-07	3.03E-07	3.57E-07	4.40E-06	2.24E-06	1.04E-09	2.58E-08	1.52E-06	5.55E-07	7.04E-02	2.50E-04
3300	3.90E-03	2.94E-03	1.18E-05	2.67E-03	5.49E-07	1.36E-04	3.55E-04	2.54E-07	3.40E-07	4.01E-07	6.20E-06	2.52E-06	1.80E-09	2.90E-08	1.71E-06	6.96E-07	7.10E-02	2.48E-04
3400	4.24E-03	3.20E-03	1.28E-05	2.91E-03	5.98E-07	1.51E-04	3.87E-04	2.85E-07	3.82E-07	4.50E-07	8.58E-06	2.82E-06	3.05E-09	3.25E-08	1.92E-06	8.61E-07	7.15E-02	2.47E-04
3500	4.61E-03	3.47E-03	1.39E-05	3.16E-03	6.49E-07	1.68E-04	4.20E-04	3.17E-07	4.25E-07	5.01E-07	1.17E-05	3.14E-06	5.01E-09	3.61E-08	2.13E-06	1.05E-06	7.18E-02	2.46E-04
3600	4.97E-03	3.75E-03	1.50E-05	3.41E-03	7.01E-07	1.85E-04	4.53E-04	3.51E-07	4.70E-07	5.55E-07	1.57E-05	3.48E-06	8.05E-09	4.00E-08	2.36E-06	1.27E-06	7.21E-02	2.44E-04
3700	5.38E-03	4.05E-03	1.62E-05	3.68E-03	7.58E-07	2.03E-04	4.90E-04	3.88E-07	5.20E-07	6.13E-07	2.07E-05	3.85E-06	1.26E-08	4.12E-08	2.61E-06	1.52E-06	7.23E-02	2.43E-04
3800	5.77E-03	4.35E-03	1.74E-05	3.95E-03	8.12E-07	2.23E-04	5.25E-04	4.26E-07	5.71E-07	6.73E-07	2.71E-05	4.22E-06	1.94E-08	4.86E-08	2.87E-06	1.79E-06	7.24E-02	2.41E-04
3900	6.17E-03	4.65E-03	1.86E-05	4.23E-03	8.69E-07	2.41E-04	5.62E-04	4.66E-07	6.24E-07	7.36E-07	3.49E-05	4.62E-06	2.93E-08	5.31E-08	3.14E-06	2.10E-06	7.24E-02	2.40E-04
4000	6.60E-03	4.97E-03	1.99E-05	4.52E-03	9.30E-07	2.62E-04	6.01E-04	5.08E-07	6.81E-07	8.03E-07	4.46E-05	5.03E-06	4.35E-08	5.79E-08	3.42E-06	2.44E-06	7.23E-02	2.38E-04
4100	7.02E-03	5.29E-03	2.12E-05	4.81E-03	9.90E-07	2.83E-04	6.40E-04	5.53E-07	7.41E-07	8.74E-07	5.63E-05	5.48E-06	6.35E-08	6.30E-08	3.72E-06	2.82E-06	7.22E-02	2.36E-04
4200	7.45E-03	5.62E-03	2.25E-05	5.10E-03	1.05E-06	3.04E-04	6.79E-04	5.99E-07	8.03E-07	9.46E-07	7.04E-05	5.94E-06	9.11E-08	6.83E-08	4.03E-06	3.22E-06	7.20E-02	2.34E-04
4300	7.90E-03	5.95E-03	2.38E-05	5.41E-03	1.11E-06	3.26E-04	7.20E-04	6.47E-07	8.67E-07	1.03E-06	8.72E-05	6.41E-06	1.29E-07	7.38E-08	4.35E-06	3.66E-06	7.18E-02	2.33E-04
4400	8.34E-03	6.29E-03	2.52E-05	5.71E-03	1.18E-06	3.49E-04	7.60E-04	6.97E-07	9.34E-07	1.10E-06	1.07E-04	6.91E-06	1.80E-07	7.95E-08	4.69E-06	4.13E-06	7.15E-02	2.31E-04
4500	8.81E-03	6.64E-03	2.66E-05	6.03E-03	1.24E-06	3.73E-04	8.03E-04	7.49E-07	1.00E-06	1.18E-06	1.31E-04	7.42E-06	2.48E-07	8.54E-08	5.04E-06	4.64E-06	7.11E-02	2.30E-04
4600	9.26E-03	6.98E-03	2.80E-05	6.34E-03	1.30E-06	3.97E-04	8.44E-04	8.03E-07	1.08E-06	1.27E-06	1.59E-04	7.96E-06	3.38E-07	9.15E-08	5.40E-06	5.17E-06	7.07E-02	2.28E-04
4700	9.72E-03	7.33E-03	2.94E-05	6.66E-03	1.37E-06	4.21E-04	8.86E-04	8.59E-07	1.15E-06	1.36E-06	1.90E-04	8.51E-06	4.55E-07	9.79E-08	5.78E-06	5.74E-06	7.02E-02	2.26E-04
4800	1.02E-02	7.68E-03	3.08E-05	6.98E-03	1.44E-06	4.46E-04	9.79E-04	9.17E-07	1.21E-06	1.45E-06	2.26E-04	9.09E-06	6.06E-07	1.05E-07	6.17E-06	6.14E-06	6.97E-02	2.24E-04
4900	1.07E-02	8.03E-03	3.22E-05	7.30E-03	1.50E-06	4.71E-04	9.71E-04	9.77E-07	1.31E-06	1.54E-06	2.68E-04	9.68E-06	8.00E-07	1.11E-07	6.58E-06	6.96E-06	6.92E-02	2.22E-04
5000	1.11E-02	8.40E-03	3.37E-05	7.63E-03	1.57E-06	4.97E-04	1.02E-03	1.04E-06	1.39E-06	1.64E-06	3.16E-04	1.03E-05	1.04E-06	1.19E-07	7.00E-06	7.62E-06	6.86E-02	2.21E-04
5100	1.16E-02	8.77E-03	3.51E-05	7.96E-03	1.64E-06	5.23E-04	1.06E-03	1.10E-06	1.47E-06	1.74E-06	3.70E-04	1.09E-05	1.35E-06	1.25E-07	7.40E-06	8.39E-06	6.80E-02	2.19E-04
5200	1.21E-02	9.12E-03	3.65E-05	8.28E-03	1.70E-06	5.49E-04	1.10E-03	1.17E-06	1.57E-06	1.85E-06	4.31E-04	1.16E-05	1.74E-06	1.33E-07	7.87E-06	9.00E-06	6.74E-02	2.16E-04
5300	1.26E-02	9.49E-03	3.80E-05	8.62E-03	1.77E-06	5.76E-04	1.15E-03	1.23E-06	1.65E-06	1.94E-06	4.99E-04	1.22E-05	1.40E-07	8.28E-06	9.73E-06	6.67E-02	2.14E-04	
5400	1.31E-02	9.85E-03	3.95E-05	9.29E-03	1.84E-06	6.03E-04	1.19E-03	1.30E-06	1.74E-06	2.05E-06	5.76E-04	1.29E-05	1.79E-06	1.48E-07	8.75E-06	1.05E-05	6.61E-02	2.12E-04
5500	1.36E-02	1.02E-02	4.09E-05	9.29E-03	1.91E-06	6.30E-04	1.24E-03	1.37E-06	1.87E-06	2.16E-06	6.61E-04	1.36E-05	1.86E-06	1.92E-07	9.22E-06	1.13E-05	6.54E-02	2.11E-04
5600	1.40E-02	1.06E-02	4.24E-05	9.62E-03	1.98E-06	6.57E-04	1.28E-03	1.44E-06	1.93E-06	2.28E-06	7.55E-04	1.43E-05	2.37E-06	1.64E-07	9.69E-06	1.20E-05	6.47E-02	2.09E-04
5700	1.45E-02	1.10E-02	4.39E-05	9.95E-03	2.05E-06	6.85E-04	1.32E-03	1.51E-06	2.02E-06	2.39E-06	8.59E-04	1.50E-05	3.40E-06	2.17E-07	1.02E-05	1.29E-05	6.40E-02	2.07E-04
5800	1.50E-02	1.13E-02	4.54E-05	1.03E-02	2.12E-06	7.13E-04	1.37E-03	1.59E-06	2.13E-06	2.51E-06	9.73E-04	1.58E-05	6.65E-06	1.81E-07	1.07E-05	1.37E-05	6.33E-02	2.05E-04
5900	1.55E-02	1.17E-02	4.69E-05	1.06E-02	2.19E-06	7.40E-04	1.42E-03	1.66E-06	2.22E-06	2.62E-06	1.10E-03	1.65E-05	8.12E-06	1.89E-07	1.12E-05	1.45E-05	6.2	

Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.

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Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

Concentrations						Benzo(a)pyrene Group		PCB Group		Tc-99 Group		U-238 Group				
	Phenanthrene	Anthracene	Fluoranthene	Hexachlorobutadiene	Pyrene	Benz(a)pyrene	Dioxin/Furan	PCB	Tc-99	Np-237	U-238	U-234	U-235	Ra-226	Pu-238	Pu-239
Time (yr)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)
1800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-17	9.49E-01	8.26E-02	9.77E-05	9.70E-05	4.81E-06	1.09E-06	4.27E-08	1.02E-07
1900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-17	8.13E-01	9.39E-02	1.30E-04	1.29E-04	6.40E-06	1.46E-06	5.68E-08	1.35E-07
2000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-17	6.95E-01	1.04E-01	1.68E-04	1.67E-04	8.27E-06	1.88E-06	7.34E-08	1.75E-07
2100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-17	5.93E-01	1.14E-01	2.13E-04	2.12E-04	1.05E-05	2.39E-06	9.31E-08	2.22E-07
2200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-17	5.07E-01	1.22E-01	2.64E-04	2.62E-04	1.30E-05	2.96E-06	1.15E-07	2.75E-07
2300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-17	4.32E-01	1.30E-01	3.23E-04	3.21E-04	1.59E-05	3.62E-06	1.41E-07	3.36E-07
2400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-17	3.68E-01	1.36E-01	3.88E-04	3.85E-04	1.91E-05	4.35E-06	1.70E-07	4.04E-07
2500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-17	3.13E-01	1.42E-01	4.61E-04	4.58E-04	2.27E-05	5.16E-06	2.01E-07	4.79E-07
2600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-17	2.65E-01	1.47E-01	5.42E-04	5.38E-04	2.67E-05	6.07E-06	2.37E-07	5.64E-07
2700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-17	2.25E-01	1.51E-01	6.29E-04	6.25E-04	3.09E-05	7.04E-06	2.75E-07	6.54E-07
2800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-17	1.92E-01	1.54E-01	7.25E-04	7.20E-04	3.57E-05	8.12E-06	3.17E-07	7.54E-07
2900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-18	1.63E-01	1.57E-01	8.28E-04	8.22E-04	4.07E-05	9.27E-06	3.62E-07	8.61E-07
3000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-18	1.38E-01	1.60E-01	9.39E-04	9.32E-04	4.62E-05	1.05E-05	4.10E-07	9.77E-07
3100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-18	1.17E-01	1.62E-01	1.06E-03	1.05E-03	5.22E-05	1.19E-05	4.63E-07	1.10E-06
3200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-18	9.90E-02	1.63E-01	1.19E-03	1.18E-03	5.85E-05	1.31E-05	5.20E-07	1.24E-06
3300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-18	8.39E-02	1.65E-01	1.32E-03	1.31E-03	6.49E-05	1.48E-05	5.77E-07	1.37E-06
3400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-18	7.11E-02	1.66E-01	1.46E-03	1.45E-03	7.18E-05	1.64E-05	6.38E-07	1.52E-06
3500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-18	6.02E-02	1.66E-01	1.61E-03	1.60E-03	7.92E-05	1.80E-05	7.04E-07	1.67E-06
3600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-18	5.10E-02	1.67E-01	1.77E-03	1.76E-03	8.71E-05	1.98E-05	7.73E-07	1.84E-06
3700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-19	4.32E-02	1.68E-01	1.94E-03	1.93E-03	9.54E-05	2.17E-05	8.48E-07	2.02E-06
3800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-19	3.66E-02	1.68E-01	2.11E-03	2.10E-03	1.04E-04	2.36E-05	9.22E-07	2.19E-06
3900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-19	3.10E-02	1.68E-01	2.30E-03	2.28E-03	1.13E-04	2.58E-05	1.01E-06	2.39E-06
4000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-19	2.62E-02	1.68E-01	2.49E-03	2.47E-03	1.23E-04	2.79E-05	1.09E-06	2.59E-06
4100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-19	2.21E-02	1.68E-01	2.69E-03	2.67E-03	1.32E-04	3.01E-05	1.18E-06	2.80E-06
4200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-19	1.88E-02	1.68E-01	2.89E-03	2.87E-03	1.42E-04	3.24E-05	1.26E-06	3.01E-06
4300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-20	1.58E-02	1.68E-01	3.10E-03	3.08E-03	1.53E-04	3.47E-05	1.35E-06	3.22E-06
4400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-20	1.34E-02	1.67E-01	3.32E-03	3.30E-03	1.63E-04	3.72E-05	1.45E-06	3.45E-06
4500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-20	1.14E-02	1.67E-01	3.55E-03	3.53E-03	1.75E-04	3.98E-05	1.55E-06	3.69E-06
4600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-20	9.60E-03	1.67E-01	3.79E-03	3.76E-03	1.86E-04	4.24E-05	1.66E-06	3.94E-06
4700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-20	8.13E-03	1.66E-01	4.03E-03	4.00E-03	1.98E-04	4.51E-05	1.76E-06	4.19E-06
4800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-20	6.88E-03	1.66E-01	4.28E-03	4.25E-03	2.11E-04	4.79E-05	1.87E-06	4.43E-06
4900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-21	5.81E-03	1.65E-01	4.54E-03	4.51E-03	2.23E-04	5.08E-05	1.98E-06	4.72E-06
5000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-21	4.92E-03	1.65E-01	4.80E-03	4.77E-03	2.36E-04	5.38E-05	2.10E-06	4.99E-06
5100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-21	4.15E-03	1.64E-01	5.07E-03	5.03E-03	2.49E-04	5.68E-05	2.22E-06	5.27E-06
5200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-21	3.51E-03	1.64E-01	5.35E-03	5.31E-03	2.63E-04	5.99E-05	2.34E-06	5.56E-06
5300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-21	2.98E-03	1.63E-01	5.63E-03	5.59E-03	2.77E-04	6.31E-05	2.46E-06	5.86E-06
5400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-22	2.52E-03	1.63E-01	5.92E-03	5.88E-03	2.91E-04	6.63E-05	2.59E-06	6.16E-06
5500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-22	2.12E-03	1.62E-01	6.21E-03	6.17E-03	3.06E-04	6.96E-05	2.71E-06	6.46E-06
5600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-22	1.80E-03	1.62E-01	6.52E-03	6.47E-03	3.21E-04	7.30E-05	2.85E-06	6.78E-06
5700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-22	1.52E-03	1.61E-01	6.83E-03	6.78E-03	3.36E-04	7.65E-05	2.98E-06	7.10E-06
5800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-22	1.29E-03	1.61E-01	7.14E-03	7.09E-03	3.51E-04	8.00E-05	3.12E-06	7.43E-06
5900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-23	1.09E-03	1.60E-01	7.46E-03	7.41E-03	3.67E-04	8.36E-05	3.26E-06	7.76E-06
6000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-23	9.20E-04	1.60E-01	7.78E-03	7.73E-03	3.83E-04	8.71E-05	3.40E-06	8.09E-06
6100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-23	7.78E-04	1.59E-01	8.12E-03	8.06E-03	4.00E-04	9.09E-05	3.55E-06	8.44E-06
6200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-23	6.58E-04	1.59E-01	8.45E-03	8.39E-03	4.16E-04	9.46E-05	3.69E-06	8.79E-06
6300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-23	5.57E-04	1.58E-01	8.80E-03	8.74E-03	4.33E-04	9.86E-05	3.85E-06	9.15E-06
6400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-24	4.70E-04	1.57E-01	9.15E-03	9.09E-03	4.50E-04	1.02E-04	4.00E-06	9.52E-06
6500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-24	3.98E-04	1.57E-01	9.50E-03	9.43E-03	4.67E-04	1.06E-04	4.15E-06	9.88E-06
6600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-24	3.36E-04	1.56E-01	9.86E-03	9.79E-03	4.85E-04	1.10E-04	4.31E-06	1.03E-05
6700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-24	2.84E-04	1.56E-01	1.02E-02	1.01E-02	5.02E-04	1.14E-04	4.46E-06	1.06E-05
6800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-24	2.41E-04	1.55E-01	1.06E-02	1.05E-02	5.22E-04	1.19E-04	4.63E-06	1.10E-05
6900	0.00E+00															

**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

Concentrations	Pu-240 (pCi/L)	Th-230 (pCi/L)	Th-232 (pCi/L)
Time (yr)			
1800	1.27E-07	8.64E-08	1.91E-07
1900	1.69E-07	1.15E-07	2.54E-07
2000	2.18E-07	1.49E-07	3.28E-07
2100	2.77E-07	1.88E-07	4.15E-07
2200	3.43E-07	2.33E-07	5.15E-07
2300	4.20E-07	2.86E-07	6.30E-07
2400	5.04E-07	3.43E-07	7.57E-07
2500	5.99E-07	4.08E-07	8.99E-07
2600	7.05E-07	4.79E-07	1.06E-06
2700	8.18E-07	5.56E-07	1.23E-06
2800	9.43E-07	6.41E-07	1.41E-06
2900	1.08E-06	7.32E-07	1.61E-06
3000	1.22E-06	8.30E-07	1.83E-06
3100	1.38E-06	9.37E-07	2.07E-06
3200	1.55E-06	1.05E-06	2.32E-06
3300	1.72E-06	1.17E-06	2.57E-06
3400	1.90E-06	1.29E-06	2.85E-06
3500	2.09E-06	1.42E-06	3.14E-06
3600	2.30E-06	1.56E-06	3.45E-06
3700	2.32E-06	1.71E-06	3.78E-06
3800	2.74E-06	1.87E-06	4.11E-06
3900	2.99E-06	2.03E-06	4.49E-06
4000	3.24E-06	2.20E-06	4.86E-06
4100	3.50E-06	2.38E-06	5.25E-06
4200	3.76E-06	2.55E-06	5.64E-06
4300	4.03E-06	2.74E-06	6.05E-06
4400	4.32E-06	2.93E-06	6.47E-06
4500	4.62E-06	3.14E-06	6.92E-06
4600	4.93E-06	3.35E-06	7.39E-06
4700	5.24E-06	3.56E-06	7.86E-06
4800	5.56E-06	3.78E-06	8.35E-06
4900	5.90E-06	4.01E-06	8.85E-06
5000	6.24E-06	4.24E-06	9.36E-06
5100	6.59E-06	4.48E-06	9.89E-06
5200	6.96E-06	4.73E-06	1.04E-05
5300	7.32E-06	4.98E-06	1.10E-05
5400	7.70E-06	5.23E-06	1.15E-05
5500	8.07E-06	5.49E-06	1.21E-05
5600	8.48E-06	5.76E-06	1.27E-05
5700	8.88E-06	6.04E-06	1.33E-05
5800	9.28E-06	6.31E-06	1.39E-05
5900	9.70E-06	6.59E-06	1.45E-05
6000	1.01E-05	6.88E-06	1.52E-05
6100	1.06E-05	7.18E-06	1.58E-05
6200	1.10E-05	7.47E-06	1.65E-05
6300	1.14E-05	7.78E-06	1.72E-05
6400	1.19E-05	8.09E-06	1.78E-05
6500	1.24E-05	8.40E-06	1.85E-05
6600	1.28E-05	8.72E-06	1.92E-05
6700	1.33E-05	9.02E-06	1.99E-05
6800	1.38E-05	9.37E-06	2.07E-05
6900	1.43E-05	9.72E-06	2.15E-05
7000	1.47E-05	9.99E-06	2.20E-05
7100	1.52E-05	1.03E-05	2.28E-05

**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

Concentrations	Copper Group						Thallium Group								Chromium Gro			
	Copper	Barium	Antimony	Manganese	Mercury	Uranium	Zinc	Thallium	Cadmium	Silver	Iron	Lead	Nickel	Beryllium	Vanadium	Arsenic	Chromium	Selenium
Time (yr)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
7200	2.19E-02	1.65E-02	6.62E-05	1.50E-02	3.09E-06	1.11E-03	2.00E-03	2.75E-06	3.69E-06	4.35E-06	4.00E-03	2.73E-05	7.09E-05	3.14E-07	1.85E-05	2.62E-05	5.27E-02	1.77E-04
7300	2.23E-02	1.68E-02	6.74E-05	1.53E-02	3.13E-06	1.13E-03	2.04E-03	2.84E-06	3.81E-06	4.49E-06	4.34E-03	2.81E-05	8.14E-05	3.24E-07	1.91E-05	2.72E-05	5.20E-02	1.75E-04
7400	2.27E-02	1.71E-02	6.87E-05	1.56E-02	3.20E-06	1.16E-03	2.07E-03	2.93E-06	3.93E-06	4.63E-06	4.70E-03	2.90E-05	9.33E-05	3.34E-07	1.97E-05	2.81E-05	5.13E-02	1.73E-04
7500	2.31E-02	1.76E-02	7.05E-05	1.60E-02	3.29E-06	1.19E-03	2.13E-03	3.03E-06	4.06E-06	4.79E-06	5.08E-03	3.00E-05	1.06E-04	3.45E-07	2.04E-05	2.90E-05	5.05E-02	1.72E-04
7600	2.38E-02	1.79E-02	7.17E-05	1.63E-02	3.35E-06	1.22E-03	2.16E-03	3.12E-06	4.18E-06	4.93E-06	5.48E-03	3.09E-05	1.21E-04	3.56E-07	2.10E-05	3.00E-05	4.98E-02	1.70E-04
7700	2.42E-02	1.82E-02	7.29E-05	1.65E-02	3.40E-06	1.24E-03	2.20E-03	3.21E-06	4.30E-06	5.07E-06	5.90E-03	3.18E-05	1.38E-04	3.66E-07	2.16E-05	3.09E-05	4.91E-02	1.68E-04
7800	2.48E-02	1.87E-02	7.48E-05	1.70E-02	3.49E-06	1.27E-03	2.26E-03	3.31E-06	4.44E-06	5.23E-06	6.34E-03	3.28E-05	1.56E-04	3.77E-07	2.23E-05	3.18E-05	4.84E-02	1.66E-04
7900	2.52E-02	1.90E-02	7.60E-05	1.72E-02	3.55E-06	1.30E-03	2.29E-03	3.40E-06	4.56E-06	5.37E-06	6.81E-03	3.37E-05	1.76E-04	3.88E-07	2.29E-05	3.27E-05	4.77E-02	1.64E-04
8000	2.56E-02	1.93E-02	7.72E-05	1.75E-02	3.60E-06	1.33E-03	2.33E-03	3.49E-06	4.68E-06	5.51E-06	7.29E-03	3.46E-05	1.98E-04	3.98E-07	2.35E-05	3.37E-05	4.70E-02	1.62E-04
8100	2.60E-02	1.96E-02	7.85E-05	1.78E-02	3.66E-06	1.36E-03	2.37E-03	3.59E-06	4.81E-06	5.67E-06	7.80E-03	3.56E-05	2.22E-04	4.09E-07	2.42E-05	3.46E-05	4.63E-02	1.60E-04
8200	2.66E-02	2.00E-02	8.03E-05	1.82E-02	3.75E-06	1.38E-03	2.42E-03	3.68E-06	4.93E-06	5.81E-06	8.33E-03	3.65E-05	2.49E-04	4.20E-07	2.48E-05	3.55E-05	4.56E-02	1.59E-04
8300	2.70E-02	2.03E-02	8.15E-05	1.85E-02	3.80E-06	1.41E-03	2.46E-03	3.78E-06	5.07E-06	5.97E-06	8.88E-03	3.75E-05	2.78E-04	4.31E-07	2.54E-05	3.64E-05	4.49E-02	1.57E-04
8400	2.74E-02	2.07E-02	8.29E-05	1.88E-02	3.86E-06	1.44E-03	2.50E-03	3.87E-06	5.19E-06	6.11E-06	9.46E-03	3.84E-05	3.10E-04	4.41E-07	2.60E-05	3.73E-05	4.42E-02	1.55E-04
8500	2.78E-02	2.10E-02	8.40E-05	1.90E-02	3.92E-06	1.46E-03	2.53E-03	3.97E-06	5.32E-06	6.27E-06	1.01E-02	3.93E-05	3.44E-04	4.53E-07	2.67E-05	3.82E-05	4.35E-02	1.53E-04
8600	2.82E-02	2.13E-02	8.52E-05	1.93E-02	3.98E-06	1.49E-03	2.57E-03	4.07E-06	5.45E-06	6.43E-06	1.07E-02	4.03E-05	3.82E-04	4.64E-07	2.74E-05	3.91E-05	4.29E-02	1.51E-04
8700	2.86E-02	2.16E-02	8.64E-05	1.96E-02	4.03E-06	1.51E-03	2.61E-03	4.16E-06	5.57E-06	6.57E-06	1.13E-02	4.12E-05	4.23E-04	4.74E-07	2.80E-05	4.00E-05	4.22E-02	1.49E-04
8800	2.90E-02	2.19E-02	8.77E-05	1.99E-02	4.09E-06	1.54E-03	2.65E-03	4.26E-06	5.71E-06	6.73E-06	1.20E-02	4.22E-05	4.68E-04	4.86E-07	2.87E-05	4.09E-05	4.16E-02	1.48E-04
8900	2.96E-02	2.23E-02	8.95E-05	2.03E-02	4.18E-06	1.57E-03	2.70E-03	4.35E-06	5.83E-06	6.87E-06	1.27E-02	4.31E-05	5.16E-04	4.96E-07	2.93E-05	4.18E-05	4.10E-02	1.46E-04
9000	3.00E-02	2.26E-02	9.07E-05	2.06E-02	4.23E-06	1.59E-03	2.74E-03	4.45E-06	5.96E-06	7.03E-06	1.34E-02	4.41E-05	5.68E-04	5.07E-07	2.99E-05	4.27E-05	4.04E-02	1.45E-04
9100	3.05E-02	2.30E-02	9.20E-05	2.09E-02	4.29E-06	1.62E-03	2.78E-03	4.54E-06	6.08E-06	7.17E-06	1.42E-02	4.50E-05	6.24E-04	5.18E-07	3.06E-05	4.36E-05	3.97E-02	1.43E-04
9200	3.09E-02	2.33E-02	9.32E-05	2.11E-02	4.35E-06	1.64E-03	2.81E-03	4.64E-06	6.22E-06	7.33E-06	1.49E-02	4.60E-05	6.84E-04	5.29E-07	3.12E-05	4.45E-05	3.91E-02	1.41E-04
9300	1.13E-02	2.36E-02	9.44E-05	2.14E-02	4.40E-06	1.67E-03	2.85E-03	4.74E-06	6.35E-06	7.49E-06	1.57E-02	4.70E-05	7.49E-04	5.40E-07	3.19E-05	4.53E-05	3.85E-02	1.39E-04
9400	3.17E-02	2.39E-02	9.56E-05	2.17E-02	4.46E-06	1.69E-03	2.89E-03	4.83E-06	6.47E-06	7.63E-06	1.66E-02	4.79E-05	8.19E-04	5.51E-07	3.25E-05	4.62E-05	3.79E-02	1.37E-04
9500	3.21E-02	2.42E-02	9.69E-05	2.20E-02	4.52E-06	1.72E-03	2.92E-03	4.93E-06	6.61E-06	7.79E-06	1.74E-02	4.89E-05	8.94E-04	5.62E-07	3.32E-05	4.71E-05	3.74E-02	1.36E-04
9600	3.25E-02	2.45E-02	9.81E-05	2.22E-02	4.58E-06	1.74E-03	2.96E-03	5.02E-06	6.73E-06	7.93E-06	1.83E-02	4.97E-05	9.73E-04	5.72E-07	3.38E-05	4.79E-05	3.68E-02	1.34E-04
9700	3.29E-02	2.48E-02	9.93E-05	2.25E-02	4.63E-06	1.76E-03	3.00E-03	5.12E-06	6.83E-06	8.09E-06	1.92E-02	5.07E-05	1.06E-03	5.84E-07	3.45E-05	4.88E-05	3.63E-02	1.33E-04
9800	3.33E-02	2.51E-02	1.01E-04	2.28E-02	4.69E-06	1.79E-03	3.03E-03	5.21E-06	6.98E-06	8.23E-06	2.01E-02	5.16E-05	1.15E-03	5.94E-07	3.51E-05	4.97E-05	3.57E-02	1.31E-04
9900	3.37E-02	2.54E-02	1.02E-04	2.31E-02	4.75E-06	1.81E-03	3.07E-03	5.31E-06	7.12E-06	8.39E-06	2.11E-02	5.26E-05	1.25E-03	6.05E-07	3.57E-05	5.05E-05	3.52E-02	1.29E-04
10000	3.41E-02	2.57E-02	1.03E-04	2.34E-02	4.80E-06	1.83E-03	3.11E-03	5.40E-06	7.24E-06	8.53E-06	2.20E-02	5.35E-05	1.35E-03	6.16E-07	3.63E-05	5.14E-05	3.46E-02	1.28E-04
Maximum Concentration	3.41E-02	2.57E-02	1.03E-04	2.34E-02	4.80E-06	1.83E-03	3.11E-03	5.40E-06	7.24E-06	8.53E-06	2.20E-02	5.35E-05	1.35E-03	6.16E-07	3.63E-05	5.14E-05	7.24E-02	2.55E-04
Hazard No Action Level	5.57E-02	1.04E-01	5.64E-04	3.50E-02	4.44E-04	9.06E-04	4.50E-01	1.20E-04	6.61E-04	7.50E-03	4.49E-01	0.00E+00	3.01E-02	2.64E-03	9.25E-03	4.52E-04	1.76E+00	7.54E-03
Risk No Action Level	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Dose 1 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.

Concentrations	ip	2-Butanone Group		Benzene Group						Vinyl Chloride Group						Trichloroethene
	Molybdenum	2-Butanone	Benzene	Ethylbenzene	Xylene	m-Xylene	p-Xylene	o-Xylene	Vinyl chloride	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	Chloroform	1,1-DCE	1,2-DCE	
Time (yr)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
7200	4.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
7300	4.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
7400	4.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
7500	4.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
7600	4.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
7700	4.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
7800	4.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
7900	4.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8000	3.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8100	3.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8200	3.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8300	3.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8400	3.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8500	3.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8600	3.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8700	3.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8800	3.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8900	3.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9000	3.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9100	3.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9200	3.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9300	3.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9400	3.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9500	3.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9600	3.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9700	3.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9800	3.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9900	2.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
10000	2.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Maximum Concentration	6.14E-03	6.20E-10	3.27E-13	1.05E-13	8.53E-14	1.18E-13	7.46E-14	9.61E-14	1.47E-08	2.45E-08	8.66E-09	3.51E-10	2.10E-09	8.42E-10	4.45E-12	7.69E-10
Hazard No Action Level	7.53E-03	8.68E-02	5.04E-04	5.63E-02	6.53E-02	4.39E-01	0.00E+00	4.39E-01	3.06E-03	2.73E-03	5.48E-03	4.65E-04	2.87E-05	2.46E-03	2.47E-03	1.60E-03
Risk No Action Level	0.00E+00	0.00E+00	3.85E-04	4.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	1.47E-04	2.17E-04	4.70E-05	0.00E+00	1.73E-03
Dose I mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

Concentrations	chloroethene Group		Chlorobenzene Group			2-Methylphenol Group						
	Carbon tetrachloride	Tetrachloroethene	Chlorobenzene	1,4-Dichlorobenzene	Hexachlorobenzene	2-Methylphenol	Pyridine	4-Methylphenol	3-Methylphenol	2,4-DNT	Nitrobenzene	2,4,6-Trichlorophenol
Time (yr)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
7200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Maximum Concentration	2.65E-11	2.34E-11	7.16E-12	3.26E-13	9.52E-16	9.05E-11	2.66E-11	5.00E-11	3.04E-11	8.31E-13	9.50E-13	8.11E-14
Hazard No Action Level	1.90E-04	8.42E-03	4.66E-03	8.10E-03	7.54E-04	7.23E-02	1.49E-03	7.27E-03	7.25E-02	3.00E-03	1.53E-04	0.00E+00
Risk No Action Level	1.81E-04	5.82E-04	0.00E+00	5.78E-04	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-05	0.00E+00	3.99E-03
Dose 1 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

Concentrations	gamma-Chlordane Group						Pentachlorophenol Group						
	2,4,5-Trichlorophenol	Acrylonitrile	gamma-Chlordane	alpha-Chlordane	Methoxychlor	Heptachlor epoxide	Toxaphene	Pentachlorophenol	Naphthalene	Hexachloroethane	Acenaphthene	Acenaphthylene	Fluorene
Time (yr)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
7200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Maximum Concentration	1.08E-12	4.00E-11	3.41E-29	3.41E-29	6.17E-28	2.09E-30	5.15E-29	2.07E-10	2.53E-11	1.07E-11	6.11E-12	4.18E-12	3.83E-12
Hazard No Action Level	1.39E-01	1.70E-04	6.58E-04	6.58E-04	7.15E-03	1.77E-05	0.00E+00	2.34E-02	2.85E-04	1.35E-03	1.36E-02	0.00E+00	9.72E-03
Risk No Action Level	0.00E+00	4.26E-05	1.28E-04	1.28E-04	0.00E+00	5.12E-06	4.56E-05	2.08E-04	0.00E+00	3.29E-03	0.00E+00	0.00E+00	0.00E+00
Dose 1 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

Concentrations						Benzo(a)pyrene Group		PCB Group		Tc-99 Group		U-238 Group					
	Time (yr)	Phenanthrene	Anthracene	Fluoranthene	Hexachlorobutadiene	Pyrene	Benzo(a)pyrene	Dioxin/Furan	PCB	Tc-99	Np-237	U-238	U-234	U-235	Ra-226	Pu-238	Pu-239
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)
7200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-25	1.23E-04	1.53E-01	1.21E-02	1.20E-02	5.95E-04	1.36E-04	5.29E-06	1.26E-05	
7300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-25	1.05E-04	1.53E-01	1.25E-02	1.24E-02	6.15E-04	1.40E-04	5.46E-06	1.30E-05	
7400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-26	8.81E-05	1.52E-01	1.29E-02	1.28E-02	6.35E-04	1.44E-04	5.64E-06	1.34E-05	
7500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-26	7.44E-05	1.52E-01	1.32E-02	1.31E-02	6.49E-04	1.48E-04	5.77E-06	1.37E-05	
7600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-26	6.30E-05	1.51E-01	1.36E-02	1.35E-02	6.69E-04	1.52E-04	5.94E-06	1.41E-05	
7700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-26	5.32E-05	1.51E-01	1.40E-02	1.39E-02	6.89E-04	1.57E-04	6.12E-06	1.46E-05	
7800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-27	4.50E-05	1.50E-01	1.45E-02	1.44E-02	7.13E-04	1.62E-04	6.34E-06	1.51E-05	
7900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-27	3.81E-05	1.50E-01	1.49E-02	1.48E-02	7.33E-04	1.67E-04	6.51E-06	1.55E-05	
8000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-27	3.22E-05	1.49E-01	1.53E-02	1.52E-02	7.53E-04	1.71E-04	6.69E-06	1.59E-05	
8100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-27	2.72E-05	1.49E-01	1.57E-02	1.56E-02	7.72E-04	1.76E-04	6.86E-06	1.63E-05	
8200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-27	2.31E-05	1.49E-01	1.61E-02	1.60E-02	7.92E-04	1.80E-04	7.04E-06	1.67E-05	
8300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-28	1.95E-05	1.48E-01	1.65E-02	1.64E-02	8.12E-04	1.85E-04	7.21E-06	1.72E-05	
8400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-28	1.65E-05	1.48E-01	1.70E-02	1.69E-02	8.36E-04	1.90E-04	7.43E-06	1.77E-05	
8500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-28	1.39E-05	1.47E-01	1.74E-02	1.73E-02	8.56E-04	1.95E-04	7.60E-06	1.81E-05	
8600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-28	1.18E-05	1.47E-01	1.78E-02	1.77E-02	8.76E-04	1.99E-04	7.78E-06	1.85E-05	
8700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-28	9.95E-06	1.46E-01	1.83E-02	1.82E-02	9.00E-04	2.05E-04	8.00E-06	1.90E-05	
8800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-29	8.42E-06	1.46E-01	1.87E-02	1.86E-02	9.20E-04	2.09E-04	8.17E-06	1.94E-05	
8900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-29	7.12E-06	1.45E-01	1.91E-02	1.90E-02	9.40E-04	2.14E-04	8.35E-06	1.99E-05	
9000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-29	6.02E-06	1.45E-01	1.96E-02	1.95E-02	9.64E-04	2.20E-04	8.57E-06	2.04E-05	
9100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-29	5.09E-06	1.44E-01	2.00E-02	1.99E-02	9.84E-04	2.24E-04	8.74E-06	2.08E-05	
9200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-30	4.31E-06	1.44E-01	2.05E-02	2.04E-02	1.01E-03	2.30E-04	8.96E-06	2.13E-05	
9300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-30	3.64E-06	1.43E-01	2.09E-02	2.08E-02	1.03E-03	2.34E-04	9.13E-06	2.17E-05	
9400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-30	3.08E-06	1.43E-01	2.14E-02	2.13E-02	1.05E-03	2.40E-04	9.35E-06	2.23E-05	
9500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-30	2.60E-06	1.42E-01	2.18E-02	2.16E-02	1.07E-03	2.44E-04	9.53E-06	2.27E-05	
9600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-30	2.20E-06	1.42E-01	2.23E-02	2.21E-02	1.10E-03	2.50E-04	9.75E-06	2.32E-05	
9700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-31	1.86E-06	1.42E-01	2.27E-02	2.25E-02	1.12E-03	2.54E-04	9.92E-06	2.36E-05	
9800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-31	1.57E-06	1.41E-01	2.32E-02	2.30E-02	1.14E-03	2.60E-04	1.01E-05	2.41E-05	
9900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-31	1.33E-06	1.41E-01	2.36E-02	2.34E-02	1.16E-03	2.64E-04	1.03E-05	2.45E-05	
10000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-31	1.13E-06	1.40E-01	2.41E-02	2.39E-02	1.19E-03	2.70E-04	1.05E-05	2.51E-05	
Maximum Concentration	4.70E-12	1.97E-12	1.66E-12	2.34E-13	1.13E-12	0.00E+00	0.00E+00	2.27E-17	4.89E+00	1.68E-01	2.41E-02	2.39E-02	1.19E-03	2.70E-04	1.05E-05	2.51E-05	
Hazard No Action Level	0.00E+00	7.66E-02	2.26E-02	2.25E-04	1.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Risk No Action Level	0.00E+00	0.00E+00	0.00E+00	4.80E-04	0.00E+00	9.51E-07	6.09E-11	7.93E-05	1.40E+01	5.73E-01	4.43E-01	5.46E-01	5.38E-01	2.33E-02	2.95E-01	2.86E-01	
Dose 1 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E+02	3.22E-01	5.31E+00	5.05E+00	5.35E+00	1.70E-01	4.46E-01	4.04E-01	

**Table C.1.1. Concentrations used to develop risk, hazard, and dose curves under the gradual failure scenario.
Groundwater drawn from the RGA at the DOE property boundary point of exposure.**

Concentrations	Pu-240 (pCi/L)	Th-230 (pCi/L)	Th-232 (pCi/L)
Time (yr)			
7200	1.57E-05	1.07E-05	2.36E-05
7300	1.63E-05	1.11E-05	2.44E-05
7400	1.68E-05	1.14E-05	2.52E-05
7500	1.72E-05	1.17E-05	2.57E-05
7600	1.77E-05	1.20E-05	2.65E-05
7700	1.82E-05	1.24E-05	2.73E-05
7800	1.89E-05	1.28E-05	2.83E-05
7900	1.94E-05	1.32E-05	2.91E-05
8000	1.99E-05	1.35E-05	2.98E-05
8100	2.04E-05	1.39E-05	3.06E-05
8200	2.09E-05	1.42E-05	3.14E-05
8300	2.15E-05	1.46E-05	3.22E-05
8400	2.21E-05	1.50E-05	3.32E-05
8500	2.26E-05	1.54E-05	3.39E-05
8600	2.31E-05	1.57E-05	3.47E-05
8700	2.38E-05	1.62E-05	3.57E-05
8800	2.43E-05	1.65E-05	3.65E-05
8900	2.48E-05	1.69E-05	3.72E-05
9000	2.55E-05	1.73E-05	3.82E-05
9100	2.60E-05	1.77E-05	3.90E-05
9200	2.67E-05	1.81E-05	4.00E-05
9300	2.72E-05	1.85E-05	4.08E-05
9400	2.78E-05	1.89E-05	4.17E-05
9500	2.83E-05	1.93E-05	4.25E-05
9600	2.90E-05	1.97E-05	4.35E-05
9700	2.95E-05	2.01E-05	4.43E-05
9800	3.02E-05	2.05E-05	4.52E-05
9900	3.07E-05	2.09E-05	4.60E-05
10000	3.13E-05	2.13E-05	4.70E-05
Maximum Concentration	3.13E-05	2.13E-05	4.70E-05
Hazard No Action Level	0.00E+00	0.00E+00	0.00E+00
Risk No Action Level	2.86E-01	2.21E-02	2.68E-02
Dose 1 mrem	4.04E-01	1.60E-01	2.90E-01

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure.

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Hazard	2-Butanone Group		Benzene Group					Vinyl Chloride Group							Trichloroethene
	2-Butanone	Benzene	Ethylbenzene	Xylene	m-Xylene	p-Xylene	o-Xylene	Vinyl chloride	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	Chloroform	1,1-DCE	1,2-DCE	
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	5.18E-10	3.35E-11	9.64E-14	6.75E-14	1.39E-14	0.00E+00	1.13E-14	3.53E-13	6.61E-13	1.16E-13	5.55E-14	5.38E-12	2.52E-14	1.32E-16	4.89E-10
20	7.14E-10	6.49E-11	1.86E-13	1.31E-13	2.69E-14	0.00E+00	2.19E-14	7.91E-12	1.48E-11	2.60E-12	1.24E-12	1.21E-10	5.64E-13	2.97E-15	5.34E-09
30	1.82E-10	2.14E-11	6.16E-14	4.32E-14	8.88E-15	0.00E+00	7.23E-15	2.73E-11	5.10E-11	8.96E-12	4.29E-12	4.16E-10	1.94E-12	1.02E-14	8.63E-09
40	2.25E-11	7.00E-12	2.01E-14	1.41E-14	2.90E-15	0.00E+00	2.36E-15	4.74E-11	8.87E-11	1.56E-11	7.45E-12	7.22E-10	3.38E-12	1.78E-14	7.00E-09
50	1.95E-12	1.27E-12	3.64E-15	2.55E-15	5.25E-16	0.00E+00	4.28E-16	5.69E-11	1.06E-10	1.87E-11	8.94E-12	8.67E-10	4.05E-12	2.13E-14	4.10E-09
60	4.32E-12	1.57E-11	4.50E-14	3.16E-14	6.50E-15	0.00E+00	5.29E-15	3.56E-09	6.67E-09	1.17E-09	5.60E-10	5.43E-08	2.54E-10	1.34E-12	3.79E-08
70	2.85E-12	2.74E-11	7.87E-14	5.52E-14	1.13E-14	0.00E+00	9.24E-15	7.45E-09	1.39E-08	2.45E-09	1.17E-09	1.14E-07	5.31E-10	2.80E-12	4.81E-08
80	8.99E-13	2.70E-11	7.75E-14	5.44E-14	1.12E-14	0.00E+00	9.11E-15	1.09E-08	2.04E-08	3.38E-09	1.71E-09	1.66E-07	7.76E-10	4.08E-12	3.33E-08
90	2.82E-13	1.98E-11	5.70E-14	4.00E-14	8.22E-15	0.00E+00	6.70E-15	1.18E-08	2.58E-08	4.54E-09	2.17E-09	2.10E-07	9.83E-10	5.18E-12	2.29E-08
100	1.13E-13	1.88E-11	5.39E-14	3.78E-14	7.78E-15	0.00E+00	6.34E-15	3.07E-08	5.74E-08	1.01E-08	4.83E-09	4.68E-07	2.19E-09	1.15E-11	2.16E-08
110	5.31E-14	1.71E-11	4.91E-14	3.44E-14	7.08E-15	0.00E+00	5.77E-15	6.47E-08	1.21E-07	2.13E-08	1.02E-08	9.87E-07	4.61E-09	2.43E-11	2.29E-08
120	2.24E-14	1.16E-11	3.32E-14	2.33E-14	4.79E-15	0.00E+00	3.90E-15	1.18E-07	2.20E-07	3.87E-08	1.85E-08	1.79E-06	8.39E-09	4.42E-11	2.03E-08
130	8.59E-15	6.17E-12	1.77E-14	1.24E-14	2.56E-15	0.00E+00	2.08E-15	1.87E-07	3.50E-07	6.15E-08	2.94E-08	2.85E-06	1.33E-08	7.02E-11	1.55E-08
140	3.26E-15	2.96E-12	8.50E-15	5.96E-15	1.23E-15	0.00E+00	9.98E-16	2.99E-07	5.60E-07	9.85E-08	4.71E-08	4.56E-06	2.13E-08	1.12E-10	1.13E-08
150	1.21E-15	1.32E-12	3.79E-15	2.66E-15	5.47E-16	0.00E+00	4.45E-16	4.15E-07	7.77E-07	1.37E-07	6.53E-08	6.33E-06	2.96E-08	1.56E-10	7.88E-09
160	4.15E-16	5.16E-13	1.48E-15	1.04E-15	2.14E-16	0.00E+00	1.74E-16	4.80E-07	8.99E-07	1.58E-07	7.56E-08	7.32E-06	3.42E-08	1.80E-10	4.94E-09
170	1.32E-16	1.81E-13	5.19E-16	3.64E-16	7.49E-17	0.00E+00	6.10E-17	4.74E-07	8.87E-07	1.56E-07	7.45E-08	7.22E-06	3.38E-08	1.78E-10	2.88E-09
180	3.82E-17	5.67E-14	1.63E-16	1.14E-16	2.35E-17	0.00E+00	1.92E-17	3.79E-07	7.10E-07	1.25E-07	5.96E-08	5.78E-06	2.70E-08	1.42E-10	1.51E-09
190	1.00E-17	1.60E-14	4.60E-17	3.23E-17	6.64E-18	0.00E+00	5.40E-18	3.67E-07	4.99E-07	8.77E-08	4.19E-08	4.07E-06	1.90E-08	1.00E-10	7.25E-10
200	2.56E-18	4.35E-15	1.25E-17	8.75E-18	1.80E-18	0.00E+00	1.47E-18	1.73E-07	3.23E-07	5.68E-08	2.71E-08	2.63E-06	1.23E-08	6.48E-11	3.35E-10
210	6.36E-19	1.15E-15	3.30E-18	2.31E-18	4.76E-19	0.00E+00	3.88E-19	1.05E-07	1.96E-07	3.45E-08	1.65E-08	1.60E-06	7.48E-09	3.94E-11	1.52E-10
220	1.52E-19	2.92E-16	8.38E-19	5.88E-19	1.21E-19	0.00E+00	9.84E-20	5.92E-08	1.11E-07	1.95E-08	9.30E-09	9.02E-07	4.22E-09	2.22E-11	6.56E-11
230	3.49E-20	7.08E-17	2.04E-19	1.43E-19	2.94E-20	0.00E+00	2.39E-20	3.18E-08	5.96E-08	1.05E-08	5.01E-09	4.85E-07	2.27E-09	1.19E-11	2.71E-11
240	7.91E-21	1.69E-17	4.86E-20	3.41E-20	7.01E-21	0.00E+00	5.71E-21	1.65E-08	3.10E-08	5.44E-09	2.60E-09	2.52E-07	1.18E-09	6.21E-12	1.11E-11
250	1.77E-21	3.99E-18	1.15E-20	8.03E-21	1.65E-21	0.00E+00	1.35E-21	8.40E-09	1.57E-08	2.76E-09	1.32E-09	1.28E-07	5.99E-10	3.15E-12	4.41E-12
260	3.91E-22	9.29E-19	2.67E-21	1.87E-21	3.85E-22	0.00E+00	3.13E-22	4.18E-09	7.83E-09	1.38E-09	6.58E-10	6.38E-08	2.98E-10	1.57E-12	1.75E-12
270	8.50E-23	2.14E-19	6.16E-22	4.32E-22	8.88E-23	0.00E+00	7.23E-23	2.04E-09	3.82E-09	6.72E-10	3.21E-10	3.11E-08	1.46E-10	7.67E-13	6.81E-13
280	1.84E-23	4.86E-20	1.40E-22	9.79E-23	2.01E-23	0.00E+00	1.64E-23	9.90E-10	1.85E-09	3.26E-10	1.56E-10	1.51E-08	7.06E-11	3.72E-13	2.62E-13
290	3.97E-24	1.10E-20	3.16E-23	2.22E-23	4.56E-24	0.00E+00	3.72E-24	4.74E-10	8.87E-10	1.56E-10	7.45E-11	7.22E-09	3.38E-11	1.78E-13	1.01E-13
300	8.54E-25	2.46E-21	7.07E-24	4.96E-24	1.02E-24	0.00E+00	8.30E-25	2.26E-10	4.23E-10	7.43E-11	3.35E-11	3.44E-09	1.61E-11	8.48E-14	3.83E-14
310	1.82E-25	5.50E-22	1.58E-24	2.28E-25	0.00E+00	1.86E-25	1.06E-10	1.99E-10	3.49E-11	1.67E-11	1.62E-09	7.57E-12	3.99E-14	1.44E-14	
320	3.87E-26	1.22E-22	3.51E-25	2.46E-25	5.06E-26	0.00E+00	4.12E-26	5.00E-11	9.36E-11	1.64E-11	7.86E-12	7.62E-10	3.56E-12	1.88E-14	5.41E-15
330	8.20E-27	2.70E-23	7.75E-26	5.44E-26	1.12E-26	0.00E+00	9.11E-27	2.34E-11	4.38E-11	7.70E-12	3.68E-12	3.57E-10	1.67E-12	8.78E-15	2.03E-15
340	1.71E-27	5.87E-24	1.69E-26	1.18E-26	2.43E-27	0.00E+00	1.98E-27	1.09E-11	2.04E-11	3.59E-12	1.72E-12	1.66E-10	7.78E-13	4.10E-15	7.56E-16
350	3.64E-28	1.29E-24	3.71E-27	2.60E-27	5.35E-28	0.00E+00	4.36E-28	5.07E-12	9.48E-12	1.67E-12	7.97E-13	7.72E-11	3.61E-13	1.90E-15	2.80E-16
360	7.67E-29	2.82E-25	8.10E-28	5.68E-28	1.17E-28	0.00E+00	9.51E-29	2.36E-12	4.42E-12	7.77E-13	3.72E-13	3.60E-11	1.68E-13	8.87E-16	1.04E-16
370	1.61E-29	6.11E-26	1.76E-28	1.23E-28	2.53E-29	0.00E+00	2.06E-29	1.09E-12	2.04E-12	3.58E-13	1.71E-13	1.66E-11	7.76E-14	4.08E-16	3.82E-17
380	3.38E-30	1.32E-26	3.80E-29	2.67E-29	5.48E-30	0.00E+00	4.47E-30	5.03E-13	9.42E-13	1.66E-13	7.92E-14	7.67E-12	3.59E-11	1.89E-16	1.41E-17
390	7.05E-31	2.86E-27	8.21E-30	5.76E-30	1.18E-30	0.00E+00	9.64E-31	2.32E-13	4.35E-13	7.64E-14	3.65E-13	3.54E-12	1.66E-14	8.72E-17	5.18E-18
400	1.47E-31	6.13E-28	1.76E-30	1.24E-30	2.54E-31	0.00E+00	2.07E-31	1.08E-13	2.01E-13	3.54E-14	1.69E-14	1.64E-12	7.66E-15	4.04E-17	1.89E-18
410	3.08E-32	1.32E-28	3.80E-31	2.67E-31	5.48E-32	0.00E+00	4.47E-32	4.97E-14	9.30E-14	1.63E-14	7.81E-15	7.57E-13	3.54E-15	1.86E-17	6.94E-19
420	6.41E-33	2.84E-29	8.15E-32	5.72E-32	1.18E-32	0.00E+00	9.58E-33	2.38E-14	4.26E-14	7.49E-15	3.58E-15	3.47E-13	1.62E-15	8.55E-18	2.33E-19
430	1.34E-33	6.09E-30	1.75E-32	1.23E-32	2.52E-33	0.00E+00	2.06E-33	1.05E-14	1.96E-14	3.45E-15	1.65E-15	1.60E-13	7.48E-16	3.94E-18	9.25E-20
440	2.78E-34	1.30E-30	3.74E-33	2.62E-33	5.39E-34	0.00E+00	4.39E-34	4.84E-15	9.05E-15	1.59E-15	7.61E-16	7.37E-14	3.45E-16	1.82E-18	3.39E-20
450	5.77E-35	2.78E-31	7.98E-34	5.60E-34	1.15E-34	0.00E+00	9.38E-35	2.22E-15	4.15E-15	7.30E-16	3.49E-16	3.38E-14	1.58E-16	8.33E-19	1.23E-20
460	1.20E-35	5.91E-32	1.70E-34	1.19E-34	2.45E-35	0.00E+00	2.00E-35	1.02E-15	1.91E-15	3.35E-16	1.60E-16	1.55E-14	7.27E-17	3.83E-19	4.49E-21
470	2.49E-36	1.26E-32	3.61E-35	2.53E-35	5.21E-36	0.00E+00	4.25E-36	4.67E-16	8.75E-16	1.54E-16	7.35E-17	7.13E-15	3.33E-17	1.75E-19	1.64E-21
480	5.17E-37	2.68E-33	7.70E-36	5.40E-36	1.11E-36	0.00E+00	9.04E-37	2.16E-16	4.04E-16	7.09E-17	3.39E-17	3.29E-15	1.54E-17	8.10E-20	5.95E-22
490	1.07E-37	5.71E-34	1.64E-36	1.15E-36	2.17E-37	0.00E+00	1.93E-37	9.90E-17	1.85E-16	3.26E-17	1.56E-17	1.51E-15	7.06E-18	3.72E-20	2.16E-22
500	2.22E-38	1.21E-34	3.47E-37	2.43E-37	5.00E-38	0.00E+00	4.07E-38	4.54E-17	8.50E-17	1.49E-17	7.14E-18	6.93E-16	3.24E-18	1.71E-20	7.88E-23
510	4.63E-39														

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Hazard	Trichloroethene Group		Chlorobenzene Group			2-Methylphenol Group						
	Carbon tetrachloride	Tetrachloroethene	Chlorobenzene	1,4-Dichlorobenzene	Hexachlorobenzene	2-Methylphenol	Pyridine	4-Methylphenol	3-Methylphenol	2,4-DNT	Nitrobenzene	2,4,6-Trichlorophenol
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	1.42E-10	2.82E-12	3.07E-12	8.03E-14	2.52E-15	7.19E-11	1.03E-09	3.96E-10	2.41E-11	1.59E-11	3.57E-10	0.00E+00
20	1.55E-09	3.08E-11	9.29E-12	2.43E-13	7.64E-15	1.25E-10	1.79E-09	6.88E-10	4.19E-11	2.77E-11	6.21E-10	0.00E+00
30	2.50E-09	4.98E-11	3.05E-12	7.98E-14	2.50E-15	5.06E-11	7.22E-10	2.78E-10	1.70E-11	1.12E-11	2.51E-10	0.00E+00
40	2.03E-09	4.04E-11	2.30E-12	6.01E-14	1.89E-15	1.25E-11	1.79E-10	6.88E-11	4.19E-12	2.77E-12	6.21E-11	0.00E+00
50	1.19E-09	2.37E-11	4.21E-13	1.10E-14	3.46E-16	1.87E-12	2.66E-11	1.03E-11	6.26E-13	4.13E-13	9.26E-12	0.00E+00
60	1.10E-08	2.19E-10	4.85E-11	1.27E-12	3.99E-14	1.47E-11	2.09E-10	8.06E-11	4.91E-12	3.24E-12	7.27E-11	0.00E+00
70	1.39E-08	2.78E-10	1.28E-10	3.35E-12	1.05E-13	2.06E-11	2.94E-10	1.13E-10	6.91E-12	4.56E-12	1.02E-10	0.00E+00
80	9.65E-09	1.92E-10	1.54E-10	4.02E-12	1.26E-13	1.83E-11	2.60E-10	1.00E-10	6.12E-12	4.04E-12	9.06E-11	0.00E+00
90	6.63E-09	1.32E-10	1.20E-10	3.15E-12	9.88E-14	1.30E-11	1.85E-10	7.14E-11	4.35E-12	2.87E-12	6.44E-11	0.00E+00
100	6.26E-09	1.25E-10	1.07E-10	2.80E-12	8.80E-14	1.26E-11	1.80E-10	6.93E-11	4.22E-12	2.79E-12	6.25E-11	0.00E+00
110	6.63E-09	1.32E-10	1.08E-10	2.81E-12	8.84E-14	1.13E-11	1.62E-10	6.24E-11	3.80E-12	2.51E-12	5.63E-11	0.00E+00
120	5.88E-09	1.17E-10	7.77E-11	2.03E-12	6.39E-14	7.50E-12	1.07E-10	4.12E-11	2.51E-12	1.66E-12	3.72E-11	0.00E+00
130	4.49E-09	8.95E-11	4.29E-11	1.12E-12	3.53E-14	3.89E-12	5.54E-11	2.14E-11	1.30E-12	8.60E-13	1.93E-11	0.00E+00
140	3.28E-09	6.53E-11	2.03E-11	5.32E-13	1.67E-14	1.81E-12	2.58E-11	9.96E-12	6.07E-13	4.01E-13	8.99E-12	0.00E+00
150	2.28E-09	4.55E-11	9.08E-12	2.38E-13	7.46E-15	7.75E-13	1.10E-11	4.26E-12	2.60E-13	1.71E-13	3.84E-12	0.00E+00
160	1.43E-09	2.86E-11	3.48E-12	9.10E-14	2.86E-15	2.86E-13	4.08E-12	1.57E-12	9.59E-14	6.33E-14	1.42E-12	0.00E+00
170	8.33E-10	1.66E-11	1.17E-12	3.06E-14	9.60E-16	9.45E-14	1.35E-12	5.20E-13	3.17E-14	2.09E-14	4.69E-13	0.00E+00
180	4.38E-10	8.74E-12	3.48E-13	9.10E-15	2.86E-16	2.77E-14	3.95E-13	1.52E-13	9.27E-15	6.12E-15	1.37E-13	0.00E+00
190	2.10E-10	4.19E-12	8.93E-14	2.34E-15	7.34E-17	7.22E-15	1.03E-13	3.97E-14	2.42E-15	1.60E-15	3.58E-14	0.00E+00
200	9.70E-11	1.94E-12	2.17E-14	5.67E-16	1.78E-17	1.80E-15	2.57E-14	9.89E-15	6.02E-16	3.98E-16	8.92E-15	0.00E+00
210	4.40E-11	8.77E-13	5.04E-15	1.32E-16	4.15E-18	4.30E-16	6.22E-15	2.40E-15	1.46E-16	9.64E-17	2.16E-15	0.00E+00
220	1.90E-11	3.79E-13	1.13E-15	2.97E-17	9.31E-19	1.02E-16	1.45E-15	5.59E-16	3.41E-17	2.25E-17	5.04E-16	0.00E+00
230	7.86E-12	1.57E-13	2.40E-16	6.29E-18	1.98E-19	2.27E-17	3.24E-16	1.25E-16	7.60E-18	5.02E-18	1.13E-16	0.00E+00
240	3.20E-12	6.39E-14	4.98E-17	1.30E-18	4.09E-20	4.97E-18	7.08E-17	2.73E-17	1.66E-18	1.10E-18	2.46E-17	0.00E+00
250	1.28E-12	2.55E-14	1.02E-17	2.67E-19	8.40E-21	1.08E-18	1.54E-17	5.95E-18	3.62E-19	2.39E-19	5.37E-18	0.00E+00
260	5.07E-13	1.01E-14	2.07E-18	5.41E-20	1.70E-21	2.32E-19	3.31E-18	1.28E-18	7.79E-20	5.14E-20	1.15E-18	0.00E+00
270	1.97E-13	3.94E-15	4.12E-19	1.08E-20	3.39E-22	4.99E-20	7.12E-19	2.75E-19	1.67E-20	1.10E-20	2.48E-19	0.00E+00
280	7.59E-14	1.51E-15	8.18E-20	2.14E-21	6.72E-23	1.06E-20	1.51E-19	5.82E-20	3.55E-21	2.34E-21	5.25E-20	0.00E+00
290	2.91E-14	5.81E-16	1.61E-20	4.22E-22	1.32E-23	2.24E-21	3.20E-20	1.21E-20	7.51E-22	4.96E-22	1.11E-20	0.00E+00
300	1.11E-14	2.21E-16	3.15E-21	8.26E-23	2.59E-24	4.72E-22	6.73E-21	2.59E-21	1.58E-22	1.04E-22	2.34E-21	0.00E+00
310	4.18E-15	8.34E-17	6.12E-22	1.60E-23	5.03E-25	9.89E-23	1.41E-21	5.44E-22	3.31E-23	2.19E-23	4.91E-22	0.00E+00
320	1.57E-15	3.13E-17	1.19E-22	3.11E-24	9.75E-26	2.07E-23	2.96E-22	1.14E-22	6.95E-24	4.59E-24	1.03E-22	0.00E+00
330	5.87E-16	1.17E-17	2.30E-23	6.01E-25	1.89E-26	4.34E-24	6.20E-23	2.39E-23	1.46E-24	9.61E-25	2.15E-23	0.00E+00
340	2.19E-16	4.37E-18	4.42E-24	1.16E-25	3.63E-27	9.07E-25	1.29E-23	4.99E-24	3.04E-25	2.01E-25	4.50E-24	0.00E+00
350	8.11E-17	1.62E-18	8.45E-25	2.21E-26	6.95E-28	1.89E-25	2.70E-24	1.04E-24	6.35E-26	4.19E-26	9.40E-25	0.00E+00
360	3.01E-17	5.99E-19	1.62E-25	4.24E-27	1.31E-28	3.96E-26	5.64E-25	2.18E-25	1.33E-26	8.75E-27	1.96E-25	0.00E+00
370	1.11E-17	2.21E-19	3.11E-26	8.15E-28	2.56E-29	8.23E-27	1.17E-25	4.53E-26	2.76E-27	1.82E-27	4.08E-26	0.00E+00
380	4.07E-18	8.12E-20	5.92E-27	1.55E-28	4.87E-30	1.72E-27	2.45E-26	9.43E-27	5.75E-28	3.79E-28	8.51E-27	0.00E+00
390	1.50E-18	2.99E-20	1.13E-27	2.95E-29	9.26E-31	3.57E-28	5.09E-27	1.96E-27	1.20E-28	7.89E-29	1.77E-27	0.00E+00
400	5.49E-19	1.09E-20	2.14E-28	5.59E-30	1.76E-31	7.44E-29	1.06E-27	4.09E-28	2.49E-29	1.65E-29	3.69E-28	0.00E+00
410	2.01E-19	4.01E-21	4.08E-29	1.07E-30	3.35E-32	1.55E-29	2.21E-28	8.52E-29	5.19E-30	3.43E-30	7.69E-29	0.00E+00
420	7.33E-20	1.46E-21	7.70E-30	2.02E-31	6.33E-33	3.21E-30	4.58E-29	1.76E-29	1.08E-30	7.10E-31	1.59E-29	0.00E+00
430	2.68E-20	5.34E-22	1.45E-30	3.80E-32	1.19E-33	6.67E-31	9.51E-30	3.67E-30	2.23E-31	1.47E-31	3.31E-30	0.00E+00
440	9.81E-21	1.96E-22	2.75E-31	7.19E-33	2.26E-34	1.38E-31	1.97E-30	7.61E-31	4.63E-32	3.06E-32	6.86E-31	0.00E+00
450	3.57E-21	7.11E-23	5.19E-32	1.36E-33	4.27E-35	2.88E-32	4.10E-31	1.58E-31	9.64E-33	6.36E-33	1.43E-31	0.00E+00
460	1.30E-21	2.59E-23	9.83E-33	2.57E-34	8.08E-36	6.00E-33	8.56E-32	3.30E-32	2.01E-33	1.33E-33	2.98E-32	0.00E+00
470	4.74E-22	9.46E-24	1.85E-33	4.85E-35	1.52E-36	1.21E-33	1.77E-32	6.84E-33	4.17E-34	2.75E-34	6.17E-33	0.00E+00
480	1.72E-22	3.44E-24	3.50E-34	9.16E-36	2.88E-37	2.59E-34	3.69E-33	1.42E-33	8.67E-35	5.72E-35	1.28E-33	0.00E+00
490	6.26E-23	1.25E-24	6.57E-35	1.72E-36	5.10E-38	5.38E-35	7.68E-34	2.96E-34	1.80E-35	1.19E-35	2.67E-34	0.00E+00
500	2.28E-23	4.55E-25	1.24E-35	3.24E-37	1.02E-38	1.12E-35	1.59E-34	6.14E-35	3.74E-36	2.47E-36	5.54E-35	0.00E+00
510	8.26E-24	1.65E-25	2.32E-36	6.07E-38	1.91E-39	2.32E-36	3.31E-35	1.28E-35	7.79E-37	5.14E-37	1.15E-35	0.00E+00
520	3.01E-24	5.99E-26	4.36E-37	1.14E-38	3.58E-40	4.81E-37	6.87E-36	2.65E-36	1.61E-37	1.06E-37	2.39E-36	0.00E+00
530	1.09E-24	2.17E-26	8.20E-38	2.15E-39	6.74E-41	1.00E-37	1.43E-36	5.50E-37	3.35E-38	2.21E-38	4.96E-37	0.00E+00
540	3.95E-25	7.87E-27	1.54E-38	4.02E-40	1.26E-41	2.07E-38	2.96E-37	1.14E-37	6.95E-39	4.59E-39	1.03E-37	0.00E+00

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Hazard	gamma-Chlordane Group					Pentachlorophenol Group								
	2,4,5-Trichlorophenol	Acrylonitrile	gamma-Chlordane	alpha-Chlordane	Methoxychlor	Heptachlor epoxide	Toxaphene	Pentachlorophenol	Naphthalene	Hexachloroethane	Acenaphthene	Acenaphthylene	Fluorene	
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	4.80E-13	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-15	1.30E-14	1.16E-15	6.57E-17	0.00E+00	5.77E-17	
20	8.35E-13	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-13	1.92E-12	1.72E-13	9.72E-15	0.00E+00	8.53E-15	
30	3.38E-13	9.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-13	9.37E-12	8.39E-13	4.75E-14	0.00E+00	4.17E-14	
40	8.35E-14	2.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-12	1.37E-11	1.23E-12	6.96E-14	0.00E+00	6.11E-14	
50	1.25E-14	3.51E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-12	1.27E-11	1.14E-12	6.44E-14	0.00E+00	5.65E-14	
60	9.78E-14	2.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-11	2.07E-10	1.85E-11	1.05E-12	0.00E+00	9.19E-13	
70	1.37E-13	3.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-10	1.26E-09	1.13E-10	6.40E-12	0.00E+00	5.61E-12	
80	1.22E-13	3.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-10	1.62E-09	1.45E-10	8.20E-12	0.00E+00	7.19E-12	
90	8.66E-14	2.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-10	1.90E-09	1.70E-10	9.65E-12	0.00E+00	8.47E-12	
100	8.40E-14	2.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-10	2.44E-09	2.18E-10	1.23E-11	0.00E+00	1.08E-11	
110	7.56E-14	2.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-10	4.97E-09	4.44E-10	2.52E-11	0.00E+00	2.21E-11	
120	5.00E-14	1.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-10	7.66E-09	6.86E-10	3.88E-11	0.00E+00	3.41E-11	
130	2.59E-14	7.31E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-10	8.86E-09	7.93E-10	4.49E-11	0.00E+00	3.94E-11	
140	1.21E-14	3.41E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-10	8.43E-09	7.54E-10	4.27E-11	0.00E+00	3.75E-11	
150	5.17E-15	1.46E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-10	7.66E-09	6.86E-10	3.88E-11	0.00E+00	3.41E-11	
160	1.91E-15	5.38E-11	5.32E-42	5.32E-42	8.87E-42	1.22E-41	0.00E+00	5.94E-10	5.95E-09	5.32E-10	3.02E-11	0.00E+00	2.65E-11	
170	6.30E-16	1.78E-11	3.83E-41	3.83E-41	6.39E-41	8.75E-41	0.00E+00	4.05E-10	4.05E-09	3.63E-10	2.05E-11	0.00E+00	1.80E-11	
180	1.84E-16	5.20E-12	1.55E-40	2.58E-40	3.54E-40	0.00E+00	0.00E+00	2.44E-10	2.45E-09	2.19E-10	1.24E-11	0.00E+00	1.09E-11	
190	4.82E-17	1.36E-12	2.13E-34	2.13E-34	3.54E-34	4.86E-34	0.00E+00	1.26E-10	1.26E-09	1.13E-10	6.40E-12	0.00E+00	5.61E-12	
200	1.20E-17	3.38E-13	3.24E-33	3.24E-33	5.39E-33	7.39E-33	0.00E+00	6.07E-11	6.08E-10	5.44E-11	3.08E-12	0.00E+00	2.70E-12	
210	2.91E-18	8.19E-14	2.04E-32	2.04E-32	3.39E-32	4.65E-32	0.00E+00	2.79E-11	2.80E-10	2.50E-11	1.42E-12	0.00E+00	1.24E-12	
220	6.78E-19	1.91E-14	8.12E-32	8.12E-32	1.35E-31	1.85E-31	0.00E+00	1.24E-11	1.24E-10	1.11E-11	6.29E-13	0.00E+00	5.52E-13	
230	1.51E-19	4.26E-15	2.81E-31	2.81E-31	4.68E-31	6.42E-31	0.00E+00	5.21E-12	5.22E-11	4.67E-12	2.65E-13	0.00E+00	2.32E-13	
240	3.31E-20	9.33E-16	1.16E-30	1.16E-30	1.93E-30	2.64E-30	0.00E+00	2.13E-12	2.13E-11	1.91E-12	1.08E-13	0.00E+00	9.48E-14	
250	7.21E-21	2.03E-16	4.57E-30	4.57E-30	7.62E-30	1.04E-29	0.00E+00	8.55E-13	8.56E-12	7.66E-13	4.34E-14	0.00E+00	3.81E-14	
260	1.55E-21	4.37E-17	1.52E-29	1.52E-29	2.52E-29	3.46E-29	0.00E+00	3.41E-13	3.41E-12	3.05E-13	1.73E-14	0.00E+00	1.52E-14	
270	3.33E-22	9.39E-18	4.22E-29	4.22E-29	7.04E-29	9.64E-29	0.00E+00	1.33E-13	1.34E-12	1.19E-13	6.77E-15	0.00E+00	5.94E-15	
280	7.06E-23	1.99E-18	1.05E-28	1.05E-28	1.75E-28	2.40E-28	0.00E+00	5.21E-14	5.22E-13	4.67E-14	2.65E-15	0.00E+00	2.32E-15	
290	1.49E-23	4.21E-19	2.37E-28	2.37E-28	3.95E-28	5.41E-28	0.00E+00	2.01E-14	2.02E-13	1.80E-14	1.02E-15	0.00E+00	8.96E-16	
300	3.15E-24	8.87E-20	4.83E-28	4.83E-28	8.05E-28	1.10E-27	0.00E+00	7.74E-15	7.75E-14	6.93E-15	3.93E-16	0.00E+00	3.44E-16	
310	6.60E-25	1.86E-20	8.88E-28	8.88E-28	1.48E-27	2.03E-27	0.00E+00	2.97E-15	2.97E-14	2.66E-15	1.51E-16	0.00E+00	1.32E-16	
320	1.38E-25	3.90E-21	1.47E-27	1.47E-27	2.44E-27	3.34E-27	0.00E+00	1.13E-15	1.13E-14	1.01E-15	5.73E-17	0.00E+00	5.02E-17	
330	2.90E-26	8.16E-22	2.19E-27	2.19E-27	3.65E-27	5.00E-27	0.00E+00	4.32E-16	4.32E-15	3.87E-16	2.19E-17	0.00E+00	1.92E-17	
340	6.05E-27	1.71E-22	2.99E-27	2.99E-27	4.99E-27	6.83E-27	0.00E+00	1.63E-16	1.63E-15	1.46E-16	8.26E-18	0.00E+00	7.25E-18	
350	1.26E-27	3.56E-23	3.80E-27	3.80E-27	6.33E-27	8.67E-27	0.00E+00	6.15E-17	6.16E-16	5.51E-17	3.12E-18	0.00E+00	2.74E-18	
360	2.64E-28	7.44E-24	4.48E-27	4.48E-27	7.47E-27	1.02E-26	0.00E+00	2.32E-17	2.33E-16	2.08E-17	1.18E-18	0.00E+00	1.04E-18	
370	5.49E-29	1.55E-24	4.95E-27	4.95E-27	8.25E-27	1.13E-26	0.00E+00	8.72E-18	8.73E-17	7.81E-18	4.43E-19	0.00E+00	3.88E-19	
380	1.14E-29	3.22E-25	5.18E-27	5.18E-27	8.63E-27	1.18E-26	0.00E+00	3.29E-18	3.29E-17	2.94E-18	1.67E-19	0.00E+00	1.46E-19	
390	2.38E-30	6.71E-26	5.15E-27	5.15E-27	8.58E-27	1.18E-26	0.00E+00	1.24E-18	1.24E-17	1.11E-18	6.27E-20	0.00E+00	5.50E-20	
400	4.96E-31	1.40E-26	4.88E-27	4.88E-27	8.13E-27	1.11E-26	0.00E+00	4.62E-19	4.62E-18	4.14E-19	2.34E-20	0.00E+00	2.06E-20	
410	1.03E-31	2.91E-27	4.44E-27	4.44E-27	7.39E-27	1.01E-26	0.00E+00	1.73E-19	1.73E-18	1.55E-19	8.76E-21	0.00E+00	7.69E-21	
420	2.14E-32	6.03E-28	3.88E-27	3.88E-27	6.46E-27	8.85E-27	0.00E+00	6.45E-20	6.46E-19	5.78E-20	3.28E-21	0.00E+00	2.87E-21	
430	4.45E-33	1.25E-28	3.27E-27	3.27E-27	5.44E-27	7.46E-27	0.00E+00	2.41E-20	2.41E-19	2.16E-20	1.22E-21	0.00E+00	1.07E-21	
440	9.22E-34	2.60E-29	2.66E-27	2.66E-27	4.43E-27	6.07E-27	0.00E+00	8.97E-21	8.99E-20	8.04E-21	4.56E-22	0.00E+00	4.00E-22	
450	1.92E-34	5.41E-30	2.11E-27	2.11E-27	3.52E-27	4.82E-27	0.00E+00	3.35E-21	3.35E-20	3.00E-21	1.70E-22	0.00E+00	1.49E-22	
460	4.00E-35	1.11E-30	1.63E-27	1.63E-27	2.71E-27	3.71E-27	0.00E+00	1.25E-21	1.25E-20	1.12E-21	6.33E-23	0.00E+00	5.56E-23	
470	8.29E-36	2.34E-31	1.22E-27	1.22E-27	2.03E-27	2.78E-27	0.00E+00	4.62E-22	4.62E-21	4.14E-22	2.34E-23	0.00E+00	2.06E-23	
480	1.73E-36	4.86E-32	8.94E-28	8.94E-28	1.49E-27	2.04E-27	0.00E+00	1.72E-22	1.73E-21	1.54E-22	8.74E-24	0.00E+00	7.67E-24	
490	3.59E-37	1.01E-32	6.41E-28	6.41E-28	1.07E-27	1.46E-27	0.00E+00	6.37E-23	6.38E-22	5.71E-23	3.23E-24	0.00E+00	2.84E-24	
500	7.44E-38	2.10E-33	4.51E-28	4.51E-28	7.52E-28	1.03E-27	0.00E+00	2.37E-23	2.37E-22	2.12E-23	1.20E-24	0.00E+00	1.05E-24	
510	1.55E-38	4.37E-34	3.13E-28	3.13E-28	5.21E-28	7.15E-28	0.00E+00	8.76E-24	8.78E-23	7.85E-24	4.45E-25	0.00E+00	3.90E-25	
520	3.21E-39	9.05E-35	2.13E-28	2.13E-28	3.54E-28	4.86E-28	0.00E+00	3.25E-24	3.25E-23	2.91E-24	1.65E-25	0.00E+00	1.45E-25	
530	6.67E-40	1.88E-35	1.43E-28	1.43E-28	2.38E-28	3.26E-28	0.00E+00	1.21E-24	1.21E-23	1.08E-24	6.12E-26	0.00E+00	5.37E-26	
540	1.38E-40	3.90E-36	9.45E-29	9.45E-29	1.57E-28	2.16E-28	0.00E+00	4.44E-25	4.45E-24	3.98E-25	2.26E-26	0.00E+00	1.98E-26	

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Hazard	Th-230	Th-232	Total
0	0.00E+00	0.00E+00	0.00E+00
10	0.00E+00	0.00E+00	1.66E-08
20	0.00E+00	0.00E+00	3.47E-08
30	0.00E+00	0.00E+00	2.27E-08
40	0.00E+00	0.00E+00	1.27E-08
50	0.00E+00	0.00E+00	6.79E-09
60	0.00E+00	0.00E+00	1.19E-07
70	0.00E+00	0.00E+00	2.08E-07
80	0.00E+00	0.00E+00	2.52E-07
90	0.00E+00	0.00E+00	2.92E-07
100	0.00E+00	0.00E+00	6.50E-07
110	0.00E+00	0.00E+00	1.29E-06
120	0.00E+00	0.00E+00	2.28E-06
130	0.00E+00	0.00E+00	3.57E-06
140	0.00E+00	0.00E+00	5.66E-06
150	0.00E+00	0.00E+00	7.81E-06
160	0.00E+00	0.00E+00	9.03E-06
170	0.00E+00	0.00E+00	8.90E-06
180	0.00E+00	0.00E+00	7.13E-06
190	0.00E+00	0.00E+00	5.03E-06
200	0.00E+00	0.00E+00	1.70E-05
210	0.00E+00	0.00E+00	1.57E-05
220	0.00E+00	0.00E+00	1.49E-05
230	0.00E+00	0.00E+00	1.43E-05
240	0.00E+00	0.00E+00	1.41E-05
250	0.00E+00	0.00E+00	1.39E-05
260	0.00E+00	0.00E+00	1.38E-05
270	0.00E+00	0.00E+00	1.38E-05
280	0.00E+00	0.00E+00	1.38E-05
290	0.00E+00	0.00E+00	1.38E-05
300	0.00E+00	0.00E+00	1.81E-04
310	0.00E+00	0.00E+00	1.81E-04
320	0.00E+00	0.00E+00	1.81E-04
330	0.00E+00	0.00E+00	1.81E-04
340	0.00E+00	0.00E+00	1.81E-04
350	0.00E+00	0.00E+00	1.81E-04
360	0.00E+00	0.00E+00	1.81E-04
370	0.00E+00	0.00E+00	1.81E-04
380	0.00E+00	0.00E+00	1.81E-04
390	0.00E+00	0.00E+00	1.81E-04
400	0.00E+00	0.00E+00	7.00E-04
410	0.00E+00	0.00E+00	7.00E-04
420	0.00E+00	0.00E+00	7.00E-04
430	0.00E+00	0.00E+00	7.00E-04
440	0.00E+00	0.00E+00	7.00E-04
450	0.00E+00	0.00E+00	7.00E-04
460	0.00E+00	0.00E+00	7.00E-04
470	0.00E+00	0.00E+00	7.00E-04
480	0.00E+00	0.00E+00	7.00E-04
490	0.00E+00	0.00E+00	7.00E-04
500	0.00E+00	0.00E+00	2.07E-03
510	0.00E+00	0.00E+00	2.07E-03
520	0.00E+00	0.00E+00	2.07E-03
530	0.00E+00	0.00E+00	2.07E-03
540	0.00E+00	0.00E+00	2.07E-03

C1-34

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure.

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure.

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

PFC Group		Chlorobenzene Group			2-Methylphenol Group							
Hazard	Carbon tetrachloride	Tetrachloroethene	Chlorobenzene	1,4-Dichlorobenzene	Hexachlorobenzene	2-Methylphenol	Pyridine	4-Methylphenol	3-Methylphenol	2,4-DNT	Nitrobenzene	2,4,6-Trichlorophenol
550	1.43E-25	2.86E-27	2.88E-39	7.53E-41	2.36E-42	4.30E-39	6.14E-38	2.37E-38	1.44E-39	9.52E-40	2.13E-38	0.00E+00
560	5.20E-26	1.04E-27	5.30E-40	1.39E-41	4.36E-43	8.95E-40	1.28E-38	4.92E-39	3.00E-40	1.98E-40	4.44E-39	0.00E+00
570	1.88E-26	3.75E-28	1.01E-40	2.65E-42	8.31E-44	1.87E-40	2.66E-39	1.03E-39	6.26E-41	4.13E-41	9.26E-40	0.00E+00
580	2.46E-27	4.91E-29	1.30E-41	3.41E-43	1.07E-44	3.82E-41	5.45E-40	2.10E-40	1.28E-41	8.45E-42	1.89E-40	0.00E+00
590	8.93E-28	1.78E-29	0.00E+00	0.00E+00	0.00E+00	8.85E-42	1.26E-40	4.87E-41	2.97E-42	1.96E-42	4.39E-41	0.00E+00
600	3.24E-28	6.46E-30	0.00E+00	0.00E+00	0.00E+00	1.16E-42	1.65E-41	6.35E-42	3.87E-43	2.56E-43	5.73E-42	0.00E+00
610	1.17E-28	2.34E-30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	4.25E-29	8.48E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	1.54E-29	3.07E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	5.58E-30	1.11E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	2.01E-30	4.01E-32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	7.31E-31	1.46E-32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	2.64E-31	5.27E-33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	9.56E-32	1.91E-33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	3.46E-32	6.90E-34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	1.25E-32	2.50E-34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	4.53E-33	9.03E-35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	1.64E-33	3.27E-35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	5.94E-34	1.18E-35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	2.15E-34	4.30E-36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	7.77E-35	1.55E-36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	2.81E-35	5.60E-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	2.81E-35	5.60E-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	1.02E-35	2.03E-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	3.68E-36	7.33E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	1.33E-36	2.65E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	4.82E-37	9.60E-39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	1.74E-37	3.48E-39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	6.32E-38	1.26E-39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	2.28E-38	4.55E-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	8.26E-39	1.65E-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	2.97E-39	5.92E-41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	1.08E-39	2.15E-41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	3.87E-40	7.73E-42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	1.39E-40	2.78E-42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	5.79E-41	1.16E-42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
910	1.16E-41	2.31E-43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	1.16E-41	2.31E-43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
940	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Hazard	2,4,5-Trichlorophenol	Acrylonitrile	gamma-Chlordane Group					Pentachlorophenol Group					
			gamma-Chlordane	alpha-Chlordane	Methoxychlor	Heptachlor epoxide	Toxaphene	Pentachlorophenol	Naphthalene	Hexachloroethane	Acenaphthene	Acenaphthylene	
550	2.87E-41	8.09E-37	6.17E-29	6.17E-29	1.03E-28	1.41E-28	0.00E+00	1.65E-25	1.65E-24	1.47E-25	8.35E-27	0.00E+00	7.33E-27
560	5.97E-42	1.68E-37	3.98E-29	3.98E-29	6.63E-29	9.09E-29	0.00E+00	6.07E-26	6.08E-25	5.44E-26	3.08E-27	0.00E+00	2.70E-27
570	1.25E-42	3.51E-38	2.54E-29	2.54E-29	4.23E-29	5.79E-29	0.00E+00	2.24E-26	2.24E-25	2.01E-26	1.14E-27	0.00E+00	9.97E-28
580	2.55E-43	7.18E-39	1.61E-29	1.61E-29	2.68E-29	3.68E-29	0.00E+00	8.25E-27	8.26E-26	7.39E-27	4.19E-28	0.00E+00	3.67E-28
590	5.90E-44	1.66E-39	1.01E-29	1.01E-29	1.68E-29	2.30E-29	0.00E+00	3.05E-27	3.06E-26	2.73E-27	1.55E-28	0.00E+00	1.36E-28
600	7.70E-45	2.17E-40	6.23E-30	6.23E-30	1.04E-29	1.42E-29	0.00E+00	1.13E-27	1.13E-26	1.01E-27	5.73E-29	0.00E+00	5.02E-29
610	0.00E+00	0.00E+00	3.84E-30	3.84E-30	6.40E-30	8.78E-30	0.00E+00	4.15E-28	4.16E-27	3.72E-28	2.11E-29	0.00E+00	1.85E-29
620	0.00E+00	0.00E+00	2.34E-30	2.34E-30	3.90E-30	5.34E-30	0.00E+00	1.53E-28	1.53E-27	1.37E-28	7.77E-30	0.00E+00	6.81E-30
630	0.00E+00	0.00E+00	1.42E-30	1.42E-30	2.37E-30	3.25E-30	0.00E+00	5.64E-29	5.65E-28	5.06E-29	2.86E-30	0.00E+00	2.51E-30
640	0.00E+00	0.00E+00	8.57E-31	8.57E-31	1.43E-30	1.96E-30	0.00E+00	2.07E-29	2.08E-28	1.86E-29	1.05E-30	0.00E+00	9.23E-31
650	0.00E+00	0.00E+00	5.14E-31	5.14E-31	8.56E-31	1.17E-30	0.00E+00	7.65E-30	7.66E-29	6.86E-30	3.88E-31	0.00E+00	3.41E-31
660	0.00E+00	0.00E+00	3.05E-31	3.05E-31	5.09E-31	6.97E-31	0.00E+00	2.81E-30	2.81E-29	2.52E-30	1.43E-31	0.00E+00	1.25E-31
670	0.00E+00	0.00E+00	1.81E-31	1.81E-31	3.01E-31	4.13E-31	0.00E+00	1.03E-30	1.04E-29	9.27E-31	5.25E-32	0.00E+00	4.61E-32
680	0.00E+00	0.00E+00	1.07E-31	1.07E-31	1.77E-31	2.43E-31	0.00E+00	3.81E-31	3.81E-30	3.41E-31	1.93E-32	0.00E+00	1.70E-32
690	0.00E+00	0.00E+00	6.25E-32	6.25E-32	1.04E-31	1.43E-31	0.00E+00	1.40E-31	1.40E-30	1.25E-31	7.09E-33	0.00E+00	6.22E-33
700	0.00E+00	0.00E+00	3.65E-32	3.65E-32	6.08E-32	8.33E-32	0.00E+00	5.13E-32	5.14E-31	4.60E-32	2.60E-33	0.00E+00	2.28E-33
710	0.00E+00	0.00E+00	2.11E-32	2.11E-32	3.52E-32	4.82E-32	0.00E+00	1.89E-32	1.89E-31	1.69E-32	9.59E-34	0.00E+00	8.41E-34
720	0.00E+00	0.00E+00	1.23E-32	1.23E-32	2.04E-32	2.80E-32	0.00E+00	6.92E-33	6.93E-32	6.20E-33	3.51E-34	0.00E+00	3.08E-34
730	0.00E+00	0.00E+00	7.07E-33	7.07E-33	1.18E-32	1.61E-32	0.00E+00	2.55E-33	2.56E-32	2.29E-33	1.29E-34	0.00E+00	1.14E-34
740	0.00E+00	0.00E+00	4.06E-33	4.06E-33	6.76E-33	9.26E-33	0.00E+00	9.40E-34	9.42E-33	8.43E-34	4.77E-35	0.00E+00	4.19E-35
750	0.00E+00	0.00E+00	2.33E-33	2.33E-33	3.87E-33	5.31E-33	0.00E+00	3.44E-34	3.44E-33	3.08E-34	1.74E-35	0.00E+00	1.53E-35
760	0.00E+00	0.00E+00	1.33E-33	1.33E-33	2.21E-33	3.03E-33	0.00E+00	1.26E-34	1.27E-33	1.13E-34	6.42E-36	0.00E+00	5.63E-36
770	0.00E+00	0.00E+00	7.57E-34	7.57E-34	1.26E-33	1.73E-33	0.00E+00	4.62E-35	4.62E-34	4.14E-35	2.34E-36	0.00E+00	2.06E-36
780	0.00E+00	0.00E+00	4.29E-34	4.29E-34	7.14E-34	9.78E-34	0.00E+00	1.70E-35	1.70E-34	1.52E-35	8.63E-37	0.00E+00	7.58E-37
790	0.00E+00	0.00E+00	2.43E-34	2.43E-34	4.05E-34	5.55E-34	0.00E+00	6.24E-36	6.25E-35	5.59E-36	3.17E-37	0.00E+00	2.78E-37
800	0.00E+00	0.00E+00	1.37E-34	1.37E-34	2.29E-34	3.13E-34	0.00E+00	2.29E-36	2.29E-35	2.05E-36	1.16E-37	0.00E+00	1.02E-37
810	0.00E+00	0.00E+00	7.74E-35	7.74E-35	1.29E-34	1.77E-34	0.00E+00	8.42E-37	8.43E-36	7.54E-37	4.27E-38	0.00E+00	3.75E-38
820	0.00E+00	0.00E+00	4.35E-35	4.35E-35	7.24E-35	9.92E-35	0.00E+00	3.08E-37	3.09E-36	2.76E-37	1.56E-38	0.00E+00	1.37E-38
830	0.00E+00	0.00E+00	2.43E-35	2.43E-35	4.05E-35	5.55E-35	0.00E+00	1.13E-37	1.13E-36	1.01E-37	5.73E-39	0.00E+00	5.02E-39
840	0.00E+00	0.00E+00	1.36E-35	1.36E-35	2.27E-35	3.11E-35	0.00E+00	4.14E-38	4.14E-37	3.71E-38	2.10E-39	0.00E+00	1.84E-39
850	0.00E+00	0.00E+00	7.61E-36	7.61E-36	1.27E-35	1.74E-35	0.00E+00	1.51E-38	1.52E-37	1.36E-38	7.68E-40	0.00E+00	6.74E-40
860	0.00E+00	0.00E+00	4.24E-36	4.24E-36	7.06E-36	9.68E-36	0.00E+00	5.56E-39	5.56E-38	4.98E-39	2.82E-40	0.00E+00	2.47E-40
870	0.00E+00	0.00E+00	2.36E-36	2.36E-36	3.92E-36	5.38E-36	0.00E+00	2.04E-39	2.04E-38	1.83E-39	1.03E-40	0.00E+00	9.08E-41
880	0.00E+00	0.00E+00	1.31E-36	1.31E-36	2.18E-36	2.99E-36	0.00E+00	7.44E-40	7.45E-39	6.66E-40	3.77E-41	0.00E+00	3.31E-41
890	0.00E+00	0.00E+00	7.26E-37	7.26E-37	1.21E-36	1.66E-36	0.00E+00	2.74E-40	2.74E-39	2.45E-40	1.39E-41	0.00E+00	1.22E-41
900	0.00E+00	0.00E+00	4.03E-37	4.03E-37	6.71E-37	9.19E-37	0.00E+00	1.01E-40	1.01E-39	9.08E-41	5.14E-42	0.00E+00	4.51E-42
910	0.00E+00	0.00E+00	2.22E-37	2.22E-37	3.70E-37	5.06E-37	0.00E+00	3.74E-41	3.75E-40	3.35E-41	1.90E-42	0.00E+00	1.67E-42
920	0.00E+00	0.00E+00	1.23E-37	1.23E-37	2.05E-37	2.80E-37	0.00E+00	1.39E-41	1.39E-40	1.24E-41	7.05E-43	0.00E+00	6.18E-43
930	0.00E+00	0.00E+00	6.76E-38	6.76E-38	1.13E-37	1.54E-37	0.00E+00	4.27E-42	4.28E-41	3.83E-42	2.17E-43	0.00E+00	1.90E-43
940	0.00E+00	0.00E+00	3.72E-38	3.72E-38	6.20E-38	8.50E-38	0.00E+00	3.53E-43	3.54E-42	3.17E-43	1.79E-44	0.00E+00	1.57E-44
950	0.00E+00	0.00E+00	2.05E-38	2.05E-38	3.42E-38	4.68E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	0.00E+00	0.00E+00	1.12E-38	1.12E-38	1.87E-38	2.57E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	0.00E+00	0.00E+00	6.17E-39	6.17E-39	1.03E-38	1.41E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	0.00E+00	0.00E+00	3.37E-39	3.37E-39	5.62E-39	7.70E-39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	0.00E+00	0.00E+00	1.85E-39	1.85E-39	3.09E-39	4.23E-39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	0.00E+00	0.00E+00	1.01E-39	1.01E-39	1.68E-39	2.30E-39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Hazard	Th-230	Th-232	Total
550	0.00E+00	0.00E+00	2.07E-03
560	0.00E+00	0.00E+00	2.07E-03
570	0.00E+00	0.00E+00	2.07E-03
580	0.00E+00	0.00E+00	2.07E-03
590	0.00E+00	0.00E+00	2.07E-03
600	0.00E+00	0.00E+00	4.51E-03
610	0.00E+00	0.00E+00	4.51E-03
620	0.00E+00	0.00E+00	4.51E-03
630	0.00E+00	0.00E+00	4.51E-03
640	0.00E+00	0.00E+00	4.51E-03
650	0.00E+00	0.00E+00	4.51E-03
660	0.00E+00	0.00E+00	4.51E-03
670	0.00E+00	0.00E+00	4.51E-03
680	0.00E+00	0.00E+00	4.51E-03
690	0.00E+00	0.00E+00	4.51E-03
700	0.00E+00	0.00E+00	7.86E-03
710	0.00E+00	0.00E+00	7.86E-03
720	0.00E+00	0.00E+00	7.86E-03
730	0.00E+00	0.00E+00	7.86E-03
740	0.00E+00	0.00E+00	7.86E-03
750	0.00E+00	0.00E+00	7.86E-03
760	0.00E+00	0.00E+00	7.86E-03
770	0.00E+00	0.00E+00	7.86E-03
780	0.00E+00	0.00E+00	7.86E-03
790	0.00E+00	0.00E+00	7.86E-03
800	0.00E+00	0.00E+00	1.19E-02
810	0.00E+00	0.00E+00	1.19E-02
820	0.00E+00	0.00E+00	1.19E-02
830	0.00E+00	0.00E+00	1.19E-02
840	0.00E+00	0.00E+00	1.19E-02
850	0.00E+00	0.00E+00	1.19E-02
860	0.00E+00	0.00E+00	1.19E-02
870	0.00E+00	0.00E+00	1.19E-02
880	0.00E+00	0.00E+00	1.19E-02
890	0.00E+00	0.00E+00	1.19E-02
900	0.00E+00	0.00E+00	1.64E-02
910	0.00E+00	0.00E+00	1.64E-02
920	0.00E+00	0.00E+00	1.64E-02
930	0.00E+00	0.00E+00	1.64E-02
940	0.00E+00	0.00E+00	1.64E-02
950	0.00E+00	0.00E+00	1.64E-02
960	0.00E+00	0.00E+00	1.64E-02
970	0.00E+00	0.00E+00	1.64E-02
980	0.00E+00	0.00E+00	1.64E-02
990	0.00E+00	0.00E+00	1.64E-02
1000	0.00E+00	0.00E+00	2.12E-02
1100	0.00E+00	0.00E+00	2.62E-02
1200	0.00E+00	0.00E+00	3.12E-02
1300	0.00E+00	0.00E+00	3.63E-02
1400	0.00E+00	0.00E+00	4.12E-02
1500	0.00E+00	0.00E+00	4.61E-02
1600	0.00E+00	0.00E+00	5.09E-02
1700	0.00E+00	0.00E+00	5.56E-02
1800	0.00E+00	0.00E+00	6.01E-02
1900	0.00E+00	0.00E+00	6.46E-02

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Hazard	Copper Group							Tbaltium Group							Chromium Group				
	Copper	Barium	Antimony	Manganese	Mercury	Uranium	Zinc	Thallium	Cadmium	Silver	Iron	Lead	Nickel	Beryllium	Vanadium	Argentic	Chromium	Selenium	Molybdenum
2000	1.21E-03	4.88E-04	3.61E-04	1.32E-03	2.14E-05	1.55E-03	1.36E-05	2.14E-05	5.21E-06	5.41E-07	1.65E-09	0.00E+00	1.20E-13	1.11E-07	1.87E-06	1.44E-06	2.91E-03	3.34E-03	5.78E-02
2100	1.47E-03	5.94E-04	4.39E-04	1.60E-03	2.60E-05	2.01E-03	1.66E-05	2.79E-05	6.79E-06	7.06E-07	3.59E-09	0.00E+00	4.22E-13	1.45E-07	2.44E-06	2.52E-06	3.06E-03	3.37E-03	6.07E-02
2200	1.77E-03	7.14E-04	5.27E-04	1.93E-03	3.12E-05	2.56E-03	1.99E-05	3.55E-05	8.64E-06	8.97E-07	7.35E-09	0.00E+00	1.33E-12	1.84E-07	3.10E-06	4.18E-06	3.20E-03	3.38E-03	6.34E-02
2300	2.09E-03	8.44E-04	6.24E-04	2.28E-03	3.70E-05	3.20E-03	2.36E-05	4.44E-05	1.08E-05	1.12E-06	1.42E-08	0.00E+00	3.82E-12	2.30E-07	3.88E-06	6.68E-06	3.32E-03	3.38E-03	6.59E-02
2400	2.45E-03	9.89E-04	7.30E-04	2.67E-03	4.33E-05	3.93E-03	2.76E-05	5.47E-05	1.33E-05	1.38E-06	2.61E-08	0.00E+00	1.02E-11	2.83E-07	4.77E-06	1.02E-05	3.44E-03	3.38E-03	6.81E-02
2500	2.84E-03	1.14E-03	8.46E-04	3.09E-03	5.01E-05	4.76E-03	3.20E-05	6.62E-05	1.61E-05	1.67E-06	4.59E-08	0.00E+00	2.52E-11	3.43E-07	5.78E-06	1.52E-05	3.54E-03	3.38E-03	7.02E-02
2600	3.25E-03	1.31E-03	9.69E-04	3.54E-03	5.75E-05	5.67E-03	3.67E-05	7.92E-05	1.93E-05	2.00E-06	7.77E-08	0.00E+00	5.88E-11	4.10E-07	6.91E-06	2.19E-05	3.63E-03	3.38E-03	7.20E-02
2700	3.72E-03	1.50E-03	1.11E-03	4.05E-03	6.57E-05	6.70E-03	4.19E-05	9.33E-05	2.27E-05	2.36E-06	1.27E-07	0.00E+00	1.29E-10	4.84E-07	8.15E-06	3.08E-05	3.72E-03	3.37E-03	7.37E-02
2800	4.19E-03	1.69E-03	1.25E-03	4.57E-03	7.41E-05	7.83E-03	4.73E-05	1.09E-04	2.66E-05	2.76E-06	2.01E-07	0.00E+00	2.70E-10	5.66E-07	9.53E-06	4.23E-05	3.79E-03	3.37E-03	7.51E-02
2900	4.66E-03	1.88E-03	1.39E-03	5.08E-03	8.25E-05	9.05E-03	5.26E-05	1.27E-04	3.08E-05	3.20E-06	3.10E-07	0.00E+00	5.42E-10	6.56E-07	1.11E-05	5.66E-05	3.85E-03	3.36E-03	7.64E-02
3000	5.21E-03	2.10E-03	1.55E-03	5.68E-03	9.21E-05	1.04E-02	5.88E-05	1.46E-04	3.55E-05	3.69E-06	4.65E-07	0.00E+00	1.04E-09	7.56E-07	1.27E-05	7.46E-05	3.91E-03	3.34E-03	7.75E-02
3100	5.79E-03	2.34E-03	1.73E-03	6.31E-03	1.02E-04	1.18E-02	6.54E-05	1.66E-04	4.03E-05	4.19E-06	6.82E-07	0.00E+00	1.93E-09	8.59E-07	1.45E-05	9.65E-05	3.96E-03	3.33E-03	7.85E-02
3200	6.38E-03	2.57E-03	1.90E-03	6.95E-03	1.13E-04	1.34E-02	7.19E-05	1.88E-04	4.58E-05	4.76E-06	9.80E-07	0.00E+00	3.46E-09	9.76E-07	1.64E-05	1.23E-04	4.00E-03	3.32E-03	7.93E-02
3300	7.00E-03	2.82E-03	2.09E-03	7.63E-03	1.24E-04	1.50E-02	7.89E-05	2.12E-04	5.15E-05	5.35E-06	1.38E-06	0.00E+00	5.98E-09	1.10E-06	1.85E-05	1.54E-04	4.03E-03	3.29E-03	8.00E-02
3400	7.62E-03	3.07E-03	2.27E-03	8.30E-03	1.35E-04	1.67E-02	8.59E-05	2.38E-04	5.78E-05	6.00E-06	1.91E-06	0.00E+00	1.01E-09	1.33E-06	2.07E-05	1.90E-04	4.06E-03	3.28E-03	8.05E-02
3500	8.27E-03	3.34E-03	2.47E-03	9.02E-03	1.46E-04	1.85E-02	9.33E-05	2.64E-04	6.43E-05	6.68E-06	2.61E-06	0.00E+00	1.66E-09	1.37E-06	2.31E-05	2.32E-04	4.08E-03	3.26E-03	8.09E-02
3600	8.93E-03	3.60E-03	2.66E-03	9.73E-03	1.58E-04	2.04E-02	1.01E-04	2.93E-04	7.12E-05	7.39E-06	3.50E-06	0.00E+00	2.67E-09	1.52E-06	2.55E-05	2.81E-04	4.10E-03	3.24E-03	8.12E-02
3700	9.66E-03	3.90E-03	2.88E-03	1.05E-02	1.71E-04	2.24E-02	1.09E-04	3.23E-04	7.87E-05	8.17E-06	4.61E-06	0.00E+00	4.19E-09	1.68E-06	2.82E-05	3.36E-04	4.11E-03	3.22E-03	8.14E-02
3800	1.04E-02	4.18E-03	3.09E-03	1.13E-02	1.83E-04	2.45E-02	1.17E-04	3.55E-04	8.64E-05	8.97E-06	6.04E-06	0.00E+00	6.45E-09	1.84E-06	3.10E-05	3.96E-04	4.11E-03	3.20E-03	8.15E-02
3900	1.11E-02	4.47E-03	3.30E-03	1.21E-02	1.96E-04	2.66E-02	1.25E-04	3.88E-04	9.45E-05	9.82E-06	7.77E-06	0.00E+00	9.73E-09	2.01E-06	3.39E-05	4.65E-04	4.11E-03	3.18E-03	8.15E-02
4000	1.18E-02	4.78E-03	3.53E-03	1.29E-02	2.09E-04	2.89E-02	1.34E-04	4.23E-04	1.02E-04	1.07E-05	9.93E-06	0.00E+00	1.45E-09	2.19E-06	3.70E-05	5.40E-04	4.11E-03	3.16E-03	8.14E-02
4100	1.26E-02	5.09E-03	3.76E-03	1.37E-02	2.23E-04	3.12E-02	1.42E-04	4.61E-04	1.12E-04	1.16E-05	1.25E-05	0.00E+00	2.11E-09	2.39E-06	4.02E-05	6.24E-04	4.10E-03	3.13E-03	8.13E-02
4200	1.34E-02	5.40E-03	1.99E-03	1.46E-02	2.36E-04	3.16E-02	1.51E-04	4.99E-04	1.21E-04	1.26E-05	1.57E-05	0.00E+00	3.01E-07	2.59E-06	4.36E-05	7.12E-04	4.09E-03	3.10E-03	8.11E-02
4300	1.42E-02	5.72E-03	4.23E-03	1.54E-02	2.51E-04	3.60E-02	1.60E-04	5.39E-04	1.31E-04	1.36E-05	1.94E-05	0.00E+00	4.29E-07	2.79E-06	4.71E-05	8.10E-04	4.08E-03	3.09E-03	8.09E-02
4400	1.50E-02	6.05E-03	4.47E-03	1.63E-02	2.65E-04	3.85E-02	1.69E-04	5.81E-04	1.41E-04	1.47E-05	2.38E-05	0.00E+00	5.98E-07	3.01E-06	5.07E-05	9.14E-04	4.06E-03	3.06E-03	8.05E-02
4500	1.58E-02	6.38E-03	4.72E-03	1.72E-02	2.80E-04	4.12E-02	1.78E-04	6.24E-04	1.52E-04	1.58E-05	2.92E-05	0.00E+00	8.24E-07	3.23E-06	5.45E-05	1.03E-03	4.04E-03	3.05E-03	8.01E-02
4600	1.66E-02	6.71E-03	4.96E-03	1.81E-02	2.94E-04	4.38E-02	1.87E-04	6.69E-04	1.63E-04	1.69E-05	3.52E-05	0.00E+00	1.12E-06	3.47E-06	5.84E-05	1.14E-03	4.02E-03	3.02E-03	7.96E-02
4700	1.75E-02	7.05E-03	5.21E-03	1.90E-02	3.09E-04	4.65E-02	1.97E-04	7.16E-04	1.74E-04	1.81E-05	4.23E-05	0.00E+00	1.51E-06	3.71E-06	6.25E-05	1.27E-03	3.99E-03	3.00E-03	7.91E-02
4800	1.83E-02	7.39E-03	5.46E-03	1.99E-02	3.23E-04	4.92E-02	2.06E-04	7.64E-04	1.86E-04	1.93E-05	5.03E-05	0.00E+00	2.01E-06	3.96E-06	6.67E-05	1.40E-03	3.96E-03	2.97E-03	7.85E-02
4900	1.91E-02	7.72E-03	5.71E-03	2.09E-02	3.38E-04	5.20E-02	2.16E-04	8.14E-04	1.98E-04	2.06E-05	5.97E-05	0.00E+00	2.66E-06	4.22E-06	7.11E-05	1.54E-03	3.93E-03	2.94E-03	7.79E-02
5000	2.00E-02	8.08E-03	5.97E-03	2.18E-02	3.54E-04	5.49E-02	2.26E-04	8.67E-04	2.11E-04	2.19E-05	7.04E-05	0.00E+00	3.46E-06	4.49E-06	7.57E-05	1.69E-03	3.90E-03	2.93E-03	7.73E-02
5100	2.09E-02	8.43E-03	6.21E-03	2.28E-02	3.69E-04	5.77E-02	2.36E-04	9.17E-04	2.23E-04	2.32E-05	8.24E-05	0.00E+00	4.49E-06	4.75E-06	8.00E-05	1.83E-03	3.86E-03	2.90E-03	7.66E-02
5200	2.17E-02	8.77E-03	6.48E-03	2.37E-02	3.84E-04	6.06E-02	2.45E-04	9.75E-04	2.37E-04	2.46E-05	9.60E-05	0.00E+00	5.78E-06	5.05E-06	8.51E-05	1.99E-03	3.83E-03	2.86E-03	7.59E-02
5300	2.26E-02	9.12E-03	6.74E-03	2.46E-02	3.99E-04	6.36E-02	2.55E-04	1.03E-03	2.49E-04	2.59E-05	1.11E-04	0.00E+00	7.34E-06	5.31E-06	8.95E-05	2.15E-03	3.79E-03	2.84E-03	7.51E-02
5400	2.35E-02	9.47E-03	7.00E-03	2.56E-02	4.15E-04	6.66E-02	2.65E-04	1.08E-03	2.64E-04	2.74E-05	1.28E-04	0.00E+00	9.27E-06	5.61E-06	9.46E-05	2.32E-03	3.76E-03	2.81E-03	7.44E-02
5500	2.43E-02	9.83E-03	7.26E-03	2.65E-02	4.30E-04	6.95E-02	2.75E-04	1.14E-03	2.78E-04	2.89E-05	1.47E-04	0.00E+00	1.17E-05	5.92E-06	9.97E-05	2.50E-03	3.72E-03	2.80E-03	7.37E-02
5600	2.52E-02	1.02E-02	7.52E-03	2.75E-02	4.46E-04	7.25E-02	2.84E-04	1.20E-03	2.92E-04	3.03E-05	1.68E-04	0.00E+00	1.45E-05	6.22E-06	1.05E-04	2.65E-03	3.68E-03	2.77E-03	7.29E-02
5700	2.61E-02	1.05E-02	7.78E-03	2.84E-02	4.61E-04	7.56E-02	2.94E-04	1.26E-03	3.06E-04	3.18E-05	1.91E-04	0.00E+00	1.79E-05	6.52E-06	1.10E-04	2.85E-03	3.64E-03	2.75E-03	7.21E-02
5800	2.70E-02	1.09E-02	8.05E-03	2.94E-02	4.77E-04	7.87E-02	3.05E-04	1.33E-03	3.22E-04	3.35E-05	2.17E-04	0.00E+00	2.21E-05	6.87E-06	1.16E-04	3.03E-03	3.60E-03	2.72E-03	7.13E-02
5900	2.79E-02	1.13E-02	8.31E-03	3.04E-02	4.93E-04	8.17E-02	3.15E-04	1.38E-03	3.37E-04	3.50E-05	2.45E-04	0.00E+00	2.70E-05	7.17E-06	1.21E-04	3.21E-03	3.55E-03	2.69E-03	7.04E-02
6000	2.88E-02	1.16E-02	8.58E-																

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure.

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

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Hazard	Th-230	Th-232	Total
2000	0.00E+00	0.00E+00	6.90E-02
2100	0.00E+00	0.00E+00	7.33E-02
2200	0.00E+00	0.00E+00	7.76E-02
2300	0.00E+00	0.00E+00	8.18E-02
2400	0.00E+00	0.00E+00	8.59E-02
2500	0.00E+00	0.00E+00	8.99E-02
2600	0.00E+00	0.00E+00	9.39E-02
2700	0.00E+00	0.00E+00	9.81E-02
2800	0.00E+00	0.00E+00	1.02E-01
2900	0.00E+00	0.00E+00	1.06E-01
3000	0.00E+00	0.00E+00	1.10E-01
3100	0.00E+00	0.00E+00	1.14E-01
3200	0.00E+00	0.00E+00	1.18E-01
3300	0.00E+00	0.00E+00	1.22E-01
3400	0.00E+00	0.00E+00	1.27E-01
3500	0.00E+00	0.00E+00	1.31E-01
3600	0.00E+00	0.00E+00	1.35E-01
3700	0.00E+00	0.00E+00	1.39E-01
3800	0.00E+00	0.00E+00	1.43E-01
3900	0.00E+00	0.00E+00	1.48E-01
4000	0.00E+00	0.00E+00	1.52E-01
4100	0.00E+00	0.00E+00	1.57E-01
4200	0.00E+00	0.00E+00	1.61E-01
4300	0.00E+00	0.00E+00	1.66E-01
4400	0.00E+00	0.00E+00	1.70E-01
4500	0.00E+00	0.00E+00	1.75E-01
4600	0.00E+00	0.00E+00	1.79E-01
4700	0.00E+00	0.00E+00	1.84E-01
4800	0.00E+00	0.00E+00	1.89E-01
4900	0.00E+00	0.00E+00	1.93E-01
5000	0.00E+00	0.00E+00	1.98E-01
5100	0.00E+00	0.00E+00	2.03E-01
5200	0.00E+00	0.00E+00	2.08E-01
5300	0.00E+00	0.00E+00	2.13E-01
5400	0.00E+00	0.00E+00	2.18E-01
5500	0.00E+00	0.00E+00	2.23E-01
5600	0.00E+00	0.00E+00	2.27E-01
5700	0.00E+00	0.00E+00	2.32E-01
5800	0.00E+00	0.00E+00	2.38E-01
5900	0.00E+00	0.00E+00	2.42E-01
6000	0.00E+00	0.00E+00	2.47E-01
6100	0.00E+00	0.00E+00	2.52E-01
6200	0.00E+00	0.00E+00	2.57E-01
6300	0.00E+00	0.00E+00	2.63E-01
6400	0.00E+00	0.00E+00	2.68E-01
6500	0.00E+00	0.00E+00	2.73E-01
6600	0.00E+00	0.00E+00	2.77E-01
6700	0.00E+00	0.00E+00	2.82E-01
6800	0.00E+00	0.00E+00	2.87E-01
6900	0.00E+00	0.00E+00	2.93E-01
7000	0.00E+00	0.00E+00	2.98E-01
7100	0.00E+00	0.00E+00	3.02E-01
7200	0.00E+00	0.00E+00	3.08E-01
7300	0.00E+00	0.00E+00	3.12E-01
7400	0.00E+00	0.00E+00	3.17E-01

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Hazard	Copper Group						Thallium Group								Chromium Group				
	Copper	Barium	Antimony	Manganese	Mercury	Uranium	Zinc	Thallium	Cadmium	Silver	Iron	Lead	Nickel	Beryllium	Vanadium	Arsenic	Chromium	Selenium	Molybdenum
7500	4.19E-02	1.69E-02	1.25E-02	4.57E-02	7.41E-04	1.31E-01	4.73E-04	2.53E-03	6.14E-04	6.38E-05	1.13E-03	0.00E+00	3.52E-04	1.31E-05	2.20E-04	6.42E-03	2.87E-03	2.28E-03	5.69E-02
7600	4.26E-02	1.72E-02	1.27E-02	4.65E-02	7.54E-04	1.35E-01	4.81E-04	2.60E-03	6.32E-04	6.57E-05	1.22E-03	0.00E+00	4.02E-04	1.35E-05	2.27E-04	6.64E-03	2.83E-03	2.25E-03	5.61E-02
7700	4.34E-02	1.75E-02	1.29E-02	4.73E-02	7.67E-04	1.37E-01	4.89E-04	2.68E-03	6.51E-04	6.76E-05	1.31E-03	0.00E+00	4.58E-04	1.39E-05	2.34E-04	6.84E-03	2.79E-03	2.23E-03	5.53E-02
7800	4.45E-02	1.79E-02	1.33E-02	4.85E-02	7.86E-04	1.40E-01	5.02E-04	2.76E-03	6.71E-04	6.97E-05	1.41E-03	0.00E+00	5.18E-04	1.43E-05	2.41E-04	7.04E-03	2.75E-03	2.20E-03	5.45E-02
7900	4.52E-02	1.82E-02	1.35E-02	4.92E-02	7.99E-04	1.43E-01	5.10E-04	2.83E-03	6.89E-04	7.16E-05	1.52E-03	0.00E+00	5.85E-04	1.47E-05	2.47E-04	7.23E-03	2.71E-03	2.18E-03	5.37E-02
8000	4.59E-02	1.85E-02	1.37E-02	5.00E-02	8.12E-04	1.47E-01	5.18E-04	2.91E-03	7.08E-04	7.35E-05	1.62E-03	0.00E+00	6.58E-04	1.51E-05	2.54E-04	7.46E-03	2.67E-03	2.15E-03	5.29E-02
8100	4.66E-02	1.88E-02	1.39E-02	5.08E-02	8.25E-04	1.50E-01	5.26E-04	2.99E-03	7.28E-04	7.56E-05	1.74E-03	0.00E+00	7.18E-04	1.55E-05	2.61E-04	7.65E-03	2.63E-03	2.12E-03	5.21E-02
8200	4.77E-02	1.93E-02	1.42E-02	5.20E-02	8.44E-04	1.52E-01	5.39E-04	3.07E-03	7.46E-04	7.75E-05	1.86E-03	0.00E+00	8.27E-04	1.59E-05	2.68E-04	7.85E-03	2.59E-03	2.11E-03	5.14E-02
8300	4.85E-02	1.96E-02	1.45E-02	5.28E-02	8.57E-04	1.56E-01	5.47E-04	3.15E-03	7.66E-04	7.96E-05	1.98E-03	0.00E+00	9.24E-04	1.63E-05	2.75E-04	8.05E-03	2.55E-03	2.08E-03	5.06E-02
8400	4.92E-02	1.99E-02	1.47E-02	5.36E-02	8.70E-04	1.59E-01	5.55E-04	3.23E-03	7.85E-04	8.15E-05	2.11E-03	0.00E+00	1.03E-03	1.67E-05	2.82E-04	8.25E-03	2.51E-03	2.06E-03	4.98E-02
8500	4.99E-02	2.02E-02	1.49E-02	5.44E-02	8.82E-04	1.61E-01	5.63E-04	3.31E-03	8.05E-04	8.36E-05	2.25E-03	0.00E+00	1.14E-03	1.71E-05	2.89E-04	8.45E-03	2.47E-03	2.03E-03	4.90E-02
8600	5.07E-02	2.04E-02	1.51E-02	5.52E-02	8.95E-04	1.64E-01	5.71E-04	3.39E-03	8.25E-04	8.57E-05	2.38E-03	0.00E+00	1.27E-03	1.76E-05	2.96E-04	8.65E-03	2.44E-03	2.00E-03	4.83E-02
8700	5.14E-02	2.07E-02	1.53E-02	5.60E-02	9.08E-04	1.67E-01	5.80E-04	3.47E-03	8.43E-04	8.76E-05	2.52E-03	0.00E+00	1.41E-03	1.80E-05	3.03E-04	8.85E-03	2.40E-03	1.98E-03	4.75E-02
8800	5.21E-02	2.10E-02	1.55E-02	5.68E-02	9.21E-04	1.70E-01	5.88E-04	3.55E-03	8.64E-04	8.97E-05	2.67E-03	0.00E+00	1.55E-03	1.84E-05	3.10E-04	9.05E-03	2.36E-03	1.96E-03	4.68E-02
8900	5.32E-02	2.15E-02	1.59E-02	5.80E-02	9.40E-04	1.73E-01	6.00E-04	3.63E-03	8.82E-04	9.16E-05	2.83E-03	0.00E+00	1.71E-03	1.88E-05	3.16E-04	9.25E-03	2.33E-03	1.94E-03	4.62E-02
9000	5.39E-02	2.18E-02	1.61E-02	5.88E-02	9.53E-04	1.75E-01	6.08E-04	3.71E-03	9.02E-04	9.37E-05	2.98E-03	0.00E+00	1.89E-03	1.92E-05	3.24E-04	9.45E-03	2.30E-03	1.92E-03	4.55E-02
9100	5.47E-02	2.21E-02	1.63E-02	5.96E-02	9.66E-04	1.79E-01	6.17E-04	3.78E-03	9.20E-04	9.56E-05	3.16E-03	0.00E+00	2.07E-03	1.96E-05	3.30E-04	9.65E-03	2.26E-03	1.90E-03	4.47E-02
9200	5.54E-02	2.24E-02	1.65E-02	6.04E-02	9.79E-04	1.81E-01	6.25E-04	3.87E-03	9.41E-04	9.77E-05	3.32E-03	0.00E+00	2.27E-03	2.00E-05	3.38E-04	9.85E-03	2.22E-03	1.87E-03	4.40E-02
9300	5.61E-02	2.27E-02	1.67E-02	6.12E-02	9.92E-04	1.84E-01	6.33E-04	3.95E-03	9.61E-04	9.99E-05	3.50E-03	0.00E+00	2.49E-03	2.05E-05	3.45E-04	1.00E-02	2.19E-03	1.84E-03	4.34E-02
9400	5.69E-02	2.30E-02	1.70E-02	6.20E-02	1.00E-03	1.87E-01	6.41E-04	4.03E-03	9.79E-04	1.02E-04	3.70E-03	0.00E+00	2.72E-03	2.09E-05	3.51E-04	1.02E-02	2.15E-03	1.82E-03	4.27E-02
9500	5.76E-02	2.32E-02	1.72E-02	6.27E-02	1.02E-03	1.90E-01	6.50E-04	4.11E-03	9.99E-04	1.04E-04	3.88E-03	0.00E+00	2.97E-03	2.13E-05	3.59E-04	1.04E-02	2.13E-03	1.80E-03	4.21E-02
9600	5.83E-02	2.35E-02	1.74E-02	6.35E-02	1.03E-03	1.92E-01	6.58E-04	4.18E-03	1.02E-03	1.06E-04	4.08E-03	0.00E+00	3.23E-03	2.17E-05	3.65E-04	1.06E-02	2.09E-03	1.78E-03	4.14E-02
9700	5.90E-02	2.38E-02	1.76E-02	6.43E-02	1.04E-03	1.94E-01	6.66E-04	4.27E-03	1.04E-03	1.08E-04	4.28E-03	0.00E+00	3.52E-03	2.21E-05	3.73E-04	1.08E-02	2.06E-03	1.76E-03	4.09E-02
9800	5.98E-02	2.41E-02	1.78E-02	6.51E-02	1.06E-03	1.98E-01	6.74E-04	4.34E-03	1.06E-03	1.10E-04	4.48E-03	0.00E+00	3.82E-03	2.25E-05	3.79E-04	1.10E-02	2.03E-03	1.74E-03	4.02E-02
9900	6.05E-02	2.44E-02	1.80E-02	6.59E-02	1.07E-03	2.00E-01	6.82E-04	4.43E-03	1.08E-03	1.12E-04	4.70E-03	0.00E+00	4.15E-03	2.29E-05	3.86E-04	1.12E-02	2.00E-03	1.71E-03	3.96E-02
10000	6.12E-02	2.47E-02	1.83E-02	6.67E-02	1.08E-03	2.02E-01	6.91E-04	4.50E-03	1.09E-03	1.14E-04	4.90E-03	0.00E+00	4.49E-03	2.33E-05	3.93E-04	1.14E-02	1.97E-03	1.70E-03	3.90E-02
Maximum Hazard	6.12E-02	2.47E-02	1.83E-02	6.67E-02	1.08E-03	2.02E-01	6.91E-04	4.50E-03	1.09E-03	1.14E-04	4.90E-03	0.00E+00	4.49E-03	2.33E-05	3.93E-04	1.14E-02	4.11E-03	3.38E-03	8.15E-02

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Hazard	2-Butanone Group		Benzene Group						Vinyl Chloride Group						
	2-Butanone	Benzene	Ethylbenzene	Xylene	m-Xylene	p-Xylene	<i>o</i> -Xylene	Vinyl chloride	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	Chloroform	1,1-DCE	1,2-DCE	Trichloroethene
7500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Maximum Hazard	7.14E-10	6.49E-11	1.86E-13	1.31E-13	2.69E-14	0.00E+00	2.19E-14	4.80E-07	8.99E-07	1.58E-07	7.56E-08	7.32E-06	3.42E-08	1.80E-10	4.81E-08

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Hazard	Trichloroethene Group		Chlorobenzene Group				2-Methylphenol Group					
	Carbon tetrachloride	Tetrachloroethene	Chlorobenzene	1,4-Dichlorobenzene	Hexachlorobenzene	2-Methylphenol	Pyridine	4-Methylphenol	3-Methylphenol	2,4-DNT	Nitrobenzene	2,4,6-Trichlorophenol
7500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Maximum Hazard	1.39E-08	2.78E-10	1.54E-10	4.02E-12	1.26E-13	1.25E-10	1.79E-09	6.88E-10	4.19E-11	2.77E-11	6.21E-10	0.00E+00

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Hazard	gamma-Chlordane Group						Pentachlorophenol Group						
	2,4,5-Trichlorophenol	Acrylonitrile	gamma-Chlordane	alpha-Chlordane	Methoxychlor	Heptachlor epoxide	Toxaphene	Pentachlorophenol	Naphthalene	Hexachloroethane	Acenaphthene	Acenaphthylene	Fluorene
7500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Maximum Hazard	8.35E-13	2.35E-08	5.18E-27	5.18E-27	8.63E-27	1.18E-26	0.00E+00	8.85E-10	8.86E-09	7.93E-10	4.49E-11	0.00E+00	3.94E-11

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Hazard	Benzo(a)pyrene Group					PCB Group		Tc-99 Group		U-238 Group					
	Benzo(a)pyrene	Dioxin/Furan	PCB	Tc-99	Np-237	U-238	U-234	U-235	Ra-226	Pu-238	Pu-239	Pu-240			
7500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
7600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
7700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
7800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
7900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
8900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
10000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Maximum Hazard	0.00E+00	2.58E-12	7.34E-12	1.04E-10	6.21E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

Table C.1.2. Hazard results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Hazard	Th-230	Th-232	Total
7500	0.00E+00	0.00E+00	3.23E-01
7600	0.00E+00	0.00E+00	3.28E-01
7700	0.00E+00	0.00E+00	3.32E-01
7800	0.00E+00	0.00E+00	3.38E-01
7900	0.00E+00	0.00E+00	3.43E-01
8000	0.00E+00	0.00E+00	3.48E-01
8100	0.00E+00	0.00E+00	3.53E-01
8200	0.00E+00	0.00E+00	3.58E-01
8300	0.00E+00	0.00E+00	3.63E-01
8400	0.00E+00	0.00E+00	3.68E-01
8500	0.00E+00	0.00E+00	3.72E-01
8600	0.00E+00	0.00E+00	3.77E-01
8700	0.00E+00	0.00E+00	3.81E-01
8800	0.00E+00	0.00E+00	3.86E-01
8900	0.00E+00	0.00E+00	3.93E-01
9000	0.00E+00	0.00E+00	3.97E-01
9100	0.00E+00	0.00E+00	4.02E-01
9200	0.00E+00	0.00E+00	4.06E-01
9300	0.00E+00	0.00E+00	4.11E-01
9400	0.00E+00	0.00E+00	4.16E-01
9500	0.00E+00	0.00E+00	4.21E-01
9600	0.00E+00	0.00E+00	4.25E-01
9700	0.00E+00	0.00E+00	4.30E-01
9800	0.00E+00	0.00E+00	4.35E-01
9900	0.00E+00	0.00E+00	4.40E-01
10000	0.00E+00	0.00E+00	4.44E-01
Maximum Hazard	0.00E+00	0.00E+00	4.44E-01

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure.

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Cancer Risk	Molybdenum	2-Butanone Group	Benzene Group						Vinyl Chloride Group						Trichloroethylene	
			Benzene	Ethylbenzene	Xylene	m-Xylene	p-Xylene	o-Xylene	Vinyl chloride	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	Chloroform	1,1-DCE	1,2-DCE	
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
10	0.00E+00	0.00E+00	4.39E-16	1.16E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-16	0.00E+00	0.00E+00	1.76E-18	7.12E-18	1.32E-17	0.00E+00	4.52E-15
20	0.00E+00	0.00E+00	8.49E-16	2.24E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-15	0.00E+00	0.00E+00	3.93E-17	1.59E-16	2.95E-16	0.00E+00	4.94E-14
30	0.00E+00	0.00E+00	2.81E-16	7.41E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-14	0.00E+00	0.00E+00	1.36E-16	5.50E-16	1.02E-15	0.00E+00	7.98E-14
40	0.00E+00	0.00E+00	9.17E-17	2.42E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-14	0.00E+00	0.00E+00	2.36E-16	9.56E-16	1.77E-15	0.00E+00	6.47E-14
50	0.00E+00	0.00E+00	1.66E-17	4.38E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-14	0.00E+00	0.00E+00	2.83E-16	1.15E-15	2.12E-15	0.00E+00	3.79E-14
60	0.00E+00	0.00E+00	2.05E-16	5.42E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-12	0.00E+00	0.00E+00	1.77E-14	7.18E-14	1.33E-13	0.00E+00	3.50E-13
70	0.00E+00	0.00E+00	3.58E-16	9.47E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-12	0.00E+00	0.00E+00	3.71E-14	1.50E-13	2.78E-13	0.00E+00	4.45E-13
80	0.00E+00	0.00E+00	3.53E-16	9.33E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-12	0.00E+00	0.00E+00	5.41E-14	2.19E-13	4.06E-13	0.00E+00	3.08E-13
90	0.00E+00	0.00E+00	2.60E-16	6.86E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-11	0.00E+00	0.00E+00	6.86E-14	2.78E-13	5.14E-13	0.00E+00	2.12E-13
100	0.00E+00	0.00E+00	2.46E-16	6.49E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-11	0.00E+00	0.00E+00	1.53E-13	6.19E-13	1.14E-12	0.00E+00	2.00E-13
110	0.00E+00	0.00E+00	2.24E-16	5.91E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-11	0.00E+00	0.00E+00	3.22E-13	1.30E-12	2.41E-12	0.00E+00	2.12E-13
120	0.00E+00	0.00E+00	1.51E-16	4.00E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-10	0.00E+00	0.00E+00	5.85E-13	2.37E-12	4.39E-12	0.00E+00	1.88E-13
130	0.00E+00	0.00E+00	8.08E-17	2.13E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-10	0.00E+00	0.00E+00	9.30E-13	3.77E-12	6.97E-12	0.00E+00	1.43E-13
140	0.00E+00	0.00E+00	3.87E-17	1.02E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-10	0.00E+00	0.00E+00	1.49E-12	6.04E-12	1.12E-11	0.00E+00	1.05E-13
150	0.00E+00	0.00E+00	1.73E-17	4.56E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-10	0.00E+00	0.00E+00	2.06E-12	8.37E-12	1.55E-11	0.00E+00	7.28E-14
160	0.00E+00	0.00E+00	6.75E-18	1.78E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-10	0.00E+00	0.00E+00	2.39E-12	9.69E-12	1.79E-11	0.00E+00	4.57E-14
170	0.00E+00	0.00E+00	2.37E-18	6.25E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-10	0.00E+00	0.00E+00	2.36E-12	9.56E-12	1.77E-11	0.00E+00	2.66E-14
180	0.00E+00	0.00E+00	7.43E-19	1.96E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-10	0.00E+00	0.00E+00	1.89E-12	7.64E-12	1.41E-11	0.00E+00	1.40E-14
190	0.00E+00	0.00E+00	2.10E-19	5.54E-21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-10	0.00E+00	0.00E+00	1.33E-12	5.38E-12	9.95E-12	0.00E+00	6.71E-15
200	0.00E+00	0.00E+00	5.69E-20	1.50E-21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-10	0.00E+00	0.00E+00	8.58E-13	3.48E-12	6.44E-12	0.00E+00	3.10E-15
210	0.00E+00	0.00E+00	1.50E-20	3.97E-22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-11	0.00E+00	0.00E+00	5.22E-12	2.12E-12	3.91E-12	0.00E+00	1.40E-15
220	0.00E+00	0.00E+00	3.82E-21	1.01E-22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-11	0.00E+00	0.00E+00	2.94E-13	1.19E-12	2.21E-12	0.00E+00	6.07E-16
230	0.00E+00	0.00E+00	9.27E-22	2.45E-23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-11	0.00E+00	0.00E+00	1.58E-13	6.42E-13	1.19E-12	0.00E+00	2.51E-16
240	0.00E+00	0.00E+00	2.21E-22	5.84E-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-11	0.00E+00	0.00E+00	8.23E-14	3.33E-13	6.17E-13	0.00E+00	1.02E-16
250	0.00E+00	0.00E+00	5.22E-23	1.38E-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-12	0.00E+00	0.00E+00	4.18E-14	1.69E-13	3.13E-13	0.00E+00	4.08E-17
260	0.00E+00	0.00E+00	1.22E-23	3.21E-25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-12	0.00E+00	0.00E+00	2.08E-14	8.44E-14	1.56E-13	0.00E+00	1.62E-17
270	0.00E+00	0.00E+00	2.81E-24	7.41E-26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-12	0.00E+00	0.00E+00	1.02E-14	4.12E-14	7.62E-14	0.00E+00	6.30E-18
280	0.00E+00	0.00E+00	6.36E-25	1.68E-26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-13	0.00E+00	0.00E+00	4.93E-15	2.00E-14	3.69E-14	0.00E+00	2.42E-18
290	0.00E+00	0.00E+00	1.44E-25	3.81E-27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-13	0.00E+00	0.00E+00	2.36E-15	9.56E-15	1.77E-14	0.00E+00	9.31E-19
300	0.00E+00	0.00E+00	3.22E-26	9.51E-28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-13	0.00E+00	0.00E+00	1.12E-15	4.55E-15	8.42E-15	0.00E+00	3.54E-19
310	0.00E+00	0.00E+00	7.19E-27	1.90E-28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-14	0.00E+00	0.00E+00	5.28E-16	2.14E-15	3.96E-15	0.00E+00	1.34E-19
320	0.00E+00	0.00E+00	1.60E-27	4.22E-29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-14	0.00E+00	0.00E+00	2.49E-16	1.01E-15	1.87E-15	0.00E+00	5.01E-20
330	0.00E+00	0.00E+00	3.53E-28	9.33E-30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-14	0.00E+00	0.00E+00	1.16E-16	4.72E-16	8.73E-16	0.00E+00	1.87E-20
340	0.00E+00	0.00E+00	7.69E-29	2.03E-30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-15	0.00E+00	0.00E+00	5.43E-17	2.20E-16	4.07E-16	0.00E+00	6.99E-21
350	0.00E+00	0.00E+00	1.69E-29	4.47E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-15	0.00E+00	0.00E+00	2.52E-17	1.02E-16	1.89E-16	0.00E+00	2.59E-21
360	0.00E+00	0.00E+00	3.69E-30	9.74E-32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-15	0.00E+00	0.00E+00	1.18E-17	4.76E-17	8.81E-17	0.00E+00	9.60E-22
370	0.00E+00	0.00E+00	8.00E-31	2.11E-32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-16	0.00E+00	0.00E+00	5.41E-18	2.19E-17	4.06E-17	0.00E+00	3.53E-22
380	0.00E+00	0.00E+00	1.73E-31	4.57E-33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-16	0.00E+00	0.00E+00	2.50E-18	1.01E-17	1.88E-17	0.00E+00	1.30E-22
390	0.00E+00	0.00E+00	3.74E-32	9.88E-34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-16	0.00E+00	0.00E+00	1.16E-18	4.69E-18	8.67E-18	0.00E+00	4.79E-23
400	0.00E+00	0.00E+00	8.03E-33	2.12E-34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-17	0.00E+00	0.00E+00	5.35E-19	2.17E-18	4.01E-18	0.00E+00	1.75E-23
410	0.00E+00	0.00E+00	1.73E-33	4.57E-35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-17	0.00E+00	0.00E+00	2.47E-19	1.00E-18	1.85E-18	0.00E+00	6.42E-24
420	0.00E+00	0.00E+00	3.71E-34	9.81E-36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-17	0.00E+00	0.00E+00	1.13E-19	4.59E-19	8.50E-19	0.00E+00	2.34E-24
430	0.00E+00	0.00E+00	7.97E-35	2.11E-36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-18	0.00E+00	0.00E+00	5.22E-20	2.12E-19	3.91E-19	0.00E+00	8.55E-25
440	0.00E+00	0.00E+00	1.70E-35	4.50E-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-18	0.00E+00	0.00E+00	2.41E-20	9.75E-20	1.80E-19	0.00E+00	3.13E-25
450	0.00E+00	0.00E+00	3.64E-36	9.60E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-18	0.00E+00	0.00E+00	1.10E-20	4.47E-20	8.28E-20	0.00E+00	1.14E-25
460	0.00E+00	0.00E+00	7.74E-37	2.04E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-19	0.00E+00	0.00E+00	5.07E-21	2.06E-20	3.80E-20	0.00E+00	4.15E-26
470	0.00E+00	0.00E+00	1.65E-37	4.35E-39	0.00E+00	0.00E+00										

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Cancer Risk	PFC Group		Chlorobenzene Group			2-Methylphenol Group						
	Carbon tetrachloride	Tetrachloroethene	Chlorobenzene	1,4-Dichlorobenzene	Hexachlorobenzene	2-Methylphenol	Pyridine	4-Methylphenol	3-Methylphenol	2,4-DNT	Nitrobenzene	2,4,6-Trichlorophenol
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	1.49E-15	4.08E-16	0.00E+00	1.13E-17	9.91E-19	0.00E+00	0.00E+00	0.00E+00	6.21E-15	0.00E+00	1.17E-17	
20	1.62E-14	4.46E-15	0.00E+00	3.41E-17	3.00E-18	0.00E+00	0.00E+00	0.00E+00	1.08E-14	0.00E+00	2.03E-17	
30	2.62E-14	7.21E-15	0.00E+00	1.12E-17	9.84E-19	0.00E+00	0.00E+00	0.00E+00	4.37E-15	0.00E+00	8.22E-18	
40	2.13E-14	5.85E-15	0.00E+00	8.42E-18	7.31E-19	0.00E+00	0.00E+00	0.00E+00	1.08E-15	0.00E+00	2.03E-18	
50	1.25E-14	3.43E-15	0.00E+00	1.54E-18	1.36E-19	0.00E+00	0.00E+00	0.00E+00	1.61E-16	0.00E+00	3.03E-19	
60	1.15E-13	3.17E-14	0.00E+00	1.78E-16	1.57E-17	0.00E+00	0.00E+00	0.00E+00	1.27E-15	0.00E+00	2.38E-18	
70	1.46E-13	4.02E-14	0.00E+00	4.70E-16	4.14E-17	0.00E+00	0.00E+00	0.00E+00	1.78E-15	0.00E+00	3.35E-18	
80	1.01E-13	2.78E-14	0.00E+00	5.64E-16	4.96E-17	0.00E+00	0.00E+00	0.00E+00	1.58E-15	0.00E+00	2.96E-18	
90	6.96E-14	1.91E-14	0.00E+00	4.41E-16	3.88E-17	0.00E+00	0.00E+00	0.00E+00	1.12E-15	0.00E+00	2.11E-18	
100	6.58E-14	1.81E-14	0.00E+00	3.93E-16	3.46E-17	0.00E+00	0.00E+00	0.00E+00	1.09E-15	0.00E+00	2.05E-18	
110	6.96E-14	1.91E-14	0.00E+00	3.94E-16	3.47E-17	0.00E+00	0.00E+00	0.00E+00	9.79E-16	0.00E+00	1.84E-18	
120	6.18E-14	1.70E-14	0.00E+00	2.85E-16	2.31E-17	0.00E+00	0.00E+00	0.00E+00	6.47E-16	0.00E+00	1.22E-18	
130	4.71E-14	1.30E-14	0.00E+00	1.57E-16	1.19E-17	0.00E+00	0.00E+00	0.00E+00	3.35E-16	0.00E+00	6.11E-19	
140	3.44E-14	9.45E-15	0.00E+00	7.45E-17	6.56E-18	0.00E+00	0.00E+00	0.00E+00	1.56E-16	0.00E+00	2.94E-19	
150	2.39E-14	6.58E-15	0.00E+00	3.33E-17	2.93E-18	0.00E+00	0.00E+00	0.00E+00	6.69E-17	0.00E+00	1.26E-19	
160	1.50E-14	4.13E-15	0.00E+00	1.28E-17	1.12E-18	0.00E+00	0.00E+00	0.00E+00	2.47E-17	0.00E+00	4.65E-20	
170	8.74E-15	2.40E-15	0.00E+00	4.28E-18	3.77E-19	0.00E+00	0.00E+00	0.00E+00	8.15E-18	0.00E+00	1.53E-20	
180	4.60E-15	1.26E-15	0.00E+00	1.29E-18	1.12E-19	0.00E+00	0.00E+00	0.00E+00	2.39E-18	0.00E+00	4.49E-21	
190	2.20E-15	6.06E-16	0.00E+00	3.27E-19	2.88E-20	0.00E+00	0.00E+00	0.00E+00	6.23E-19	0.00E+00	1.17E-21	
200	1.02E-15	2.80E-16	0.00E+00	7.95E-20	7.00E-21	0.00E+00	0.00E+00	0.00E+00	1.55E-19	0.00E+00	2.92E-22	
210	4.62E-16	1.27E-16	0.00E+00	1.85E-20	1.63E-21	0.00E+00	0.00E+00	0.00E+00	3.76E-20	0.00E+00	7.07E-23	
220	2.00E-16	5.48E-17	0.00E+00	4.16E-21	3.66E-22	0.00E+00	0.00E+00	0.00E+00	8.77E-21	0.00E+00	1.65E-23	
230	8.25E-17	2.27E-17	0.00E+00	8.82E-22	7.76E-23	0.00E+00	0.00E+00	0.00E+00	1.96E-21	0.00E+00	3.68E-24	
240	3.36E-17	9.25E-18	0.00E+00	1.83E-22	1.61E-23	0.00E+00	0.00E+00	0.00E+00	4.29E-22	0.00E+00	8.06E-25	
250	1.34E-17	3.69E-18	0.00E+00	3.75E-23	3.30E-24	0.00E+00	0.00E+00	0.00E+00	9.34E-23	0.00E+00	1.76E-25	
260	5.32E-18	1.46E-18	0.00E+00	7.58E-24	6.67E-25	0.00E+00	0.00E+00	0.00E+00	2.01E-23	0.00E+00	3.77E-26	
270	2.07E-18	5.69E-19	0.00E+00	1.51E-24	1.33E-25	0.00E+00	0.00E+00	0.00E+00	4.31E-24	0.00E+00	8.11E-27	
280	7.96E-19	2.19E-19	0.00E+00	3.00E-25	2.64E-26	0.00E+00	0.00E+00	0.00E+00	9.13E-25	0.00E+00	1.72E-27	
290	3.06E-19	8.41E-20	0.00E+00	5.91E-26	5.20E-27	0.00E+00	0.00E+00	0.00E+00	1.93E-25	0.00E+00	3.64E-28	
300	1.16E-19	3.20E-20	0.00E+00	1.16E-26	1.02E-27	0.00E+00	0.00E+00	0.00E+00	4.07E-26	0.00E+00	7.66E-29	
310	4.39E-20	1.21E-20	0.00E+00	2.24E-27	1.97E-28	0.00E+00	0.00E+00	0.00E+00	8.54E-27	0.00E+00	1.61E-29	
320	1.65E-20	4.52E-21	0.00E+00	4.35E-28	3.83E-29	0.00E+00	0.00E+00	0.00E+00	1.79E-27	0.00E+00	3.37E-30	
330	6.16E-21	1.69E-21	0.00E+00	8.42E-29	7.41E-30	0.00E+00	0.00E+00	0.00E+00	3.75E-28	0.00E+00	7.05E-31	
340	2.30E-21	6.32E-22	0.00E+00	1.62E-29	1.43E-30	0.00E+00	0.00E+00	0.00E+00	7.83E-29	0.00E+00	1.47E-31	
350	8.51E-22	2.34E-22	0.00E+00	3.10E-30	2.73E-31	0.00E+00	0.00E+00	0.00E+00	1.64E-29	0.00E+00	3.08E-32	
360	3.15E-22	8.67E-23	0.00E+00	5.94E-31	5.23E-32	0.00E+00	0.00E+00	0.00E+00	3.41E-30	0.00E+00	6.42E-33	
370	1.16E-22	3.19E-23	0.00E+00	1.14E-31	1.00E-32	0.00E+00	0.00E+00	0.00E+00	7.10E-31	0.00E+00	1.34E-33	
380	4.28E-23	1.18E-23	0.00E+00	2.17E-32	1.91E-33	0.00E+00	0.00E+00	0.00E+00	1.48E-31	0.00E+00	2.78E-34	
390	1.37E-23	4.32E-24	0.00E+00	4.13E-33	3.64E-34	0.00E+00	0.00E+00	0.00E+00	3.08E-32	0.00E+00	5.79E-35	
400	5.76E-24	1.58E-24	0.00E+00	7.84E-34	6.90E-35	0.00E+00	0.00E+00	0.00E+00	6.42E-33	0.00E+00	1.21E-35	
410	2.11E-24	5.80E-25	0.00E+00	1.50E-34	1.33E-35	0.00E+00	0.00E+00	0.00E+00	1.34E-33	0.00E+00	2.52E-36	
420	7.70E-25	2.12E-25	0.00E+00	2.83E-35	2.49E-36	0.00E+00	0.00E+00	0.00E+00	2.77E-34	0.00E+00	5.21E-37	
430	2.81E-25	7.73E-26	0.00E+00	5.33E-36	4.69E-37	0.00E+00	0.00E+00	0.00E+00	5.75E-35	0.00E+00	1.08E-37	
440	1.03E-25	2.83E-26	0.00E+00	1.01E-36	8.87E-38	0.00E+00	0.00E+00	0.00E+00	1.19E-35	0.00E+00	2.25E-38	
450	3.74E-26	1.03E-26	0.00E+00	1.91E-37	1.68E-38	0.00E+00	0.00E+00	0.00E+00	2.48E-36	0.00E+00	4.67E-39	
460	1.36E-26	3.75E-27	0.00E+00	3.61E-38	3.17E-39	0.00E+00	0.00E+00	0.00E+00	5.18E-37	0.00E+00	9.75E-40	
470	4.98E-27	1.37E-27	0.00E+00	6.80E-39	5.99E-40	0.00E+00	0.00E+00	0.00E+00	1.07E-37	0.00E+00	2.02E-40	
480	1.81E-27	4.97E-28	0.00E+00	1.28E-39	1.13E-40	0.00E+00	0.00E+00	0.00E+00	2.23E-38	0.00E+00	4.20E-41	
490	6.58E-28	1.81E-28	0.00E+00	2.41E-40	2.12E-41	0.00E+00	0.00E+00	0.00E+00	4.64E-39	0.00E+00	8.74E-42	
500	2.39E-28	6.58E-29	0.00E+00	4.53E-41	3.99E-42	0.00E+00	0.00E+00	0.00E+00	9.63E-40	0.00E+00	1.81E-42	
510	8.67E-29	2.38E-29	0.00E+00	8.50E-42	7.48E-43	0.00E+00	0.00E+00	0.00E+00	2.01E-40	0.00E+00	3.77E-43	
520	3.15E-29	8.67E-30	0.00E+00	1.60E-42	1.41E-43	0.00E+00	0.00E+00	0.00E+00	4.15E-41	0.00E+00	7.81E-44	
530	1.14E-29	3.14E-30	0.00E+00	3.01E-43	2.65E-44	0.00E+00	0.00E+00	0.00E+00	8.63E-42	0.00E+00	1.62E-44	
540	4.14E-30	1.14E-30	0.00E+00	5.64E-44	4.96E-45	0.00E+00	0.00E+00	0.00E+00	1.79E-42	0.00E+00	3.37E-45	

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Cancer Risk	2,4,5-Trichlorophenol	Acrylonitrile	gamma-Chlordane Group					Pentachlorophenol Group				
			gamma-Chlordane	alpha-Chlordane	Methoxychlor	Heptachlor epoxide	Toxaphene	Pentachlorophenol	Naphthalene	Hexachloroethane	Acenaphthene	Acenaphthylene
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	0.00E+00	5.40E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-18	0.00E+00	4.76E-21	0.00E+00	0.00E+00
20	0.00E+00	9.39E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-16	0.00E+00	7.04E-19	0.00E+00	0.00E+00
30	0.00E+00	3.80E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-15	0.00E+00	3.44E-18	0.00E+00	0.00E+00
40	0.00E+00	9.39E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-15	0.00E+00	5.04E-18	0.00E+00	0.00E+00
50	0.00E+00	1.40E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-15	0.00E+00	4.67E-18	0.00E+00	0.00E+00
60	0.00E+00	1.10E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-14	0.00E+00	7.59E-17	0.00E+00	0.00E+00
70	0.00E+00	1.55E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-13	0.00E+00	4.64E-16	0.00E+00	0.00E+00
80	0.00E+00	1.37E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-13	0.00E+00	5.94E-16	0.00E+00	0.00E+00
90	0.00E+00	9.74E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-13	0.00E+00	6.99E-16	0.00E+00	0.00E+00
100	0.00E+00	9.45E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-13	0.00E+00	8.94E-16	0.00E+00	0.00E+00
110	0.00E+00	8.51E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-13	0.00E+00	1.82E-15	0.00E+00	0.00E+00
120	0.00E+00	5.62E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-13	0.00E+00	2.81E-15	0.00E+00	0.00E+00
130	0.00E+00	2.92E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-13	0.00E+00	3.25E-15	0.00E+00	0.00E+00
140	0.00E+00	1.36E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-13	0.00E+00	3.10E-15	0.00E+00	0.00E+00
150	0.00E+00	5.81E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-13	0.00E+00	2.81E-15	0.00E+00	0.00E+00
160	0.00E+00	2.15E-15	2.74E-46	2.74E-46	0.00E+00	4.20E-46	1.16E-45	6.68E-13	0.00E+00	2.18E-15	0.00E+00	0.00E+00
170	0.00E+00	7.09E-16	1.97E-45	1.97E-45	0.00E+00	3.02E-45	8.35E-15	4.55E-13	0.00E+00	1.49E-15	0.00E+00	0.00E+00
180	0.00E+00	2.08E-16	7.97E-45	7.97E-45	0.00E+00	1.22E-44	3.38E-44	2.75E-13	0.00E+00	8.99E-16	0.00E+00	0.00E+00
190	0.00E+00	5.42E-17	1.09E-38	1.09E-38	0.00E+00	1.68E-38	4.64E-38	1.42E-13	0.00E+00	4.64E-16	0.00E+00	0.00E+00
200	0.00E+00	1.35E-17	1.66E-37	1.66E-37	0.00E+00	2.55E-37	7.05E-37	6.83E-14	0.00E+00	2.23E-16	0.00E+00	0.00E+00
210	0.00E+00	3.27E-18	1.05E-36	1.05E-36	0.00E+00	1.61E-36	4.44E-36	3.14E-14	0.00E+00	1.03E-16	0.00E+00	0.00E+00
220	0.00E+00	7.63E-19	4.17E-36	4.17E-36	0.00E+00	6.40E-36	1.77E-35	1.39E-14	0.00E+00	4.56E-17	0.00E+00	0.00E+00
230	0.00E+00	1.70E-19	1.45E-35	1.45E-35	0.00E+00	2.32E-35	6.13E-35	5.87E-15	0.00E+00	1.92E-17	0.00E+00	0.00E+00
240	0.00E+00	3.72E-20	5.95E-35	5.95E-35	0.00E+00	9.13E-35	2.52E-34	2.39E-15	0.00E+00	7.83E-18	0.00E+00	0.00E+00
250	0.00E+00	8.11E-21	2.35E-34	2.35E-34	0.00E+00	3.61E-34	9.97E-34	9.62E-16	0.00E+00	3.14E-18	0.00E+00	0.00E+00
260	0.00E+00	1.74E-21	7.79E-34	7.79E-34	0.00E+00	1.20E-33	3.30E-33	3.83E-16	0.00E+00	1.25E-18	0.00E+00	0.00E+00
270	0.00E+00	3.75E-22	2.17E-33	2.17E-33	0.00E+00	3.33E-33	9.21E-33	1.50E-16	0.00E+00	4.90E-19	0.00E+00	0.00E+00
280	0.00E+00	7.94E-23	5.41E-33	5.41E-33	0.00E+00	8.31E-33	2.29E-32	5.87E-17	0.00E+00	1.92E-19	0.00E+00	0.00E+00
290	0.00E+00	1.68E-23	1.22E-32	1.22E-32	0.00E+00	1.87E-32	5.17E-32	2.26E-17	0.00E+00	7.40E-20	0.00E+00	0.00E+00
300	0.00E+00	3.54E-24	2.48E-32	2.48E-32	0.00E+00	3.81E-32	1.05E-31	8.70E-18	0.00E+00	2.84E-20	0.00E+00	0.00E+00
310	0.00E+00	7.42E-25	4.56E-32	4.56E-32	0.00E+00	7.00E-32	1.93E-31	3.34E-18	0.00E+00	1.09E-20	0.00E+00	0.00E+00
320	0.00E+00	1.56E-25	7.53E-32	7.53E-32	0.00E+00	1.16E-31	3.19E-31	1.27E-18	0.00E+00	4.15E-21	0.00E+00	0.00E+00
330	0.00E+00	3.26E-26	1.13E-31	1.13E-31	0.00E+00	1.73E-31	4.77E-31	4.86E-19	0.00E+00	1.59E-21	0.00E+00	0.00E+00
340	0.00E+00	6.81E-27	1.54E-31	1.54E-31	0.00E+00	2.36E-31	6.52E-31	1.83E-19	0.00E+00	5.99E-22	0.00E+00	0.00E+00
350	0.00E+00	1.42E-27	1.95E-31	1.95E-31	0.00E+00	3.00E-31	8.28E-31	6.92E-20	0.00E+00	2.26E-22	0.00E+00	0.00E+00
360	0.00E+00	2.97E-28	2.30E-31	2.30E-31	0.00E+00	3.54E-31	9.77E-31	2.62E-20	0.00E+00	8.55E-23	0.00E+00	0.00E+00
370	0.00E+00	6.17E-29	2.55E-31	2.55E-31	0.00E+00	3.91E-31	1.08E-30	9.81E-21	0.00E+00	3.21E-23	0.00E+00	0.00E+00
380	0.00E+00	1.29E-29	2.66E-31	2.66E-31	0.00E+00	4.09E-31	1.13E-30	3.70E-21	0.00E+00	1.21E-23	0.00E+00	0.00E+00
390	0.00E+00	2.68E-30	2.65E-31	2.65E-31	0.00E+00	4.07E-31	1.12E-30	1.39E-21	0.00E+00	4.54E-24	0.00E+00	0.00E+00
400	0.00E+00	5.58E-31	2.51E-31	2.51E-31	0.00E+00	3.85E-31	1.06E-30	5.19E-22	0.00E+00	1.70E-24	0.00E+00	0.00E+00
410	0.00E+00	1.16E-31	2.28E-31	2.28E-31	0.00E+00	3.50E-31	9.67E-31	1.94E-22	0.00E+00	6.35E-25	0.00E+00	0.00E+00
420	0.00E+00	2.41E-32	1.99E-31	1.99E-31	0.00E+00	3.06E-31	8.44E-31	7.26E-23	0.00E+00	2.37E-25	0.00E+00	0.00E+00
430	0.00E+00	5.00E-33	1.68E-31	1.68E-31	0.00E+00	2.58E-31	7.12E-31	2.71E-23	0.00E+00	8.86E-26	0.00E+00	0.00E+00
440	0.00E+00	1.04E-33	1.37E-31	1.37E-31	0.00E+00	2.10E-31	5.79E-31	1.91E-23	0.00E+00	3.30E-26	0.00E+00	0.00E+00
450	0.00E+00	2.16E-34	1.09E-31	1.09E-31	0.00E+00	1.67E-31	4.60E-31	3.76E-24	0.00E+00	1.23E-26	0.00E+00	0.00E+00
460	0.00E+00	4.50E-35	8.36E-32	8.36E-32	0.00E+00	1.28E-31	3.54E-31	1.40E-24	0.00E+00	4.59E-27	0.00E+00	0.00E+00
470	0.00E+00	9.33E-36	6.26E-32	6.26E-32	0.00E+00	9.61E-32	2.65E-31	5.19E-25	0.00E+00	1.70E-27	0.00E+00	0.00E+00
480	0.00E+00	1.94E-36	4.59E-32	4.59E-32	0.00E+00	7.05E-32	1.95E-31	1.94E-25	0.00E+00	6.33E-28	0.00E+00	0.00E+00
490	0.00E+00	4.04E-37	3.30E-32	3.30E-32	0.00E+00	5.06E-32	1.40E-31	7.16E-26	0.00E+00	2.34E-28	0.00E+00	0.00E+00
500	0.00E+00	8.37E-38	2.32E-32	2.32E-32	0.00E+00	3.56E-32	9.83E-32	2.66E-26	0.00E+00	8.71E-29	0.00E+00	0.00E+00
510	0.00E+00	1.74E-38	1.61E-32	1.61E-32	0.00E+00	2.47E-32	6.82E-32	9.86E-27	0.00E+00	3.22E-29	0.00E+00	0.00E+00
520	0.00E+00	3.61E-39	1.09E-32	1.09E-32	0.00E+00	1.68E-32	4.64E-32	3.65E-27	0.00E+00	1.19E-29	0.00E+00	0.00E+00
530	0.00E+00	7.50E-40	7.34E-33	7.34E-33	0.00E+00	1.13E-32	3.11E-32	1.36E-27	0.00E+00	4.43E-30	0.00E+00	0.00E+00
540	0.00E+00	1.56E-40	4.86E-33	4.86E-33	0.00E+00	7.46E-33	2.06E-32	5.00E-28	0.00E+00	1.63E-30	0.00E+00	0.00E+00

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Cancer Risk	Benzo(a)pyrene Group					PCB Group	Tc-99 Group		U-238 Group							
	Phenanthrene	Anthracene	Fluoranthene	Hexachlorobutadiene	Pyrene		Benzo(a)pyrene	Dioxin/Furan	Tc-99	Np-237	U-238	U-234	U-235	Ra-226	Pu-238	Pu-239
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	0.00E+00	0.00E+00	0.00E+00	7.13E-22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-23	0.00E+00						
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-19	0.00E+00	0.00E+00	0.00E+00	3.89E-21	0.00E+00						
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-19	0.00E+00	0.00E+00	0.00E+00	5.95E-20	0.00E+00						
40	0.00E+00	0.00E+00	0.00E+00	7.56E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-19	0.00E+00						
50	0.00E+00	0.00E+00	0.00E+00	6.99E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-19	0.00E+00						
60	0.00E+00	0.00E+00	0.00E+00	1.14E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-15	0.00E+00						
70	0.00E+00	0.00E+00	0.00E+00	6.94E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-14	0.00E+00						
80	0.00E+00	0.00E+00	0.00E+00	8.90E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-13	0.00E+00						
90	0.00E+00	0.00E+00	0.00E+00	1.05E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-13	0.00E+00						
100	0.00E+00	0.00E+00	0.00E+00	1.34E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-12	0.00E+00						
110	0.00E+00	0.00E+00	0.00E+00	2.73E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-11	0.00E+00						
120	0.00E+00	0.00E+00	0.00E+00	4.21E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-11	0.00E+00						
130	0.00E+00	0.00E+00	0.00E+00	4.87E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-10	0.00E+00						
140	0.00E+00	0.00E+00	0.00E+00	4.64E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-10	0.00E+00						
150	0.00E+00	0.00E+00	0.00E+00	4.21E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-10	0.00E+00						
160	0.00E+00	0.00E+00	0.00E+00	3.27E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-09	0.00E+00						
170	0.00E+00	0.00E+00	0.00E+00	2.23E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-09	0.00E+00						
180	0.00E+00	0.00E+00	0.00E+00	1.35E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-09	0.00E+00						
190	0.00E+00	0.00E+00	0.00E+00	6.94E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-08	0.00E+00						
200	0.00E+00	0.00E+00	0.00E+00	3.34E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-08	0.00E+00						
210	0.00E+00	0.00E+00	0.00E+00	1.54E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-08	0.00E+00						
220	0.00E+00	0.00E+00	0.00E+00	6.83E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-08	0.00E+00						
230	0.00E+00	0.00E+00	0.00E+00	2.87E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-08	0.00E+00						
240	0.00E+00	0.00E+00	0.00E+00	1.17E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-08	0.00E+00						
250	0.00E+00	0.00E+00	0.00E+00	4.71E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-07	0.00E+00						
260	0.00E+00	0.00E+00	0.00E+00	1.88E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-07	0.00E+00						
270	0.00E+00	0.00E+00	0.00E+00	7.35E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-07	0.00E+00						
280	0.00E+00	0.00E+00	0.00E+00	2.87E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-07	0.00E+00						
290	0.00E+00	0.00E+00	0.00E+00	1.11E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-07	0.00E+00						
300	0.00E+00	0.00E+00	0.00E+00	4.26E-21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-07	5.32E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	0.00E+00	0.00E+00	0.00E+00	1.63E-21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-07	5.32E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	0.00E+00	0.00E+00	0.00E+00	6.22E-22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-07	5.32E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	0.00E+00	0.00E+00	0.00E+00	2.38E-22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-07	5.32E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	0.00E+00	0.00E+00	0.00E+00	8.97E-23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-07	5.32E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	0.00E+00	0.00E+00	0.00E+00	3.39E-23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-07	5.32E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	0.00E+00	0.00E+00	0.00E+00	1.28E-23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-07	5.32E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	0.00E+00	0.00E+00	0.00E+00	4.80E-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-07	5.32E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	0.00E+00	0.00E+00	0.00E+00	1.81E-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-07	5.32E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	0.00E+00	0.00E+00	0.00E+00	6.80E-25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-07	5.32E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	0.00E+00	0.00E+00	0.00E+00	2.54E-25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-07	5.25E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	0.00E+00	0.00E+00	0.00E+00	9.51E-26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-07	5.25E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	0.00E+00	0.00E+00	0.00E+00	3.55E-26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-07	5.25E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	0.00E+00	0.00E+00	0.00E+00	1.33E-26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-07	5.25E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	0.00E+00	0.00E+00	0.00E+00	4.94E-27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-07	5.25E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	0.00E+00	0.00E+00	0.00E+00	1.84E-27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-07	5.25E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	0.00E+00	0.00E+00	0.00E+00	6.87E-28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-07	5.25E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	0.00E+00	0.00E+00	0.00E+00	2.54E-28												

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Cancer Risk	Pu-240	Th-230	Th-232	Total
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	0.00E+00	0.00E+00	0.00E+00	5.53E-13
20	0.00E+00	0.00E+00	0.00E+00	1.03E-12
30	0.00E+00	0.00E+00	0.00E+00	5.24E-13
40	0.00E+00	0.00E+00	0.00E+00	2.33E-13
50	0.00E+00	0.00E+00	0.00E+00	1.23E-13
60	0.00E+00	0.00E+00	0.00E+00	3.97E-12
70	0.00E+00	0.00E+00	0.00E+00	7.94E-12
80	0.00E+00	0.00E+00	0.00E+00	1.11E-11
90	0.00E+00	0.00E+00	0.00E+00	1.40E-11
100	0.00E+00	0.00E+00	0.00E+00	3.21E-11
110	0.00E+00	0.00E+00	0.00E+00	7.43E-11
120	0.00E+00	0.00E+00	0.00E+00	1.55E-10
130	0.00E+00	0.00E+00	0.00E+00	2.96E-10
140	0.00E+00	0.00E+00	0.00E+00	6.07E-10
150	0.00E+00	0.00E+00	0.00E+00	1.25E-09
160	0.00E+00	0.00E+00	0.00E+00	2.57E-09
170	0.00E+00	0.00E+00	0.00E+00	5.27E-09
180	0.00E+00	0.00E+00	0.00E+00	9.78E-09
190	0.00E+00	0.00E+00	0.00E+00	1.65E-08
200	0.00E+00	0.00E+00	0.00E+00	2.60E-08
210	0.00E+00	0.00E+00	0.00E+00	3.88E-08
220	0.00E+00	0.00E+00	0.00E+00	5.39E-08
230	0.00E+00	0.00E+00	0.00E+00	6.99E-08
240	0.00E+00	0.00E+00	0.00E+00	8.72E-08
250	0.00E+00	0.00E+00	0.00E+00	1.06E-07
260	0.00E+00	0.00E+00	0.00E+00	1.25E-07
270	0.00E+00	0.00E+00	0.00E+00	1.43E-07
280	0.00E+00	0.00E+00	0.00E+00	1.61E-07
290	0.00E+00	0.00E+00	0.00E+00	1.79E-07
300	2.14E-23	1.88E-22	3.43E-22	1.96E-07
310	2.14E-23	1.88E-22	3.43E-22	2.12E-07
320	2.14E-23	1.88E-22	3.43E-22	2.27E-07
330	2.14E-23	1.88E-22	3.43E-22	2.41E-07
340	2.14E-23	1.88E-22	3.43E-22	2.54E-07
350	2.14E-23	1.88E-22	3.43E-22	2.66E-07
360	2.14E-23	1.88E-22	3.43E-22	2.78E-07
370	2.14E-23	1.88E-22	3.43E-22	2.88E-07
380	2.14E-23	1.88E-22	3.43E-22	2.98E-07
390	2.14E-23	1.88E-22	3.43E-22	3.06E-07
400	1.53E-20	1.35E-19	2.45E-19	3.13E-07
410	1.53E-20	1.35E-19	2.45E-19	3.20E-07
420	1.53E-20	1.35E-19	2.45E-19	3.26E-07
430	1.53E-20	1.35E-19	2.45E-19	3.31E-07
440	1.53E-20	1.35E-19	2.45E-19	3.35E-07
450	1.53E-20	1.35E-19	2.45E-19	3.39E-07
460	1.53E-20	1.35E-19	2.45E-19	3.42E-07
470	1.53E-20	1.35E-19	2.45E-19	3.44E-07
480	1.53E-20	1.35E-19	2.45E-19	3.46E-07
490	1.53E-20	1.35E-19	2.45E-19	3.48E-07
500	8.45E-19	7.44E-18	1.35E-17	3.49E-07
510	8.45E-19	7.44E-18	1.35E-17	3.49E-07
520	8.45E-19	7.44E-18	1.35E-17	3.49E-07
530	8.45E-19	7.44E-18	1.35E-17	3.49E-07
540	8.45E-19	7.44E-18	1.35E-17	3.49E-07

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure.

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Cancer Risk	Trichloroethene Group		Chlorobenzene Group			2-Methylphenol Group						
	Carbon tetrachloride	Tetrachloroethylene	Chlorobenzene	1,4-Dichlorobenzene	Hexachlorobenzene	2-Methylphenol	Pyridine	4-Methylphenol	3-Methylphenol	2,4-DNT	Nitrobenzene	2,4,6-Trichlorophenol
550	1.50E-30	4.13E-31	0.00E+00	1.05E-44	9.28E-46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-43	0.00E+00	6.98E-46
560	5.45E-31	1.50E-31	0.00E+00	1.93E-45	1.71E-46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-44	0.00E+00	1.45E-46
570	1.98E-31	5.43E-32	0.00E+00	3.71E-46	3.26E-47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-44	0.00E+00	3.03E-47
580	2.58E-32	7.10E-33	0.00E+00	4.78E-47	4.20E-48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-45	0.00E+00	6.20E-48
590	9.37E-33	2.58E-33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-46	0.00E+00	1.44E-48
600	3.40E-33	9.35E-34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-47	0.00E+00	1.88E-49
610	1.23E-33	3.38E-34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	4.47E-34	1.23E-34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	1.61E-34	4.43E-35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	5.85E-35	1.61E-35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	2.11E-35	5.80E-36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	7.68E-36	2.11E-36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	2.77E-36	7.63E-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	1.00E-36	2.76E-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	3.63E-37	9.98E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	1.32E-37	3.61E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	4.75E-38	1.31E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	1.72E-38	4.73E-39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	6.23E-39	1.71E-39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	2.26E-39	6.22E-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	8.15E-40	2.24E-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	2.95E-40	8.10E-41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	2.95E-40	8.10E-41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	1.07E-40	2.93E-41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	3.86E-41	1.06E-41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	1.40E-41	3.83E-42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	5.06E-42	1.39E-42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	1.83E-42	5.03E-43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	6.63E-43	1.82E-43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	2.39E-43	6.58E-44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	8.67E-44	2.38E-44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	3.12E-44	8.57E-45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	1.13E-44	3.11E-45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	4.07E-45	1.12E-45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	1.46E-45	4.02E-46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	6.08E-46	1.67E-46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
910	1.22E-46	3.34E-47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	1.22E-46	3.34E-47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
940	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Cancer Risk	gamma-Chlordane Group						Pentachlorophenol Group						
	2,4,5-Trichlorophenol	Acrylonitrile	gamma-Chlordane	alpha-Chlordane	Methoxychlor	Heptachlor epoxide	Toxaphene	Pentachlorophenol	Naphthalene	Hexachloroethane	Acenaphthene	Acenaphthylene	Fluorene
550	0.00E+00	3.23E-41	3.17E-33	3.17E-33	0.00E+00	4.87E-33	1.34E-32	1.85E-28	0.00E+00	6.05E-31	0.00E+00	0.00E+00	0.00E+00
560	0.00E+00	6.71E-42	2.05E-33	2.05E-33	0.00E+00	3.14E-33	8.68E-33	6.83E-29	0.00E+00	2.23E-31	0.00E+00	0.00E+00	0.00E+00
570	0.00E+00	1.40E-42	1.30E-33	1.30E-33	0.00E+00	2.00E-33	5.53E-33	2.32E-29	0.00E+00	8.23E-32	0.00E+00	0.00E+00	0.00E+00
580	0.00E+00	2.86E-43	8.28E-34	8.28E-34	0.00E+00	1.27E-33	3.51E-33	9.28E-30	0.00E+00	3.03E-32	0.00E+00	0.00E+00	0.00E+00
590	0.00E+00	6.64E-44	5.17E-34	5.17E-34	0.00E+00	7.94E-34	2.19E-33	3.43E-30	0.00E+00	1.12E-32	0.00E+00	0.00E+00	0.00E+00
600	0.00E+00	8.67E-45	3.20E-34	3.20E-34	0.00E+00	4.92E-34	1.36E-33	1.27E-30	0.00E+00	4.15E-33	0.00E+00	0.00E+00	0.00E+00
610	0.00E+00	0.00E+00	1.98E-34	1.98E-34	0.00E+00	3.01E-34	8.38E-34	4.67E-31	0.00E+00	1.53E-33	0.00E+00	0.00E+00	0.00E+00
620	0.00E+00	0.00E+00	1.20E-34	1.20E-34	0.00E+00	1.85E-34	5.10E-34	1.72E-31	0.00E+00	5.63E-34	0.00E+00	0.00E+00	0.00E+00
630	0.00E+00	0.00E+00	7.31E-35	7.31E-35	0.00E+00	1.12E-34	3.10E-34	6.35E-32	0.00E+00	2.07E-34	0.00E+00	0.00E+00	0.00E+00
640	0.00E+00	0.00E+00	4.41E-35	4.41E-35	0.00E+00	6.76E-35	1.87E-34	2.33E-32	0.00E+00	7.62E-35	0.00E+00	0.00E+00	0.00E+00
650	0.00E+00	0.00E+00	2.64E-35	2.64E-35	0.00E+00	4.05E-35	1.12E-34	8.61E-33	0.00E+00	2.81E-35	0.00E+00	0.00E+00	0.00E+00
660	0.00E+00	0.00E+00	1.57E-35	1.57E-35	0.00E+00	2.41E-35	6.66E-35	3.16E-33	0.00E+00	1.03E-35	0.00E+00	0.00E+00	0.00E+00
670	0.00E+00	0.00E+00	9.30E-36	9.30E-36	0.00E+00	1.43E-35	3.94E-35	1.16E-33	0.00E+00	3.80E-36	0.00E+00	0.00E+00	0.00E+00
680	0.00E+00	0.00E+00	5.48E-36	5.48E-36	0.00E+00	8.41E-36	2.32E-35	4.28E-34	0.00E+00	1.40E-36	0.00E+00	0.00E+00	0.00E+00
690	0.00E+00	0.00E+00	3.21E-36	3.21E-36	0.00E+00	4.93E-36	1.36E-35	1.57E-34	0.00E+00	5.14E-37	0.00E+00	0.00E+00	0.00E+00
700	0.00E+00	0.00E+00	1.88E-36	1.88E-36	0.00E+00	2.88E-36	7.95E-36	5.77E-35	0.00E+00	1.89E-37	0.00E+00	0.00E+00	0.00E+00
710	0.00E+00	0.00E+00	1.09E-36	1.09E-36	0.00E+00	1.67E-36	4.60E-36	2.13E-35	0.00E+00	6.95E-38	0.00E+00	0.00E+00	0.00E+00
720	0.00E+00	0.00E+00	6.30E-37	6.30E-37	0.00E+00	9.68E-37	2.67E-36	7.79E-36	0.00E+00	2.55E-38	0.00E+00	0.00E+00	0.00E+00
730	0.00E+00	0.00E+00	3.63E-37	3.63E-37	0.00E+00	5.58E-37	1.54E-36	2.87E-36	0.00E+00	9.38E-39	0.00E+00	0.00E+00	0.00E+00
740	0.00E+00	0.00E+00	2.09E-37	2.09E-37	0.00E+00	3.20E-37	8.84E-37	1.06E-36	0.00E+00	3.46E-39	0.00E+00	0.00E+00	0.00E+00
750	0.00E+00	0.00E+00	1.20E-37	1.20E-37	0.00E+00	1.83E-37	5.07E-37	3.87E-37	0.00E+00	1.26E-39	0.00E+00	0.00E+00	0.00E+00
760	0.00E+00	0.00E+00	6.83E-38	6.83E-38	0.00E+00	1.05E-37	2.89E-37	1.42E-37	0.00E+00	4.65E-40	0.00E+00	0.00E+00	0.00E+00
770	0.00E+00	0.00E+00	3.89E-38	3.89E-38	0.00E+00	5.97E-38	1.65E-37	5.19E-38	0.00E+00	1.70E-40	0.00E+00	0.00E+00	0.00E+00
780	0.00E+00	0.00E+00	2.20E-38	2.20E-38	0.00E+00	3.38E-38	9.34E-38	1.91E-38	0.00E+00	6.25E-41	0.00E+00	0.00E+00	0.00E+00
790	0.00E+00	0.00E+00	1.25E-38	1.25E-38	0.00E+00	1.92E-38	5.30E-38	7.02E-39	0.00E+00	2.29E-41	0.00E+00	0.00E+00	0.00E+00
800	0.00E+00	0.00E+00	7.05E-39	7.05E-39	0.00E+00	1.08E-38	2.99E-38	2.58E-39	0.00E+00	8.42E-42	0.00E+00	0.00E+00	0.00E+00
810	0.00E+00	0.00E+00	3.98E-39	3.98E-39	0.00E+00	6.10E-39	1.69E-38	9.47E-40	0.00E+00	3.10E-42	0.00E+00	0.00E+00	0.00E+00
820	0.00E+00	0.00E+00	2.23E-39	2.23E-39	0.00E+00	3.43E-39	9.47E-39	3.47E-40	0.00E+00	1.13E-42	0.00E+00	0.00E+00	0.00E+00
830	0.00E+00	0.00E+00	1.25E-39	1.25E-39	0.00E+00	1.92E-39	5.30E-39	1.27E-40	0.00E+00	4.15E-43	0.00E+00	0.00E+00	0.00E+00
840	0.00E+00	0.00E+00	7.01E-40	7.01E-40	0.00E+00	1.08E-39	2.97E-39	4.65E-41	0.00E+00	1.52E-43	0.00E+00	0.00E+00	0.00E+00
850	0.00E+00	0.00E+00	3.91E-40	3.91E-40	0.00E+00	6.01E-40	1.66E-39	1.70E-41	0.00E+00	5.56E-44	0.00E+00	0.00E+00	0.00E+00
860	0.00E+00	0.00E+00	2.18E-40	2.18E-40	0.00E+00	3.35E-40	9.24E-40	6.25E-42	0.00E+00	2.04E-44	0.00E+00	0.00E+00	0.00E+00
870	0.00E+00	0.00E+00	1.21E-40	1.21E-40	0.00E+00	1.86E-40	5.13E-40	2.29E-42	0.00E+00	7.50E-45	0.00E+00	0.00E+00	0.00E+00
880	0.00E+00	0.00E+00	6.74E-41	6.74E-41	0.00E+00	1.03E-40	2.86E-40	8.37E-43	0.00E+00	2.73E-45	0.00E+00	0.00E+00	0.00E+00
890	0.00E+00	0.00E+00	3.73E-41	3.73E-41	0.00E+00	5.73E-41	1.58E-40	3.08E-43	0.00E+00	1.01E-45	0.00E+00	0.00E+00	0.00E+00
900	0.00E+00	0.00E+00	2.07E-41	2.07E-41	0.00E+00	3.18E-41	8.78E-41	1.14E-43	0.00E+00	3.72E-46	0.00E+00	0.00E+00	0.00E+00
910	0.00E+00	0.00E+00	1.14E-41	1.14E-41	0.00E+00	1.75E-41	4.83E-41	4.21E-44	0.00E+00	1.37E-46	0.00E+00	0.00E+00	0.00E+00
920	0.00E+00	0.00E+00	6.31E-42	6.31E-42	0.00E+00	9.69E-42	2.68E-41	1.56E-44	0.00E+00	5.11E-47	0.00E+00	0.00E+00	0.00E+00
930	0.00E+00	0.00E+00	3.48E-42	3.48E-42	0.00E+00	5.34E-42	1.47E-41	4.80E-45	0.00E+00	1.57E-47	0.00E+00	0.00E+00	0.00E+00
940	0.00E+00	0.00E+00	1.91E-42	1.91E-42	0.00E+00	2.94E-42	8.11E-42	3.97E-46	0.00E+00	1.30E-48	0.00E+00	0.00E+00	0.00E+00
950	0.00E+00	0.00E+00	1.05E-42	1.05E-42	0.00E+00	1.62E-42	4.47E-42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	0.00E+00	0.00E+00	5.78E-43	5.78E-43	0.00E+00	8.87E-43	2.45E-42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	0.00E+00	0.00E+00	3.17E-43	3.17E-43	0.00E+00	4.87E-43	1.34E-42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	0.00E+00	0.00E+00	1.73E-43	1.73E-43	0.00E+00	2.68E-43	7.35E-43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	0.00E+00	0.00E+00	9.53E-44	9.53E-44	0.00E+00	1.46E-43	4.04E-43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	0.00E+00	0.00E+00	5.19E-44	5.19E-44	0.00E+00	7.96E-44	2.20E-43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Cancer Risk	Benzo(a)pyrene Group					PCB Group	Tc-99 Group		U-238 Group							
	Phenanthrene	Anthracene	Fluoranthene	Hexachlorobutadiene	Pyrene		Benz(a)pyrene	Dioxin/Furan	Tc-99	Np-237	U-238	U-234	U-235	Ra-226	Pu-238	Pu-239
550	0.00E+00	0.00E+00	0.00E+00	9.06E-32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-07	2.58E-12	4.20E-16	3.38E-16	1.70E-17	8.94E-17	2.76E-19	6.76E-19
560	0.00E+00	0.00E+00	0.00E+00	3.34E-32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-07	2.58E-12	4.20E-16	3.38E-16	1.70E-17	8.94E-17	2.76E-19	6.76E-19
570	0.00E+00	0.00E+00	0.00E+00	1.23E-32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-07	2.58E-12	4.20E-16	3.38E-16	1.70E-17	8.94E-17	2.76E-19	6.76E-19
580	0.00E+00	0.00E+00	0.00E+00	4.54E-33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-07	2.58E-12	4.20E-16	3.38E-16	1.70E-17	8.94E-17	2.76E-19	6.76E-19
590	0.00E+00	0.00E+00	0.00E+00	1.68E-33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-07	2.58E-12	4.20E-16	3.38E-16	1.70E-17	8.94E-17	2.76E-19	6.76E-19
600	0.00E+00	0.00E+00	0.00E+00	6.22E-34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-07	3.89E-11	8.26E-15	6.66E-15	3.35E-16	1.76E-15	5.42E-18	1.33E-17
610	0.00E+00	0.00E+00	0.00E+00	2.39E-34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-07	3.89E-11	8.26E-15	6.66E-15	3.35E-16	1.76E-15	5.42E-18	1.33E-17
620	0.00E+00	0.00E+00	0.00E+00	8.43E-35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-07	3.89E-11	8.26E-15	6.66E-15	3.35E-16	1.76E-15	5.42E-18	1.33E-17
630	0.00E+00	0.00E+00	0.00E+00	3.11E-35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-07	3.89E-11	8.26E-15	6.66E-15	3.35E-16	1.76E-15	5.42E-18	1.33E-17
640	0.00E+00	0.00E+00	0.00E+00	1.14E-35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-07	3.89E-11	8.26E-15	6.66E-15	3.35E-16	1.76E-15	5.42E-18	1.33E-17
650	0.00E+00	0.00E+00	0.00E+00	4.21E-36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-07	3.89E-11	8.26E-15	6.66E-15	3.35E-16	1.76E-15	5.42E-18	1.33E-17
660	0.00E+00	0.00E+00	0.00E+00	1.55E-36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-07	3.89E-11	8.26E-15	6.66E-15	3.35E-16	1.76E-15	5.42E-18	1.33E-17
670	0.00E+00	0.00E+00	0.00E+00	5.70E-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-07	3.89E-11	8.26E-15	6.66E-15	3.35E-16	1.76E-15	5.42E-18	1.33E-17
680	0.00E+00	0.00E+00	0.00E+00	2.10E-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-07	3.89E-11	8.26E-15	6.66E-15	3.35E-16	1.76E-15	5.42E-18	1.33E-17
690	0.00E+00	0.00E+00	0.00E+00	7.70E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-07	3.89E-11	8.26E-15	6.66E-15	3.35E-16	1.76E-15	5.42E-18	1.33E-17
700	0.00E+00	0.00E+00	0.00E+00	2.93E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-07	2.83E-10	7.25E-14	5.84E-14	2.94E-15	1.54E-14	4.76E-17	1.17E-16
710	0.00E+00	0.00E+00	0.00E+00	1.04E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-07	2.83E-10	7.25E-14	5.84E-14	2.94E-15	1.54E-14	4.76E-17	1.17E-16
720	0.00E+00	0.00E+00	0.00E+00	3.81E-39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-07	2.83E-10	7.25E-14	5.84E-14	2.94E-15	1.54E-14	4.76E-17	1.17E-16
730	0.00E+00	0.00E+00	0.00E+00	1.41E-39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-07	2.83E-10	7.25E-14	5.84E-14	2.94E-15	1.54E-14	4.76E-17	1.17E-16
740	0.00E+00	0.00E+00	0.00E+00	5.18E-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-07	2.83E-10	7.25E-14	5.84E-14	2.94E-15	1.54E-14	4.76E-17	1.17E-16
750	0.00E+00	0.00E+00	0.00E+00	1.89E-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-07	2.83E-10	7.25E-14	5.84E-14	2.94E-15	1.54E-14	4.76E-17	1.17E-16
760	0.00E+00	0.00E+00	0.00E+00	6.97E-41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-07	2.83E-10	7.25E-14	5.84E-14	2.94E-15	1.54E-14	4.76E-17	1.17E-16
770	0.00E+00	0.00E+00	0.00E+00	2.54E-41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-07	2.83E-10	7.25E-14	5.84E-14	2.94E-15	1.54E-14	4.76E-17	1.17E-16
780	0.00E+00	0.00E+00	0.00E+00	9.37E-42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-07	2.83E-10	7.25E-14	5.84E-14	2.94E-15	1.54E-14	4.76E-17	1.17E-16
790	0.00E+00	0.00E+00	0.00E+00	3.44E-42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-07	2.83E-10	7.25E-14	5.84E-14	2.94E-15	1.54E-14	4.76E-17	1.17E-16
800	0.00E+00	0.00E+00	0.00E+00	1.26E-42	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-07	1.21E-09	3.66E-13	2.95E-13	1.48E-14	7.79E-14	2.40E-16	5.89E-16
810	0.00E+00	0.00E+00	0.00E+00	4.64E-43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-07	1.21E-09	3.66E-13	2.95E-13	1.48E-14	7.79E-14	2.40E-16	5.89E-16
820	0.00E+00	0.00E+00	0.00E+00	1.70E-43	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-07	1.21E-09	3.66E-13	2.95E-13	1.48E-14	7.79E-14	2.40E-16	5.89E-16
830	0.00E+00	0.00E+00	0.00E+00	6.22E-44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-07	1.21E-09	3.66E-13	2.95E-13	1.48E-14	7.79E-14	2.40E-16	5.89E-16
840	0.00E+00	0.00E+00	0.00E+00	2.28E-44	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-07	1.21E-09	3.66E-13	2.95E-13	1.48E-14	7.79E-14	2.40E-16	5.89E-16
850	0.00E+00	0.00E+00	0.00E+00	8.33E-45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-07	1.21E-09	3.66E-13	2.95E-13	1.48E-14	7.79E-14	2.40E-16	5.89E-16
860	0.00E+00	0.00E+00	0.00E+00	3.06E-45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-07	1.21E-09	3.66E-13	2.95E-13	1.48E-14	7.79E-14	2.40E-16	5.89E-16
870	0.00E+00	0.00E+00	0.00E+00	1.12E-45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-07	1.21E-09	3.66E-13	2.95E-13	1.48E-14	7.79E-14	2.40E-16	5.89E-16
880	0.00E+00	0.00E+00	0.00E+00	4.10E-46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-07	1.21E-09	3.66E-13	2.95E-13	1.48E-14	7.79E-14	2.40E-16	5.89E-16
890	0.00E+00	0.00E+00	0.00E+00	1.51E-46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-07	1.21E-09	3.66E-13	2.95E-13	1.48E-14	7.79E-14	2.40E-16	5.89E-16
900	0.00E+00	0.00E+00	0.00E+00	5.58E-47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-07	3.63E-09	5.30E-24	2.41E-12	5.18E-14	2.72E-13	8.38E-16	2.06E-15
910	0.00E+00	0.00E+00	0.00E+00	2.06E-47	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-07	3.63E-09	5.30E-24	2.41E-12	5.18E-14	2.72E-13	8.38E-16	2.06E-15
920	0.00E+00	0.00E+00	0.00E+00	7.65E-48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-07	3.63E-09	5.30E-24	2.41E-12	5.18E-14	2.72E-13	8.38E-16	2.06E-15
930	0.00E+00	0.00E+00	0.00E+00	2.35E-48	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-07	3.63E-09	5.30E-24	2.41E-12	5.18E-14	2.72E-13	8.38E-16	2.06E-15
940	0.00E+00	0.00E+00	0.00E+00	1.95E-49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-07	3.63E-09	5.30E-24	2.41E-12	5.18E-14	2.72E-13	8.38E-16	2.06E-15
950	0.00E+00	0.00E+00	0.00E+00	6.00E-00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-07	3.63E-09	5.30E-24	2.41E-12	5.18E-14	2.72E-13	8.38E-16	2.06E-15
960	0.00E+00	0.00E+00	0.00E+00	1.00E-00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-07	3.63E-09	5.30E-24	2.41E-12	5.18E-14	2.72E-13	8.38E-16	2.06E-15
970	0.00E+00	0.00E+00	0.00E+00	6.00E-00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-07	3.63E-09	5.30E-24	2.41E-12	5.18E-14	2.72E-13	8.38E-16	2.06E-15
980	0.00E+00	0.00E+00	0.00E+00	6.00E-00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-07	3.63E-09	5.30E-24	2.41E-12	5.18E-14	2.72E-13	8.38E-16	2.06E-15
990	0.00E+00	0.00E+00	0.00E+00	6.00E-00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-07	3.63E-09	5.30E-24	2.41E-12	5.18E-14	2.72E-13	8.38E-16	2.06E-15
1000	0.00E+00	0.00E+00	0.00E+00	6.00E-00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-07	8.46E-09	5.30E-24	2.41E-12	5.18E-14	2.72E-13	8.38E-16	2.06E-15
1100	0.00E+00	0.00E+00	0.00E+00	6.00E-00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-07	1.64E-08	7.99E-12	6.44E-12	3.24E-13	1.70E-12	5.34E-15	1.79E-14
1200	0.00E+00	0.00E+00	0.00E+00	6												

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Cancer Risk	Pu-240	Th-230	Th-232	Total
550	8.45E-19	7.44E-18	1.35E-17	3.49E-07
560	8.45E-19	7.44E-18	1.35E-17	3.47E-07
570	8.45E-19	7.44E-18	1.35E-17	3.46E-07
580	8.45E-19	7.44E-18	1.35E-17	3.44E-07
590	8.45E-19	7.44E-18	1.35E-17	3.43E-07
600	1.66E-17	1.46E-16	2.66E-16	3.41E-07
610	1.66E-17	1.46E-16	2.66E-16	3.38E-07
620	1.66E-17	1.46E-16	2.66E-16	3.36E-07
630	1.66E-17	1.46E-16	2.66E-16	3.34E-07
640	1.66E-17	1.46E-16	2.66E-16	3.31E-07
650	1.66E-17	1.46E-16	2.66E-16	3.29E-07
660	1.66E-17	1.46E-16	2.66E-16	3.26E-07
670	1.66E-17	1.46E-16	2.66E-16	3.23E-07
680	1.66E-17	1.46E-16	2.66E-16	3.20E-07
690	1.66E-17	1.46E-16	2.66E-16	3.16E-07
700	1.46E-16	1.28E-15	2.34E-15	3.14E-07
710	1.46E-16	1.28E-15	2.34E-15	3.10E-07
720	1.46E-16	1.28E-15	2.34E-15	3.07E-07
730	1.46E-16	1.28E-15	2.34E-15	3.04E-07
740	1.46E-16	1.28E-15	2.34E-15	3.00E-07
750	1.46E-16	1.28E-15	2.34E-15	2.97E-07
760	1.46E-16	1.28E-15	2.34E-15	2.94E-07
770	1.46E-16	1.28E-15	2.34E-15	2.90E-07
780	1.46E-16	1.28E-15	2.34E-15	2.87E-07
790	1.46E-16	1.28E-15	2.34E-15	2.83E-07
800	7.36E-16	6.48E-15	1.18E-14	2.81E-07
810	7.36E-16	6.48E-15	1.18E-14	2.78E-07
820	7.36E-16	6.48E-15	1.18E-14	2.73E-07
830	7.36E-16	6.48E-15	1.18E-14	2.71E-07
840	7.36E-16	6.48E-15	1.18E-14	2.67E-07
850	7.36E-16	6.48E-15	1.18E-14	2.63E-07
860	7.36E-16	6.48E-15	1.18E-14	2.60E-07
870	7.36E-16	6.48E-15	1.18E-14	2.56E-07
880	7.36E-16	6.48E-15	1.18E-14	2.53E-07
890	7.36E-16	6.48E-15	1.18E-14	2.49E-07
900	2.57E-15	2.26E-14	4.12E-14	2.49E-07
910	2.57E-15	2.26E-14	4.12E-14	2.45E-07
920	2.57E-15	2.26E-14	4.12E-14	2.41E-07
930	2.57E-15	2.26E-14	4.12E-14	2.38E-07
940	2.57E-15	2.26E-14	4.12E-14	2.34E-07
950	2.57E-15	2.26E-14	4.12E-14	2.31E-07
960	2.57E-15	2.26E-14	4.12E-14	2.28E-07
970	2.57E-15	2.26E-14	4.12E-14	2.24E-07
980	2.57E-15	2.26E-14	4.12E-14	2.21E-07
990	2.57E-15	2.26E-14	4.12E-14	2.18E-07
1000	7.05E-15	6.20E-14	1.13E-13	2.20E-07
1100	1.61E-14	1.42E-13	2.58E-13	2.24E-07
1200	3.23E-14	2.84E-13	5.17E-13	1.90E-07
1300	5.86E-14	5.16E-13	9.39E-13	1.84E-07
1400	9.77E-14	8.60E-13	1.56E-12	1.83E-07
1500	1.53E-13	1.35E-12	2.45E-12	1.87E-07
1600	2.28E-13	2.00E-12	3.65E-12	1.94E-07
1700	3.24E-13	2.85E-12	5.19E-12	2.03E-07
1800	4.44E-13	3.91E-12	7.11E-12	2.12E-07
1900	5.91E-13	5.20E-12	9.46E-12	2.23E-07

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure.

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure.

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Cancer Risk	Benz(a)pyrene Group					PCB Group	Tc-99 Group		U-238 Group						U-238 Group		
	Phenanthrene	Anthracene	Fluoranthene	Hexachlorobutadiene	Pyrrene		Benz(a)pyrene	Dioxin/Furan	Tc-99	Np-237	U-238	U-234	U-235	Ra-226	Pu-238	Pu-239	
2000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-19	4.96E-08	1.82E-07	3.79E-10	3.06E-10	1.54E-11	8.08E-11	2.49E-13	6.11E-13
2100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-19	4.24E-08	1.99E-07	4.81E-10	3.87E-10	1.95E-11	1.02E-10	3.16E-13	7.75E-13
2200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-19	3.62E-08	2.13E-07	5.96E-10	4.80E-10	2.41E-11	1.27E-10	3.91E-13	9.60E-13
2300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-19	3.08E-08	2.27E-07	7.29E-10	5.87E-10	2.95E-11	1.55E-10	4.78E-13	1.17E-12
2400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-19	2.63E-08	2.37E-07	8.76E-10	7.06E-10	3.55E-11	1.87E-10	5.75E-13	1.41E-12
2500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-19	2.23E-08	2.18E-07	1.04E-09	8.38E-10	4.22E-11	2.22E-10	6.83E-13	1.68E-12
2600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-19	1.89E-08	2.57E-07	1.22E-09	9.86E-10	4.96E-11	2.61E-10	8.03E-13	1.97E-12
2700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-19	1.61E-08	2.64E-07	1.42E-09	1.14E-09	5.75E-11	3.02E-10	9.32E-13	2.29E-12
2800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-19	1.37E-08	2.69E-07	1.64E-09	1.32E-09	6.63E-11	3.48E-10	1.07E-12	2.64E-12
2900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-19	1.16E-08	2.74E-07	1.87E-09	1.51E-09	7.57E-11	3.98E-10	1.23E-12	3.01E-12
3000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-20	9.87E-09	2.79E-07	2.12E-09	1.71E-09	8.59E-11	4.51E-10	1.39E-12	3.41E-12
3100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-20	8.34E-09	2.83E-07	2.39E-09	1.93E-09	9.69E-11	5.10E-10	1.57E-12	3.85E-12
3200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-20	7.07E-09	2.84E-07	2.69E-09	2.16E-09	1.09E-10	5.72E-10	1.76E-12	4.33E-12
3300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-20	5.99E-09	2.88E-07	2.98E-09	2.40E-09	1.21E-10	6.35E-10	1.96E-12	4.80E-12
3400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-20	5.08E-09	2.90E-07	3.30E-09	2.66E-09	1.34E-10	7.02E-10	2.16E-12	5.31E-12
3500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-20	4.30E-09	2.90E-07	3.63E-09	2.93E-09	1.47E-10	7.74E-10	2.38E-12	5.85E-12
3600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-20	3.64E-09	2.91E-07	4.00E-09	3.22E-09	1.62E-10	8.51E-10	2.62E-12	6.44E-12
3700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-20	3.08E-09	2.93E-07	4.38E-09	3.53E-09	1.77E-10	9.33E-10	2.87E-12	7.05E-12
3800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-21	2.61E-09	2.93E-07	4.76E-09	3.84E-09	1.93E-10	1.01E-09	3.13E-12	7.67E-12
3900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-21	2.21E-09	2.93E-07	5.19E-09	4.18E-09	2.10E-10	1.11E-09	3.41E-12	8.36E-12
4000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-21	1.87E-09	2.93E-07	5.62E-09	4.53E-09	2.28E-10	1.20E-09	3.69E-12	9.05E-12
4100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-21	1.58E-09	2.93E-07	6.07E-09	4.89E-09	2.46E-10	1.29E-09	3.98E-12	9.78E-12
4200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-21	1.34E-09	2.93E-07	6.52E-09	5.26E-09	2.64E-10	1.39E-09	4.28E-12	1.05E-11
4300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-21	1.13E-09	2.93E-07	7.00E-09	5.64E-09	2.83E-10	1.49E-09	4.59E-12	1.13E-11
4400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-22	9.58E-10	2.91E-07	7.49E-09	6.04E-09	3.04E-10	1.60E-09	4.92E-12	1.21E-11
4500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-22	8.13E-10	2.91E-07	8.01E-09	6.46E-09	3.23E-10	1.71E-09	5.26E-12	1.29E-11
4600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-22	6.86E-10	2.91E-07	8.56E-09	6.89E-09	3.47E-10	1.82E-09	5.61E-12	1.38E-11
4700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-22	5.80E-10	2.90E-07	9.10E-09	7.33E-09	3.69E-10	1.94E-09	5.97E-12	1.47E-11
4800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-22	4.91E-10	2.90E-07	9.66E-09	7.78E-09	3.91E-10	2.06E-09	6.34E-12	1.56E-11
4900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-23	4.15E-10	2.88E-07	1.02E-08	8.26E-09	4.15E-10	2.18E-09	6.73E-12	1.65E-11
5000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-23	3.51E-10	2.88E-07	1.08E-08	8.73E-09	4.39E-10	2.31E-09	7.11E-12	1.75E-11
5100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-23	2.97E-10	2.86E-07	1.14E-08	9.22E-09	4.64E-10	2.44E-09	7.51E-12	1.84E-11
5200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-23	2.51E-10	2.86E-07	1.21E-08	9.73E-09	4.89E-10	2.57E-09	7.93E-12	1.95E-11
5300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-23	2.13E-10	2.84E-07	1.27E-08	1.02E-08	5.15E-10	2.71E-09	8.34E-12	2.05E-11
5400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-24	1.80E-10	2.84E-07	1.34E-08	1.08E-08	5.41E-10	2.85E-09	8.77E-12	2.15E-11
5500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-24	1.52E-10	2.83E-07	1.40E-08	1.13E-08	5.68E-10	2.99E-09	9.20E-12	2.26E-11
5600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-24	1.28E-10	2.83E-07	1.47E-08	1.19E-08	5.96E-10	3.13E-09	9.66E-12	2.37E-11
5700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-24	1.09E-10	2.81E-07	1.54E-08	1.24E-08	6.25E-10	3.28E-09	1.01E-11	2.48E-11
5800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-24	9.21E-11	2.81E-07	1.61E-08	1.30E-08	6.53E-10	3.43E-09	1.06E-11	2.60E-11
5900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-24	7.76E-11	2.79E-07	1.68E-08	1.36E-08	6.82E-10	3.59E-09	1.11E-11	2.71E-11
6000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-25	6.57E-11	2.79E-07	1.76E-08	1.41E-08	7.11E-10	3.74E-09	1.15E-11	2.83E-11
6100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-25	5.56E-11	2.77E-07	1.83E-08	1.48E-08	7.43E-10	3.90E-09	1.20E-11	2.93E-11
6200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-25	4.70E-11	2.77E-07	1.91E-08	1.54E-08	7.73E-10	4.06E-09	1.25E-11	3.07E-11
6300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-25	3.98E-11	2.76E-07	1.99E-08	1.60E-08	8.05E-10	4.23E-09	1.30E-11	3.20E-11
6400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E												

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Cancer Risk	Pu-240	Th-230	Th-232	Total
2000	7.64E-13	6.72E-12	1.22E-11	2.32E-07
2100	9.68E-13	8.52E-12	1.55E-11	2.43E-07
2200	1.20E-12	1.06E-11	1.92E-11	2.51E-07
2300	1.47E-12	1.29E-11	2.35E-11	2.60E-07
2400	1.76E-12	1.55E-11	2.82E-11	2.67E-07
2500	2.10E-12	1.84E-11	3.35E-11	2.74E-07
2600	2.46E-12	2.17E-11	3.94E-11	2.81E-07
2700	2.86E-12	2.52E-11	4.58E-11	2.87E-07
2800	3.30E-12	2.90E-11	5.28E-11	2.91E-07
2900	3.76E-12	3.31E-11	6.02E-11	2.97E-07
3000	4.27E-12	3.76E-11	6.83E-11	3.03E-07
3100	4.82E-12	4.24E-11	7.71E-11	3.09E-07
3200	5.41E-12	4.76E-11	8.66E-11	3.13E-07
3300	6.00E-12	5.28E-11	9.60E-11	3.20E-07
3400	6.64E-12	5.84E-11	1.06E-10	3.26E-07
3500	7.32E-12	6.44E-11	1.17E-10	3.32E-07
3600	8.05E-12	7.08E-11	1.29E-10	3.40E-07
3700	8.82E-12	7.76E-11	1.41E-10	3.49E-07
3800	9.59E-12	8.44E-11	1.54E-10	3.57E-07
3900	1.05E-11	9.20E-11	1.67E-10	3.66E-07
4000	1.13E-11	9.96E-11	1.81E-10	3.77E-07
4100	1.22E-11	1.08E-10	1.96E-10	3.88E-07
4200	1.31E-11	1.16E-10	2.10E-10	4.00E-07
4300	1.41E-11	1.24E-10	2.26E-10	4.14E-07
4400	1.51E-11	1.33E-10	2.42E-10	4.26E-07
4500	1.61E-11	1.42E-10	2.58E-10	4.42E-07
4600	1.72E-11	1.52E-10	2.76E-10	4.58E-07
4700	1.83E-11	1.61E-10	2.93E-10	4.74E-07
4800	1.95E-11	1.71E-10	3.11E-10	4.92E-07
4900	2.06E-11	1.82E-10	3.30E-10	5.09E-07
5000	2.18E-11	1.92E-10	3.49E-10	5.29E-07
5100	2.30E-11	2.03E-10	3.69E-10	5.48E-07
5200	2.43E-11	2.14E-10	3.89E-10	5.69E-07
5300	2.56E-11	2.25E-10	4.10E-10	5.90E-07
5400	2.69E-11	2.37E-10	4.31E-10	6.13E-07
5500	2.82E-11	2.48E-10	4.52E-10	6.35E-07
5600	2.96E-11	2.61E-10	4.74E-10	6.57E-07
5700	3.10E-11	2.73E-10	4.97E-10	6.82E-07
5800	3.25E-11	2.86E-10	5.20E-10	7.07E-07
5900	3.39E-11	2.98E-10	5.43E-10	7.29E-07
6000	3.54E-11	3.11E-10	5.66E-10	7.56E-07
6100	3.69E-11	3.25E-10	5.91E-10	7.79E-07
6200	3.84E-11	3.38E-10	6.15E-10	8.06E-07
6300	4.00E-11	3.52E-10	6.40E-10	8.32E-07
6400	4.16E-11	3.66E-10	6.66E-10	8.58E-07
6500	4.32E-11	3.80E-10	6.91E-10	8.85E-07
6600	4.48E-11	3.94E-10	7.17E-10	9.11E-07
6700	4.64E-11	4.08E-10	7.42E-10	9.38E-07
6800	4.82E-11	4.24E-10	7.71E-10	9.64E-07
6900	5.00E-11	4.40E-10	8.00E-10	9.94E-07
7000	5.14E-11	4.52E-10	8.22E-10	1.02E-06
7100	5.32E-11	4.68E-10	8.51E-10	1.05E-06
7200	5.50E-11	4.84E-10	8.80E-10	1.07E-06
7300	5.68E-11	5.00E-10	9.10E-10	1.10E-06
7400	5.86E-11	5.16E-10	9.39E-10	1.13E-06

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Cancer Risk	Copper Group						Thallium Group							Chromium Group			
	Copper	Barium	Antimony	Manganese	Mercury	Uranium	Zinc	Thallium	Cadmium	Silver	Iron	Lead	Nickel	Beryllium	Vanadium	Arsenic	Chromium
7500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-07	0.00E+00	0.00E+00
7600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-07	0.00E+00	0.00E+00
7700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-07	0.00E+00	0.00E+00
7800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-07	0.00E+00	0.00E+00
7900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-07	0.00E+00	0.00E+00
8000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-07	0.00E+00	0.00E+00
8100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-07	0.00E+00	0.00E+00
8200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-06	0.00E+00	0.00E+00
8300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-06	0.00E+00	0.00E+00
8400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-06	0.00E+00	0.00E+00
8500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-06	0.00E+00	0.00E+00
8600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-06	0.00E+00	0.00E+00
8700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-06	0.00E+00	0.00E+00
8800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-06	0.00E+00	0.00E+00
8900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-06	0.00E+00	0.00E+00
9000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-06	0.00E+00	0.00E+00
9100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-06	0.00E+00	0.00E+00
9200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-06	0.00E+00	0.00E+00
9300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-06	0.00E+00	0.00E+00
9400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-06	0.00E+00	0.00E+00
9500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-06	0.00E+00	0.00E+00
9600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-06	0.00E+00	0.00E+00
9700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-06	0.00E+00	0.00E+00
9800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-06	0.00E+00	0.00E+00
9900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-06	0.00E+00	0.00E+00
10000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-06	0.00E+00	0.00E+00
Maximum Cancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-06	0.00E+00	0.00E+00

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Cancer Risk	Molybdenum	2-Butanone Group	Benzene Group						Vinyl Chloride Group						Trichloroethylene		
			2-Butanone	Benzene	Ethylbenzene	Xylene	m-Xylene	p-Xylene	o-Xylene	Vinyl chloride	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	Chloroform	1,1-DCE	1,2-DCE	
7500	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
7600	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
7700	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
7800	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
7900	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
8000	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
8100	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
8200	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
8300	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
8400	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
8500	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
8600	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
8700	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
8800	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
8900	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
9000	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
9100	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
9200	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
9300	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
9400	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
9500	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
9600	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
9700	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
9800	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
9900	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
10000	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
Maximum Cancer	0.00E+00	0.00E+00	8.49E-16	2.24E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-10	0.00E+00	0.00E+00	2.39E-12	9.69E-12	1.79E-11	0.00E+00	4.45E-13

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Cancer Risk	Trichloroethene Group		Chlorobenzene Group			2-Methylphenol Group						
	Carbon tetrachloride	Tetrachloroethylene	Chlorobenzene	1,4-Dichlorobenzene	Hexachlorobenzene	2-Methylphenol	Pyridine	4-Methylphenol	3-Methylphenol	2,4-DNT	Nitrobenzene	2,4,6-Trichlorophenol
7500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Maximum Cancer	1.46E-13	4.02E-14	0.00E+00	5.64E-16	4.96E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-14	0.00E+00	2.03E-17

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Cancer Risk	gamma-Chlordane Group						Pentachlorophenol Group						
	2,4,5-Trichlorophenol	Acrylonitrile	gamma-Chlordane	alpha Chlordane	Methoxychlor	Heptachlor epoxid	Toxaphene	Pentachlorophenol	Naphthalene	Hexachloroethane	Acenaphthene	Acenaphthylene	Fluorene
7500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Maximum Cancer	0.00E+00	9.39E-13	2.66E-31	2.66E-31	0.00E+00	4.09E-31	1.13E-30	9.95E-13	0.00E+00	3.35E-15	0.00E+00	0.00E+00	0.00E+00

Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Cancer Risk	Pu-240	Th-230	Th-222	Total
7500	6.00E-11	5.28E-10	9.60E-10	1.16E-06
7600	6.18E-11	5.44E-10	9.90E-10	1.19E-06
7700	6.36E-11	5.60E-10	1.02E-09	1.21E-06
7800	6.59E-11	5.80E-10	1.06E-09	1.24E-06
7900	6.77E-11	5.96E-10	1.08E-09	1.27E-06
8000	6.95E-11	6.12E-10	1.11E-09	1.30E-06
8100	7.14E-11	6.28E-10	1.14E-09	1.32E-06
8200	7.32E-11	6.44E-10	1.17E-09	1.35E-06
8300	7.50E-11	6.60E-10	1.20E-09	1.38E-06
8400	7.73E-11	6.80E-10	1.24E-09	1.41E-06
8500	7.91E-11	6.96E-10	1.27E-09	1.43E-06
8600	8.09E-11	7.12E-10	1.30E-09	1.46E-06
8700	8.32E-11	7.32E-10	1.33E-09	1.48E-06
8800	8.50E-11	7.48E-10	1.36E-09	1.51E-06
8900	8.68E-11	7.64E-10	1.39E-09	1.54E-06
9000	8.91E-11	7.84E-10	1.43E-09	1.57E-06
9100	9.09E-11	8.00E-10	1.46E-09	1.59E-06
9200	9.32E-11	8.20E-10	1.49E-09	1.62E-06
9300	9.50E-11	8.36E-10	1.52E-09	1.64E-06
9400	9.73E-11	8.56E-10	1.56E-09	1.67E-06
9500	9.91E-11	8.72E-10	1.59E-09	1.70E-06
9600	1.01E-10	8.92E-10	1.62E-09	1.72E-06
9700	1.03E-10	9.08E-10	1.65E-09	1.75E-06
9800	1.05E-10	9.28E-10	1.69E-09	1.78E-06
9900	1.07E-10	9.44E-10	1.72E-09	1.80E-06
10000	1.10E-10	9.64E-10	1.75E-09	1.83E-06
Maximum Cancer	1.10E-10	9.64E-10	1.75E-09	1.83E-06

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Table C.1.3. Cancer risk results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary point of exposure

Cancer Risk	Benz(a)pyrene Group					PCB Group	Tc-99 Group		U-238 Group							
	Benz(a)pyrene	Dioxin/Furan	PCB	Tc-99	Np-237		U-238	U-234	U-235	Ra-226	Pu-238	Pu-239				
7500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-28	5.32E-12	2.65E-07	2.98E-08	2.40E-08	1.21E-09	6.35E-09	1.96E-11	4.80E-11
7600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-28	4.50E-12	2.64E-07	3.07E-08	2.47E-08	1.24E-09	6.54E-09	2.01E-11	4.95E-11
7700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-28	3.80E-12	2.64E-07	3.16E-08	2.55E-08	1.28E-09	6.73E-09	2.07E-11	5.09E-11
7800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-28	3.21E-12	2.62E-07	3.27E-08	2.64E-08	1.33E-09	6.97E-09	2.15E-11	5.27E-11
7900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-29	2.72E-12	2.62E-07	3.36E-08	2.71E-08	1.36E-09	7.16E-09	2.21E-11	5.42E-11
8000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-29	2.30E-12	2.60E-07	3.45E-08	2.78E-08	1.40E-09	7.35E-09	2.27E-11	5.56E-11
8100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-29	1.94E-12	2.60E-07	3.54E-08	2.86E-08	1.44E-09	7.55E-09	2.33E-11	5.71E-11
8200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-29	1.65E-12	2.60E-07	3.63E-08	2.93E-08	1.47E-09	7.74E-09	2.38E-11	5.85E-11
8300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-30	1.39E-12	2.58E-07	3.72E-08	3.00E-08	1.51E-09	7.93E-09	2.44E-11	6.00E-11
8400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-30	1.18E-12	2.58E-07	3.84E-08	3.09E-08	1.55E-09	8.17E-09	2.52E-11	6.18E-11
8500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-30	9.94E-13	2.57E-07	3.93E-08	3.16E-08	1.59E-09	8.36E-09	2.58E-11	6.33E-11
8600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-30	8.42E-13	2.57E-07	4.02E-08	3.24E-08	1.63E-09	8.56E-09	2.64E-11	6.47E-11
8700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-30	7.11E-13	2.55E-07	4.13E-08	3.33E-08	1.67E-09	8.80E-09	2.71E-11	6.65E-11
8800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-31	6.01E-13	2.55E-07	4.22E-08	3.40E-08	1.71E-09	8.99E-09	2.77E-11	6.80E-11
8900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-31	5.09E-13	2.53E-07	4.31E-08	3.47E-08	1.75E-09	9.18E-09	2.83E-11	6.95E-11
9000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-31	4.30E-13	2.53E-07	4.42E-08	3.56E-08	1.79E-09	9.42E-09	2.90E-11	7.13E-11
9100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-31	3.63E-13	2.51E-07	4.51E-08	3.64E-08	1.83E-09	9.61E-09	2.96E-11	7.27E-11
9200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-31	3.08E-13	2.51E-07	4.63E-08	3.73E-08	1.87E-09	9.85E-09	3.04E-11	7.45E-11
9300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-32	2.60E-13	2.50E-07	4.72E-08	3.80E-08	1.91E-09	1.00E-08	3.10E-11	7.60E-11
9400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-32	2.20E-13	2.50E-07	4.83E-08	3.89E-08	1.96E-09	1.03E-08	3.17E-11	7.78E-11
9500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-32	1.86E-13	2.48E-07	4.92E-08	3.96E-08	1.99E-09	1.05E-08	3.23E-11	7.93E-11
9600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-32	1.57E-13	2.48E-07	5.03E-08	4.06E-08	2.04E-09	1.07E-08	3.30E-11	8.11E-11
9700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-33	1.33E-13	2.48E-07	5.12E-08	4.13E-08	2.08E-09	1.09E-08	3.36E-11	8.25E-11
9800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-33	1.12E-13	2.46E-07	5.24E-08	4.22E-08	2.12E-09	1.12E-08	3.44E-11	8.44E-11
9900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-33	9.50E-14	2.46E-07	5.33E-08	4.29E-08	2.16E-09	1.13E-08	3.50E-11	8.58E-11
10000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-33	8.05E-14	2.44E-07	5.44E-08	4.38E-08	2.20E-09	1.16E-08	3.57E-11	8.76E-11
Maximum Cancer	0.00E+00	0.00E+00	0.00E+00	4.87E-16	0.00E+00	0.00E+00	0.00E+00	2.86E-19	3.49E-07	2.93E-07	5.44E-08	4.38E-08	2.20E-09	1.16E-08	3.57E-11	8.76E-11

Table C.1.4. Dose results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary

Dose	Tc-99 Group		U-238 Group								Total	
	Tc-99	Np-237	U-238	U-234	U-235	Ra-226	Pu-238	Pu-239	Pu-240	Th-230	Th-232	
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	2.30E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-19
20	5.57E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-17
30	8.52E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-16
40	4.40E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-15
50	1.35E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-14
60	4.41E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-11
70	3.85E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-10
80	1.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-09
90	6.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-09
100	3.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-08
110	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-07
120	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-07
130	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-06
140	4.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-06
150	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
160	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
170	6.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05
180	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
190	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
200	3.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-04
210	5.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-04
220	7.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-04
230	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
240	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
250	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03
260	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03
270	2.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-03
280	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03
290	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03
300	2.80E-03	9.47E-11	8.87E-16	9.26E-16	4.33E-17	3.10E-16	4.61E-18	1.21E-17	1.52E-17	2.60E-17	3.17E-17	2.80E-03
310	3.04E-03	9.47E-11	8.87E-16	9.26E-16	4.33E-17	3.10E-16	4.61E-18	1.21E-17	1.52E-17	2.60E-17	3.17E-17	3.04E-03
320	3.25E-03	9.47E-11	8.87E-16	9.26E-16	4.33E-17	3.10E-16	4.61E-18	1.21E-17	1.52E-17	2.60E-17	3.17E-17	3.25E-03
330	3.46E-03	9.47E-11	8.87E-16	9.26E-16	4.33E-17	3.10E-16	4.61E-18	1.21E-17	1.52E-17	2.60E-17	3.17E-17	3.46E-03
340	3.64E-03	9.47E-11	8.87E-16	9.26E-16	4.33E-17	3.10E-16	4.61E-18	1.21E-17	1.52E-17	2.60E-17	3.17E-17	3.64E-03
350	3.81E-03	9.47E-11	8.87E-16	9.26E-16	4.33E-17	3.10E-16	4.61E-18	1.21E-17	1.52E-17	2.60E-17	3.17E-17	3.81E-03
360	3.98E-03	9.47E-11	8.87E-16	9.26E-16	4.33E-17	3.10E-16	4.61E-18	1.21E-17	1.52E-17	2.60E-17	3.17E-17	3.98E-03
370	4.12E-03	9.47E-11	8.87E-16	9.26E-16	4.33E-17	3.10E-16	4.61E-18	1.21E-17	1.52E-17	2.60E-17	3.17E-17	4.12E-03
380	4.26E-03	9.47E-11	8.87E-16	9.26E-16	4.33E-17	3.10E-16	4.61E-18	1.21E-17	1.52E-17	2.60E-17	3.17E-17	4.26E-03
390	4.38E-03	9.47E-11	8.87E-16	9.26E-16	4.33E-17	3.10E-16	4.61E-18	1.21E-17	1.52E-17	2.60E-17	3.17E-17	4.38E-03
400	4.48E-03	9.35E-08	6.35E-13	6.63E-13	3.10E-14	2.22E-13	3.30E-15	8.68E-15	1.08E-14	1.86E-14	2.27E-14	4.48E-03
410	4.58E-03	9.35E-08	6.35E-13	6.63E-13	3.10E-14	2.22E-13	3.30E-15	8.68E-15	1.08E-14	1.86E-14	2.27E-14	4.58E-03
420	4.66E-03	9.35E-08	6.35E-13	6.63E-13	3.10E-14	2.22E-13	3.30E-15	8.68E-15	1.08E-14	1.86E-14	2.27E-14	4.66E-03
430	4.73E-03	9.35E-08	6.35E-13	6.63E-13	3.10E-14	2.22E-13	3.30E-15	8.68E-15	1.08E-14	1.86E-14	2.27E-14	4.73E-03
440	4.80E-03	9.35E-08	6.35E-13	6.63E-13	3.10E-14	2.22E-13	3.30E-15	8.68E-15	1.08E-14	1.86E-14	2.27E-14	4.80E-03
450	4.85E-03	9.35E-08	6.35E-13	6.63E-13	3.10E-14	2.22E-13	3.30E-15	8.68E-15	1.08E-14	1.86E-14	2.27E-14	4.85E-03
460	4.90E-03	9.35E-08	6.35E-13	6.63E-13	3.10E-14	2.22E-13	3.30E-15	8.68E-15	1.08E-14	1.86E-14	2.27E-14	4.90E-03
470	4.93E-03	9.35E-08	6.35E-13	6.63E-13	3.10E-14	2.22E-13	3.30E-15	8.68E-15	1.08E-14	1.86E-14	2.27E-14	4.93E-03
480	4.96E-03	9.35E-08	6.35E-13	6.63E-13	3.10E-14	2.22E-13	3.30E-15	8.68E-15	1.08E-14	1.86E-14	2.27E-14	4.96E-03
490	4.98E-03	9.35E-08	6.35E-13	6.63E-13	3.10E-14	2.22E-13	3.30E-15	8.68E-15	1.08E-14	1.86E-14	2.27E-14	4.98E-03
500	5.00E-03	4.60E-06	3.50E-11	3.66E-11	1.71E-12	1.23E-11	1.82E-13	4.79E-13	5.99E-13	1.03E-12	1.25E-12	5.00E-03
510	5.00E-03	4.60E-06	3.50E-11	3.66E-11	1.71E-12	1.23E-11	1.82E-13	4.79E-13	5.99E-13	1.03E-12	1.25E-12	5.00E-03
520	5.00E-03	4.60E-06	3.50E-11	3.66E-11	1.71E-12	1.23E-11	1.82E-13	4.79E-13	5.99E-13	1.03E-12	1.25E-12	5.00E-03
530	5.00E-03	4.60E-06	3.50E-11	3.66E-11	1.71E-12	1.23E-11	1.82E-13	4.79E-13	5.99E-13	1.03E-12	1.25E-12	5.00E-03
540	5.00E-03	4.60E-06	3.50E-11	3.66E-11	1.71E-12	1.23E-11	1.82E-13	4.79E-13	5.99E-13	1.03E-12	1.25E-12	5.00E-03
550	4.99E-03	4.60E-06	3.50E-11	3.66E-11	1.71E-12	1.23E-11	1.82E-13	4.79E-13	5.99E-13	1.03E-12	1.25E-12	4.99E-03
560	4.97E-03	4.60E-06	3.50E-11	3.66E-11	1.71E-12	1.23E-11	1.82E-13	4.79E-13	5.99E-13	1.03E-12	1.25E-12	4.97E-03
570	4.95E-03	4.60E-06	3.50E-11	3.66E-11	1.71E-12	1.23E-11	1.82E-13	4.79E-13	5.99E-13	1.03E-12	1.25E-12	4.95E-03
580	4.93E-03	4.60E-06	3.50E-11	3.66E-11	1.71E-12	1.23E-11	1.82E-13	4.79E-13	5.99E-13	1.03E-12	1.25E-12	4.93E-03
590	4.91E-03	4.60E-06	3.50E-11	3.66E-11	1.71E-12	1.23E-11	1.82E-13	4.79E-13	5.99E-13	1.03E-12	1.25E-12	4.91E-03
600	4.88E-03	6.93E-05	6.89E-10	7.20E-10	3.37E-11	2.41E-10	3.59E-12	9.42E-12	1.18E-11	2.02E-11	2.46E-11	4.88E-03
610	4.84E-03	6.93E-05	6.89E-10	7.20E-10	3.37E-11	2.41E-10	3.59E-12	9.42E-12	1.18E-11	2.02E-11	2.46E-11	4.84E-03
620	4.81E-03	6.93E-05	6.89E-10	7.20E-10	3.37E-11	2.41E-10	3.59E-12	9.42E-12	1.18E-			

Table C.1.4. Dose results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary

Dose	Tc-99 Group		U-238 Group								Total	
	Tc-99	Np-237	U-238	U-234	U-235	Ra-226	Pu-238	Pu-239	Pu-240	Th-230	Th-232	
800	4.00E-03	2.16E-03	3.05E-08	3.19E-08	1.49E-09	1.07E-08	1.59E-10	4.17E-10	5.21E-10	8.95E-10	1.09E-09	6.16E-03
810	3.96E-03	2.16E-03	3.05E-08	3.19E-08	1.49E-09	1.07E-08	1.59E-10	4.17E-10	5.21E-10	8.95E-10	1.09E-09	6.12E-03
820	3.90E-03	2.16E-03	3.05E-08	3.19E-08	1.49E-09	1.07E-08	1.59E-10	4.17E-10	5.21E-10	8.95E-10	1.09E-09	6.06E-03
830	3.85E-03	2.16E-03	3.05E-08	3.19E-08	1.49E-09	1.07E-08	1.59E-10	4.17E-10	5.21E-10	8.95E-10	1.09E-09	6.02E-03
840	3.80E-03	2.16E-03	3.05E-08	3.19E-08	1.49E-09	1.07E-08	1.59E-10	4.17E-10	5.21E-10	8.95E-10	1.09E-09	5.97E-03
850	3.75E-03	2.16E-03	3.05E-08	3.19E-08	1.49E-09	1.07E-08	1.59E-10	4.17E-10	5.21E-10	8.95E-10	1.09E-09	5.91E-03
860	3.70E-03	2.16E-03	3.05E-08	3.19E-08	1.49E-09	1.07E-08	1.59E-10	4.17E-10	5.21E-10	8.95E-10	1.09E-09	5.86E-03
870	3.65E-03	2.16E-03	3.05E-08	3.19E-08	1.49E-09	1.07E-08	1.59E-10	4.17E-10	5.21E-10	8.95E-10	1.09E-09	5.81E-03
880	3.60E-03	2.16E-03	3.05E-08	3.19E-08	1.49E-09	1.07E-08	1.59E-10	4.17E-10	5.21E-10	8.95E-10	1.09E-09	5.76E-03
890	3.55E-03	2.16E-03	3.05E-08	3.19E-08	1.49E-09	1.07E-08	1.59E-10	4.17E-10	5.21E-10	8.95E-10	1.09E-09	5.71E-03
900	3.51E-03	6.46E-03	1.07E-07	1.11E-07	5.21E-09	3.73E-08	5.55E-10	1.46E-09	1.82E-09	3.13E-09	3.81E-09	9.97E-03
910	3.46E-03	6.46E-03	1.07E-07	1.11E-07	5.21E-09	3.73E-08	5.55E-10	1.46E-09	1.82E-09	3.13E-09	3.81E-09	9.92E-03
920	3.40E-03	6.46E-03	1.07E-07	1.11E-07	5.21E-09	3.73E-08	5.55E-10	1.46E-09	1.82E-09	3.13E-09	3.81E-09	9.86E-03
930	3.35E-03	6.46E-03	1.07E-07	1.11E-07	5.21E-09	3.73E-08	5.55E-10	1.46E-09	1.82E-09	3.13E-09	3.81E-09	9.81E-03
940	3.30E-03	6.46E-03	1.07E-07	1.11E-07	5.21E-09	3.73E-08	5.55E-10	1.46E-09	1.82E-09	3.13E-09	3.81E-09	9.76E-03
950	3.25E-03	6.46E-03	1.07E-07	1.11E-07	5.21E-09	3.73E-08	5.55E-10	1.46E-09	1.82E-09	3.13E-09	3.81E-09	9.71E-03
960	3.21E-03	6.46E-03	1.07E-07	1.11E-07	5.21E-09	3.73E-08	5.55E-10	1.46E-09	1.82E-09	3.13E-09	3.81E-09	9.67E-03
970	3.16E-03	6.46E-03	1.07E-07	1.11E-07	5.21E-09	3.73E-08	5.55E-10	1.46E-09	1.82E-09	3.13E-09	3.81E-09	9.62E-03
980	3.12E-03	6.46E-03	1.07E-07	1.11E-07	5.21E-09	3.73E-08	5.55E-10	1.46E-09	1.82E-09	3.13E-09	3.81E-09	9.58E-03
990	3.07E-03	6.46E-03	1.07E-07	1.11E-07	5.21E-09	3.73E-08	5.55E-10	1.46E-09	1.82E-09	3.13E-09	3.81E-09	9.53E-03
1000	3.03E-03	1.51E-02	2.92E-07	3.05E-07	1.43E-08	1.02E-07	1.52E-09	3.99E-09	4.99E-09	8.56E-09	1.04E-08	1.81E-02
1100	2.97E-03	2.93E-02	6.67E-07	6.96E-07	3.26E-08	2.33E-07	3.47E-09	9.11E-09	1.14E-08	1.96E-08	2.38E-08	3.22E-02
1200	2.32E-03	4.97E-02	1.34E-06	1.40E-06	6.53E-08	4.68E-07	6.96E-09	1.83E-08	2.28E-08	3.92E-08	4.77E-08	5.20E-02
1300	2.03E-03	7.64E-02	2.43E-06	2.54E-06	1.19E-07	8.50E-07	1.26E-08	3.32E-08	4.15E-08	7.13E-08	8.67E-08	7.84E-02
1400	1.76E-03	1.08E-01	4.05E-06	4.23E-06	1.98E-07	1.42E-06	2.11E-08	5.53E-08	6.92E-08	1.19E-07	1.45E-07	1.10E-01
1500	1.52E-03	1.44E-01	6.35E-06	6.63E-06	3.10E-07	2.22E-06	3.30E-08	8.68E-08	1.08E-07	1.86E-07	2.27E-07	1.45E-01
1600	1.31E-03	1.81E-01	9.44E-06	9.83E-06	4.61E-07	3.30E-06	4.91E-08	1.29E-07	1.61E-07	2.77E-07	3.37E-07	1.83E-01
1700	1.13E-03	2.19E-01	1.34E-05	1.40E-05	6.56E-07	4.70E-06	6.99E-08	1.84E-07	2.29E-07	3.94E-07	4.79E-07	2.20E-01
1800	9.70E-04	2.57E-01	1.84E-05	1.92E-05	8.98E-07	6.44E-06	9.57E-08	2.52E-07	3.14E-07	5.40E-07	6.57E-07	2.58E-01
1900	8.31E-04	2.92E-01	2.45E-05	2.56E-05	1.20E-06	8.56E-06	1.27E-07	3.35E-07	4.18E-07	7.18E-07	8.74E-07	2.93E-01
2000	7.10E-04	3.23E-01	3.16E-05	3.30E-05	1.54E-06	1.11E-05	1.65E-07	4.32E-07	5.41E-07	9.28E-07	1.13E-06	3.24E-01
2100	6.06E-04	3.54E-01	4.01E-05	4.19E-05	1.96E-06	1.40E-05	2.09E-07	5.48E-07	6.85E-07	1.18E-06	1.43E-06	3.55E-01
2200	5.18E-04	3.79E-01	4.97E-05	5.19E-05	2.43E-06	1.74E-05	2.59E-07	6.80E-07	8.50E-07	1.46E-06	1.78E-06	3.80E-01
2300	4.41E-04	4.04E-01	6.08E-05	6.35E-05	2.97E-06	2.13E-05	3.16E-07	8.31E-07	1.04E-06	1.78E-06	2.17E-06	4.04E-01
2400	3.76E-04	4.22E-01	7.31E-05	7.63E-05	3.57E-06	2.56E-05	3.80E-07	9.99E-07	1.23E-06	2.14E-06	2.61E-06	4.23E-01
2500	3.20E-04	4.41E-01	8.68E-05	9.06E-05	4.24E-06	3.04E-05	4.52E-07	1.19E-06	1.48E-06	2.55E-06	3.10E-06	4.42E-01
2600	2.71E-04	4.57E-01	1.02E-04	1.07E-04	4.98E-06	3.57E-05	5.31E-07	1.40E-06	1.74E-06	2.99E-06	3.64E-06	4.57E-01
2700	2.31E-04	4.69E-01	1.18E-04	1.24E-04	5.78E-06	4.14E-05	6.16E-07	1.62E-06	2.02E-06	3.48E-06	4.23E-06	4.69E-01
2800	1.96E-04	4.78E-01	1.37E-04	1.43E-04	6.67E-06	4.78E-05	7.10E-07	1.87E-06	2.33E-06	4.01E-06	4.88E-06	4.79E-01
2900	1.66E-04	4.88E-01	1.56E-04	1.63E-04	7.61E-06	5.46E-05	8.11E-07	2.13E-06	2.66E-06	4.57E-06	5.57E-06	4.88E-01
3000	1.41E-04	4.97E-01	1.77E-04	1.85E-04	8.64E-06	6.19E-05	9.20E-07	2.42E-06	3.02E-06	5.19E-06	6.31E-06	4.97E-01
3100	1.19E-04	5.03E-01	2.00E-04	2.08E-04	9.75E-06	6.98E-05	1.04E-06	2.73E-06	3.41E-06	5.86E-06	7.13E-06	5.04E-01
3200	1.01E-04	5.06E-01	2.24E-04	2.34E-04	1.09E-05	7.84E-05	1.17E-06	3.06E-06	3.83E-06	6.57E-06	8.00E-06	5.07E-01
3300	8.58E-05	5.12E-01	2.49E-04	2.60E-04	1.21E-05	8.70E-05	1.29E-06	3.40E-06	4.25E-06	7.29E-06	8.88E-06	5.13E-01
3400	7.27E-05	5.16E-01	2.75E-04	2.87E-04	1.34E-05	9.62E-05	1.43E-06	3.76E-06	4.70E-06	8.07E-06	9.82E-06	5.16E-01
3500	6.16E-05	5.16E-01	3.03E-04	3.17E-04	1.48E-05	1.06E-04	1.58E-06	4.14E-06	5.18E-06	8.90E-06	1.08E-05	5.16E-01
3600	5.21E-05	5.19E-01	3.33E-04	3.48E-04	1.63E-05	1.17E-04	1.73E-06	4.56E-06	5.70E-06	9.78E-06	1.19E-05	5.20E-01
3700	4.41E-05	5.22E-01	3.65E-04	3.81E-04	1.78E-05	1.28E-04	1.90E-06	4.99E-06	6.24E-06	1.07E-05	1.30E-05	5.23E-01
3800	3.74E-05	5.22E-01	3.97E-04	4.15E-04	1.94E-05	1.39E-04	2.07E-06	5.43E-06	6.79E-06	1.17E-05	1.42E-05	5.23E-01
3900	3.17E-05	5.22E-01	4.33E-04	4.52E-04	2.12E-05	1.52E-04	2.25E-06	5.92E-06	7.40E-06	1.27E-05	1.55E-05	5.23E-01
4000	2.68E-05	5.22E-01	4.69E-04	4.90E-04	2.29E-05	1.64E-04	2.44E-06	6.41E-06	8.01E-06	1.38E-05	1.67E-05	5.23E-01
4100	2.26E-05	5.22E-01	5.07E-04	5.29E-04	2.47E-05	1.77E-04	2.64E-06	6.92E-06	8.66E-06	1.49E-05	1.81E-05	5.23E-01
4200	1.92E-05	5.22E-01	5.44E-04	5.68E-04	2.66E-05	1.90E-04	2.83E-06	7.44E-06	9.30E-06	1.60E-05	1.94E-05	5.23E-01
4300	1.62E-05	5.22E-01	5.84E-04	6.10E-04	2.85E-05	2.04E-04	3.04E-06	7.98E-06	9.98E-06	1.71E-05	2.08E-05	5.23E-01
4400	1.37E-05	5.19E-01	6.25E-04	6.53E-04	3.05E-05	2.19E-04	3.25E-06	8.55E-06	1.07E-05	1.83E-05	2.23E-05	5.20E-01
4500	1.16E-05	5.19E-01	6.69E-04	6.98E-04	3.26E-05	2.34E-04	3.48E-06	9.14E-06	1.14E-05	1.96E-05	2.39E-05	5.20E-01
4600	9.81E-06	5.19E-01	7.14E-04	7.45E-04	3.49E-05	2.50E-04	3.71E-06	9.76E-06	1.22E-05	2.09E-05	2.55E-05	5.20E-01
4700	8.31E-06	5.16E-01	7.59E-04	7.92E-04	3.71E-05	2.66E-04	3.95E-06	1.04E-05	1.30E-05	2.23E-05	2.71E-05	5.17E-01
4800	7.03E-06	5.16E-01	8.06E-04	8.42E-04	3.94E-05	2.82E-04	4.19E-06	1.10E-05	1.38E-05	2.36E-05	2.88E-05	5.18E-01
4900	5.94E-06	5.12E-01	8.55E-04	8.93E-04	4.18E-05	2.99E-04	4.45E-06	1.17E-05	1.46E-05	2.51E-05	3.05E-05	5.15E-01
5000	5.03E-06	5.12E-01	9.04E-04	9.44E-04	4.41E-05	3.16E-04	4.70E-06	1.24E-05	1.54E-05	2.65E-05	3.23E-05	5.15E-01
5100	4.25E-06	5.09E-01	9.55E-04	9.97E-04	4.66E-05	3.14E-04	4.97E-06	1.31E-05	1.63E-05	2.80E-05	3.41E-05	5.12E-01
5200	3.59E-06	5.09E-01	1.01E-03	1.05E-03	4.92							

Table C.1.4. Dose results for a resident using groundwater drawn from a well completed in the RGA at the DOE property boundary

Dose	Tc-99 Group		U-238 Group									Total
	Tc-99	Np-237	U-238	U-234	U-235	Ra-226	Pu-238	Pu-239	Pu-240	Tb-230	Th-232	
7000	1.76E-07	4.78E-01	2.13E-03	2.22E-03	1.04E-04	7.44E-04	1.11E-05	2.91E-05	3.64E-05	6.24E-05	7.60E-05	4.84E-01
7100	1.49E-07	4.78E-01	2.20E-03	2.30E-03	1.08E-04	7.71E-04	1.15E-05	3.01E-05	3.76E-05	6.46E-05	7.87E-05	4.84E-01
7200	1.26E-07	4.75E-01	2.28E-03	2.38E-03	1.11E-04	7.97E-04	1.19E-05	3.11E-05	3.89E-05	6.69E-05	8.14E-05	4.81E-01
7300	1.07E-07	4.75E-01	2.35E-03	2.46E-03	1.15E-04	8.24E-04	1.22E-05	3.22E-05	4.02E-05	6.91E-05	8.41E-05	4.81E-01
7400	9.00E-08	4.72E-01	2.43E-03	2.54E-03	1.19E-04	8.50E-04	1.26E-05	3.32E-05	4.15E-05	7.13E-05	8.67E-05	4.78E-01
7500	7.61E-08	4.72E-01	2.49E-03	2.60E-03	1.21E-04	8.70E-04	1.29E-05	3.40E-05	4.25E-05	7.29E-05	8.88E-05	4.78E-01
7600	6.44E-08	4.69E-01	2.56E-03	2.67E-03	1.25E-04	8.96E-04	1.33E-05	3.50E-05	4.38E-05	7.51E-05	9.14E-05	4.75E-01
7700	5.44E-08	4.69E-01	2.64E-03	2.75E-03	1.29E-04	9.22E-04	1.37E-05	3.60E-05	4.50E-05	7.74E-05	9.41E-05	4.76E-01
7800	4.60E-08	4.66E-01	2.73E-03	2.85E-03	1.33E-04	9.55E-04	1.42E-05	3.73E-05	4.67E-05	8.01E-05	9.75E-05	4.73E-01
7900	3.89E-08	4.66E-01	2.81E-03	2.93E-03	1.37E-04	9.82E-04	1.46E-05	3.84E-05	4.79E-05	8.23E-05	1.00E-04	4.73E-01
8000	3.29E-08	4.63E-01	2.88E-03	3.01E-03	1.41E-04	1.01E-03	1.50E-05	3.94E-05	4.92E-05	8.45E-05	1.03E-04	4.70E-01
8100	2.78E-08	4.63E-01	2.96E-03	3.09E-03	1.44E-04	1.03E-03	1.54E-05	4.04E-05	5.05E-05	8.67E-05	1.06E-04	4.70E-01
8200	2.36E-08	4.63E-01	3.03E-03	3.17E-03	1.48E-04	1.06E-03	1.58E-05	4.14E-05	5.18E-05	8.90E-05	1.08E-04	4.70E-01
8300	1.99E-08	4.60E-01	3.11E-03	3.24E-03	1.52E-04	1.09E-03	1.62E-05	4.25E-05	5.31E-05	9.12E-05	1.11E-04	4.68E-01
8400	1.68E-08	4.60E-01	3.20E-03	3.34E-03	1.56E-04	1.12E-03	1.67E-05	4.38E-05	5.47E-05	9.39E-05	1.14E-04	4.68E-01
8500	1.42E-08	4.57E-01	3.28E-03	3.42E-03	1.60E-04	1.15E-03	1.70E-05	4.48E-05	5.60E-05	9.61E-05	1.17E-04	4.65E-01
8600	1.20E-08	4.57E-01	3.35E-03	3.50E-03	1.64E-04	1.17E-03	1.74E-05	4.58E-05	5.73E-05	9.83E-05	1.20E-04	4.65E-01
8700	1.02E-08	4.53E-01	3.45E-03	3.60E-03	1.68E-04	1.21E-03	1.79E-05	4.71E-05	5.89E-05	1.01E-04	1.23E-04	4.62E-01
8800	8.61E-09	4.53E-01	3.52E-03	3.68E-03	1.72E-04	1.23E-03	1.83E-05	4.81E-05	6.02E-05	1.03E-04	1.26E-04	4.62E-01
8900	7.28E-09	4.50E-01	3.60E-03	3.76E-03	1.76E-04	1.26E-03	1.87E-05	4.92E-05	6.15E-05	1.06E-04	1.28E-04	4.59E-01
9000	6.16E-09	4.50E-01	3.69E-03	3.85E-03	1.80E-04	1.29E-03	1.92E-05	5.05E-05	6.31E-05	1.08E-04	1.32E-04	4.60E-01
9100	5.20E-09	4.47E-01	3.77E-03	3.93E-03	1.84E-04	1.32E-03	1.96E-05	5.15E-05	6.44E-05	1.11E-04	1.34E-04	4.57E-01
9200	4.40E-09	4.47E-01	3.86E-03	4.03E-03	1.89E-04	1.35E-03	2.01E-05	5.28E-05	6.60E-05	1.13E-04	1.38E-04	4.57E-01
9300	3.72E-09	4.44E-01	3.94E-03	4.11E-03	1.92E-04	1.38E-03	2.05E-05	5.38E-05	6.73E-05	1.15E-04	1.41E-04	4.54E-01
9400	3.15E-09	4.44E-01	4.03E-03	4.21E-03	1.97E-04	1.41E-03	2.10E-05	5.51E-05	6.89E-05	1.18E-04	1.44E-04	4.54E-01
9500	2.66E-09	4.41E-01	4.11E-03	4.29E-03	2.00E-04	1.44E-03	2.14E-05	5.61E-05	7.01E-05	1.20E-04	1.47E-04	4.51E-01
9600	2.25E-09	4.41E-01	4.20E-03	4.38E-03	2.05E-04	1.47E-03	2.19E-05	5.74E-05	7.18E-05	1.23E-04	1.50E-04	4.52E-01
9700	1.90E-09	4.41E-01	4.27E-03	4.46E-03	2.09E-04	1.50E-03	2.22E-05	5.84E-05	7.30E-05	1.25E-04	1.53E-04	4.52E-01
9800	1.61E-09	4.38E-01	4.37E-03	4.56E-03	2.13E-04	1.53E-03	2.27E-05	5.97E-05	7.47E-05	1.28E-04	1.56E-04	4.49E-01
9900	1.36E-09	4.38E-01	4.44E-03	4.64E-03	2.17E-04	1.55E-03	2.31E-05	6.08E-05	7.59E-05	1.30E-04	1.59E-04	4.49E-01
10000	1.15E-09	4.35E-01	4.54E-03	4.74E-03	2.22E-04	1.59E-03	2.36E-05	6.20E-05	7.75E-05	1.33E-04	1.62E-04	4.46E-01
Maximum Dose	5.00E-03	5.22E-01	4.54E-03	4.74E-03	2.22E-04	1.59E-03	2.36E-05	6.20E-05	7.75E-05	1.33E-04	1.62E-04	5.23E-01

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Table C.1.5. Concentrations under gradual and immediate failure for analytes in the Tc-99 and vinyl chloride groups in groundwater drawn from a well completed in the RGA at the DOE property boundary

Concentrations	Gradual Failure Tc-99 Group		Immediate Failure Tc-99 Group		Gradual Failure Vinyl Chloride Group							Immediate Failure Vinyl Chloride Group						
	Tc-99	Np-237	Tc-99	Np-237	Vinyl chloride	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	Chloroform	1,1-DCE	1,2-DCE	Vinyl chloride	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	Chloroform	1,1-DCE	1,2-DCE
	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	2.25E-16	0.00E+00	2.25E-16	0.00E+00	1.08E-14	1.80E-14	6.36E-15	2.58E-16	1.54E-15	6.19E-16	3.27E-18	1.08E-14	1.80E-14	6.36E-15	2.58E-16	1.54E-15	6.19E-16	3.27E-18
20	5.45E-14	0.00E+00	5.45E-14	0.00E+00	2.42E-13	4.04E-13	1.43E-13	5.78E-15	3.46E-14	1.39E-14	7.33E-17	2.42E-13	4.04E-13	1.43E-13	5.78E-15	3.46E-14	1.39E-14	7.33E-17
30	8.33E-13	0.00E+00	8.33E-13	0.00E+00	8.34E-13	1.39E-12	4.91E-13	1.99E-14	1.19E-13	4.78E-14	2.53E-16	8.34E-13	1.39E-12	4.91E-13	1.99E-14	1.19E-13	4.78E-14	2.53E-16
40	4.30E-12	0.00E+00	4.30E-12	0.00E+00	1.45E-12	2.42E-12	8.54E-13	3.47E-14	2.07E-13	8.31E-14	4.39E-16	1.45E-12	2.42E-12	8.54E-13	3.47E-14	2.07E-13	8.31E-14	4.39E-16
50	1.32E-11	0.00E+00	1.32E-11	0.00E+00	1.74E-12	2.91E-12	1.02E-12	4.16E-14	2.49E-13	9.97E-14	5.27E-16	1.74E-12	2.91E-12	1.02E-12	4.16E-14	2.49E-13	9.97E-14	5.27E-16
60	4.31E-08	0.00E+00	5.96E-03	0.00E+00	1.09E-10	1.82E-10	6.42E-11	2.61E-12	6.25E-11	3.30E-14	1.86E-06	3.11E-06	1.10E-06	4.45E-08	2.66E-07	1.07E-07	5.64E-10	
70	3.77E-07	0.00E+00	2.95E-02	0.00E+00	2.28E-10	3.81E-10	1.34E-10	5.45E-12	3.26E-11	1.31E-11	6.91E-14	3.76E-06	6.28E-06	2.21E-06	8.99E-08	5.38E-07	2.15E-07	1.14E-09
80	1.84E-06	0.00E+00	7.74E-02	0.00E+00	3.33E-10	5.56E-10	1.96E-10	7.96E-12	4.76E-11	1.91E-11	1.01E-13	4.17E-06	6.96E-06	2.46E-06	9.97E-08	5.96E-07	2.39E-07	1.26E-09
90	6.49E-06	0.00E+00	1.56E-01	0.00E+00	4.22E-10	7.05E-10	2.49E-10	1.01E-11	6.03E-11	2.42E-11	1.28E-13	3.49E-06	5.83E-06	2.06E-06	8.34E-08	4.99E-07	2.00E-07	1.06E-09
100	3.74E-05	0.00E+00	2.68E-01	0.00E+00	9.39E-10	1.57E-09	5.53E-10	2.24E-11	1.34E-10	5.38E-11	2.85E-13	2.48E-06	4.14E-06	1.46E-06	5.93E-08	3.55E-07	1.42E-07	7.51E-10
110	1.78E-04	0.00E+00	4.13E-01	0.00E+00	1.98E-09	3.31E-09	1.17E-09	4.73E-11	2.83E-10	1.13E-10	6.00E-13	1.58E-06	2.64E-06	9.31E-07	3.78E-08	2.26E-07	9.05E-08	4.79E-10
120	6.11E-04	0.00E+00	5.89E-01	0.00E+00	3.60E-09	6.01E-09	2.12E-09	8.60E-11	5.15E-10	2.06E-10	1.09E-12	9.30E-07	1.55E-06	5.48E-07	2.22E-08	1.33E-07	5.33E-08	2.82E-10
130	1.68E-03	0.00E+00	7.93E-01	0.00E+00	5.72E-09	9.55E-09	3.37E-09	1.37E-10	8.18E-10	3.28E-10	1.73E-12	5.21E-07	8.70E-07	3.07E-07	1.25E-08	7.45E-08	2.99E-08	1.58E-10
140	4.55E-03	0.00E+00	1.01E+00	0.00E+00	9.16E-09	1.53E-08	5.40E-09	2.19E-10	1.31E-09	5.25E-10	2.78E-12	2.80E-07	4.68E-07	1.65E-07	6.69E-09	4.00E-08	1.60E-08	8.48E-11
150	1.21E-02	0.00E+00	1.25E+00	0.00E+00	1.27E-08	2.12E-08	7.48E-09	3.04E-10	1.82E-09	7.28E-10	3.85E-12	1.46E-07	2.44E-07	8.60E-08	3.49E-09	2.09E-08	8.37E-09	4.42E-11
160	2.97E-02	0.00E+00	1.50E+00	0.00E+00	1.47E-08	2.45E-08	8.66E-09	3.51E-10	2.10E-09	8.42E-10	4.45E-12	7.42E-08	1.24E-07	4.37E-08	1.77E-09	1.06E-08	4.25E-09	2.25E-11
170	6.76E-02	0.00E+00	1.76E+00	0.00E+00	1.45E-08	2.42E-08	8.54E-09	3.47E-10	2.07E-09	8.31E-10	4.39E-12	3.69E-08	6.16E-08	2.17E-08	8.82E-10	5.28E-09	2.11E-09	1.12E-11
180	1.32E-01	0.00E+00	2.01E+00	0.00E+00	1.16E-08	1.94E-08	6.83E-09	2.77E-10	1.66E-09	6.65E-10	3.51E-12	1.81E-08	3.02E-08	1.07E-08	4.33E-10	2.59E-09	1.04E-09	5.48E-12
190	2.28E-01	0.00E+00	2.26E+00	0.00E+00	8.16E-09	1.36E-08	4.81E-09	1.95E-10	1.17E-09	4.68E-10	2.47E-12	8.79E-09	1.47E-08	5.18E-09	2.10E-10	1.26E-09	5.04E-10	2.66E-12
200	3.62E-01	0.00E+00	2.51E+00	0.00E+00	5.28E-09	8.82E-09	3.11E-09	1.26E-10	7.55E-10	3.03E-10	1.60E-12	4.22E-09	7.05E-09	2.49E-09	1.01E-10	6.03E-10	2.42E-10	1.28E-12
210	5.42E-01	0.00E+00	2.74E+00	0.00E+00	3.21E-09	5.36E-09	1.89E-09	7.67E-11	4.59E-10	1.84E-10	9.73E-13	2.01E-09	3.36E-09	1.18E-09	4.80E-11	2.87E-10	1.15E-10	6.09E-13
220	7.54E-01	0.00E+00	2.96E+00	0.00E+00	1.81E-09	3.02E-09	1.07E-09	4.33E-11	2.59E-10	1.04E-10	5.48E-13	9.50E-10	1.59E-09	5.60E-10	2.27E-11	1.36E-10	5.44E-11	2.88E-13
230	9.78E-01	0.00E+00	3.17E+00	0.00E+00	9.74E-10	1.63E-09	5.74E-10	2.33E-11	1.39E-10	5.58E-11	2.95E-13	4.47E-10	7.46E-10	2.63E-10	1.07E-11	6.39E-11	2.56E-11	1.35E-13
240	1.22E+00	0.00E+00	3.37E+00	0.00E+00	5.06E-10	8.45E-10	2.98E-10	1.21E-11	7.24E-11	2.90E-11	1.53E-13	2.10E-10	3.51E-10	1.24E-10	5.02E-12	3.00E-11	1.20E-11	6.36E-14
250	1.48E+00	0.00E+00	3.55E+00	0.00E+00	2.57E-10	4.29E-10	1.51E-10	6.14E-12	3.68E-11	1.47E-11	7.79E-14	9.82E-11	1.64E-10	5.78E-11	2.35E-12	1.40E-11	5.63E-12	2.98E-14
260	1.75E+00	0.00E+00	3.73E+00	0.00E+00	1.28E-09	2.14E-10	7.54E-11	3.06E-12	1.83E-11	7.33E-12	3.88E-14	4.57E-11	7.63E-11	2.69E-11	1.09E-12	6.54E-12	2.62E-12	1.38E-14
270	2.00E+00	0.00E+00	3.88E+00	0.00E+00	6.25E-11	1.04E-10	3.68E-11	1.49E-12	8.94E-12	3.58E-12	1.89E-14	2.12E-11	3.54E-11	1.25E-11	5.07E-12	3.03E-12	1.21E-12	6.42E-15
280	2.25E+00	0.00E+00	4.02E+00	0.00E+00	3.03E-11	5.06E-11	1.78E-11	7.24E-13	4.33E-12	1.74E-12	9.18E-15	9.81E-12	1.64E-11	5.78E-12	2.34E-13	1.40E-12	5.62E-13	2.97E-15
290	2.51E+00	0.00E+00	4.15E+00	0.00E+00	1.45E-11	2.42E-11	8.54E-12	3.47E-13	2.07E-12	8.31E-13	4.39E-15	4.54E-12	7.58E-12	2.67E-12	1.09E-13	6.49E-13	2.60E-13	1.38E-15
300	2.74E+00	3.05E-11	4.27E+00	3.05E-11	6.91E-12	1.15E-11	4.07E-12	1.65E-13	9.88E-13	3.96E-13	2.09E-15	2.10E-12	3.51E-12	1.24E-12	5.02E-14	3.00E-13	1.20E-13	6.36E-16
310	2.97E+00	3.05E-11	4.38E+00	3.05E-11	3.25E-12	5.43E-12	1.91E-12	7.77E-14	4.65E-13	1.86E-13	9.83E-16	9.70E-13	1.62E-12	5.71E-13	2.32E-14	1.39E-13	5.56E-14	2.94E-16
320	3.18E+00	3.05E-11	4.47E+00	3.05E-11	1.53E-12	2.56E-12	9.01E-13	3.66E-14	2.19E-13	8.77E-14	4.64E-16	4.47E-13	7.46E-13	2.63E-13	1.07E-14	6.39E-14	2.56E-14	1.35E-16
330	3.38E+00	3.05E-11	4.55E+00	3.05E-11	7.16E-13	1.20E-12	4.22E-13	1.71E-14	1.02E-13	4.10E-14	2.17E-16	2.06E-13	3.44E-13	1.21E-13	4.92E-15	2.95E-14	1.18E-14	6.24E-17
340	3.56E+00	3.05E-11	4.62E+00	3.05E-11	3.34E-13	5.58E-13	1.97E-13	7.98E-15	4.78E-14	1.91E-14	1.01E-16	9.50E-14	1.59E-13	5.60E-14	2.27E-15	1.36E-14	5.44E-15	2.88E-17
350	3.73E+00	3.05E-11	4.69E+00	3.05E-11	1.55E-13	2.59E-13	9.13E-14	3.70E-15	2.22E-14	8.88E-15	4.70E-17	4.36E-14	7.28E-14	2.57E-14	1.04E-15	6.23E-15	2.50E-15	1.32E-17
360	3.89E+00	3.05E-11	4.74E+00	3.05E-11	7.23E-14	1.21E-13	4.26E-14	1.73E-15	1.03E-14	4.14E-15	2.19E-17	2.00E-14	3.34E-14	1.18E-14	4.78E-16	2.86E-15	1.15E-15	6.06E-18
370	4.05E+00	3.05E-11	4.78E+00	3.05E-11	3.35E-14	5.56E-14	1.96E-14	7.96E-15	4.76E-15	1.91E-15	1.01E-17	9.20E-15	1.54E-14	5.42E-15	2.20E-16	1.32E-15	5.27E-16	2.79E-18
380	4.17E+00	3.05E-11	4.81E+00	3.05E-11	1.54E-14	2.57E-15	9.07E-15	3.68E-16	2.20E-15	8.82E-16	4.67E-18	4.24E-15	7.08E-15	2.50E-15	1.01E-16	6.06E-16	2.43E-16	1.28E-18
390	4.28E+00	3.05E-11	4.84E+00	3.05E-11	7.11E-15	1.19E-14	4.19E-15	1.70E-16	1.02E-15	4.07E-16	2.15E-18	1.94E-15	3.24E-15	1.14E-15	4.64E-17	2.77E-16	1.11E-16	5.88E-19
400	4.38E+00	3.01E-08	4.86E+00	3.01E-08	3.29E-15	5.49E-15	1.94E-15	7.86E-17	4.70E-16	1.89E-16	9.97E-19	8.94E-16	1.49E-					

Table C.1.5. Concentrations under gradual and immediate failure for analytes in the Tc-99 and vinyl chloride groups in groundwater drawn from a well completed in the RGA at the DOE property boundary

Concentrations	Gradual Failure Tc-99 Group		Immediate Failure Tc-99 Group		Gradual Failure Vinyl Chloride Group						Immediate Failure Vinyl Chloride Group							
	Tc-99	Np-237	Tc-99	Np-237	Vinyl chloride	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	Chloroform	1,1-DCE	1,2-DCE	Vinyl chloride	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	Chloroform	1,1-DCE	1,2-DCE
	530	4.89E+00	1.48E-06	4.70E+00	1.48E-06	1.34E-19	2.24E-19	7.89E-20	3.20E-21	1.92E-20	7.68E-21	4.06E-23	3.59E-20	6.00E-20	2.11E-20	8.58E-22	5.13E-21	2.06E-21
540	4.89E+00	1.48E-06	4.66E+00	1.48E-06	6.17E-20	1.03E-19	3.63E-20	1.47E-21	8.82E-21	3.54E-21	1.87E-23	1.64E-20	2.74E-20	9.66E-21	3.92E-22	2.35E-21	9.40E-22	4.97E-24
550	4.88E+00	1.48E-06	4.63E+00	1.48E-06	2.83E-20	4.73E-20	1.67E-20	6.76E-22	4.05E-21	1.62E-21	8.57E-24	7.55E-21	1.26E-20	4.45E-21	1.80E-22	1.08E-21	4.33E-22	2.29E-24
560	4.86E+00	1.48E-06	4.59E+00	1.48E-06	1.30E-20	2.17E-20	7.66E-21	3.11E-21	1.86E-21	7.45E-22	3.94E-24	3.47E-21	5.79E-21	2.04E-21	8.29E-23	4.96E-22	1.99E-22	1.05E-24
570	4.84E+00	1.48E-06	4.55E+00	1.48E-06	5.98E-21	9.99E-21	3.52E-21	1.43E-22	8.55E-22	3.43E-22	1.81E-24	1.59E-21	2.66E-21	9.37E-22	3.80E-23	2.27E-22	9.11E-23	4.82E-25
580	4.82E+00	1.48E-06	4.51E+00	1.48E-06	2.74E-21	4.58E-21	1.61E-21	6.55E-23	3.92E-22	1.57E-22	8.30E-25	7.30E-22	1.22E-21	4.30E-22	1.74E-23	1.04E-22	4.18E-23	2.21E-25
590	4.80E+00	1.48E-06	4.47E+00	1.48E-06	1.26E-21	2.10E-21	7.42E-22	3.01E-23	1.80E-22	7.22E-23	3.82E-25	3.35E-22	5.59E-22	1.97E-22	8.01E-24	4.79E-23	1.92E-23	1.02E-25
600	4.77E+00	2.23E-05	4.42E+00	2.23E-05	5.76E-22	9.62E-22	3.39E-22	1.38E-23	8.24E-23	3.30E-23	1.75E-25	1.54E-22	2.57E-22	9.07E-23	3.68E-24	2.20E-23	8.82E-24	4.67E-26
610	4.73E+00	2.23E-05	4.38E+00	2.23E-05	2.64E-22	4.41E-22	1.55E-22	6.91E-24	3.78E-23	1.51E-23	8.00E-26	7.05E-23	1.18E-22	4.15E-24	1.68E-24	1.01E-23	4.04E-24	2.14E-26
620	4.70E+00	2.23E-05	4.34E+00	2.23E-05	1.21E-22	2.02E-22	7.13E-23	2.89E-24	1.73E-23	6.93E-24	3.67E-26	3.24E-23	5.41E-23	1.91E-23	7.74E-25	4.63E-24	1.86E-24	9.82E-27
630	4.67E+00	2.23E-05	4.29E+00	2.23E-05	5.58E-23	9.32E-23	3.29E-23	1.33E-24	7.98E-24	3.20E-24	1.69E-26	1.49E-23	2.49E-23	8.78E-24	3.56E-25	2.13E-24	8.54E-25	4.51E-27
640	4.64E+00	2.23E-05	4.25E+00	2.23E-05	2.56E-23	4.28E-23	1.51E-23	6.12E-25	3.66E-24	1.47E-24	7.76E-27	6.81E-24	1.14E-23	4.01E-24	1.63E-25	9.74E-25	3.90E-25	2.06E-27
650	4.60E+00	2.23E-05	4.20E+00	2.23E-05	1.18E-23	1.97E-23	6.95E-24	2.82E-25	1.69E-24	6.76E-25	3.58E-27	3.13E-24	5.23E-24	1.84E-24	7.48E-26	4.48E-25	1.79E-25	9.48E-28
660	4.56E+00	2.23E-05	4.15E+00	2.23E-05	5.39E-24	9.00E-24	3.17E-24	1.29E-25	7.71E-25	3.09E-25	1.63E-27	1.44E-24	2.40E-24	8.48E-25	3.44E-26	2.06E-25	8.25E-26	4.36E-28
670	4.52E+00	2.23E-05	4.10E+00	2.23E-05	2.47E-24	4.12E-24	1.45E-24	5.90E-26	3.53E-25	1.42E-25	7.48E-28	6.60E-25	1.10E-24	3.89E-25	1.58E-26	9.44E-26	3.78E-26	2.00E-28
680	4.48E+00	2.23E-05	4.05E+00	2.23E-05	1.13E-24	1.89E-24	6.66E-25	2.70E-26	1.62E-25	6.47E-26	3.42E-28	3.02E-25	5.04E-25	1.78E-25	7.22E-27	4.32E-26	1.73E-26	9.15E-29
690	4.43E+00	2.23E-05	4.00E+00	2.23E-05	5.21E-25	8.70E-25	3.07E-25	1.25E-26	7.45E-26	2.99E-26	1.58E-28	1.39E-25	2.32E-25	8.19E-26	3.32E-27	1.99E-26	7.96E-27	4.21E-29
700	4.39E+00	1.62E-04	3.95E+00	1.62E-04	2.39E-25	3.99E-25	1.41E-25	5.71E-27	3.42E-26	1.37E-26	7.24E-29	6.36E-26	1.06E-25	3.75E-26	1.52E-27	9.09E-27	3.64E-27	1.93E-29
710	4.34E+00	1.62E-04	3.90E+00	1.62E-04	1.09E-25	1.82E-25	6.42E-26	2.61E-27	1.56E-26	6.25E-27	3.30E-29	2.92E-26	4.88E-26	1.72E-26	6.98E-28	4.18E-27	1.67E-27	8.85E-30
720	4.29E+00	1.62E-04	3.86E+00	1.62E-04	5.03E-26	8.40E-26	2.96E-26	1.20E-27	7.19E-27	2.88E-27	1.52E-29	1.34E-26	2.42E-26	7.89E-27	3.20E-28	1.92E-27	7.68E-28	4.06E-30
730	4.25E+00	1.62E-04	3.81E+00	1.62E-04	2.30E-26	3.84E-26	1.35E-26	5.50E-27	3.29E-27	1.32E-27	6.97E-30	6.15E-27	1.03E-26	3.62E-27	1.47E-28	8.79E-28	3.52E-28	1.86E-30
740	4.20E+00	1.62E-04	3.76E+00	1.62E-04	1.06E-26	1.77E-26	6.24E-27	2.53E-28	1.52E-27	6.07E-28	3.21E-30	2.82E-27	4.71E-27	1.66E-27	6.74E-29	4.03E-28	1.62E-28	8.54E-31
750	4.15E+00	1.62E-04	3.71E+00	1.62E-04	4.86E-27	8.12E-27	2.86E-27	1.16E-28	6.95E-28	2.78E-28	1.47E-30	1.30E-27	2.17E-27	7.66E-28	3.11E-29	1.86E-28	7.45E-29	3.94E-31
760	4.11E+00	1.62E-04	3.66E+00	1.62E-04	2.23E-27	3.72E-27	1.31E-27	5.33E-29	3.19E-28	1.28E-28	6.76E-31	5.94E-28	9.92E-28	3.50E-28	1.42E-29	8.49E-29	3.40E-29	1.80E-31
770	4.06E+00	1.62E-04	3.61E+00	1.62E-04	1.02E-27	1.70E-27	6.01E-28	2.44E-29	1.46E-28	5.84E-29	3.09E-31	2.72E-28	4.54E-28	1.60E-28	6.50E-30	3.89E-29	1.56E-29	8.24E-32
780	4.01E+00	1.62E-04	3.56E+00	1.62E-04	4.69E-28	7.83E-28	2.76E-28	1.12E-29	6.71E-29	2.69E-29	1.42E-31	1.25E-28	2.09E-28	7.36E-29	2.99E-30	1.79E-29	7.16E-30	3.79E-32
790	3.96E+00	1.62E-04	3.51E+00	1.62E-04	2.15E-28	3.59E-28	1.27E-28	5.14E-30	3.07E-29	1.23E-29	6.51E-32	5.72E-29	9.55E-29	3.37E-29	1.37E-30	8.18E-30	3.28E-30	1.73E-32
800	3.91E+00	6.96E-04	3.46E+00	6.96E-04	9.89E-29	1.65E-28	5.83E-29	2.36E-30	1.41E-29	5.67E-30	3.00E-32	2.63E-29	4.39E-29	1.55E-29	6.29E-31	3.76E-30	1.51E-30	7.97E-33
810	3.87E+00	6.96E-04	3.42E+00	6.96E-04	4.54E-29	7.58E-29	2.67E-29	1.09E-30	6.49E-30	2.60E-30	1.38E-32	1.21E-29	2.02E-29	7.13E-30	2.89E-31	1.73E-30	6.93E-31	3.67E-33
820	3.81E+00	6.96E-04	3.37E+00	6.96E-04	2.08E-29	3.47E-29	1.23E-29	4.97E-31	2.97E-30	1.19E-30	6.30E-33	5.53E-30	9.24E-30	3.26E-30	1.32E-31	7.91E-31	3.17E-31	1.68E-33
830	3.77E+00	6.96E-04	3.32E+00	6.96E-04	9.55E-30	1.59E-29	5.62E-30	2.28E-31	1.37E-30	5.47E-31	2.89E-33	2.54E-30	4.24E-30	1.50E-30	6.07E-32	3.63E-31	1.46E-31	7.70E-34
840	3.72E+00	6.96E-04	3.27E+00	6.96E-04	4.37E-30	7.30E-30	2.57E-30	1.04E-31	6.25E-31	2.50E-31	1.32E-33	1.16E-30	1.94E-30	6.83E-31	2.77E-32	1.66E-31	6.65E-32	3.51E-34
850	3.67E+00	6.96E-04	3.22E+00	6.96E-04	2.01E-30	3.36E-30	1.18E-30	4.80E-32	2.87E-31	1.15E-31	6.09E-34	5.35E-31	8.92E-31	3.15E-31	1.28E-32	7.65E-32	3.07E-32	1.62E-34
860	3.62E+00	6.96E-04	3.18E+00	6.96E-04	9.20E-31	1.54E-30	5.42E-31	2.20E-32	1.32E-31	5.27E-32	2.79E-34	2.45E-31	4.09E-31	1.44E-31	5.86E-33	3.50E-32	1.40E-32	7.42E-35
870	3.57E+00	6.96E-04	3.13E+00	6.96E-04	1.02E-31	7.06E-31	2.49E-31	1.01E-32	6.05E-32	2.42E-32	1.28E-34	1.13E-31	1.89E-31	6.66E-32	2.70E-33	1.33E-32	6.47E-33	3.42E-35
880	3.52E+00	6.96E-04	3.08E+00	6.96E-04	1.94E-31	3.24E-31	4.64E-32	2.77E-32	1.11E-32	5.88E-35	5.17E-32	8.63E-32	3.05E-32	1.24E-33	7.39E-33	2.96E-33	1.57E-35	3.18E-37
890	3.47E+00	6.96E-04	3.04E+00	6.96E-04	8.88E-32	1.48E-31	5.23E-32	2.12E-33	1.27E-32	5.09E-33	2.69E-35	2.37E-32	3.96E-32	1.40E-32	5.66E-34	3.39E-33	1.36E-33	7.18E-36
900	3.43E+00	2.08E-03	2.99E+00	2.08E-03	4.08E-32	6.81E-32	2.40E-32	9.75E-34	5.83E-33	2.34E-33	1.24E-35	1.09E-32	1.82E-32	6.42E-33	2.61E-34	1.56E-33	6.25E-34	3.30E-36
910	3.38E+00	2.08E-03	2.95E+00	2.08E-03	1.88E-32	3.14E-32	1.11E-32	4.49E-34	2.69E-33	1.08E-33	5.70E-36	4.99E-33	8.33E-33	2.94E-33	1.19E-34	7.14E-34	2.86E-34	1.51E-36
920	3.33E+00	2.08E-03	2.91E+00	2.08E-03	8.62E-33	1.44E-32	5.08E-33	2.06E-34	1.23E-33	4.94E-34	2.61E-36	2.29E-33	3.82E-33	1.35E-33	5.47E-35	3.27E-34	1.31E-34	6.94E-37
930	3.28E+00	2.08E-03	2.86E+00	2.08E-03	3.94E-33	6.58E-33	2.32E-33	9.42E-35	6.03E-34	2.26E-34	1.19E-36	1.05E-33	1.75E-33	6.18E-34	2.51E-35	1.50E-34	6.02E-35	3.18E-37
940	3.23E+00	2.08E-03	2.82E+00	2.08E-03	1.81E-33	3.02E-33	1.07E-33	4.33E-35	2.59E-34	1.04E-34	5.48E-37	4.82E-34	8					

Table C.1.5. Concentrations under gradual and immediate failure for analytes in the Tc-99 and vinyl chloride groups in groundwater drawn from a well completed in the RGA at the DOE property boundary

Table C.1.5. Concentrations under gradual and immediate failure for analytes in the Tc-99 and vinyl chloride groups in groundwater drawn from a well completed in the RGA at the DOE property boundary

Concentrations	Gradual Failure Tc-99 Group		Immediate Failure Tc-99 Group		Gradual Failure Vinyl Chloride Group						Immediate Failure Vinyl Chloride Group							
	Tc-99	Np-237	Tc-99	Np-237	Vinyl chloride	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	Chloroform	1,1-DCE	1,2-DCE	Vinyl chloride	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	Chloroform	1,1-DCE	1,2-DCE
6900	2.03E-04	1.55E-01	2.08E-04	1.55E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7000	1.72E-04	1.54E-01	1.76E-04	1.54E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7100	1.45E-04	1.54E-01	1.48E-04	1.54E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7200	1.23E-04	1.53E-01	1.26E-04	1.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7300	1.05E-04	1.53E-01	1.07E-04	1.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7400	8.81E-05	1.52E-01	8.99E-05	1.52E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7500	7.44E-05	1.52E-01	7.60E-05	1.52E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7600	6.30E-05	1.51E-01	6.43E-05	1.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7700	5.32E-05	1.51E-01	5.44E-05	1.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7800	4.50E-05	1.50E-01	4.60E-05	1.50E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7900	3.81E-05	1.50E-01	3.89E-05	1.50E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8000	3.22E-05	1.49E-01	3.29E-05	1.49E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8100	2.72E-05	1.49E-01	2.78E-05	1.49E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8200	2.31E-05	1.49E-01	2.35E-05	1.49E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8300	1.95E-05	1.48E-01	1.99E-05	1.48E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8400	1.65E-05	1.48E-01	1.68E-05	1.48E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8500	1.39E-05	1.47E-01	1.43E-05	1.47E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8600	1.18E-05	1.47E-01	1.20E-05	1.47E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8700	9.95E-06	1.46E-01	1.02E-05	1.46E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8800	8.42E-06	1.46E-01	8.60E-06	1.46E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8900	7.12E-06	1.45E-01	7.27E-06	1.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9000	6.02E-06	1.45E-01	6.15E-06	1.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9100	5.09E-06	1.44E-01	5.20E-06	1.44E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9200	4.31E-06	1.44E-01	4.40E-06	1.44E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9300	3.64E-06	1.43E-01	3.72E-06	1.43E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9400	3.08E-06	1.43E-01	3.14E-06	1.43E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9500	2.60E-06	1.42E-01	2.66E-06	1.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9600	2.20E-06	1.42E-01	2.25E-06	1.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9700	1.86E-06	1.42E-01	1.90E-06	1.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9800	1.57E-06	1.41E-01	1.60E-06	1.41E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9900	1.33E-06	1.41E-01	1.36E-06	1.41E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10000	1.13E-06	1.40E-01	1.15E-06	1.40E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Maximum Concentration	4.89E+00	1.68E-01	4.89E+00	1.68E-01	1.47E-08	2.45E-08	8.66E-09	3.51E-10	2.10E-09	8.42E-10	4.45E-12	4.17E-06	6.96E-06	2.46E-06	9.97E-08	5.96E-07	2.39E-07	1.26E-09
Hazard No Action Level	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-03	2.73E-03	5.48E-03	4.65E-04	2.87E-05	2.46E-03	2.47E-03	3.06E-03	2.73E-03	5.48E-03	4.65E-04	2.87E-05	2.46E-03	2.47E-03
Risk No Action Level	1.40E+01	5.73E-01	1.40E+01	5.73E-01	3.50E-05	0.00E+00	0.00E+00	1.47E-04	2.17E-04	4.70E-05	0.00E+00	3.50E-05	0.00E+00	0.00E+00	1.47E-04	2.17E-04	4.70E-05	0.00E+00
Dose 1 mrem	9.78E+02	3.22E-01	9.78E+02	3.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present	Irronium Group		2-Butanone Group		Benzene Group					Vinyl Chloride Group						
	Selenium	Molybdenum	2-Butanone	Benzene	Ethylbenzene	Xylene	m-Xylene	p-Xylene	o-Xylene	Vinyl chloride	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	Chloroform	1,1-DCE	1,2-DCE
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
10 ¹	0.00E+00	0.00E+00	2.72E-05	1.81E-08	7.76E-10	8.01E-10	7.64E-10	6.97E-10	7.44E-10	9.27E-11	6.51E-11	1.11E-10	1.52E-10	1.04E-10	2.53E-11	7.64E-12
20 ¹	0.00E+00	0.00E+00	3.75E-05	3.49E-08	1.50E-09	1.48E-09	1.35E-09	1.41E-09	2.08E-09	1.46E-09	2.48E-09	3.40E-09	2.34E-09	5.67E-10	1.71E-10	
30 ¹	0.00E+00	0.00E+00	9.56E-06	1.15E-08	4.96E-10	5.12E-10	4.88E-10	4.45E-10	4.76E-10	7.16E-09	5.03E-09	8.54E-09	1.17E-08	8.06E-09	1.95E-09	5.90E-10
40 ¹	0.00E+00	0.00E+00	1.18E-06	3.77E-09	1.62E-10	1.67E-10	1.60E-10	1.46E-10	1.55E-10	1.24E-08	8.74E-09	1.48E-08	2.04E-08	1.40E-08	3.39E-09	1.03E-09
50 ¹	0.00E+00	0.00E+00	1.02E-07	6.83E-10	2.93E-11	3.03E-11	2.89E-11	2.64E-11	2.81E-11	1.49E-08	1.05E-08	1.78E-08	2.45E-08	1.68E-08	4.07E-09	1.23E-09
60 ¹	0.00E+00	0.00E+00	2.27E-07	8.44E-09	3.63E-10	3.74E-10	3.57E-10	3.26E-10	3.48E-10	9.36E-07	6.57E-07	1.12E-06	1.33E-06	1.03E-06	2.55E-07	7.71E-08
70 ¹	0.00E+00	0.00E+00	1.49E-07	1.47E-08	6.34E-10	6.24E-10	5.96E-10	6.08E-10	1.96E-06	1.37E-06	2.33E-06	3.21E-06	2.20E-06	5.34E-07	1.61E-07	
80 ¹	0.00E+00	0.00E+00	4.72E-08	1.45E-08	6.24E-10	6.44E-10	6.15E-10	5.61E-10	5.99E-10	2.86E-06	2.01E-06	3.41E-06	4.68E-06	3.22E-06	7.80E-07	2.35E-07
90 ¹	0.00E+00	0.00E+00	1.48E-08	1.07E-08	4.59E-10	4.74E-10	4.52E-10	4.12E-10	4.40E-10	3.62E-06	2.54E-06	4.32E-06	5.93E-06	4.08E-06	9.88E-07	2.98E-07
100 ¹	9.71E-07	1.97E-28	5.93E-09	1.01E-08	4.34E-10	4.48E-10	4.28E-10	3.90E-10	4.17E-10	8.06E-06	5.66E-06	9.61E-06	1.32E-05	9.08E-06	2.20E-06	6.64E-07
110 ¹	9.71E-07	1.97E-28	2.79E-09	9.20E-09	3.95E-10	4.08E-10	3.89E-10	3.55E-10	3.79E-10	1.70E-05	1.19E-05	2.03E-05	2.78E-05	1.91E-05	4.64E-06	1.40E-06
120 ¹	9.71E-07	1.97E-28	1.17E-09	6.23E-09	2.68E-10	2.76E-10	2.64E-10	2.40E-10	2.57E-10	3.09E-05	2.17E-05	3.69E-05	5.06E-05	3.48E-05	8.43E-06	2.55E-06
130 ¹	9.71E-07	1.97E-28	4.51E-10	3.32E-09	1.43E-10	1.47E-10	1.41E-10	1.28E-10	1.37E-10	4.91E-05	3.45E-05	5.86E-05	8.04E-05	5.53E-05	1.34E-05	4.04E-06
140 ¹	9.71E-07	1.97E-28	1.71E-10	1.59E-09	6.84E-11	7.06E-11	6.74E-11	6.14E-11	6.56E-11	7.86E-05	5.52E-05	9.38E-05	1.29E-04	8.86E-05	2.14E-05	6.48E-06
150 ¹	9.71E-07	1.97E-28	6.35E-11	7.10E-10	3.05E-11	3.15E-11	3.01E-11	2.74E-11	2.93E-11	1.09E-04	7.65E-05	1.30E-04	1.79E-04	1.23E-04	2.97E-05	8.98E-06
160 ¹	9.71E-07	1.97E-28	2.18E-11	2.78E-10	1.19E-11	1.23E-11	1.18E-11	1.07E-11	1.14E-11	1.26E-04	8.86E-05	1.50E-04	2.07E-04	1.42E-04	3.44E-05	1.04E-05
170 ¹	9.71E-07	1.97E-28	6.96E-12	9.73E-11	4.18E-12	4.32E-12	4.12E-12	3.76E-12	4.01E-12	1.24E-04	8.74E-05	1.48E-04	2.04E-04	1.40E-04	3.39E-05	1.03E-05
180 ¹	9.71E-07	1.97E-28	2.01E-12	3.06E-11	1.31E-12	1.35E-12	1.29E-12	1.18E-12	1.26E-12	9.96E-05	6.99E-05	1.19E-04	1.63E-04	1.12E-04	2.72E-05	8.20E-06
190 ¹	9.71E-07	1.97E-28	5.26E-13	8.62E-12	3.70E-13	3.82E-13	3.65E-13	3.33E-13	3.55E-13	7.00E-05	4.92E-05	8.35E-05	1.15E-04	7.89E-05	1.91E-05	5.77E-06
200 ¹	3.02E-04	1.99E-07	1.34E-13	2.34E-12	1.01E-13	9.04E-14	9.03E-14	9.64E-14	9.45E-05	3.18E-05	5.41E-05	7.42E-05	5.10E-05	1.24E-05	3.73E-06	
210 ¹	3.02E-04	1.99E-07	3.34E-14	6.19E-13	2.66E-14	2.74E-14	2.62E-14	2.39E-14	2.55E-14	2.76E-05	1.93E-05	3.29E-05	4.51E-05	3.10E-05	7.51E-06	2.27E-06
220 ¹	3.02E-04	1.99E-07	7.99E-15	1.57E-13	6.75E-15	6.96E-15	6.64E-15	6.06E-15	6.47E-15	1.55E-05	1.09E-05	1.85E-05	2.54E-05	1.75E-05	4.24E-06	1.28E-06
230 ¹	3.02E-04	1.99E-07	1.83E-15	3.81E-14	1.64E-15	1.69E-15	1.61E-15	1.47E-15	1.57E-15	8.36E-06	5.87E-06	9.97E-06	1.37E-05	9.42E-06	2.28E-06	6.89E-07
240 ¹	3.02E-04	1.99E-07	4.16E-16	9.10E-15	3.91E-16	4.04E-16	3.85E-16	3.51E-16	3.75E-16	4.34E-06	3.05E-06	5.18E-06	7.11E-06	4.89E-06	1.18E-06	3.58E-07
250 ¹	3.02E-04	1.99E-07	9.32E-17	2.15E-15	9.23E-17	9.52E-17	9.09E-17	8.29E-17	8.85E-17	2.21E-06	1.55E-06	2.63E-06	3.61E-06	2.48E-06	6.02E-07	1.82E-07
260 ¹	3.02E-04	1.99E-07	2.05E-17	5.00E-16	2.15E-17	2.22E-17	2.12E-17	1.93E-17	2.06E-17	1.10E-06	7.71E-07	1.31E-06	1.80E-06	1.24E-06	3.00E-07	9.05E-08
270 ¹	3.02E-04	1.99E-07	4.47E-18	1.15E-16	4.96E-18	5.12E-18	4.88E-18	4.45E-18	4.76E-18	5.36E-07	3.77E-07	6.40E-07	8.79E-07	6.04E-07	1.46E-07	4.42E-08
280 ¹	3.02E-04	1.99E-07	9.68E-19	2.62E-17	1.12E-18	1.16E-18	1.11E-18	1.01E-18	1.08E-18	2.60E-07	1.83E-07	3.10E-07	4.26E-07	2.93E-07	7.09E-08	2.14E-08
290 ¹	3.02E-04	1.99E-07	2.09E-19	5.93E-19	2.55E-19	2.63E-19	2.51E-19	2.29E-19	2.44E-19	1.24E-07	8.74E-08	1.48E-07	2.04E-07	1.40E-07	3.39E-08	1.03E-08
300 ¹	3.64E-03	1.60E-05	4.48E-20	1.32E-18	5.69E-20	5.87E-20	5.61E-20	5.11E-20	5.46E-20	5.93E-08	4.16E-08	7.07E-08	9.71E-08	6.68E-08	1.62E-08	4.89E-09
310 ¹	3.64E-03	1.60E-05	9.56E-21	2.96E-19	1.27E-20	1.31E-20	1.25E-20	1.14E-20	1.22E-20	2.79E-08	1.96E-08	3.33E-08	4.57E-08	3.14E-08	7.61E-09	2.30E-09
320 ¹	3.64E-03	1.60E-05	2.03E-21	6.57E-20	2.82E-21	2.91E-21	2.78E-21	2.54E-21	2.71E-21	1.31E-08	9.22E-09	1.57E-08	2.15E-08	1.48E-08	3.58E-09	1.08E-09
330 ¹	3.64E-03	1.60E-05	4.31E-22	1.45E-20	6.24E-22	6.44E-22	6.15E-22	5.61E-22	5.99E-22	6.15E-09	4.31E-09	7.33E-09	1.01E-08	6.92E-09	1.68E-09	5.06E-10
340 ¹	3.64E-03	1.60E-05	9.08E-23	3.16E-21	1.36E-22	1.40E-22	1.34E-22	1.22E-22	1.30E-22	2.87E-09	2.01E-09	3.42E-09	4.70E-09	3.23E-09	7.82E-10	2.36E-10
350 ¹	3.64E-03	1.60E-05	1.91E-23	6.95E-22	2.99E-23	3.08E-23	2.94E-23	2.68E-23	2.87E-23	1.33E-09	9.34E-10	1.59E-09	2.18E-09	1.50E-09	3.63E-10	1.10E-10
360 ¹	3.64E-03	1.60E-05	4.03E-24	1.52E-22	6.52E-24	6.73E-24	6.42E-24	5.86E-24	6.25E-24	6.21E-10	4.36E-10	7.40E-10	1.02E-09	6.99E-10	1.69E-10	5.11E-11
370 ¹	3.64E-03	1.60E-05	8.47E-25	3.29E-23	1.41E-24	1.46E-24	1.39E-24	1.27E-24	1.36E-24	2.86E-10	2.01E-10	3.41E-10	4.68E-10	3.22E-10	7.80E-11	2.35E-11
380 ¹	3.64E-03	1.60E-05	1.77E-25	7.13E-24	3.06E-25	3.16E-25	3.02E-25	2.75E-25	2.94E-25	1.32E-10	9.28E-11	1.58E-10	2.17E-10	1.49E-10	3.61E-11	1.09E-11
390 ¹	3.64E-03	1.60E-05	3.70E-26	1.54E-24	6.61E-26	6.82E-26	6.51E-26	5.94E-26	6.34E-26	6.10E-11	4.28E-11	7.28E-11	1.00E-10	6.87E-11	1.66E-11	5.03E-12
400 ¹	9.62E-03	2.36E-04	7.74E-27	3.30E-25	1.42E-26	1.46E-26	1.40E-26	1.27E-26	1.36E-26	2.82E-11	1.98E-11	3.37E-11	4.63E-11	3.18E-11	7.70E-12	2.33E-12
410 ¹	9.62E-03	2.36E-04	1.62E-27	7.13E-26	3.06E-27	3.16E-27	3.02E-27	2.75E-27	2.94E-27	1.30E-11	9.16E-12	1.56E-11	2.14E-11	1.47E-11	3.56E-12	1.07E-12
420 ¹	9.62E-03	2.36E-04	3.36E-28	1.53E-26	6.57E-28	6.77E-28	6.46E-28	5.90E-28	6.30E-28	5.98E-12	4.20E-12	7.14E-12	9.80E-12	6.74E-12	1.63E-12	4.93E-13
430 ¹	9.62E-03	2.36E-04	7.02E-29	3.28E-27	1.41E-28	1.45E-28	1.39E-28	1.27E-28	1.35E-28	2.76E-12	1.93E-12	3.29E-12	4.51E-12	3.10E-12	7.51E-13	2.27E-13
440 ¹	9.62E-03	2.36E-04	1.46E-29	7.01E-28	3.01E-29	3.11E-29	2.97E-29	2.71E-29	2.89E-29	1.27E-12	8.92E-13	1.52E-12	2.08E-12	1.43E-12	3.46E-13	1.05E-13
450 ¹	9.62E-03	2.36E-04	3.03E-30	1.50E-28	6.43E-30	6.63E-30	6.33E-30	5.77E-30	6.17E-30	5.83E-13	4.09E-13	6.95E-13	9.55E-13	6.56E-13	1.59E-13	4.80E-14
460 ¹	9.62E-03	2.36E-04	6.29E-31	3.18E-29												

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present	Trichloroethene Group			Chlorobenzene Group			2-Methylphenol Group					
	Trichloroethene	Carbon tetrachloride	Tetrachloroethene	Chlorobenzene	1,4-Dichlorobenzene	Hexachlorobenzene	2-Methylphenol	Pyridine	4-Methylphenol	3-Methylphenol	2,4-DNT	Nitrobenzene
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	3.88E-08	2.03E-08	3.71E-09	5.61E-11	5.83E-12	3.44E-13	4.57E-07	4.93E-05	2.95E-07	1.82E-07	1.62E-09	1.09E-08
20	4.24E-07	2.22E-07	4.05E-08	1.70E-10	1.77E-11	1.04E-12	7.95E-07	8.58E-05	5.14E-07	3.17E-07	2.82E-09	1.89E-08
30	6.85E-07	3.59E-07	6.55E-08	5.57E-11	5.79E-12	3.42E-13	3.21E-07	3.47E-05	2.08E-07	1.28E-07	1.14E-09	7.65E-09
40	5.56E-07	2.91E-07	5.31E-08	4.20E-11	4.36E-12	2.57E-13	7.95E-08	8.58E-06	5.14E-08	3.17E-08	2.82E-10	1.89E-09
50	3.26E-07	1.71E-07	3.11E-08	7.69E-12	7.99E-13	4.72E-14	1.19E-08	1.23E-06	7.66E-09	4.73E-09	4.20E-11	2.92E-10
60	3.01E-06	1.58E-06	2.87E-07	8.87E-10	9.22E-11	5.44E-12	9.31E-08	1.01E-05	6.02E-08	3.71E-08	3.30E-10	2.22E-09
70	3.82E-06	2.00E-06	3.65E-07	2.34E-09	2.44E-10	1.44E-11	1.31E-07	1.41E-05	8.46E-08	5.22E-08	4.64E-10	3.11E-09
80	2.65E-06	1.39E-06	2.53E-07	7.81E-09	2.92E-10	1.72E-11	1.16E-07	1.25E-05	7.49E-08	4.62E-08	4.11E-10	2.76E-09
90	1.82E-06	9.52E-07	1.74E-07	2.20E-09	2.28E-10	1.35E-11	8.24E-08	8.91E-06	5.33E-08	3.29E-08	2.92E-10	1.96E-09
100	1.72E-06	9.00E-07	1.64E-07	1.96E-09	2.04E-10	1.20E-11	8.00E-08	8.64E-06	5.17E-08	3.19E-08	2.84E-10	1.90E-09
110	1.82E-06	9.52E-07	1.74E-07	1.97E-09	2.04E-10	1.21E-11	7.20E-08	7.73E-06	4.65E-08	2.87E-08	2.55E-10	1.71E-09
120	1.61E-06	8.45E-07	1.54E-07	1.42E-09	1.48E-10	8.71E-12	4.76E-08	5.14E-06	3.08E-08	1.90E-08	1.69E-10	1.13E-09
130	1.23E-06	6.45E-07	1.18E-07	7.85E-10	8.16E-11	4.81E-12	2.47E-08	2.66E-06	1.60E-08	9.84E-09	8.75E-11	5.87E-10
140	8.99E-07	4.71E-07	8.59E-08	3.72E-10	3.86E-11	2.28E-12	1.15E-08	1.24E-06	7.44E-09	4.59E-09	4.08E-11	2.74E-10
150	6.26E-07	3.28E-07	5.98E-08	1.06E-10	1.73E-11	1.02E-12	4.92E-09	5.31E-07	3.18E-09	1.96E-09	1.74E-11	1.17E-10
160	3.93E-07	2.06E-07	3.75E-08	6.36E-11	6.61E-12	3.90E-13	1.82E-09	1.96E-07	1.18E-09	7.25E-10	6.44E-12	4.33E-11
170	2.28E-07	1.20E-07	2.18E-08	2.14E-11	2.22E-12	1.31E-13	6.00E-10	6.48E-08	3.88E-10	2.39E-10	2.13E-12	1.43E-11
180	1.20E-07	6.29E-08	1.15E-08	6.36E-12	6.61E-13	3.90E-14	1.76E-10	1.90E-08	1.14E-10	7.01E-11	6.23E-13	4.18E-12
190	5.76E-08	3.02E-08	5.50E-09	1.63E-12	1.70E-13	1.00E-14	4.58E-11	4.95E-09	2.96E-11	1.83E-11	1.62E-13	1.09E-12
200	2.66E-08	1.39E-08	2.54E-09	3.96E-13	4.12E-14	2.43E-15	1.14E-11	1.23E-09	7.38E-12	4.55E-12	4.05E-14	2.72E-13
210	1.21E-08	6.32E-09	1.15E-09	9.22E-14	9.59E-15	5.65E-16	2.77E-12	2.99E-10	1.79E-12	1.10E-12	9.81E-15	6.58E-14
220	5.22E-09	2.73E-09	4.98E-10	2.07E-14	2.15E-15	1.27E-16	6.45E-13	6.97E-11	4.17E-13	2.57E-13	2.29E-15	1.54E-14
230	2.16E-09	1.13E-09	2.06E-10	4.40E-15	4.57E-16	2.69E-17	1.44E-13	1.56E-11	9.31E-14	5.74E-14	5.11E-16	3.43E-15
240	8.79E-10	4.60E-10	8.40E-11	9.11E-16	9.46E-17	5.58E-18	3.15E-14	3.40E-12	2.04E-14	1.26E-14	1.12E-16	7.50E-16
250	3.51E-10	1.84E-10	3.35E-11	1.87E-16	1.94E-17	1.15E-18	6.87E-15	7.42E-13	4.44E-15	2.74E-15	2.43E-17	1.63E-16
260	1.39E-10	7.28E-11	1.33E-11	3.78E-17	3.93E-18	2.31E-19	1.48E-15	1.59E-13	9.54E-16	5.88E-16	5.23E-18	3.51E-17
270	5.41E-11	2.83E-11	5.17E-12	7.54E-18	7.83E-19	4.62E-20	3.17E-16	3.42E-14	2.05E-16	1.26E-16	1.12E-18	7.54E-18
280	2.08E-11	1.09E-11	1.99E-12	1.50E-18	1.55E-19	9.17E-21	6.72E-17	7.26E-15	4.34E-17	2.68E-17	2.38E-19	1.60E-18
290	8.00E-12	4.19E-12	7.64E-13	2.95E-19	3.06E-20	1.81E-21	1.42E-17	1.54E-15	9.20E-18	5.67E-18	5.04E-20	3.39E-19
300	3.04E-12	1.59E-12	2.90E-13	5.77E-20	6.00E-21	3.54E-22	2.99E-18	3.23E-16	1.94E-18	1.19E-18	1.06E-20	7.13E-20
310	1.15E-12	6.01E-13	1.10E-13	1.12E-20	1.16E-21	6.86E-23	6.28E-19	6.78E-17	4.06E-19	2.50E-19	2.23E-21	1.49E-20
320	4.30E-13	2.25E-13	4.11E-14	2.17E-21	2.26E-22	1.33E-23	1.32E-19	1.42E-17	8.52E-20	5.25E-20	4.67E-22	3.13E-21
330	1.61E-13	8.42E-14	1.54E-14	4.20E-22	4.36E-23	2.37E-24	2.76E-20	2.98E-18	1.78E-20	1.10E-20	9.77E-23	6.56E-22
340	6.01E-14	3.15E-14	5.74E-15	8.09E-23	8.40E-24	4.96E-25	5.76E-21	6.22E-19	3.72E-21	2.30E-21	2.04E-23	1.37E-22
350	2.23E-14	1.16E-14	2.13E-15	1.55E-23	1.61E-24	9.48E-26	1.20E-21	1.30E-19	7.78E-22	4.80E-22	4.26E-24	2.86E-23
360	8.25E-15	4.32E-15	7.87E-16	2.96E-24	3.08E-25	1.82E-26	2.51E-22	2.71E-20	1.62E-22	1.00E-22	8.90E-25	5.98E-24
370	3.04E-15	1.59E-15	2.90E-16	5.69E-25	5.91E-26	3.49E-27	5.22E-23	5.64E-21	3.38E-23	2.08E-23	1.85E-25	1.24E-24
380	1.12E-15	5.85E-16	1.07E-16	1.08E-25	1.13E-26	6.64E-28	1.09E-23	1.18E-21	7.04E-24	4.34E-24	3.86E-26	2.59E-25
390	4.11E-16	2.15E-16	3.93E-17	2.06E-26	2.14E-27	1.26E-28	2.27E-24	2.45E-22	1.46E-24	9.04E-25	8.03E-27	5.39E-26
400	1.51E-16	7.88E-17	1.44E-17	3.91E-27	4.06E-28	2.40E-29	4.72E-25	5.10E-23	3.05E-25	1.88E-25	1.67E-27	1.12E-26
410	5.51E-17	2.89E-17	5.27E-18	7.46E-28	7.75E-29	4.57E-30	9.83E-26	1.06E-23	6.36E-26	3.92E-26	3.49E-28	2.34E-27
420	2.01E-17	1.05E-17	1.92E-18	1.41E-28	1.46E-29	8.64E-31	2.04E-26	2.20E-24	1.32E-26	8.13E-27	7.22E-29	4.85E-28
430	7.35E-18	3.85E-18	7.02E-19	2.66E-29	2.76E-30	1.63E-31	4.23E-27	4.57E-25	2.74E-27	1.69E-27	1.50E-29	1.01E-28
440	2.69E-18	1.41E-18	2.57E-19	5.02E-30	5.22E-31	3.08E-32	8.78E-28	9.48E-26	5.68E-28	3.50E-28	3.11E-30	2.09E-29
450	9.79E-19	5.12E-19	9.34E-20	9.50E-31	9.87E-32	5.82E-33	1.83E-28	1.97E-26	1.18E-28	7.29E-29	6.47E-31	4.35E-30
460	3.57E-19	1.87E-19	3.41E-20	1.80E-31	1.87E-32	1.10E-33	3.81E-29	4.12E-27	2.46E-29	1.52E-29	1.35E-31	9.07E-31
470	1.30E-19	6.81E-20	1.24E-20	3.39E-32	3.52E-33	2.08E-34	7.89E-30	8.53E-28	5.10E-30	3.15E-30	2.80E-32	1.88E-31
480	4.73E-20	2.48E-20	4.52E-21	6.40E-33	6.65E-34	3.92E-35	1.64E-30	1.77E-28	1.06E-30	6.55E-31	5.82E-33	3.91E-32
490	1.72E-20	9.00E-21	1.64E-21	1.20E-33	1.25E-34	7.36E-36	3.42E-31	3.69E-29	2.21E-31	1.36E-31	1.21E-33	8.13E-33
500	6.26E-21	3.28E-21	5.98E-22	2.26E-34	2.35E-35	1.39E-36	7.09E-32	7.65E-30	4.58E-32	2.83E-32	2.51E-34	1.69E-33
510	2.27E-21	1.19E-21	2.16E-22	4.24E-35	4.41E-36	2.60E-37	1.48E-32	1.59E-30	9.54E-33	5.88E-33	5.23E-35	3.51E-34
520	8.25E-22	4.32E-22	7.87E-23	7.97E-36	8.28E-37	4.88E-38	3.06E-33	3.30E-31	1.98E-33	1.22E-33	1.08E-35	7.27E-35
530	2.99E-22	1.56E-22	2.85E-23	1.50E-36	1.56E-37	9.19E-39	6.35E-34	6.86E-32	4.10E-34	2.53E-34	2.25E-36	1.51E-35

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present	gamma-Chlordane Group											
	2,4,6-Trichlorophenol	2,4,5-Trichlorophenol	Acrylonitrile	gamma-Chlordane	alpha-Chlordane	Methoxychlor	Heptachlor epoxide	Toxaphene	Pentachlorophenol	Naphthalene	Hexachloroethane	Acenaphthene
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	1.47E-09	2.18E-09	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-12	2.36E-14	3.63E-14	2.79E-15
20	2.55E-09	3.80E-09	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-10	3.48E-12	5.37E-12	4.13E-13
30	1.03E-09	1.54E-09	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-09	1.70E-11	2.63E-11	2.02E-12
40	2.55E-10	3.80E-10	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-09	2.50E-11	3.85E-11	2.96E-12
50	3.81E-11	5.67E-11	4.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-09	2.31E-11	3.56E-11	2.74E-12
60	2.99E-10	4.45E-10	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-08	3.76E-10	5.79E-10	4.45E-11
70	4.20E-10	6.26E-10	4.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-07	2.29E-09	3.54E-09	2.72E-10
80	3.72E-10	5.54E-10	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-07	2.94E-09	4.53E-09	3.48E-10
90	2.65E-10	3.94E-10	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-07	3.46E-09	5.34E-09	4.10E-10
100	2.57E-10	3.83E-10	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-07	4.43E-09	6.82E-09	5.25E-10
110	2.31E-10	3.44E-10	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-07	9.02E-09	1.39E-08	1.07E-09
120	1.53E-10	2.28E-10	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-06	1.39E-08	2.15E-08	1.65E-09
130	7.92E-11	1.18E-10	9.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-06	1.61E-08	2.48E-08	1.91E-09
140	3.69E-11	5.50E-11	4.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-06	1.53E-08	2.36E-08	1.82E-09
150	1.58E-11	2.35E-11	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-06	1.39E-08	2.15E-08	1.65E-09
160	5.84E-12	8.69E-12	6.72E-07	4.89E-41	4.89E-41	3.93E-41	1.44E-40	6.54E-40	7.99E-07	1.08E-08	1.67E-08	1.28E-09
170	1.93E-12	2.87E-12	2.22E-07	3.52E-40	3.52E-40	2.83E-40	1.04E-39	4.71E-39	5.44E-07	7.37E-09	1.14E-08	8.73E-10
180	5.64E-13	8.40E-13	6.50E-08	1.42E-39	1.42E-39	1.15E-39	4.20E-39	1.91E-38	3.29E-07	4.45E-09	6.86E-09	5.27E-10
190	1.47E-13	2.19E-13	1.70E-08	1.95E-33	1.95E-33	1.57E-33	5.76E-33	2.61E-32	1.69E-07	2.29E-09	3.54E-09	2.72E-10
200	3.67E-14	5.46E-14	4.22E-09	2.97E-32	2.97E-32	2.39E-32	8.76E-32	3.98E-31	8.16E-08	1.10E-09	1.70E-09	1.31E-10
210	8.88E-15	1.32E-14	1.02E-09	1.87E-31	1.87E-31	1.50E-31	5.51E-31	2.50E-30	3.75E-08	5.08E-10	7.83E-10	6.02E-11
220	2.07E-15	3.09E-15	2.39E-10	7.45E-31	7.45E-31	5.99E-31	2.20E-30	9.97E-30	1.67E-08	2.26E-10	3.48E-10	2.67E-11
230	4.62E-16	6.89E-16	5.33E-11	2.58E-30	2.58E-30	2.08E-30	7.61E-30	3.46E-29	7.01E-09	9.49E-11	1.46E-10	1.12E-11
240	1.01E-16	1.51E-16	1.17E-11	1.06E-29	1.06E-29	8.54E-30	3.13E-29	1.42E-28	2.86E-09	3.87E-11	5.97E-11	4.59E-12
250	2.21E-17	3.28E-17	2.54E-12	4.20E-29	4.20E-29	3.38E-29	1.24E-28	5.62E-28	1.15E-09	1.56E-11	2.40E-11	1.84E-12
260	4.74E-18	7.06E-18	5.46E-13	1.39E-28	1.39E-28	1.12E-28	4.10E-28	1.86E-27	4.58E-10	6.20E-12	9.56E-12	7.35B-13
270	1.02E-18	1.52E-18	1.17E-13	3.88E-28	3.88E-28	3.12E-28	1.14E-27	5.19E-27	1.79E-10	2.43E-12	3.74E-12	2.88E-13
280	2.16E-19	3.21E-19	2.49E-14	9.67E-28	9.67E-28	7.78E-28	2.85E-27	1.29E-26	7.01E-11	9.49E-13	1.46E-12	1.12E-13
290	4.57E-20	6.80E-20	5.26E-15	2.18E-27	2.18E-27	1.75E-27	6.42E-27	2.91E-26	2.71E-11	3.66E-13	5.65E-13	4.34E-14
300	9.62E-21	1.43E-20	1.11E-15	4.44E-27	4.44E-27	3.57E-27	1.31E-26	5.94E-26	1.04E-11	1.41E-13	2.17E-13	1.67E-14
310	2.02E-21	3.00E-21	2.32E-16	8.15E-27	8.15E-27	6.56E-27	2.40E-26	1.09E-25	3.99E-12	5.40E-14	8.32E-14	6.40E-15
320	4.23E-22	6.30E-22	4.87E-17	1.34E-26	1.34E-26	1.08E-26	3.97E-26	1.80E-25	1.52E-12	2.05E-14	3.17E-14	2.43E-15
330	8.85E-23	1.32E-22	1.02E-17	2.01E-26	2.01E-26	1.62E-26	5.92E-26	2.69E-25	5.80E-13	7.86E-15	1.21E-14	9.31E-16
340	1.85E-23	2.76E-23	2.13E-18	2.75E-26	2.75E-26	2.21E-26	8.10E-26	3.68E-25	2.19E-13	2.96E-15	4.57E-15	3.51E-16
350	3.86E-24	5.75E-24	4.45E-19	3.49E-26	3.49E-26	2.81E-26	1.03E-25	4.67E-25	8.27E-14	1.12E-15	1.73E-15	1.33E-16
360	8.06E-25	1.20E-24	9.29E-20	4.11E-26	4.11E-26	3.31E-26	1.21E-25	5.51E-25	3.13E-14	4.23E-16	6.52E-16	5.02E-17
370	1.68E-25	2.50E-25	1.93E-20	4.55E-26	4.55E-26	3.66E-26	1.34E-25	6.09E-25	1.17E-14	1.59E-16	2.45E-16	1.88E-17
380	3.50E-26	5.21E-26	4.03E-21	4.76E-26	4.76E-26	3.83E-26	1.40E-25	6.37E-25	4.42E-15	5.98E-17	9.22E-17	7.09E-18
390	7.27E-27	1.08E-26	8.38E-22	4.73E-26	4.73E-26	3.81E-26	1.39E-25	6.33E-25	1.66E-15	2.25E-17	3.47E-17	2.66E-18
400	1.52E-27	2.26E-27	1.75E-22	4.48E-26	4.48E-26	3.60E-26	1.32E-25	6.00E-25	6.21E-16	8.40E-18	1.30E-17	9.96E-19
410	3.16E-28	4.70E-28	3.64E-23	4.07E-26	4.07E-26	3.28E-26	1.20E-25	5.45E-25	2.32E-16	3.14E-18	4.85E-18	3.72E-19
420	6.54E-29	9.74E-29	7.54E-24	3.56E-26	3.56E-26	2.86E-26	1.05E-25	4.76E-25	8.68E-17	1.17E-18	1.81E-18	1.39E-19
430	1.36E-29	2.02E-29	1.57E-24	3.00E-26	3.00E-26	2.41E-26	8.84E-26	4.02E-25	3.24E-17	4.39E-19	6.76E-19	5.20E-20
440	2.82E-30	4.20E-30	3.25E-25	2.44E-26	2.44E-26	1.96E-26	7.20E-26	3.27E-25	1.21E-17	1.63E-19	2.52E-19	1.94E-20
450	5.87E-31	8.74E-31	6.76E-26	1.94E-26	1.94E-26	1.56E-26	5.72E-26	2.60E-25	4.50E-18	6.09E-20	9.39E-20	7.22E-21
460	1.22E-31	1.82E-31	1.41E-26	1.49E-26	1.49E-26	1.20E-26	4.40E-26	2.00E-25	1.68E-18	2.27E-20	3.50E-20	2.69E-21
470	2.53E-32	3.78E-32	2.92E-27	1.12E-26	1.12E-26	8.99E-27	3.30E-26	1.50E-25	6.21E-19	8.40E-21	1.30E-20	9.96E-22
480	5.27E-33	7.85E-33	6.08E-28	8.20E-27	8.20E-27	6.60E-27	2.42E-26	1.10E-25	2.32E-19	3.13E-21	4.83E-21	3.72E-22
490	1.10E-33	1.63E-33	1.26E-28	5.89E-27	5.89E-27	4.74E-27	1.74E-26	7.88E-26	8.56E-20	1.16E-21	1.79E-21	1.37E-22
500	2.28E-34	3.39E-34	2.62E-29	4.14E-27	4.14E-27	3.33E-27	1.22E-26	5.55E-26	3.18E-20	4.31E-22	6.64E-22	5.11E-23
510	4.74E-35	7.06E-35	5.46E-30	2.87E-27	2.87E-27	2.31E-27	8.47E-27	3.85E-26	1.18E-20	1.59E-22	2.46E-22	1.89E-23
520	9.81E-36	1.46E-35	1.13E-30	1.95E-27	1.95E-27	1.57E-27	5.76E-27	2.61E-26	4.37E-21	5.91E-23	9.12E-23	7.01E-24
530	2.04E-36	3.04E-36	2.35E-31	1.31E-27	1.31E-27	1.06E-27	3.87E-27	1.76E-26	1.62E-21	2.19E-23	3.38E-23	2.60E-24

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present	Pentachlorophenol Group						Benzo(a)pyrene Group		PCB Group		Tc-99 Group				
	Acenaphthylene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Hexachlorobutadiene	Pyrene	Benzo(a)pyrene	Dioxin/Furan	PCB	Tc-99	Np-237	U-238	U-234	U-235
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	1.04E-14	1.28E-15	7.72E-16	2.77E-17	1.30E-16	2.07E-15	8.53E-17	0.00E+00	0.00E+00	0.00E+00	6.46E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	1.54E-12	1.90E-13	1.14E-13	4.10E-15	1.92E-14	3.06E-13	1.26E-14	0.00E+00	0.00E+00	0.00E+00	1.56E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	7.51E-12	9.28E-13	5.58E-13	2.00E-14	9.39E-14	1.50E-12	6.16E-14	0.00E+00	0.00E+00	0.00E+00	2.39E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	1.10E-11	1.36E-12	8.18E-13	2.93E-14	1.38E-13	2.19E-12	9.03E-14	0.00E+00	0.00E+00	0.00E+00	1.23E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	1.02E-11	1.26E-12	7.57E-13	2.72E-14	1.27E-13	2.03E-12	8.36E-14	0.00E+00	0.00E+00	0.00E+00	3.79E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	1.66E-10	2.05E-11	1.23E-11	4.42E-13	2.07E-12	3.30E-11	1.36E-12	0.00E+00	0.00E+00	0.00E+00	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	1.01E-09	1.25E-10	7.52E-11	2.70E-12	1.27E-11	2.01E-10	8.30E-12	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	1.30E-09	1.60E-10	9.64E-11	3.46E-12	1.62E-11	2.58E-10	1.06E-11	0.00E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	1.53E-09	1.89E-10	1.13E-10	4.07E-12	1.91E-11	3.04E-10	1.25E-11	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	1.95E-09	2.41E-10	1.45E-10	5.20E-12	2.44E-11	3.89E-10	1.60E-11	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	3.98E-09	4.92E-10	2.96E-10	1.06E-11	4.98E-11	7.92E-10	3.26E-11	0.00E+00	0.00E+00	0.00E+00	5.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	6.14E-09	7.59E-10	4.56E-10	1.64E-11	7.68E-11	1.32E-09	5.04E-11	0.00E+00	0.00E+00	0.00E+00	1.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	7.10E-09	8.77E-10	5.28E-10	1.89E-11	8.88E-11	1.41E-09	5.82E-11	0.00E+00	0.00E+00	0.00E+00	4.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	6.76E-09	8.35E-10	5.02E-10	1.80E-11	8.45E-11	1.35E-09	5.54E-11	0.00E+00	0.00E+00	0.00E+00	1.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	6.14E-09	7.59E-10	4.56E-10	1.64E-11	7.68E-11	1.22E-09	5.04E-11	0.00E+00	0.00E+00	0.00E+00	3.47E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	4.77E-09	5.89E-10	3.54E-10	1.27E-11	5.96E-11	9.49E-10	3.91E-11	0.00E+00	0.00E+00	0.00E+00	8.52E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	3.25E-09	4.01E-10	2.41E-10	8.66E-12	4.06E-11	6.47E-10	2.66E-11	0.00E+00	0.00E+00	0.00E+00	1.94E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	1.96E-09	2.42E-10	1.46E-10	5.23E-12	2.45E-11	3.91E-10	1.61E-11	0.00E+00	0.00E+00	0.00E+00	3.79E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	1.01E-09	1.25E-10	7.52E-11	2.70E-12	1.27E-11	2.01E-10	8.30E-12	0.00E+00	0.00E+00	0.00E+00	6.54E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	4.87E-10	6.02E-11	3.62E-11	1.30E-12	6.09E-12	9.70E-11	4.00E-12	0.00E+00	0.00E+00	0.00E+00	1.04E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	2.24E-10	2.77E-11	1.66E-11	5.97E-12	2.80E-12	4.46E-11	1.84E-12	0.00E+00	0.00E+00	0.00E+00	1.56E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	9.95E-11	1.23E-11	7.39E-12	2.65E-13	1.24E-12	1.98E-11	8.16E-13	0.00E+00	0.00E+00	0.00E+00	2.16E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	4.19E-11	5.17E-12	3.11E-12	1.12E-13	5.23E-13	8.33E-12	3.43E-13	0.00E+00	0.00E+00	0.00E+00	2.81E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	1.71E-11	2.11E-12	1.27E-12	4.55E-14	2.14E-13	3.40E-12	1.40E-13	0.00E+00	0.00E+00	0.00E+00	3.50E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	6.86E-12	8.48E-13	5.10E-13	1.83E-14	8.58E-14	1.37E-12	5.63E-14	0.00E+00	0.00E+00	0.00E+00	4.25E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	2.73E-12	3.38E-13	2.03E-13	7.29E-15	3.42E-14	5.14E-13	2.24E-14	0.00E+00	0.00E+00	0.00E+00	5.02E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	1.07E-12	1.32E-13	7.95E-14	2.85E-15	1.34E-14	2.13E-13	8.78E-15	0.00E+00	0.00E+00	0.00E+00	5.74E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	4.19E-13	5.17E-14	3.11E-14	1.12E-15	5.23E-15	8.33E-14	3.43E-15	0.00E+00	0.00E+00	0.00E+00	6.46E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	1.62E-13	2.00E-14	1.20E-14	4.31E-16	2.02E-15	3.22E-14	1.33E-15	0.00E+00	0.00E+00	0.00E+00	7.20E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	6.21E-14	7.67E-15	4.61E-15	1.65E-16	7.76E-16	1.24E-14	5.09E-16	0.00E+00	0.00E+00	0.00E+00	7.86E+01	1.04E-09	8.63E-13	1.06E-12	1.05E-12
310	2.38E-14	2.94E-15	1.77E-15	6.34E-17	2.98E-16	4.74E-15	1.95E-16	0.00E+00	0.00E+00	0.00E+00	8.52E+01	1.04E-09	8.63E-13	1.06E-12	1.05E-12
320	9.06E-15	1.12E-15	6.73E-16	2.41E-17	1.13E-16	1.80E-15	7.43E-17	0.00E+00	0.00E+00	0.00E+00	9.12E+01	1.04E-09	8.63E-13	1.06E-12	1.05E-12
330	3.46E-15	4.28E-16	2.57E-16	9.23E-18	4.33E-17	6.90E-16	2.84E-17	0.00E+00	0.00E+00	0.00E+00	9.70E+01	1.04E-09	8.63E-13	1.06E-12	1.05E-12
340	1.31E-15	1.61E-16	9.71E-17	3.48E-18	1.63E-17	2.60E-16	1.07E-17	0.00E+00	0.00E+00	0.00E+00	1.02E+02	1.04E-09	8.63E-13	1.06E-12	1.05E-12
350	4.94E-16	6.10E-17	3.07E-17	1.32E-18	6.18E-18	9.83E-17	4.05E-18	0.00E+00	0.00E+00	0.00E+00	1.07E+02	1.04E-09	8.63E-13	1.06E-12	1.05E-12
360	1.87E-16	2.31E-17	1.39E-17	4.97E-19	2.33E-18	3.72E-17	1.53E-18	0.00E+00	0.00E+00	0.00E+00	1.12E+02	1.04E-09	8.63E-13	1.06E-12	1.05E-12
370	7.00E-17	8.65E-18	5.20E-18	1.86E-19	8.75E-19	1.39E-17	5.74E-19	0.00E+00	0.00E+00	0.00E+00	1.16E+02	1.04E-09	8.63E-13	1.06E-12	1.05E-12
380	2.64E-17	3.26E-18	1.96E-18	7.03E-20	3.30E-19	5.25E-18	2.16E-19	0.00E+00	0.00E+00	0.00E+00	1.20E+02	1.04E-09	8.63E-13	1.06E-12	1.05E-12
390	9.91E-18	1.22E-18	7.37E-19	2.64E-20	1.24E-19	1.97E-18	8.13E-20	0.00E+00	0.00E+00	0.00E+00	1.23E+02	1.04E-09	8.63E-13	1.06E-12	1.05E-12
400	3.70E-18	4.58E-19	2.75E-19	9.87E-21	4.63E-20	7.38E-19	3.04E-20	0.00E+00	0.00E+00	0.00E+00	1.26E+02	1.03E-06	6.18E-10	7.61E-10	7.51E-10
410	1.39E-18	1.71E-19	1.03E-19	3.69E-21	1.73E-20	2.76E-19	1.14E-20	0.00E+00	0.00E+00	0.00E+00	1.29E+02	1.03E-06	6.18E-10	7.61E-10	7.51E-10
420	5.18E-19	6.40E-20	3.85E-20	1.38E-21	6.48E-21	1.03E-19	4.25E-21	0.00E+00	0.00E+00	0.00E+00	1.31E+02	1.03E-06	6.18E-10	7.61E-10	7.51E-10
430	1.93E-19	2.39E-20	1.44E-20	5.16E-22	2.42E-21	3.85E-20	1.59E-21	0.00E+00	0.00E+00	0.00E+00	1.33E+02	1.03E-06	6.18E-10	7.61E-10	7.51E-10
440	7.20E-20	8.90E-21	5.35E-21	1.92E-22	9.01E-22	1.43E-20	5.91E-22	0.00E+00	0.00E+00	0.00E+00	1.35E+02	1.03E-06	6.18E-10	7.61E-10	7.51E-10
450	2.69E-20	3.32E-21	2.09E-21	7.16E-23	3.36E-22	5.35E-21	2.20E-22	0.00E+00	0.00E+00	0.00E+00	1.36E+02	1.03E-06	6.18E-10	7.61E-10	7.51E-10
460	1.00E-20	1.24E-21	7.44E-22	2.67E-23	1.25E-22	1.99E-21	8.22E-23	0.00E+00	0.00E+00	0.00E+00	1.37E+02	1.03E-06	6.18E-10	7.61E-10	7.51E-10
470	3.70E-21	4.58E-22	2.75E-22	9.87E-24	4.63E-23	7.38E-22	3.04E-23	0.00E+00	0.00E+00	0.00E+00	1.38E+02	1.03E-06	6.18E-10	7.61E-10	7.51E-10
480	1.38E-21	1.71E-22	1.03E-22	3.68E-24	1.73E-23	2.75E-22	1.13E-23	0.00E+00	0.00E+00	0.00E+00	1.39E+02	1.03E-06	6.18E-10	7.61E-10	7.51E-10
490	5.11E-22	6.31E-23	3.80E-23	1.36E-24	6.39E-24	1.02E-22	4.19E-24	0.00E+00	0.00E+00	0.00E+00	1.40E+02	1.03E-06	6.18E-10	7.61E-10	7.51E-10
500	1.90E-22	2.35E-2													

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

U-238 Group						
Years from Present	Ra-226	Pu-238	Pu-239	Pu-240	Th-230	Th-232
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	4.55E-14	5.70E-13	5.58E-13	5.58E-13	4.32E-14	5.24E-14
310	4.55E-14	5.70E-13	5.58E-13	5.58E-13	4.32E-14	5.24E-14
320	4.55E-14	5.70E-13	5.58E-13	5.58E-13	4.32E-14	5.24E-14
330	4.55E-14	5.70E-13	5.58E-13	5.58E-13	4.32E-14	5.24E-14
340	4.55E-14	5.70E-13	5.58E-13	5.58E-13	4.32E-14	5.24E-14
350	4.55E-14	5.70E-13	5.58E-13	5.58E-13	4.32E-14	5.24E-14
360	4.55E-14	5.70E-13	5.58E-13	5.58E-13	4.32E-14	5.24E-14
370	4.55E-14	5.70E-13	5.58E-13	5.58E-13	4.32E-14	5.24E-14
380	4.55E-14	5.70E-13	5.58E-13	5.58E-13	4.32E-14	5.24E-14
390	4.55E-14	5.70E-13	5.58E-13	5.58E-13	4.32E-14	5.24E-14
400	3.25E-11	4.08E-10	3.99E-10	3.99E-10	3.09E-11	3.75E-11
410	3.25E-11	4.08E-10	3.99E-10	3.99E-10	3.09E-11	3.75E-11
420	3.25E-11	4.08E-10	3.99E-10	3.99E-10	3.09E-11	3.75E-11
430	3.25E-11	4.08E-10	3.99E-10	3.99E-10	3.09E-11	3.75E-11
440	3.25E-11	4.08E-10	3.99E-10	3.99E-10	3.09E-11	3.75E-11
450	3.25E-11	4.08E-10	3.99E-10	3.99E-10	3.09E-11	3.75E-11
460	3.25E-11	4.08E-10	3.99E-10	3.99E-10	3.09E-11	3.75E-11
470	3.25E-11	4.08E-10	3.99E-10	3.99E-10	3.09E-11	3.75E-11
480	3.25E-11	4.08E-10	3.99E-10	3.99E-10	3.09E-11	3.75E-11
490	3.25E-11	4.08E-10	3.99E-10	3.99E-10	3.09E-11	3.75E-11
500	1.80E-09	2.25E-08	2.20E-08	2.20E-08	1.71E-09	2.07E-09
510	1.80E-09	2.25E-08	2.20E-08	2.20E-08	1.71E-09	2.07E-09
520	1.80E-09	2.25E-08	2.20E-08	2.20E-08	1.71E-09	2.07E-09
530	1.80E-09	2.25E-08	2.20E-08	2.20E-08	1.71E-09	2.07E-09

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present	Bromine Group		1-Butanone Group		Benzene Group					Vinyl Chloride Group						
	Selenium	Molybdenum	2-Butanone	Benzene	Ethylbenzene	Xylene	m-Xylene	p-Xylene	o-Xylene	Vinyl chloride	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	Chloroform	1,1-DCE	1,2-DCE
540	1.69E-02	1.16E-03	2.15E-36	1.31E-34	5.65E-36	5.83E-36	5.56E-36	5.07E-36	5.42E-36	5.30E-16	3.72E-16	6.32E-16	8.67E-16	5.96E-16	1.44E-16	4.36E-17
550	1.69E-02	1.16E-03	4.01E-37	2.77E-35	1.19E-36	1.23E-36	1.17E-36	1.07E-36	1.14E-36	2.43E-16	1.71E-16	2.90E-16	3.98E-16	2.74E-16	6.63E-17	2.00E-17
560	1.69E-02	1.16E-03	5.48E-38	5.83E-36	2.51E-37	2.59E-37	2.47E-37	2.25E-37	2.40E-37	1.12E-16	7.83E-17	1.33E-16	1.83E-16	1.26E-16	3.04E-17	9.19E-18
570	1.69E-02	1.16E-03	9.00E+00	1.20E-36	5.14E-38	5.31E-38	5.06E-38	4.62E-38	4.93E-38	5.13E-17	3.60E-17	6.12E-17	8.41E-17	5.78E-17	1.40E-17	4.23E-18
580	1.69E-02	1.16E-03	0.00E+00	2.79E-37	1.20E-38	1.24E-38	1.18E-38	1.08E-38	1.15E-38	2.35E-17	1.65E-17	2.81E-17	3.85E-17	2.65E-17	6.41E-18	1.94E-18
590	1.69E-02	1.16E-03	0.00E+00	5.07E-38	2.18E-39	2.25E-39	2.15E-39	1.96E-39	2.09E-39	1.08E-17	7.59E-18	1.29E-17	1.77E-17	1.22E-17	2.95E-18	8.91E-19
600	2.47E-02	3.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-18	3.47E-18	5.90E-18	8.10E-18	5.57E-18	1.35E-18	4.07E-19
610	2.47E-02	3.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-18	1.59E-18	2.70E-18	3.71E-18	2.55E-18	6.18E-19	1.87E-19
620	2.47E-02	3.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-18	7.29E-19	1.24E-18	1.70E-18	1.17E-18	2.83E-19	8.55E-20
630	2.47E-02	3.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-19	3.36E-19	5.71E-19	7.84E-19	5.39E-19	1.31E-19	3.95E-20
640	2.47E-02	3.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-19	1.54E-19	2.62E-19	3.60E-19	2.47E-19	5.99E-20	1.81E-20
650	2.47E-02	3.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-19	7.11E-20	1.21E-19	1.66E-19	1.14E-19	2.76E-20	8.34E-21
660	2.47E-02	3.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-20	3.25E-20	5.52E-20	7.58E-20	5.21E-20	1.26E-20	3.81E-21
670	2.47E-02	3.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-20	1.49E-20	2.53E-20	3.47E-20	2.39E-20	5.78E-21	1.75E-21
680	2.47E-02	3.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-21	6.81E-21	1.16E-20	1.59E-20	1.09E-20	2.65E-21	7.99E-22
690	2.47E-02	3.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-21	3.14E-21	5.33E-21	7.32E-21	5.04E-21	1.22E-21	3.68E-22
700	3.23E-02	5.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-21	1.44E-21	2.45E-21	3.36E-21	2.31E-21	5.60E-22	1.69E-22
710	3.23E-02	5.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-22	6.57E-22	1.12E-21	1.53E-21	1.05E-21	2.55E-22	7.71E-23
720	3.23E-02	5.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-22	3.03E-22	5.15E-22	7.07E-22	4.86E-22	1.18E-22	3.56E-23
730	3.23E-02	5.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-22	1.39E-22	2.35E-22	3.23E-22	2.22E-22	5.38E-23	1.63E-23
740	3.23E-02	5.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-23	6.39E-23	1.09E-22	1.49E-22	1.02E-22	2.48E-23	7.49E-24
750	3.23E-02	5.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-23	2.93E-23	4.98E-23	6.83E-23	4.70E-23	1.14E-23	3.44E-24
760	3.23E-02	5.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-23	1.34E-23	2.28E-23	3.14E-23	2.16E-23	5.22E-24	1.58E-24
770	3.23E-02	5.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-24	6.15E-24	1.04E-23	1.43E-23	9.86E-24	2.39E-24	7.21E-25
780	3.23E-02	5.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-24	2.83E-24	4.80E-24	6.59E-24	4.53E-24	1.10E-24	3.32E-25
790	3.23E-02	5.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-24	1.30E-24	2.20E-24	3.02E-24	2.08E-24	5.03E-25	1.52E-25
800	3.96E-02	8.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-25	5.96E-25	1.01E-24	1.39E-24	9.56E-25	2.32E-25	6.99E-26
810	3.96E-02	8.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-25	2.74E-25	4.65E-25	6.38E-25	4.39E-25	1.06E-25	3.21E-26
820	3.96E-02	8.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-25	1.25E-25	2.13E-25	2.92E-25	2.01E-25	4.87E-26	1.47E-26
830	3.96E-02	8.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-26	5.75E-26	9.78E-26	1.34E-25	9.23E-26	2.24E-26	6.75E-27
840	3.96E-02	8.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-26	2.63E-26	4.47E-26	6.14E-26	4.22E-26	1.02E-26	3.09E-27
850	3.96E-02	8.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-26	1.21E-26	2.06E-26	2.83E-26	1.94E-26	4.71E-27	1.42E-27
860	3.96E-02	8.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-27	5.54E-27	9.42E-27	1.29E-26	8.89E-27	2.15E-27	6.50E-28
870	3.96E-02	8.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-27	2.55E-27	4.33E-27	5.95E-27	4.09E-27	9.90E-28	2.99E-28
880	3.96E-02	8.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-27	1.17E-27	1.99E-27	2.73E-27	1.88E-27	4.54E-28	1.37E-28
890	3.96E-02	8.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-28	5.35E-28	9.09E-28	1.25E-27	8.58E-28	2.08E-28	6.28E-29
900	4.62E-02	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-28	2.46E-28	4.18E-28	5.74E-28	3.94E-28	9.55E-29	2.88E-29
910	4.62E-02	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-28	1.13E-28	1.92E-28	2.64E-28	1.82E-28	4.40E-29	1.33E-29
920	4.62E-02	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-29	5.19E-29	8.82E-29	1.21E-28	8.33E-29	2.02E-29	6.09E-30
930	4.62E-02	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-29	2.37E-29	4.03E-29	5.54E-29	3.81E-29	9.22E-30	2.79E-30
940	4.62E-02	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-29	1.09E-29	1.85E-29	2.54E-29	1.75E-29	4.24E-30	1.28E-30
950	4.62E-02	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-30	5.00E-30	8.50E-30	1.17E-29	8.02E-30	1.94E-30	5.87E-31
960	4.62E-02	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-30	2.30E-30	3.90E-30	5.36E-30	3.68E-30	8.92E-31	2.69E-31
970	4.62E-02	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-30	1.05E-30	1.79E-30	2.46E-30	1.69E-30	4.10E-31	1.24E-31
980	4.62E-02	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-31	4.82E-31	8.19E-31	1.12E-30	7.73E-31	1.87E-31	5.66E-32
990	4.62E-02	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-31	2.22E-31	3.77E-31	5.17E-31	3.56E-31	8.62E-32	2.60E-32
1000	5.18E-02	1.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-31	1.02E-31	1.73E-31	2.38E-31	1.63E-31	3.96E-32	1.19E-32
1100	5.65E-02	2.06E-02	0.00E+00													

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present	Trichloroethene Group			Chlorobenzene Group			2-Methylphenol Group					
	Trichloroethylene	Carbon tetrachloride	Tetrachloroethylene	Chlorobenzene	1,4-Dichlorobenzene	Hexachlorobenzene	2-Methylphenol	Pyridine	4-Methylphenol	3-Methylphenol	2,4-DNT	Nitrobenzene
540	1.08E-22	5.67E-23	1.03E-23	2.81E-37	2.92E-38	1.72E-39	1.32E-34	1.42E-32	8.52E-35	5.25E-35	4.67E-37	3.13E-36
550	3.93E-23	2.06E-23	3.75E-24	5.26E-38	5.47E-39	3.22E-40	2.73E-35	2.95E-33	1.77E-35	1.09E-35	9.68E-38	6.50E-37
560	1.43E-23	7.46E-24	1.36E-24	9.70E-39	1.01E-39	5.94E-41	5.68E-36	6.14E-34	3.67E-36	2.27E-36	2.01E-38	1.35E-37
570	5.17E-24	2.70E-24	4.93E-25	1.85E-39	1.92E-40	1.13E-41	1.19E-36	1.28E-34	7.66E-37	4.73E-37	4.20E-39	2.82E-38
580	6.76E-25	3.54E-25	6.45E-26	2.38E-40	2.47E-41	1.46E-42	2.42E-37	2.62E-35	1.57E-37	9.67E-38	8.59E-40	5.77E-39
590	2.45E-25	1.28E-25	2.34E-26	0.00E+00	0.00E+00	0.00E+00	5.62E-38	6.07E-36	3.63E-38	2.24E-38	1.99E-40	1.34E-39
600	8.89E-26	4.65E-26	8.49E-27	0.00E+00	0.00E+00	0.00E+00	7.33E-39	7.92E-37	4.74E-39	2.93E-39	2.60E-41	1.75E-40
610	3.22E-26	1.68E-26	3.07E-27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	1.17E-26	6.11E-27	1.11E-27	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	4.22E-27	2.21E-27	4.03E-28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	1.53E-27	8.01E-28	1.46E-28	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	5.51E-28	2.89E-28	5.27E-29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	2.01E-28	1.05E-28	1.92E-29	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	7.25E-29	3.80E-29	6.93E-30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	2.62E-29	1.37E-29	2.50E-30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	9.49E-30	4.97E-30	9.06E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	3.44E-30	1.80E-30	3.28E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	1.24E-30	6.50E-31	1.19E-31	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	4.50E-31	2.35E-31	4.29E-32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	1.63E-31	8.51E-32	1.56E-32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	5.91E-32	3.09E-32	5.64E-33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	2.13E-32	1.12E-32	2.03E-33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	7.70E-33	4.03E-33	7.35E-34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	7.70E-33	4.05E-33	7.35E-34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	2.79E-33	1.46E-33	2.66E-34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	1.01E-33	5.28E-34	9.63E-35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	3.65E-34	1.91E-34	3.48E-35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	1.32E-34	6.92E-35	1.26E-35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	4.78E-35	2.50E-35	4.57E-36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	1.73E-35	9.07E-36	1.66E-36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	6.26E-36	3.28E-36	5.98E-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	2.27E-36	1.19E-36	2.16E-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	8.15E-37	4.26E-37	7.78E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	2.96E-37	1.55E-37	2.83E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	1.06E-37	5.56E-38	1.02E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	3.82E-38	2.00E-38	3.65E-39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	1.59E-38	8.32E-39	1.52E-39	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
910	3.18E-39	1.67E-39	3.04E-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	3.18E-39	1.67E-39	3.04E-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
940	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present	gamma-Chlordane Group										Pentachlorophenol	Naphthalene	Hexachloroethane	Acenaphthene
	2,4,6-Trichlorophenol	2,4,5-Trichlorophenol	Acrylonitrile	gamma-Chlordane	alpha-Chlordane	Methoxychlor	Heptachlor epoxide	Toxaphene	Pentachlorophenol					
540	4.23E-37	6.30E-37	4.87E-32	8.68E-28	8.68E-28	6.98E-28	2.56E-27	1.16E-26	5.98E-22	8.09E-24	1.25E-23	9.59E-25		
550	8.77E-38	1.31E-37	1.01E-32	5.66E-28	5.66E-28	4.56E-28	1.67E-27	7.58E-27	2.21E-22	2.99E-24	4.62E-24	3.55E-25		
560	1.82E-38	2.72E-38	2.10E-33	3.65E-28	3.65E-28	2.94E-28	1.08E-27	4.89E-27	8.16E-23	1.10E-24	1.70E-24	1.31E-25		
570	3.81E-39	5.67E-39	4.39E-34	2.33E-28	2.33E-28	1.87E-28	6.87E-28	3.12E-27	3.01E-23	4.08E-25	6.29E-25	4.83E-26		
580	7.78E-40	1.16E-39	8.97E-35	1.48E-28	1.48E-28	1.19E-28	4.36E-28	1.98E-27	1.11E-23	1.50E-25	2.31E-25	1.78E-26		
590	1.80E-40	2.69E-40	2.08E-35	9.23E-29	9.23E-29	7.43E-29	2.72E-28	1.24E-27	4.10E-24	5.55E-26	8.56E-26	6.58E-27		
600	2.35E-41	3.51E-41	2.71E-36	5.72E-29	5.72E-29	4.60E-29	1.69E-28	7.66E-28	1.52E-24	2.05E-26	3.17E-26	2.43E-27		
610	0.00E+00	0.00E+00	0.00E+00	3.53E-29	3.53E-29	2.84E-29	1.04E-28	4.73E-28	5.58E-25	7.56E-27	1.17E-26	8.96E-28		
620	0.00E+00	0.00E+00	0.00E+00	2.15E-29	2.15E-29	1.73E-29	6.34E-29	2.88E-28	2.06E-25	2.78E-27	4.29E-27	3.30E-28		
630	0.00E+00	0.00E+00	0.00E+00	1.31E-29	1.31E-29	1.05E-29	3.85E-29	1.75E-28	7.58E-26	1.03E-27	1.58E-27	1.22E-28		
640	0.00E+00	0.00E+00	0.00E+00	7.87E-30	7.87E-30	6.33E-30	2.32E-29	1.05E-28	2.79E-26	3.77E-28	5.82E-28	4.47E-29		
650	0.00E+00	0.00E+00	0.00E+00	4.71E-30	4.71E-30	3.79E-30	1.39E-29	6.31E-29	1.03E-26	1.39E-28	2.15E-28	1.65E-29		
660	0.00E+00	0.00E+00	0.00E+00	2.80E-30	2.80E-30	2.26E-30	8.27E-30	3.75E-29	3.77E-27	5.11E-29	7.88E-29	6.06E-30		
670	0.00E+00	0.00E+00	0.00E+00	1.66E-30	1.66E-30	1.34E-30	4.90E-30	2.22E-29	1.39E-27	1.88E-29	2.90E-29	2.23E-30		
680	0.00E+00	0.00E+00	0.00E+00	9.78E-31	9.78E-31	7.87E-31	2.88E-30	1.31E-29	5.12E-28	6.93E-30	1.07E-29	8.21E-31		
690	0.00E+00	0.00E+00	0.00E+00	5.73E-31	5.73E-31	4.61E-31	1.69E-30	7.68E-30	1.88E-28	2.54E-30	3.92E-30	3.01E-31		
700	0.00E+00	0.00E+00	0.00E+00	3.35E-31	3.35E-31	2.69E-31	9.87E-31	4.48E-30	6.89E-29	9.33E-31	1.44E-30	1.11E-31		
710	0.00E+00	0.00E+00	0.00E+00	1.94E-31	1.94E-31	1.56E-31	5.72E-31	2.60E-30	2.54E-29	3.44E-31	5.30E-31	4.07E-32		
720	0.00E+00	0.00E+00	0.00E+00	1.13E-31	1.13E-31	9.06E-32	3.32E-31	1.51E-30	9.31E-30	1.26E-31	1.94E-31	1.49E-32		
730	0.00E+00	0.00E+00	0.00E+00	6.49E-32	6.49E-32	5.22E-32	1.91E-31	8.69E-31	3.43E-30	4.64E-32	7.16E-32	5.50E-33		
740	0.00E+00	0.00E+00	0.00E+00	3.72E-32	3.72E-32	3.00E-32	1.10E-31	4.99E-31	1.26E-30	1.71E-32	2.64E-32	2.03E-33		
750	0.00E+00	0.00E+00	0.00E+00	2.13E-32	2.13E-32	1.72E-32	6.29E-32	2.86E-31	4.62E-31	6.25E-33	9.64E-33	7.41E-34		
760	0.00E+00	0.00E+00	0.00E+00	1.22E-32	1.22E-32	9.81E-33	3.60E-32	1.63E-31	1.70E-31	2.30E-33	3.55E-33	2.73E-34		
770	0.00E+00	0.00E+00	0.00E+00	6.95E-33	6.95E-33	5.59E-33	2.05E-32	9.30E-32	6.21E-32	8.40E-34	1.30E-33	9.96E-35		
780	0.00E+00	0.00E+00	0.00E+00	3.93E-33	3.93E-33	3.17E-33	1.16E-32	5.27E-32	2.29E-32	3.10E-34	4.77E-34	3.67E-35		
790	0.00E+00	0.00E+00	0.00E+00	2.23E-33	2.23E-33	1.80E-33	6.58E-33	2.99E-32	8.39E-33	1.14E-34	1.75E-34	1.35E-35		
800	0.00E+00	0.00E+00	0.00E+00	1.26E-33	1.26E-33	1.01E-33	3.71E-33	1.69E-32	3.08E-33	4.17E-35	6.43E-35	4.94E-36		
810	0.00E+00	0.00E+00	0.00E+00	7.10E-34	7.10E-34	5.71E-34	2.09E-33	9.51E-33	1.13E-33	1.53E-35	2.36E-35	1.82E-36		
820	0.00E+00	0.00E+00	0.00E+00	3.99E-34	3.99E-34	3.21E-34	1.18E-33	5.34E-33	4.14E-34	5.61E-36	8.65E-36	6.65E-37		
830	0.00E+00	0.00E+00	0.00E+00	2.23E-34	2.23E-34	1.80E-34	6.58E-34	2.99E-33	1.52E-34	2.05E-36	3.17E-36	2.43E-37		
840	0.00E+00	0.00E+00	0.00E+00	1.25E-34	1.25E-34	1.01E-34	3.69E-34	1.68E-33	5.56E-35	7.53E-37	1.16E-36	8.92E-38		
850	0.00E+00	0.00E+00	0.00E+00	6.99E-35	6.99E-35	5.62E-35	2.06E-34	9.36E-34	2.03E-35	2.75E-37	4.25E-37	3.26E-38		
860	0.00E+00	0.00E+00	0.00E+00	3.89E-35	3.89E-35	3.13E-35	1.15E-34	5.21E-34	7.47E-36	1.01E-37	1.56E-37	1.20E-38		
870	0.00E+00	0.00E+00	0.00E+00	2.16E-35	2.16E-35	1.74E-35	6.38E-35	2.90E-34	2.74E-36	3.71E-38	5.72E-38	4.40E-39		
880	0.00E+00	0.00E+00	0.00E+00	1.20E-35	1.20E-35	9.69E-36	3.55E-35	1.61E-34	1.00E-36	1.35E-38	2.09E-38	1.60E-39		
890	0.00E+00	0.00E+00	0.00E+00	6.67E-36	6.67E-36	5.37E-36	1.97E-35	8.93E-35	3.68E-37	4.99E-39	7.69E-39	5.91E-40		
900	0.00E+00	0.00E+00	0.00E+00	3.70E-36	3.70E-36	2.97E-36	1.09E-35	4.95E-35	1.36E-37	1.84E-39	2.84E-39	2.18E-40		
910	0.00E+00	0.00E+00	0.00E+00	2.04E-36	2.04E-36	1.64E-36	6.01E-36	2.73E-35	5.03E-38	6.81E-40	1.05E-39	8.0E-41		
920	0.00E+00	0.00E+00	0.00E+00	1.13E-36	1.13E-36	9.07E-37	3.32E-36	1.51E-35	1.87E-38	2.53E-40	3.90E-40	3.00E-41		
930	0.00E+00	0.00E+00	0.00E+00	6.21E-37	6.21E-37	5.00E-37	1.83E-36	8.31E-36	5.74E-39	7.77E-41	1.20E-40	9.21E-42		
940	0.00E+00	0.00E+00	0.00E+00	3.42E-37	3.42E-37	2.75E-37	1.01E-36	4.58E-36	4.75E-40	6.43E-42	9.92E-42	7.62E-43		
950	0.00E+00	0.00E+00	0.00E+00	1.88E-37	1.88E-37	1.52E-37	5.55E-37	2.52E-36	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
960	0.00E+00	0.00E+00	0.00E+00	1.03E-37	1.03E-37	8.31E-38	3.04E-37	1.38E-36	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
970	0.00E+00	0.00E+00	0.00E+00	5.66E-38	5.66E-38	4.56E-38	1.67E-37	7.58E-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
980	0.00E+00	0.00E+00	0.00E+00	3.10E-38	3.10E-38	2.49E-38	9.13E-38	4.15E-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
990	0.00E+00	0.00E+00	0.00E+00	1.70E-38	1.70E-38	1.37E-38	5.02E-38	2.28E-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
1000	0.00E+00	0.00E+00	0.00E+00	9.26E-39	9.26E-39	7.45E-39	2.73E-38	1.24E-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
1100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
1200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
1300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
1400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
1500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
1600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
1700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present	Pentachlorophenol Group						Benzo(a)pyrene Group		PCB Group	Tc-99 Group						
	Acenaphthylene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Hexachlorobutadiene	Pyrene	Benzo(a)pyrene	Dioxin/Furan	PCB	Tc-99	Np-237	U-238	U-234	U-235	
540	3.57E-24	4.41E-25	2.65E-25	9.51E-27	4.46E-26	7.10E-25	2.93E-26	0.00E+00	0.00E+00	0.00E+00	1.40E+02	5.05E-05	3.41E-08	4.20E-08	4.14E-08	
550	1.32E-24	1.63E-25	9.81E-26	3.52E-27	1.65E-26	2.63E-25	1.08E-26	0.00E+00	0.00E+00	0.00E+00	1.40E+02	5.05E-05	3.41E-08	4.20E-08	4.14E-08	
560	4.87E-25	6.02E-26	3.62E-26	1.30E-27	6.09E-27	9.70E-26	4.00E-27	0.00E+00	0.00E+00	0.00E+00	1.39E+02	5.05E-05	3.41E-08	4.20E-08	4.14E-08	
570	1.80E-25	2.22E-26	1.34E-26	4.79E-28	2.25E-27	3.58E-26	1.47E-27	0.00E+00	0.00E+00	0.00E+00	1.39E+02	5.05E-05	3.41E-08	4.20E-08	4.14E-08	
580	6.62E-26	8.18E-27	4.92E-27	1.76E-28	8.28E-28	1.32E-26	5.43E-28	0.00E+00	0.00E+00	0.00E+00	1.38E+02	5.05E-05	3.41E-08	4.20E-08	4.14E-08	
590	2.45E-26	3.03E-27	1.82E-27	6.53E-29	3.06E-28	4.88E-27	2.01E-28	0.00E+00	0.00E+00	0.00E+00	1.38E+02	5.05E-05	3.41E-08	4.20E-08	4.14E-08	
600	9.06E-27	1.12E-27	6.73E-28	2.41E-29	1.13E-28	1.80E-27	7.43E-29	0.00E+00	0.00E+00	0.00E+00	1.37E+02	7.61E-04	6.71E-07	8.27E-07	8.16E-07	
610	3.33E-27	4.12E-28	2.48E-28	8.89E-30	4.17E-29	6.64E-28	2.74E-29	0.00E+00	0.00E+00	0.00E+00	1.36E+02	7.61E-04	6.71E-07	8.27E-07	8.16E-07	
620	1.23E-27	1.52E-28	9.13E-29	3.27E-30	1.54E-29	2.44E-28	1.91E-29	0.00E+00	0.00E+00	0.00E+00	1.35E+02	7.61E-04	6.71E-07	8.27E-07	8.16E-07	
630	4.53E-28	5.59E-29	3.36E-29	1.21E-30	5.66E-30	9.01E-29	3.71E-30	0.00E+00	0.00E+00	0.00E+00	1.34E+02	7.61E-04	6.71E-07	8.27E-07	8.16E-07	
640	1.66E-28	2.06E-29	1.24E-29	4.43E-31	2.08E-30	3.31E-29	1.36E-30	0.00E+00	0.00E+00	0.00E+00	1.33E+02	7.61E-04	6.71E-07	8.27E-07	8.16E-07	
650	6.14E-29	7.59E-30	4.56E-30	1.64E-31	7.68E-31	1.22E-29	5.04E-31	0.00E+00	0.00E+00	0.00E+00	1.32E+02	7.61E-04	6.71E-07	8.27E-07	8.16E-07	
660	2.25E-29	7.78E-30	1.67E-30	6.01E-32	2.82E-31	4.49E-30	1.85E-31	0.00E+00	0.00E+00	0.00E+00	1.31E+02	7.61E-04	6.71E-07	8.27E-07	8.16E-07	
670	8.30E-30	1.02E-30	6.17E-31	2.21E-32	1.04E-31	1.65E-30	6.81E-32	0.00E+00	0.00E+00	0.00E+00	1.30E+02	7.61E-04	6.71E-07	8.27E-07	8.16E-07	
680	3.06E-30	3.78E-31	2.27E-31	8.15E-33	3.82E-32	6.08E-31	2.51E-32	0.00E+00	0.00E+00	0.00E+00	1.29E+02	7.61E-04	6.71E-07	8.27E-07	8.16E-07	
690	1.12E-30	1.39E-31	8.34E-32	2.99E-33	1.40E-32	2.23E-31	9.20E-33	0.00E+00	0.00E+00	0.00E+00	1.27E+02	7.61E-04	6.71E-07	8.27E-07	8.16E-07	
700	4.12E-31	5.09E-32	3.06E-32	1.10E-33	5.15E-33	8.19E-32	3.38E-33	0.00E+00	0.00E+00	0.00E+00	1.26E+02	5.53E-03	5.88E-06	7.25E-06	7.15E-06	
710	1.52E-31	1.87E-32	1.13E-32	4.04E-34	1.90E-33	3.02E-32	1.24E-33	0.00E+00	0.00E+00	0.00E+00	1.25E+02	5.53E-03	5.88E-06	7.25E-06	7.15E-06	
720	5.56E-32	6.87E-33	4.13E-33	1.48E-34	6.95E-34	1.11E-32	4.56E-34	0.00E+00	0.00E+00	0.00E+00	1.23E+02	5.53E-03	5.88E-06	7.25E-06	7.15E-06	
730	2.05E-32	2.53E-33	1.52E-33	5.46E-35	2.56E-34	4.08E-33	1.68E-34	0.00E+00	0.00E+00	0.00E+00	1.22E+02	5.53E-03	5.88E-06	7.25E-06	7.15E-06	
740	7.55E-33	9.32E-34	5.61E-34	2.01E-35	9.44E-35	1.50E-33	6.19E-35	0.00E+00	0.00E+00	0.00E+00	1.21E+02	5.53E-03	5.88E-06	7.25E-06	7.15E-06	
750	2.76E-33	3.41E-34	2.05E-34	7.35E-36	3.45E-35	5.49E-34	2.26E-35	0.00E+00	0.00E+00	0.00E+00	1.19E+02	5.53E-03	5.88E-06	7.25E-06	7.15E-06	
760	1.02E-33	1.25E-34	7.55E-35	2.71E-36	1.27E-35	2.02E-34	8.33E-36	0.00E+00	0.00E+00	0.00E+00	1.18E+02	5.53E-03	5.88E-06	7.25E-06	7.15E-06	
770	3.70E-34	4.58E-35	2.75E-35	9.87E-37	4.63E-36	7.38E-35	3.04E-36	0.00E+00	0.00E+00	0.00E+00	1.16E+02	5.53E-03	5.88E-06	7.25E-06	7.15E-06	
780	1.37E-34	1.69E-35	1.01E-35	3.64E-37	1.71E-36	2.72E-35	1.12E-36	0.00E+00	0.00E+00	0.00E+00	1.15E+02	5.53E-03	5.88E-06	7.25E-06	7.15E-06	
790	5.01E-35	6.19E-36	3.72E-36	1.33E-37	6.26E-37	9.97E-36	4.11E-37	0.00E+00	0.00E+00	0.00E+00	1.14E+02	5.53E-03	5.88E-06	7.25E-06	7.15E-06	
800	1.84E-35	2.27E-36	1.37E-36	4.90E-38	2.30E-37	3.66E-36	1.51E-37	0.00E+00	0.00E+00	0.00E+00	1.62E-21	1.12E+02	2.38E-02	2.97E-05	3.66E-05	3.61E-05
810	6.76E-36	8.35E-37	5.02E-37	1.80E-38	8.45E-38	1.35E-36	5.54E-38	0.00E+00	0.00E+00	0.00E+00	1.62E-21	1.11E+02	2.38E-02	2.97E-05	3.66E-05	3.61E-05
820	2.47E-36	3.06E-37	1.84E-37	6.59E-39	3.09E-38	4.92E-37	2.03E-38	0.00E+00	0.00E+00	0.00E+00	1.62E-21	1.09E+02	2.38E-02	2.97E-05	3.66E-05	3.61E-05
830	9.06E-37	1.12E-37	6.73E-38	2.41E-39	1.13E-38	1.80E-37	7.43E-39	0.00E+00	0.00E+00	0.00E+00	1.62E-21	1.08E+02	2.38E-02	2.97E-05	3.66E-05	3.61E-05
840	3.32E-37	4.10E-38	2.47E-38	8.85E-40	4.15E-39	6.61E-38	2.72E-39	0.00E+00	0.00E+00	0.00E+00	1.62E-21	1.07E+02	2.38E-02	2.97E-05	3.66E-05	3.61E-05
850	1.21E-37	1.50E-38	9.02E-39	3.24E-40	1.52E-39	2.42E-38	9.96E-40	0.00E+00	0.00E+00	0.00E+00	1.62E-21	1.05E+02	2.38E-02	2.97E-05	3.66E-05	3.61E-05
860	4.46E-38	5.51E-39	3.31E-39	1.19E-40	5.58E-40	8.88E-39	3.66E-40	0.00E+00	0.00E+00	0.00E+00	1.62E-21	1.04E+02	2.38E-02	2.97E-05	3.66E-05	3.61E-05
870	1.64E-38	2.02E-39	1.22E-39	4.36E-41	2.05E-40	3.26E-39	1.34E-40	0.00E+00	0.00E+00	0.00E+00	1.62E-21	1.02E+02	2.38E-02	2.97E-05	3.66E-05	3.61E-05
880	5.97E-39	7.37E-40	4.44E-40	1.59E-41	7.46E-41	1.19E-39	4.90E-41	0.00E+00	0.00E+00	0.00E+00	1.62E-21	1.01E+02	2.38E-02	2.97E-05	3.66E-05	3.61E-05
890	2.20E-39	2.72E-40	1.63E-40	5.86E-42	2.75E-41	4.38E-40	1.80E-41	0.00E+00	0.00E+00	0.00E+00	1.62E-21	9.96E+01	2.38E-02	2.97E-05	3.66E-05	3.61E-05
900	8.13E-40	1.00E-40	6.04E-41	2.17E-42	1.02E-41	1.62E-40	6.67E-42	0.00E+00	0.00E+00	0.00E+00	8.80E-20	9.84E+01	7.10E-02	1.04E-04	1.28E-04	1.26E-04
910	3.00E-40	3.71E-41	2.23E-41	8.00E-43	3.75E-42	5.98E-41	2.40E-42	0.00E+00	0.00E+00	0.00E+00	8.80E-20	9.70E+01	7.10E-02	1.04E-04	1.28E-04	1.26E-04
920	1.11E-40	1.38E-41	8.28E-42	2.97E-43	1.39E-42	2.22E-41	9.14E-43	0.00E+00	0.00E+00	0.00E+00	8.80E-20	9.55E+01	7.10E-02	1.04E-04	1.28E-04	1.26E-04
930	3.43E-41	4.23E-42	2.55E-42	9.13E-44	4.79E-43	6.87E-42	2.81E-43	0.00E+00	0.00E+00	0.00E+00	8.80E-20	9.41E+01	7.10E-02	1.04E-04	1.28E-04	1.26E-04
940	2.84E-42	3.50E-43	2.11E-43	7.56E-45	3.55E-44	5.65E-43	2.33E-44	0.00E+00	0.00E+00	0.00E+00	8.80E-20	9.27E+01	7.10E-02	1.04E-04	1.28E-04	1.26E-04
950	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-20	9.12E+01	7.10E-02	1.04E-04	1.28E-04	1.26E-04
960	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-20	9.01E+01	7.10E-02	1.04E-04	1.28E-04	1.26E-04
970	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-20	8.87E+01	7.10E-02	1.04E-04	1.28E-04	1.26E-04
980	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-20	8.75E+01	7.10E-02	1.04E-04	1.28E-04	1.26E-04
990	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-20	8.61E+01	7.10E-02	1.04E-04	1.28E-04	1.26E-04
1000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-20	8.49E+01	7.10E-02	1.04E-04	1.28E-04	1.26E-04
1100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-20	8.33E+01	7.22E-02	6.49E-04	8.00E-04	7.89E-04
1200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-20	8.22E+01	7.22E-02	6.49E-04	8.00E-04	7.89E-04
1300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-20	8.12E+01	7.22E-02	6.49E-04	8.00E-04	7.89E-04
1400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-20	8.02E+01	7.22E-02	6.49E-04	8.00E-04	7.89E-04
1500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-20	7.92E+01	7.22E-02	6.49E-04	8.00E-04	7.89E-04
1600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-20	7.81E+01	7.22E-02	6.49E-04	8.00E-04	7.89E-04
1700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-20	7.61E+01	7.22E-02	6.49E-04	8.00E-04	7.89E-04

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

U-238 Group						
Years from Present	Ra-226	Pu-238	Pu-239	Pu-240	Th-230	Th-232
540	1.80E-09	2.25E-08	2.20E-08	2.20E-08	1.71E-09	2.07E-09
550	1.80E-09	2.25E-08	2.20E-08	2.20E-08	1.71E-09	2.07E-09
560	1.80E-09	2.25E-08	2.20E-08	2.20E-08	1.71E-09	2.07E-09
570	1.80E-09	2.25E-08	2.20E-08	2.20E-08	1.71E-09	2.07E-09
580	1.80E-09	2.25E-08	2.20E-08	2.20E-08	1.71E-09	2.07E-09
590	1.80E-09	2.25E-08	2.20E-08	2.20E-08	1.71E-09	2.07E-09
600	3.53E-08	4.43E-07	4.34E-07	4.34E-07	3.36E-08	4.07E-08
610	3.53E-08	4.43E-07	4.34E-07	4.34E-07	3.36E-08	4.07E-08
620	3.53E-08	4.43E-07	4.34E-07	4.34E-07	3.36E-08	4.07E-08
630	3.53E-08	4.43E-07	4.34E-07	4.34E-07	3.36E-08	4.07E-08
640	3.53E-08	4.43E-07	4.34E-07	4.34E-07	3.36E-08	4.07E-08
650	3.53E-08	4.43E-07	4.34E-07	4.34E-07	3.36E-08	4.07E-08
660	3.53E-08	4.43E-07	4.34E-07	4.34E-07	3.36E-08	4.07E-08
670	3.53E-08	4.43E-07	4.34E-07	4.34E-07	3.36E-08	4.07E-08
680	3.53E-08	4.43E-07	4.34E-07	4.34E-07	3.36E-08	4.07E-08
690	3.53E-08	4.43E-07	4.34E-07	4.34E-07	3.36E-08	4.07E-08
700	3.10E-07	3.89E-06	3.80E-06	3.80E-06	2.95E-07	3.57E-07
710	3.10E-07	3.89E-06	3.80E-06	3.80E-06	2.95E-07	3.57E-07
720	3.10E-07	3.89E-06	3.80E-06	3.80E-06	2.95E-07	3.57E-07
730	3.10E-07	3.89E-06	3.80E-06	3.80E-06	2.95E-07	3.57E-07
740	3.10E-07	3.89E-06	3.80E-06	3.80E-06	2.95E-07	3.57E-07
750	3.10E-07	3.89E-06	3.80E-06	3.80E-06	2.95E-07	3.57E-07
760	3.10E-07	3.89E-06	3.80E-06	3.80E-06	2.95E-07	3.57E-07
770	3.10E-07	3.89E-06	3.80E-06	3.80E-06	2.95E-07	3.57E-07
780	3.10E-07	3.89E-06	3.80E-06	3.80E-06	2.95E-07	3.57E-07
790	3.10E-07	3.89E-06	3.80E-06	3.80E-06	2.95E-07	3.57E-07
800	1.56E-06	1.96E-05	1.92E-05	1.92E-05	1.49E-06	1.80E-06
810	1.56E-06	1.96E-05	1.92E-05	1.92E-05	1.49E-06	1.80E-06
820	1.56E-06	1.96E-05	1.92E-05	1.92E-05	1.49E-06	1.80E-06
830	1.56E-06	1.96E-05	1.92E-05	1.92E-05	1.49E-06	1.80E-06
840	1.56E-06	1.96E-05	1.92E-05	1.92E-05	1.49E-06	1.80E-06
850	1.56E-06	1.96E-05	1.92E-05	1.92E-05	1.49E-06	1.80E-06
860	1.56E-06	1.96E-05	1.92E-05	1.92E-05	1.49E-06	1.80E-06
870	1.56E-06	1.96E-05	1.92E-05	1.92E-05	1.49E-06	1.80E-06
880	1.56E-06	1.96E-05	1.92E-05	1.92E-05	1.49E-06	1.80E-06
890	1.56E-06	1.96E-05	1.92E-05	1.92E-05	1.49E-06	1.80E-06
900	5.46E-06	6.85E-05	6.70E-05	6.70E-05	5.20E-06	6.30E-06
910	5.46E-06	6.85E-05	6.70E-05	6.70E-05	5.20E-06	6.30E-06
920	5.46E-06	6.85E-05	6.70E-05	6.70E-05	5.20E-06	6.30E-06
930	5.46E-06	6.85E-05	6.70E-05	6.70E-05	5.20E-06	6.30E-06
940	5.46E-06	6.85E-05	6.70E-05	6.70E-05	5.20E-06	6.30E-06
950	5.46E-06	6.85E-05	6.70E-05	6.70E-05	5.20E-06	6.30E-06
960	5.46E-06	6.85E-05	6.70E-05	6.70E-05	5.20E-06	6.30E-06
970	5.46E-06	6.85E-05	6.70E-05	6.70E-05	5.20E-06	6.30E-06
980	5.46E-06	6.85E-05	6.70E-05	6.70E-05	5.20E-06	6.30E-06
990	5.46E-06	6.85E-05	6.70E-05	6.70E-05	5.20E-06	6.30E-06
1000	1.50E-05	1.88E-04	1.84E-04	1.84E-04	1.42E-05	1.72E-05
1100	3.42E-05	4.28E-04	4.19E-04	4.19E-04	3.25E-05	3.94E-05
1200	6.85E-05	8.59E-04	8.41E-04	8.41E-04	6.52E-05	7.90E-05
1300	1.25E-04	1.56E-03	1.53E-03	1.53E-03	1.18E-04	1.44E-04
1400	2.08E-04	2.60E-03	2.55E-03	2.55E-03	1.97E-04	2.39E-04
1500	3.25E-04	4.08E-03	3.99E-03	3.99E-03	3.09E-04	3.75E-04
1600	4.84E-04	6.06E-03	5.93E-03	5.93E-03	4.60E-04	5.58E-04
1700	6.88E-04	8.63E-03	8.45E-03	8.45E-03	6.54E-04	7.93E-04

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present	Copper Group						Thallium Group								C		
	Copper	Barium	Antimony	Manganese	Mercury	Uranium	Zinc	Thallium	Cadmium	Silver	Iron	Lead	Nickel	Beryllium	Vanadium	Arsenic	Chromium
1800	7.03E-03	1.31E-02	7.12E-05	4.40E-03	2.71E-06	3.80E-05	5.68E-02	3.11E-06	1.72E-05	1.94E-04	6.36E-10	6.48E-04	2.75E-15	6.85E-05	2.25E-04	1.21E-08	2.81E+00
1900	8.89E-03	1.66E-02	9.00E-05	5.57E-03	3.43E-06	5.20E-05	7.18E-02	4.27E-06	2.35E-05	2.66E-04	1.64E-09	8.89E-04	1.30E-14	9.40E-05	3.09E-04	2.39E-08	3.00E+00
2000	1.10E-02	2.06E-02	1.11E-04	6.90E-03	4.25E-06	6.93E-05	8.89E-02	5.71E-06	3.15E-05	3.57E-04	3.82E-09	1.19E-03	5.22E-14	1.26E-04	4.13E-04	4.43E-08	3.17E+00
2100	1.34E-02	2.50E-02	1.36E-04	8.39E-03	5.17E-06	9.01E-05	1.08E-01	7.44E-06	4.11E-05	4.65E-04	8.40E-09	1.53E-03	1.84E-13	1.64E-04	5.39E-04	7.78E-08	3.33E+00
2200	1.61E-02	3.01E-02	1.63E-04	1.01E-02	6.20E-06	1.15E-04	1.30E-01	9.47E-06	5.22E-05	5.91E-04	1.72E-08	1.97E-03	5.80E-13	2.09E-04	6.85E-04	1.29E-07	3.48E+00
2300	1.90E-02	3.56E-02	1.93E-04	1.19E-02	7.34E-06	1.44E-04	1.54E-01	1.18E-05	6.53E-05	7.39E-04	3.32E-08	2.47E-03	1.67E-12	2.61E-04	8.58E-04	2.06E-07	3.62E+00
2400	2.23E-02	4.16E-02	2.26E-04	1.40E-02	8.59E-06	1.76E-04	1.80E-01	1.46E-05	8.04E-05	9.10E-04	6.10E-08	1.04E-03	4.45E-12	3.21E-04	1.06E-03	3.16E-07	1.74E+00
2500	2.58E-02	4.82E-02	2.61E-04	1.62E-02	9.95E-06	2.13E-04	2.08E-01	1.76E-05	9.73E-05	1.10E-03	1.07E-07	3.68E-03	1.10E-11	3.89E-04	1.28E-03	4.69E-07	3.85E+00
2600	2.96E-02	5.53E-02	2.99E-04	1.85E-02	1.14E-05	2.54E-04	2.39E-01	2.11E-05	1.16E-04	1.32E-03	1.82E-07	4.40E-03	2.57E-11	4.65E-04	1.53E-03	6.77E-07	3.95E+00
2700	3.38E-02	6.32E-02	3.42E-04	2.12E-02	1.30E-05	3.01E-04	2.73E-01	2.49E-05	1.37E-04	1.55E-03	2.97E-07	5.19E-03	5.64E-11	5.48E-04	1.80E-03	9.48E-07	4.04E+00
2800	3.82E-02	7.13E-02	3.86E-04	2.39E-02	1.47E-05	3.51E-04	3.08E-01	2.91E-05	1.61E-04	1.82E-03	4.71E-07	6.07E-03	1.18E-10	6.41E-04	2.11E-03	1.30E-06	4.13E+00
2900	4.25E-02	7.93E-02	4.30E-04	2.66E-02	1.64E-05	4.06E-04	3.43E-01	3.38E-05	1.86E-04	2.11E-03	7.25E-07	7.04E-03	2.36E-10	7.44E-04	2.45E-03	1.75E-06	4.19E+00
3000	4.74E-02	8.86E-02	4.80E-04	2.97E-02	1.83E-05	4.66E-04	3.83E-01	3.89E-05	2.15E-04	2.43E-03	1.09E-06	8.10E-03	4.54E-10	8.57E-04	2.82E-03	2.30E-06	4.25E+00
3100	5.27E-02	9.85E-02	5.34E-04	3.30E-02	2.03E-05	5.30E-04	4.26E-01	4.42E-05	2.44E-04	2.76E-03	1.60E-06	9.21E-03	8.41E-10	9.74E-04	3.20E-03	2.97E-06	4.31E+00
3200	5.81E-02	1.08E-01	5.87E-04	3.64E-02	2.24E-05	5.99E-04	4.69E-01	5.02E-05	2.77E-04	3.14E-03	2.29E-06	1.05E-02	1.51E-09	1.11E-03	3.64E-03	3.79E-06	4.35E+00
3300	6.37E-02	1.19E-01	6.44E-04	3.99E-02	2.46E-05	6.73E-04	5.11E-01	5.64E-05	3.11E-04	3.52E-03	3.23E-06	1.18E-02	2.61E-09	1.24E-03	4.09E-03	4.75E-06	4.39E+00
3400	6.93E-02	1.29E-01	7.02E-04	4.34E-02	2.67E-05	7.48E-04	5.60E-01	6.33E-05	3.49E-04	3.95E-03	4.47E-06	1.32E-02	4.42E-09	1.39E-03	4.59E-03	5.87E-06	4.42E+00
3500	7.53E-02	1.41E-01	7.62E-04	4.72E-02	2.90E-05	8.32E-04	6.08E-01	7.04E-05	3.89E-04	4.40E-03	6.10E-06	1.47E-02	7.26E-09	1.55E-03	5.10E-03	7.16E-06	4.44E+00
3600	8.13E-02	1.52E-01	8.22E-04	5.09E-02	3.13E-05	9.16E-04	6.56E-01	7.89E-05	4.30E-04	4.87E-03	8.19E-06	1.63E-02	1.17E-08	1.72E-03	5.65E-03	8.66E-06	4.46E+00
3700	8.79E-02	1.64E-01	8.90E-04	5.51E-02	3.39E-05	1.01E-03	7.10E-01	8.62E-05	4.76E-04	5.38E-03	1.08E-05	1.80E-02	1.83E-08	1.90E-03	6.24E-03	1.04E-05	4.47E+00
3800	9.42E-02	1.76E-01	9.53E-04	5.90E-02	3.63E-05	1.10E-03	7.61E-01	9.47E-05	5.22E-04	5.91E-03	1.41E-05	1.97E-02	2.81E-08	2.09E-03	6.85E-03	1.22E-05	4.48E+00
3900	1.01E-01	1.88E-01	1.02E-03	6.32E-02	3.89E-05	1.19E-03	8.14E-01	1.04E-04	5.71E-04	6.46E-03	1.82E-05	2.16E-02	4.25E-08	2.28E-03	7.50E-03	1.43E-05	4.48E+00
4000	1.08E-01	2.01E-01	1.09E-03	6.75E-02	4.16E-05	1.30E-03	8.70E-01	1.13E-04	6.23E-04	7.05E-03	2.33E-05	6.31E-02	2.49E-03	8.17E-03	1.66E-05	4.47E+00	
4100	1.15E-01	2.14E-01	1.16E-03	7.19E-02	4.42E-05	1.40E-03	9.27E-01	1.23E-04	6.78E-04	7.67E-03	2.94E-05	2.56E-02	9.20E-08	2.71E-03	8.90E-03	1.92E-05	4.47E+00
4200	1.22E-01	2.27E-01	1.23E-03	7.63E-02	4.69E-05	1.51E-03	9.83E-01	1.33E-04	7.34E-04	8.31E-03	3.67E-05	2.77E-02	1.32E-07	2.93E-03	9.64E-03	2.20E-05	4.45E+00
4300	1.29E-01	2.41E-01	1.31E-03	8.08E-02	4.97E-05	1.61E-03	1.04E+00	1.44E-04	7.93E-04	8.98E-03	4.55E-05	3.00E-02	1.87E-07	3.17E-03	1.04E-02	2.50E-05	4.44E+00
4400	1.36E-01	2.55E-01	1.38E-03	8.54E-02	5.26E-05	1.73E-03	1.10E+00	1.55E-04	8.55E-04	9.67E-03	5.58E-05	3.23E-02	2.61E-07	3.41E-03	1.12E-02	2.82E-05	4.42E+00
4500	1.44E-01	2.69E-01	1.46E-03	9.02E-02	5.55E-05	1.85E-03	1.16E+00	1.66E-04	9.18E-04	1.04E-02	6.83E-05	3.47E-02	3.59E-03	3.67E-03	1.21E-02	3.16E-05	4.40E+00
4600	1.51E-01	2.83E-01	1.53E-03	9.47E-02	5.83E-05	1.97E-03	1.23E+00	1.78E-04	9.84E-04	1.11E-02	8.24E-05	3.72E-02	4.90E-07	3.93E-03	1.29E-02	3.53E-05	4.37E+00
4700	1.59E-01	2.97E-01	1.61E-03	9.95E-02	6.13E-05	2.08E-03	1.28E+00	1.91E-04	1.05E-03	1.19E-02	9.91E-05	3.98E-02	6.60E-07	4.20E-03	1.38E-02	3.92E-05	4.34E+00
4800	1.67E-01	3.11E-01	1.69E-03	1.04E-01	6.42E-05	2.21E-03	1.34E+00	2.04E-04	1.12E-03	1.27E-02	1.18E-04	4.25E-02	8.78E-07	4.49E-03	1.48E-02	4.32E-05	4.31E+00
4900	1.74E-01	3.25E-01	1.76E-03	1.09E-01	6.71E-05	2.33E-03	1.41E+00	2.17E-04	1.20E-03	1.36E-02	1.40E-04	4.52E-02	1.16E-06	4.78E-03	1.57E-02	4.76E-05	4.28E+00
5000	1.82E-01	3.40E-01	1.84E-03	1.14E-01	7.02E-05	2.46E-03	1.47E+00	2.31E-04	1.28E-03	1.44E-02	1.65E-04	4.82E-02	1.51E-06	5.09E-03	1.67E-02	5.20E-05	4.24E+00
5100	1.90E-01	3.55E-01	1.92E-03	1.19E-01	7.33E-05	2.59E-03	1.53E+00	2.44E-04	1.35E-03	1.53E-02	1.93E-04	5.09E-02	1.96E-06	5.38E-03	1.77E-02	5.65E-05	4.21E+00
5200	1.98E-01	3.69E-01	2.00E-03	1.24E-01	7.62E-05	2.72E-03	1.60E+00	2.60E-04	1.43E-03	1.62E-02	2.25E-04	5.42E-02	2.52E-06	5.73E-03	1.88E-02	6.14E-05	4.17E+00
5300	2.06E-01	3.84E-01	2.08E-03	1.29E-01	7.93E-05	2.85E-03	1.66E+00	2.73E-04	1.51E-03	1.71E-02	2.60E-04	5.70E-02	3.20E-06	6.02E-03	1.98E-02	6.64E-05	4.13E+00
5400	2.14E-01	3.99E-01	2.16E-03	1.34E-01	8.24E-05	2.99E-03	1.72E+00	2.89E-04	1.59E-03	1.80E-02	3.00E-04	6.02E-02	4.04E-06	6.36E-03	2.09E-02	7.16E-05	4.09E+00
5500	2.22E-01	4.14E-01	2.24E-03	1.39E-01	8.54E-05	3.12E-03	1.79E+00	3.04E-04	1.68E-03	1.90E-02	3.45E-04	6.34E-02	5.09E-06	6.71E-03	2.20E-02	7.71E-05	4.04E+00
5600	2.30E-01	4.29E-01	2.32E-03	1.44E-01	8.85E-05	3.25E-03	1.85E+00	3.20E-04	1.77E-03	2.00E-02	3.94E-04	6.67E-02	6.33E-06	7.05E-03	2.32E-02	8.19E-05	4.00E+00
5700	2.38E-01	4.44E-01	2.40E-03	1.49E-01	9.16E-05	3.39E-03	1.92E+00	3.36E-04	1.85E-03	2.09E-02	4.48E-04	6.99E-02	7.83E-06	7.39E-03	2.43E-02	8.80E-05	3.96E+00
5800	2.46E-01	4.59E-01	2.49E-03	1.54E-01	9.48E-05	3.53E-03	1.98E+00	3.53E-04	1.95E-03	2.21E-02	5.07E-04	7.36E-02	9.64E-06	7.78E-03	2.56E-02	9.34E-05	3.91E+00
5900	2.54E-01	4.74E-01	2.57E-03	1.59E-01	9.78E-05	3.66E-03	2.05E+00	3.69E-04	2.04E-03	2.30E-02	5.74E-04	7.69E-02	1.18E-05	8.12E-03	2.67E-02	9.89E-05	3.87E+00
6000	2.62E-01	4.89E-01	2.65E-03	1.64E-01	1.01E-04	3.81E-03	2.11E+00	3.87E-04	2.13E-03	2.41E-02	6.47E-04	8.06E-02	1.43E-05	8.52E-03	2.80E-02	1.05E-04	3.82E+00
6100	2.70E-01	5.04E-01	2.73E-03	1.69E-01	1.04E-04	3.95E-03	2.18E+00	4.04E-04	2.23E-03	2.52E-02	7.20E-04	8.43E-02	1.72E-05	8.91E-03	2.93E-02	1.10E-04	3.78E+00
6200	2.78E-01	5.19E-01	2.81E-03	1.74E-01	1.07E-04	4.08E-03	2.24E+00	4.22E-04	2.33E-03	2.64E-02	8.08E-04	8.80E-02	2.07E-05	9.30E-03	3.0		

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present	Pentachlorophenol Group						Benzo(a)pyrene Group		PCB Group		Tc-99 Group				
	Acenaphthylene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Hexachlorobutadiene	Pyrene	Benzo(a)pyrene	Dioxin/Furan	PCB	Tc-99	Np-237	U-238	U-234	U-235
1800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-15	2.72E+01	2.82E+00	1.79E-02	2.21E-02	2.18E-02
1900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-15	2.33E+01	3.21E+00	2.38E-02	2.94E-02	2.90E-02
2000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-15	1.99E+01	3.55E+00	3.08E-02	3.79E-02	3.74E-02
2100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-15	1.70E+01	3.89E+00	3.90E-02	4.81E-02	4.75E-02
2200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-15	1.45E+01	4.16E+00	4.84E-02	5.96E-02	5.88E-02
2300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-15	1.24E+01	4.44E+00	5.92E-02	7.30E-02	7.20E-02
2400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-15	1.05E+01	4.64E+00	7.11E-02	8.76E-02	8.65E-02
2500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-15	8.98E+00	4.85E+00	8.45E-02	1.04E-01	1.03E-01
2600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-15	7.61E+00	5.02E+00	9.93E-02	1.22E-01	1.21E-01
2700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-15	6.47E+00	5.15E+00	1.15E-01	1.42E-01	1.40E-01
2800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-15	5.51E+00	5.26E+00	1.33E-01	1.64E-01	1.62E-01
2900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-15	4.66E+00	5.36E+00	1.52E-01	1.87E-01	1.85E-01
3000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-15	3.96E+00	5.46E+00	1.72E-01	2.12E-01	2.09E-01
3100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-15	3.35E+00	5.53E+00	1.94E-01	2.39E-01	2.36E-01
3200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-16	2.84E+00	5.56E+00	2.18E-01	2.69E-01	2.65E-01
3300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-16	2.41E+00	5.63E+00	2.42E-01	2.98E-01	2.94E-01
3400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-16	2.04E+00	5.67E+00	2.68E-01	3.30E-01	3.25E-01
3500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-16	1.73E+00	5.67E+00	2.95E-01	3.64E-01	3.59E-01
3600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-16	1.46E+00	5.70E+00	3.24E-01	4.00E-01	3.94E-01
3700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-16	1.24E+00	5.74E+00	3.56E-01	4.38E-01	4.32E-01
3800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-16	1.05E+00	5.74E+00	3.87E-01	4.77E-01	4.70E-01
3900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-17	8.89E-01	5.74E+00	4.22E-01	5.20E-01	5.13E-01
4000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-17	7.52E-01	5.74E+00	4.56E-01	5.62E-01	5.55E-01
4100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-17	6.35E-01	5.74E+00	4.93E-01	6.08E-01	5.99E-01
4200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-17	5.39E-01	5.74E+00	5.30E-01	6.53E-01	6.44E-01
4300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-17	4.55E-01	5.74E+00	5.68E-01	7.00E-01	6.91E-01
4400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-17	3.85E-01	5.70E+00	6.08E-01	7.50E-01	7.40E-01
4500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-18	3.26E-01	5.70E+00	6.51E-01	8.02E-01	7.91E-01
4600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-18	2.75E-01	5.70E+00	6.95E-01	8.56E-01	8.45E-01
4700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-18	2.33E-01	5.67E+00	7.39E-01	9.10E-01	8.98E-01
4800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-18	1.97E-01	5.67E+00	7.84E-01	9.67E-01	9.54E-01
4900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-18	1.67E-01	5.63E+00	8.32E-01	1.03E+00	1.01E+00
5000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-19	1.41E-01	5.63E+00	8.80E-01	1.08E+00	1.07E+00
5100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-19	1.19E-01	5.60E+00	9.29E-01	1.15E+00	1.13E+00
5200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-19	1.01E-01	5.60E+00	9.81E-01	1.21E+00	1.19E+00
5300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-19	8.54E-02	5.56E+00	1.03E+00	1.27E+00	1.25E+00
5400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-19	7.23E-02	5.56E+00	1.08E+00	1.34E+00	1.32E+00
5500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-19	6.09E-02	5.53E+00	1.14E+00	1.40E+00	1.38E+00
5600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-20	5.16E-02	5.53E+00	1.19E+00	1.47E+00	1.45E+00
5700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-20	4.37E-02	5.50E+00	1.25E+00	1.54E+00	1.52E+00
5800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-20	3.70E-02	5.50E+00	1.31E+00	1.61E+00	1.59E+00
5900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-20	3.12E-02	5.46E+00	1.37E+00	1.69E+00	1.66E+00
6000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-20	2.64E-02	5.46E+00	1.43E+00	1.76E+00	1.73E+00
6100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-21	2.23E-02	5.43E+00	1.49E+00	1.83E+00	1.81E+00
6200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-21	1.89E-02	5.43E+00	1.55E+00	1.91E+00	1.88E+00
6300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-21	1.60E-02	5.39E+00	1.61E+00	1.99E+00	1.96E+00
6400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-21	1.35E-02	5.36E+00	1.68E+00	2.07E+00	2.04E+00
6500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-22	1.14E-02	5.36E+00	1.74E+00	2.15E+00	2.12E+00
6600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-22	9.65E-03	5.33E+00	1.81E+00	2.23E+00	2.20E+00
6700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-22	8.16E-03	5.33E+00	1.87E+00</td		

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

U-238 Group					
Years from Present	Ra-226	Pu-238	Pu-239	Pu-240	Th-232
1800	9.43E-04	1.18E-02	1.16E-02	1.16E-02	8.97E-04
1900	1.25E-03	1.57E-02	1.54E-02	1.54E-02	1.19E-03
2000	1.62E-03	2.03E-02	1.99E-02	1.99E-02	1.54E-03
2100	2.06E-03	2.58E-02	2.52E-02	2.52E-02	1.96E-03
2200	2.55E-03	3.20E-02	3.13E-02	3.13E-02	2.42E-03
2300	3.12E-03	3.91E-02	3.83E-02	3.83E-02	2.96E-03
2400	3.75E-03	4.70E-02	4.60E-02	4.60E-02	3.56E-03
2500	4.45E-03	5.58E-02	5.46E-02	5.46E-02	4.23E-03
2600	5.23E-03	6.56E-02	6.42E-02	6.42E-02	4.98E-03
2700	6.07E-03	7.61E-02	7.45E-02	7.45E-02	5.77E-03
2800	7.00E-03	8.78E-02	8.59E-02	8.59E-02	6.65E-03
2900	7.99E-03	1.00E-01	9.81E-02	9.81E-02	7.60E-03
3000	9.06E-03	1.14E-01	1.11E-01	1.11E-01	8.62E-03
3100	1.02E-02	1.28E-01	1.26E-01	1.26E-01	9.73E-03
3200	1.15E-02	1.44E-01	1.41E-01	1.41E-01	1.09E-02
3300	1.27E-02	1.60E-01	1.56E-01	1.56E-01	1.21E-02
3400	1.41E-02	1.77E-01	1.73E-01	1.73E-01	1.34E-02
3500	1.55E-02	1.95E-01	1.91E-01	1.91E-01	1.48E-02
3600	1.71E-02	2.14E-01	2.10E-01	2.10E-01	1.62E-02
3700	1.87E-02	2.35E-01	2.30E-01	2.30E-01	1.78E-02
3800	2.04E-02	2.55E-01	2.50E-01	2.50E-01	1.94E-02
3900	2.22E-02	2.78E-01	2.72E-01	2.72E-01	2.11E-02
4000	2.40E-02	3.01E-01	2.95E-01	2.95E-01	2.29E-02
4100	2.60E-02	3.26E-01	3.19E-01	3.19E-01	2.47E-02
4200	2.79E-02	3.50E-01	3.42E-01	3.42E-01	2.65E-02
4300	2.99E-02	3.75E-01	3.67E-01	3.67E-01	2.85E-02
4400	3.21E-02	4.02E-01	3.93E-01	3.93E-01	3.05E-02
4500	3.43E-02	4.30E-01	4.20E-01	4.20E-01	3.26E-02
4600	3.66E-02	4.59E-01	4.49E-01	4.49E-01	3.48E-02
4700	3.89E-02	4.88E-01	4.77E-01	4.77E-01	3.70E-02
4800	4.13E-02	5.18E-01	5.07E-01	5.07E-01	3.93E-02
4900	4.38E-02	5.50E-01	5.38E-01	5.38E-01	4.17E-02
5000	4.63E-02	5.81E-01	5.69E-01	5.69E-01	4.41E-02
5100	4.89E-02	6.14E-01	6.01E-01	6.01E-01	4.65E-02
5200	5.16E-02	6.48E-01	6.34E-01	6.34E-01	4.91E-02
5300	5.44E-02	6.81E-01	6.67E-01	6.67E-01	5.17E-02
5400	5.71E-02	7.17E-01	7.01E-01	7.01E-01	5.43E-02
5500	5.99E-02	7.52E-01	7.36E-01	7.36E-01	5.70E-02
5600	6.29E-02	7.89E-01	7.72E-01	7.72E-01	5.98E-02
5700	6.59E-02	8.27E-01	8.09E-01	8.09E-01	6.27E-02
5800	6.89E-02	8.64E-01	8.46E-01	8.46E-01	6.55E-02
5900	7.20E-02	9.03E-01	8.84E-01	8.84E-01	6.85E-02
6000	7.51E-02	9.42E-01	9.22E-01	9.22E-01	7.14E-02
6100	7.84E-02	9.83E-01	9.62E-01	9.62E-01	7.45E-02
6200	8.16E-02	1.02E+00	1.00E+00	1.00E+00	7.76E-02
6300	8.50E-02	1.07E+00	1.04E+00	1.04E+00	8.08E-02
6400	8.83E-02	1.11E+00	1.08E+00	1.08E+00	8.40E-02
6500	9.17E-02	1.15E+00	1.13E+00	1.13E+00	8.72E-02
6600	9.52E-02	1.19E+00	1.17E+00	1.17E+00	9.05E-02
6700	9.85E-02	1.23E+00	1.21E+00	1.21E+00	9.36E-02
6800	1.02E-01	1.28E+00	1.26E+00	1.26E+00	9.73E-02
6900	1.06E-01	1.33E+00	1.30E+00	1.30E+00	1.01E-01
7000	1.09E-01	1.37E+00	1.34E+00	1.34E+00	1.04E-01
7100	1.13E-01	1.42E+00	1.39E+00	1.39E+00	1.07E-01

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present	Copper Group						Thallium Group								C		
	Copper	Barium	Antimony	Manganese	Mercury	Uranium	Zinc	Thallium	Cadmium	Silver	Iron	Lead	Nickel	Beryllium	Vanadium	Arsenic	Chromium
7200	3.58E-01	6.69E-01	3.63E-03	2.24E-01	1.38E-04	5.50E-03	2.89E+00	6.11E-04	3.37E-03	3.81E-02	2.09E-03	1.27E-01	1.03E-04	1.35E-02	4.42E-02	1.79E-04	3.26E+00
7300	3.65E-01	6.82E-01	3.69E-03	2.29E-01	1.41E-04	5.59E-03	2.95E+00	6.31E-04	3.48E-03	3.94E-02	2.26E-03	1.31E-01	1.18E-04	1.39E-02	4.57E-02	1.86E-04	3.22E+00
7400	3.72E-01	6.94E-01	3.76E-03	2.33E-01	1.43E-04	5.74E-03	3.00E+00	6.51E-04	3.59E-03	4.06E-02	2.45E-03	1.36E-01	1.35E-04	1.43E-02	4.71E-02	1.92E-04	3.17E+00
7500	3.82E-01	7.13E-01	3.86E-03	2.39E-01	1.47E-04	5.89E-03	3.08E+00	6.73E-04	3.71E-03	4.20E-02	2.65E-03	1.40E-01	1.54E-04	1.48E-02	4.87E-02	1.98E-04	3.12E+00
7600	3.88E-01	7.25E-01	3.93E-03	2.43E-01	1.50E-04	6.04E-03	3.13E+00	6.93E-04	3.83E-03	4.33E-02	2.86E-03	1.44E-01	1.75E-04	1.53E-02	5.02E-02	2.05E-04	3.08E+00
7700	3.95E-01	7.37E-01	3.99E-03	2.47E-01	1.52E-04	6.14E-03	3.19E+00	7.13E-04	3.94E-03	4.45E-02	3.08E-03	1.49E-01	2.00E-04	1.57E-02	5.16E-02	2.11E-04	3.04E+00
7800	4.05E-01	7.56E-01	4.10E-03	2.53E-01	1.56E-04	6.29E-03	3.27E+00	7.36E-04	4.06E-03	4.59E-02	3.31E-03	1.53E-01	2.26E-04	1.62E-02	5.33E-02	2.17E-04	2.99E+00
7900	4.11E-01	7.68E-01	4.16E-03	2.58E-01	1.59E-04	6.44E-03	3.32E+00	7.56E-04	4.17E-03	4.72E-02	3.55E-03	1.57E-01	2.55E-04	1.66E-02	5.47E-02	2.23E-04	2.95E+00
8000	4.18E-01	7.81E-01	4.23E-03	2.62E-01	1.61E-04	6.58E-03	3.37E+00	7.76E-04	4.28E-03	4.84E-02	3.80E-03	1.62E-01	2.87E-04	1.71E-02	5.62E-02	2.30E-04	2.91E+00
8100	4.25E-01	7.93E-01	4.30E-03	2.66E-01	1.64E-04	6.73E-03	3.43E+00	7.98E-04	4.40E-03	4.98E-02	4.07E-03	1.66E-01	3.22E-04	1.76E-02	5.78E-02	2.36E-04	2.86E+00
8200	4.35E-01	8.12E-01	4.40E-03	2.72E-01	1.68E-04	6.83E-03	3.51E+00	8.18E-04	4.51E-03	5.10E-02	4.34E-03	1.70E-01	3.61E-04	1.80E-02	5.92E-02	2.42E-04	2.82E+00
8300	4.41E-01	8.24E-01	4.46E-03	2.76E-01	1.70E-04	6.98E-03	3.56E+00	8.40E-04	4.63E-03	5.24E-02	4.63E-03	1.75E-01	4.03E-04	1.85E-02	6.08E-02	2.48E-04	2.78E+00
8400	4.48E-01	8.36E-01	4.53E-03	2.81E-01	1.73E-04	7.13E-03	3.62E+00	8.60E-04	4.74E-03	5.37E-02	4.93E-03	1.79E-01	4.49E-04	1.89E-02	6.23E-02	2.54E-04	2.73E+00
8500	4.55E-01	8.49E-01	4.60E-03	2.85E-01	1.75E-04	7.23E-03	3.67E+00	8.82E-04	4.87E-03	5.51E-02	5.27E-03	1.84E-01	4.99E-04	1.94E-02	6.39E-02	2.61E-04	2.69E+00
8600	4.61E-01	8.61E-01	4.67E-03	2.89E-01	1.78E-04	7.38E-03	3.72E+00	9.04E-04	4.99E-03	5.65E-02	5.58E-03	1.88E-01	5.54E-04	1.99E-02	6.55E-02	2.67E-04	2.65E+00
8700	4.68E-01	8.74E-01	4.73E-03	2.93E-01	1.80E-04	7.48E-03	3.78E+00	9.24E-04	5.10E-03	5.77E-02	5.89E-03	1.93E-01	6.13E-04	2.04E-02	6.69E-02	2.73E-04	2.61E+00
8800	4.74E-01	8.86E-01	4.80E-03	2.97E-01	1.83E-04	7.62E-03	3.83E+00	9.47E-04	5.22E-03	5.91E-02	6.26E-03	1.97E-01	6.78E-04	2.09E-02	6.85E-02	2.79E-04	2.57E+00
8900	4.84E-01	9.05E-01	4.90E-03	3.03E-01	1.87E-04	7.77E-03	3.91E+00	9.67E-04	5.33E-03	6.03E-02	6.62E-03	2.01E-01	7.49E-04	2.13E-02	7.00E-02	2.85E-04	2.54E+00
9000	4.91E-01	9.17E-01	4.97E-03	3.08E-01	1.89E-04	7.87E-03	3.96E+00	9.89E-04	5.46E-03	6.17E-02	6.99E-03	2.06E-01	8.23E-04	2.18E-02	7.16E-02	2.91E-04	2.50E+00
9100	4.98E-01	9.29E-01	5.04E-03	3.12E-01	1.92E-04	8.02E-03	4.02E+00	1.01E-03	5.57E-03	6.30E-02	7.40E-03	2.10E-01	9.05E-04	2.22E-02	7.30E-02	2.97E-04	2.46E+00
9200	5.04E-01	9.42E-01	5.10E-03	3.16E-01	1.94E-04	8.12E-03	4.07E+00	1.03E-03	5.69E-03	6.44E-02	7.77E-03	2.15E-01	9.91E-04	2.27E-02	7.47E-02	3.04E-04	2.42E+00
9300	5.11E-01	9.54E-01	5.17E-03	3.20E-01	1.97E-04	8.27E-03	4.12E+00	1.05E-03	5.81E-03	6.58E-02	8.19E-03	2.19E-01	1.09E-03	2.32E-02	7.63E-02	3.09E-04	2.38E+00
9400	5.18E-01	9.67E-01	5.24E-03	3.24E-01	1.99E-04	8.37E-03	4.18E+00	1.07E-03	5.92E-03	6.70E-02	8.66E-03	2.24E-01	1.19E-03	2.36E-02	7.77E-02	3.15E-04	2.34E+00
9500	5.24E-01	9.79E-01	5.30E-03	3.28E-01	2.02E-04	8.52E-03	4.23E+00	1.10E-03	6.04E-03	6.84E-02	9.07E-03	2.28E-01	1.30E-03	2.41E-02	7.93E-02	3.21E-04	2.31E+00
9600	5.31E-01	9.91E-01	5.37E-03	3.32E-01	2.05E-04	8.61E-03	4.29E+00	1.12E-03	6.15E-03	6.96E-02	9.54E-03	2.32E-01	1.41E-03	2.46E-02	8.08E-02	3.27E-04	2.28E+00
9700	5.37E-01	1.00E+00	5.44E-03	3.37E-01	2.07E-04	8.71E-03	4.34E+00	1.14E-03	6.28E-03	7.10E-02	1.00E-02	2.37E-01	1.54E-03	2.51E-02	8.24E-02	3.33E-04	2.24E+00
9800	5.44E-01	1.02E+00	5.50E-03	3.41E-01	2.10E-04	8.86E-03	4.39E+00	1.16E-03	6.39E-03	7.23E-02	1.05E-02	2.41E-01	1.67E-03	2.55E-02	8.38E-02	3.39E-04	2.21E+00
9900	5.51E-01	1.03E+00	5.57E-03	3.45E-01	2.12E-04	8.96E-03	4.45E+00	1.18E-03	6.51E-03	7.37E-02	1.10E-02	2.46E-01	1.81E-03	2.60E-02	8.54E-02	3.44E-04	2.18E+00
10000	5.57E-01	1.04E+00	5.64E-03	3.49E-01	2.15E-04	9.06E-03	4.50E+00	1.20E-03	6.62E-03	7.49E-02	1.15E-02	2.50E-01	1.96E-03	2.64E-02	8.69E-02	3.51E-04	2.14E+00
Maximum Concentration	5.57E-01	1.04E+00	5.64E-03	3.49E-01	2.15E-04	9.06E-03	4.50E+00	1.20E-03	6.62E-03	7.49E-02	1.15E-02	2.50E-01	1.96E-03	2.64E-02	8.69E-02	3.51E-04	4.48E+00

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present	Irradium Group		Z-Butanone Group		Benzene Group						Vinyl Chloride Group					
	Selenium	Molybdenum	2-Butanone	Benzene	Ethylbenzene	Xylene	m-Xylene	p-Xylene	o-Xylene	Vinyl chloride	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	Chloroform	1,1-DCE	1,2-DCE
7200	5.24E-02	5.49E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7300	5.18E-02	5.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7400	5.12E-02	5.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7500	5.09E-02	5.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7600	5.03E-02	5.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7700	4.97E-02	5.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7800	4.91E-02	5.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7900	4.85E-02	4.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8000	4.79E-02	4.89E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8100	4.73E-02	4.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8200	4.70E-02	4.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8300	4.65E-02	4.67E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8400	4.59E-02	4.60E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8500	4.53E-02	4.53E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8600	4.47E-02	4.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8700	4.41E-02	4.39E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8800	4.38E-02	4.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8900	4.32E-02	4.27E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9000	4.29E-02	4.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9100	4.23E-02	4.13E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9200	4.17E-02	4.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9300	4.11E-02	4.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00F+00	0.00F+00	0.00E+00
9400	4.05E-02	3.94E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9500	4.02E-02	3.89E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9600	3.96E-02	3.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9700	3.94E-02	3.78E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9800	3.88E-02	3.72E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9900	3.82E-02	3.66E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10000	3.79E-02	3.60E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Maximum Concentration	7.55E-02	7.54E-02	3.75E-05	3.49E-08	1.50E-09	1.55E-09	1.48E-09	1.35E-09	1.44E-09	1.26E-04	8.86E-05	1.50E-04	2.07E-04	1.42E-04	3.44E-05	1.04E-05

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present	Trichloroethene Group			Chlorobenzene Group			2-Methylphenol Group					
	Trichloroethene	Carbon tetrachloride	Tetrachloroethene	Chlorobenzene	1,4-Dichlorobenzene	Hexachlorobenzene	2-Methylphenol	Pyridine	4-Methylphenol	3-Methylphenol	2,4-DNT	Nitrobenzene
7200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Maximum Concentration	3.82E-06	2.00E-06	3.65E-07	2.81E-09	2.92E-10	1.72E-11	7.95E-07	8.58E-05	5.14E-07	3.17E-07	2.82E-09	1.89E-08

**Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure
calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill**

Years from Present	2,4,6-Trichlorophenol	2,4,5-Trichlorophenol	Acrylonitrile	gamma-Chlordane Group					Pentachlorophenol	Naphthalene	Hexachloroethane	Acenaphthene
				gamma-Chlordane	alpha-Chlordane	Methoxychlor	Heptachlor epoxide	Toxaphene				
7200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Maximum Concentration	2.55E-09	3.80E-09	2.94E-04	4.76E-26	4.76E-26	3.83E-26	1.40E-25	6.37E-25	1.19E-06	1.61E-08	2.48E-08	1.91E-09

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present	Pentachlorophenol Group						Benzo(a)pyrene Group		PCB Group	Tc-99 Group			
	Acnaphthylene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Hexachlorobutadiene	PCB	Tc-99		U-238	U-234	U-235	
7200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-23	3.53E-03	5.22E+00	2.22E+00	
7300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-23	3.00E-03	5.22E+00	2.29E+00	
7400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-23	2.53E-03	5.19E+00	2.36E+00	
7500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-24	2.14E-03	5.19E+00	2.42E+00	
7600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-24	1.81E-03	5.15E+00	2.49E+00	
7700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-24	1.53E-03	5.15E+00	2.57E+00	
7800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-24	1.29E-03	5.12E+00	2.66E+00	
7900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-24	1.09E-03	5.12E+00	2.73E+00	
8000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-25	9.24E-04	5.09E+00	2.80E+00	
8100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-25	7.81E-04	5.09E+00	2.88E+00	
8200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-25	6.62E-04	5.09E+00	2.95E+00	
8300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-25	5.60E-04	5.05E+00	3.02E+00	
8400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-26	4.72E-04	5.05E+00	3.12E+00	
8500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-26	3.99E-04	5.02E+00	3.19E+00	
8600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-26	3.38E-04	5.02E+00	3.26E+00	
8700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-26	2.86E-04	4.98E+00	3.35E+00	
8800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-26	2.42E-04	4.98E+00	3.43E+00	
8900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-27	2.04E-04	4.95E+00	3.50E+00	
9000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-27	1.73E-04	4.95E+00	3.59E+00	
9100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-27	1.46E-04	4.92E+00	3.67E+00	
9200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-27	1.24E-04	4.92E+00	3.76E+00	
9300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-27	1.04E-04	4.88E+00	3.83E+00	
9400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-28	8.83E-05	4.88E+00	3.92E+00	
9500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-28	7.46E-05	4.85E+00	4.00E+00	
9600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-28	6.32E-05	4.83E+00	4.09E+00	
9700	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-28	5.33E-05	4.83E+00	4.16E+00	
9800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-29	4.52E-05	4.81E+00	4.25E+00	
9900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-29	3.82E-05	4.81E+00	4.33E+00	
10000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-29	3.23E-05	4.78E+00	4.42E+00	
Maximum Concentration	7.10E-09	8.77E-10	5.28E-10	1.89E-11	8.88E-11	1.41E-09	5.82E-11	0.00E+00	0.00E+00	4.75E-15	1.40E+02	5.74E+00	4.42E+00

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present	U-238 Group				
	Ra-226	Pu-238	Pu-239	Pu-240	Th-230
7200	1.17E-01	1.46E+00	1.43E+00	1.43E+00	1.11E-01
7300	1.21E-01	1.51E+00	1.48E+00	1.48E+00	1.15E-01
7400	1.25E-01	1.56E+00	1.53E+00	1.53E+00	1.18E-01
7500	1.27E-01	1.60E+00	1.56E+00	1.56E+00	1.21E-01
7600	1.31E-01	1.65E+00	1.61E+00	1.61E+00	1.25E-01
7700	1.35E-01	1.69E+00	1.66E+00	1.66E+00	1.29E-01
7800	1.40E-01	1.76E+00	1.72E+00	1.72E+00	1.33E-01
7900	1.44E-01	1.80E+00	1.76E+00	1.76E+00	1.37E-01
8000	1.48E-01	1.85E+00	1.81E+00	1.81E+00	1.40E-01
8100	1.52E-01	1.90E+00	1.86E+00	1.86E+00	1.44E-01
8200	1.55E-01	1.95E+00	1.91E+00	1.91E+00	1.48E-01
8300	1.59E-01	2.00E+00	1.95E+00	1.95E+00	1.51E-01
8400	1.64E-01	2.06E+00	2.01E+00	2.01E+00	1.56E-01
8500	1.68E-01	2.11E+00	2.06E+00	2.06E+00	1.60E-01
8600	1.72E-01	2.15E+00	2.11E+00	2.11E+00	1.63E-01
8700	1.77E-01	2.22E+00	2.17E+00	2.17E+00	1.68E-01
8800	1.81E-01	2.26E+00	2.21E+00	2.21E+00	1.72E-01
8900	1.84E-01	2.31E+00	2.26E+00	2.26E+00	1.75E-01
9000	1.89E-01	2.37E+00	2.32E+00	2.32E+00	1.80E-01
9100	1.93E-01	2.42E+00	2.37E+00	2.37E+00	1.84E-01
9200	1.98E-01	2.48E+00	2.43E+00	2.43E+00	1.88E-01
9300	2.02E-01	2.53E+00	2.48E+00	2.48E+00	1.92E-01
9400	2.07E-01	2.59E+00	2.53E+00	2.53E+00	1.96E-01
9500	2.10E-01	2.64E+00	2.58E+00	2.58E+00	2.00E-01
9600	2.15E-01	2.70E+00	2.64E+00	2.64E+00	2.05E-01
9700	2.19E-01	2.75E+00	2.69E+00	2.69E+00	2.08E-01
9800	2.24E-01	2.81E+00	2.75E+00	2.75E+00	2.13E-01
9900	2.28E-01	2.86E+00	2.80E+00	2.80E+00	2.17E-01
10000	2.33E-01	2.92E+00	2.85E+00	2.85E+00	2.21E-01
Maximum Concentration	2.33E-01	2.92E+00	2.85E+00	2.85E+00	2.21E-01
					2.68E-01

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present Screening Values	Copper Group						Thallium Group								C			
	Copper	Barium	Antimony	Manganese	Mercury	Uranium	Zinc	Thallium	Cadmium	Silver	Iron	Lead	Nickel	Beryllium	Vanadium	Arsenic		
Child Resident Hazard	5.57E-02	1.04E-01	5.64E-04	3.50E-02	4.44E-04	9.06E-04	4.50E-01	1.20E-04	6.61E-04	7.50E-03	4.49E-01	0.00E+00	3.01E-02	2.64E-03	9.25E-03	4.52E-04	1.76E+00	
Adult Resident Hazard	1.34E-01	2.49E-01	1.34E-03	8.38E-02	1.07E-03	2.19E-03	1.09E+00	2.89E-04	1.54E-03	1.81E-02	1.08E+00	0.00E+00	7.25E-02	6.18E-03	2.16E-02	1.09E-03	4.02E+00	
Resident Cancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00		
Child Resident Dose	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Adult Resident Dose	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Child Recreational Hazard	4.33E+00	1.91E+00	3.12E-03	3.74E-01	8.19E-03	1.99E-01	2.34E+01	6.24E-03	1.95E-03	3.51E-01	1.75E+01	0.00E+00	2.10E+00	7.80E-03	2.73E-02	4.79E-02	2.92E+00	
Teen Recreational Hazard	6.47E+00	2.86E+00	4.66E-03	8.31E-01	1.22E-02	2.97E-01	3.50E+01	9.32E-03	2.91E-03	5.24E-01	2.62E+01	0.00E+00	3.15E+00	1.17E-02	4.08E-02	7.71E-02	4.37E+00	
Adult Recreational Hazard	2.26E+01	9.96E+00	1.63E-02	1.95E+00	4.27E-02	1.04E+00	1.22E+02	3.25E-02	1.02E-02	1.83E+00	9.14E+01	0.00E+00	1.10E+01	4.06E-02	1.42E-01	2.50E-01	1.52E+01	
Recreational Cancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-03	0.00E+00	
Maximum Hazard and Risk																		
Child Resident Hazard	1.00E+00	1.00E+00	1.00E+00	9.97E-01	4.84E-02	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	9.99E-01	2.55E-03	NA	6.50E-03	1.00E+00	9.39E-01	7.76E-02	2.54E-01
Adult Resident Hazard	4.16E-01	4.18E-01	4.21E-01	4.17E-01	2.01E-02	4.14E-01	4.13E-01	4.15E-01	4.30E-01	4.14E-01	1.06E-03	NA	2.70E-03	4.28E-01	4.02E-01	3.22E-02	1.11E-01	
Resident Cancer	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.00E-05	NA	
Child Resident Dose	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Adult Resident Dose	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Child Recreational Hazard	1.29E-02	5.45E-02	1.81E-01	9.33E-02	2.62E-03	4.55E-03	1.92E-02	1.92E-02	3.40E-01	2.13E-02	6.56E-05	NA	9.32E-05	3.39E-01	3.18E-01	7.32E-04	1.53E-01	
Teen Recreational Hazard	8.61E-03	3.64E-02	1.21E-01	4.20E-02	1.76E-03	3.05E-03	1.29E-02	1.29E-02	2.28E-01	1.43E-02	4.38E-05	NA	6.21E-05	2.26E-01	2.13E-01	4.55E-04	1.02E-01	
Adult Recreational Hazard	2.47E-03	1.05E-02	3.46E-02	1.79E-02	5.03E-04	8.71E-04	3.69E-03	3.69E-03	6.49E-02	4.09E-03	1.26E-05	NA	1.78E-05	6.51E-02	6.12E-02	1.40E-04	2.95E-02	
Recreational Cancer	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.57E-08	NA	

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present Screening Values	Irronium Group		2-Butanone Group		Benzene Group					Vinyl Chloride Group						
	Selenium	Molybdenum	2-Butanone	Benzene	Ethylbenzene	Xylene	m-Xylene	p-Xylene	o-Xylene	Vinyl chloride	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	Chloroform	1,1-DCE	1,2-DCE
Child Resident Hazard	7.54E-03	7.53E-03	8.68E-02	5.04E-04	5.63E-02	6.53E-02	4.39E-01	4.39E-01	4.39E-01	3.06E-03	2.73E-03	5.48E-03	4.65E-04	2.87E-05	2.46E-03	2.47E-03
Adult Resident Hazard	1.82E-02	1.82E-02	3.82E-01	2.18E-03	1.89E-01	3.07E-01	1.80E+00	1.80E+00	1.80E+00	8.76E-03	1.11E-02	2.24E-02	2.22E-03	1.38E-04	1.00E-02	1.01E-02
Resident Cancer	0.00E+00	0.00E+00	0.00E+00	3.85E-04	4.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	1.47E-04	2.17E-04	4.70E-05	0.00E+00
Child Resident Dose	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Adult Resident Dose	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Child Recreational Hazard	8.58E-01	7.41E-01	1.70E+02	5.40E-02	5.11E-01	7.55E+00	7.80E+00	7.80E+00	7.80E+00	1.60E-01	3.90E-01	7.09E+00	2.21E+00	8.76E-02	3.94E-01	2.55E+00
Teen Recreational Hazard	1.28E+00	1.11E+00	2.54E+02	8.07E-02	7.64E-01	1.13E+01	1.17E+01	1.17E+01	1.17E+01	2.39E-01	5.83E-01	1.06E+01	3.30E+00	1.31E-01	5.89E-01	3.81E+00
Adult Recreational Hazard	4.47E+00	3.86E+00	8.87E+02	2.82E-01	2.66E+00	3.94E+01	4.06E+01	4.06E+01	4.06E+01	8.35E-01	2.03E+00	3.69E+01	1.15E+01	4.57E-01	2.05E+00	1.32E+01
Recreational Cancer	0.00E+00	0.00E+00	0.00E+00	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	3.10E-02	5.51E-02	2.80E-03	0.00E+00
Maximum Hazard and Risk																
Child Resident Hazard	1.00E+00	1.00E+00	4.32E-05	6.93E-06	2.67E-09	2.37E-09	3.37E-10	3.07E-10	3.28E-10	4.12E-03	3.24E-03	2.75E-03	4.44E-02	4.95E-01	1.40E-03	4.21E-04
Adult Resident Hazard	4.15E-01	4.14E-01	9.82E-06	1.60E-06	7.94E-10	5.05E-10	8.21E-11	7.49E-11	8.00E-11	1.44E-03	7.98E-04	6.72E-04	9.31E-03	1.03E-01	3.44E-04	1.03E-04
Resident Cancer	NA	NA	NA	9.07E-11	3.21E-13	NA	NA	NA	NA	3.61E-06	NA	NA	1.41E-06	6.55E-07	7.32E-07	NA
Child Resident Dose	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Adult Resident Dose	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Child Recreational Hazard	8.79E-03	1.02E-02	2.21E-08	6.47E-08	2.94E-10	2.05E-11	1.90E-11	1.73E-11	1.85E-11	7.89E-05	2.27E-05	2.12E-06	9.35E-06	1.62E-04	8.73E-06	4.08E-07
Teen Recreational Hazard	5.89E-03	6.79E-03	1.48E-08	4.33E-08	1.97E-10	1.37E-11	1.20E-11	1.15E-11	1.23E-11	5.28E-05	1.52E-05	1.42E-06	6.26E-06	1.08E-04	5.84E-06	2.73E-07
Adult Recreational Hazard	1.69E-03	1.95E-03	4.23E-09	1.24E-08	5.64E-11	3.93E-12	3.64E-12	3.32E-12	3.55E-12	1.51E-05	4.36E-06	4.08E-07	1.80E-06	3.11E-05	1.68E-06	7.81E-08
Recreational Cancer	NA	NA	NA	2.77E-12	NA	NA	NA	NA	NA	8.64E-08	NA	NA	6.67E-09	2.58E-09	1.23E-08	NA

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present Screening Values	Trichloroethene Group			Chlorobenzene Group			2-Methylphenol Group					
	Trichloroethene	Carbon tetrachloride	Tetrachloroethene	Chlorobenzene	1,4-Dichlorobenzene	Hexachlorobenzene	2-Methylphenol	Pyridine	4-Methylphenol	3-Methylphenol	2,4-DNT	Nitrobenzene
Child Resident Hazard	1.60E-03	1.90E-04	8.42E-03	4.66E-03	8.10E-03	7.54E-04	7.23E-02	1.49E-03	7.27E-03	7.25E-02	3.00E-03	1.53E-04
Adult Resident Hazard	6.34E-03	7.69E-04	2.02E-02	1.88E-02	3.24E-02	1.66E-03	7.72E-01	3.58E-03	1.74E-02	1.73E-01	7.24E-03	6.12E-04
Resident Cancer	1.73E-03	1.81E-04	5.82E-04	0.00E+00	5.78E-04	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-05	0.00E+00
Child Resident Dose	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Adult Resident Dose	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Child Recreational Hazard	2.19E-02	8.06E-03	1.05E-02	5.89E-02	1.70E-01	7.42E-04	6.09E-01	3.68E-02	7.04E-02	6.50E-01	1.74E-01	2.74E-02
Teen Recreational Hazard	3.28E-02	1.21E-02	1.57E-02	8.81E-02	2.54E-01	1.11E-03	9.10E-01	5.50E-02	1.05E-01	9.71E-01	2.61E-01	4.10E-02
Adult Recreational Hazard	1.14E-01	4.20E-02	5.49E-02	3.07E-01	8.85E-01	3.87E-03	3.18E+00	1.92E-01	3.67E-01	3.39E+00	9.09E-01	1.43E-01
Recreational Cancer	1.27E-02	3.40E-03	7.77E-04	0.00E+00	9.04E-03	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-03	0.00E+00
Maximum Hazard and Risk												
Child Resident Hazard	2.39E-04	1.05E-03	4.33E-06	6.03E-08	3.61E-09	2.28E-09	1.10E-06	5.76E-03	7.07E-06	4.37E-07	9.39E-08	1.24E-05
Adult Resident Hazard	6.03E-05	2.60E-04	1.81E-06	1.50E-08	9.01E-10	1.04E-09	1.03E-07	2.40E-03	2.95E-06	1.83E-07	3.89E-08	3.09E-06
Resident Cancer	2.21E-09	1.10E-08	6.27E-10	NA	5.05E-13	8.97E-13	NA	NA	NA	NA	3.66E-11	NA
Child Resident Dose	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Adult Resident Dose	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Child Recreational Hazard	1.74E-05	2.48E-05	3.47E-06	4.77E-09	1.72E-10	2.32E-09	1.30E-07	2.33E-04	7.30E-07	4.88E-08	1.62E-09	6.90E-08
Teen Recreational Hazard	1.16E-05	1.65E-05	2.32E-06	3.19E-09	1.15E-10	1.55E-09	8.73E-08	1.56E-04	4.89E-07	3.26E-08	1.08E-09	4.61E-08
Adult Recreational Hazard	3.35E-06	4.76E-06	6.64E-07	9.16E-10	3.30E-11	4.45E-10	2.50E-08	4.47E-05	1.40E-07	9.35E-09	3.10E-10	1.32E-08
Recreational Cancer	3.01E-10	5.88E-10	4.69E-10	NA	3.23E-14	7.73E-13	NA	NA	NA	NA	5.73E-13	NA

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present Screening Values	2,4,6-Trichlorophenol	2,4,5-Trichlorophenol	Acrylonitrile	gamma-Chlordane Group					Pentachlorophenol	Naphthalene	Hexachloroethane	Acenaphthene
				gamma-Chlordane	alpha-Chlordane	Methoxychlor	Heptachlor epoxide	Toxaphene				
Child Resident Hazard	0.00E+00	1.29E-01	1.70E-04	6.58E-04	6.58E-04	7.15E-03	1.77E-05	0.00E+00	2.34E-02	2.85E-04	1.35E-03	1.36E-02
Adult Resident Hazard	0.00E+00	3.01E-01	7.39E-04	1.54E-03	1.54E-03	1.70E-02	4.17E-05	0.00E+00	5.02E-02	1.36E-03	3.17E-03	4.63E-02
Resident Cancer	3.99E-03	0.00E+00	4.26E-05	1.28E-04	1.28E-04	0.00E+00	5.12E-06	4.56E-05	2.08E-04	0.00E+00	3.29E-03	0.00E+00
Child Resident Dose	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Adult Resident Dose	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Child Recreational Hazard	0.00E+00	3.30E-01	2.23E-01	1.87E-03	1.87E-03	4.87E-02	6.63E-05	0.00E+00	1.80E-02	9.04E-02	4.64E-03	2.90E-02
Teen Recreational Hazard	0.00E+00	4.94E-01	3.33E-01	2.80E-03	2.80E-03	7.28E-02	9.92E-05	0.00E+00	2.69E-02	1.35E-01	6.94E-03	4.34E-02
Adult Recreational Hazard	0.00E+00	1.72E+00	1.16E+00	9.77E-03	9.77E-03	2.54E-01	3.46E-04	0.00E+00	9.38E-02	4.71E-01	2.42E-02	1.51E-01
Recreational Cancer	1.15E-02	0.00E+00	1.58E-02	4.11E-04	4.11E-04	0.00E+00	2.15E-05	4.53E-04	1.92E-04	0.00E+00	1.27E-02	0.00E+00
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Maximum Hazard and Risk												
Child Resident Hazard	NA	2.95E-09	1.73E-01	7.23E-24	7.23E-24	5.35E-25	7.93E-22	NA	5.08E-06	5.65E-06	1.84E-06	1.40E-08
Adult Resident Hazard	NA	1.26E-09	3.98E-02	3.09E-24	3.09E-24	2.25E-25	3.36E-22	NA	2.37E-06	1.18E-06	7.83E-07	4.12E-09
Resident Cancer	6.40E-13	NA	6.90E-06	3.72E-28	3.72E-28	NA	2.74E-26	1.40E-26	5.72E-09	NA	7.55E-12	NA
Child Resident Dose	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Adult Resident Dose	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Child Recreational Hazard	NA	1.15E-09	1.32E-04	2.54E-24	2.54E-24	7.86E-26	2.12E-22	NA	6.61E-06	1.78E-08	5.35E-07	6.58E-09
Teen Recreational Hazard	NA	7.69E-10	8.82E-05	1.70E-24	1.70E-24	5.26E-26	1.41E-22	NA	4.42E-06	1.19E-08	3.58E-07	4.40E-09
Adult Recreational Hazard	NA	2.21E-10	2.53E-05	4.87E-25	4.87E-25	1.51E-26	4.05E-23	NA	1.27E-06	3.42E-09	1.03E-07	1.26E-09
Recreational Cancer	2.22E-13	NA	1.86E-08	1.16E-28	1.16E-28	NA	6.52E-27	1.41E-27	6.19E-09	NA	1.95E-12	NA

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

Years from Present Screening Values	Pentachlorophenol Group						Benzo(a)pyrene Group		PCB Group		Tc-99 Group		U-238	U-234	U-235
	Acenaphthylene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Hexachlorobutadiene	Pyrene	Benzo(a)pyrene	Dioxin/Furan	PCB	Tc-99	Np-237			
Child Resident Hazard	1.36E-02	9.72E-03	2.26E-02	7.66E-02	2.26E-02	2.25E-04	1.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Adult Resident Hazard	4.63E-02	3.51E-02	4.70E-02	2.90E-01	4.70E-02	5.08E-04	3.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Resident Cancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-04	0.00E+00	9.51E-07	6.09E-11	7.93E-05	1.40E+01	5.73E-01	4.43E-01	5.46E-01	5.38E-01
Child Resident Dose	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E+03	6.44E-01	1.06E+01	1.01E+01	1.07E+01
Adult Resident Dose	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E+02	3.22E-01	5.31E+00	5.05E+00	5.35E+00
Child Recreational Hazard	2.90E-02	3.12E-02	1.34E-02	4.04E-01	1.34E-02	3.25E-04	1.13E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Teen Recreational Hazard	4.34E-02	4.66E-02	2.01E-02	6.04E-01	2.01E-02	4.86E-04	1.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Adult Recreational Hazard	1.51E-01	1.63E-01	7.00E-02	2.11E+00	7.00E-02	1.69E-03	5.91E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational Cancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04	0.00E+00	5.29E-07	3.56E-11	9.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Maximum Hazard and Risk															
Child Resident Hazard	5.22E-08	9.03E-09	2.33E-09	2.47E-11	3.93E-10	6.28E-07	3.20E-10	NA	NA	NA	NA	NA	NA	NA	NA
Adult Resident Hazard	1.53E-08	2.50E-09	1.12E-09	6.53E-12	1.89E-10	2.78E-07	1.53E-10	NA	NA	NA	NA	NA	NA	NA	NA
Resident Cancer	NA	NA	NA	NA	NA	2.95E-12	NA	0.00E+00	0.00E+00	6.00E-17	1.00E-05	1.00E-05	9.97E-06	9.97E-06	9.98E-06
Child Resident Dose	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.16E-02	8.91E+00	4.17E-01	5.39E-01	5.02E-01
Adult Resident Dose	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.43E-01	1.78E+01	8.32E-01	1.08E+00	1.00E+00
Child Recreational Hazard	2.45E-08	2.81E-09	3.94E-09	4.68E-12	6.63E-10	4.35E-07	5.15E-10	NA	NA	NA	NA	NA	NA	NA	NA
Teen Recreational Hazard	1.64E-08	1.88E-09	2.63E-09	3.13E-12	4.42E-10	2.91E-07	3.45E-10	NA	NA	NA	NA	NA	NA	NA	NA
Adult Recreational Hazard	4.70E-09	5.38E-10	7.54E-10	8.97E-13	1.27E-10	8.36E-08	9.86E-11	NA	NA	NA	NA	NA	NA	NA	NA
Recreational Cancer	NA	NA	NA	NA	NA	1.77E-12	NA	0.00E+00	0.00E+00	4.95E-17	NA	NA	NA	NA	NA

Table C.1.6. Groundwater concentrations in the RGA for the DOE property boundary point of exposure calculated using CERCLA-derived waste disposal criteria as the source term for the C-746-U Landfill

U-238 Group						
Years from Present Screening Values	Ra-226	Pu-238	Pu-239	Pu-240	Th-230	Th-232
Child Resident Hazard	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Adult Resident Hazard	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Resident Cancer	2.33E-02	2.95E-01	2.86E-01	2.86E-01	2.21E-02	2.68E-02
Child Resident Dose	3.32E-01	8.93E-01	8.07E-01	8.07E-01	3.27E-01	5.74E-01
Adult Resident Dose	1.66E-01	4.46E-01	4.04E-01	4.04E-01	1.60E-01	2.87E-01
Child Recreational Hazard	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Teen Recreational Hazard	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Adult Recreational Hazard	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational Cancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Maximum Hazard and Risk						
Child Resident Hazard	NA	NA	NA	NA	NA	NA
Adult Resident Hazard	NA	NA	NA	NA	NA	NA
Resident Cancer	9.99E-06	9.89E-06	9.98E-06	9.98E-06	1.00E-05	1.00E-05
Child Resident Dose	7.01E-01	3.27E+00	3.54E+00	3.54E+00	6.77E-01	4.67E-01
Adult Resident Dose	1.40E+00	6.54E+00	7.07E+00	7.07E+00	1.38E+00	9.34E-01
Child Recreational Hazard	NA	NA	NA	NA	NA	NA
Teen Recreational Hazard	NA	NA	NA	NA	NA	NA
Adult Recreational Hazard	NA	NA	NA	NA	NA	NA
Recreational Cancer	NA	NA	NA	NA	NA	NA