

**Table 7-6. Risks Due to External Radiation and Radon for Residential and Non-Residential Scenarios**

				Cancer Risk									
				Residential Scenarios			Nonresidential Scenarios						
							Subsistence Visitor <sup>a</sup>			Recreational Visitor <sup>a</sup>			
Chemical	Units	Background 95% UTL	Background EPC, 95% UCL	Total Risk	Background Risk	Excess Risk <sup>b</sup>	Total Risk	Background Risk <sup>b</sup>	Excess Risk	Total Risk	Background Risk	Excess Risk <sup>b</sup>	
<b>Mined Area</b>													
External Radiation	pCi/g	4.7	2.3	$3.4 \times 10^{-2}$	$9.5 \times 10^{-4}$	$3.3 \times 10^{-2}$	$1.2 \times 10^{-2}$	$3.2 \times 10^{-4}$	$1.2 \times 10^{-2}$	$6.4 \times 10^{-4}$	$1.8 \times 10^{-5}$	$6.2 \times 10^{-4}$	
<b>Mining Affected Area</b>													
External Radiation	pCi/g	4.7	2.3	$1.3 \times 10^{-2}$	$9.5 \times 10^{-4}$	$1.2 \times 10^{-2}$	$4.5 \times 10^{-3}$	$3.2 \times 10^{-4}$	$4.2 \times 10^{-3}$	NA	NA	NA	
<b>Mined Area and Mining Affected Area Combined</b>													
Radon (outdoor)	pCi/L	2.0	1.1	$6.3 \times 10^{-3}$	$7.8 \times 10^{-4}$	$5.5 \times 10^{-3}$	$3.0 \times 10^{-3}$	$3.7 \times 10^{-4}$	$2.6 \times 10^{-3}$	$1.7 \times 10^{-4}$	$2.1 \times 10^{-5}$	$1.5 \times 10^{-4}$	
Radon (indoor)	pCi/L	NE	2.9	$2.2 \times 10^{-1}$	$5.3 \times 10^{-3}$	$2.1 \times 10^{-1}$	NA	NA	NA	NA	NA	NA	

Notes: EPC = Exposure Point Concentration  
 NA = Not Applicable  
 NE = Not Established  
 pCi/g = pico curies per gram  
 pCi/L = pico curies per liter  
 UCL = Upper Confidence Limit of the Mean  
 UTL = Upper Tolerance Limit (Background Threshold)

<sup>a</sup> Subsistence visitor assumes 2,000 hours/year (50 weeks at 40 hours/week, a typical worker scenario) outdoors in either the mined area or mining affected area; Recreational Visitor assumes 112 hours/year in the mined area.

<sup>b</sup> Excess risks are equal to total risks minus the risk present at background (pre-mining) levels of COPCs.