

Table 4-29. Total Nonradiological Carcinogenic Risks for Dedication Strategy, Groundwater/Surface-Water Pathway in Each Geographic Grouping

Worst-case site	Total Risks ^a , 2085 Exposures ^b				Maximum risk ^a for dominant carcinogenic chemical (year of peak exposure)			
	1-meter well	100-meter well	River outfall	Reclaimed farm	1-meter well	100-meter well	River outfall	Dominant chemical
M-Area settling basin	1.7×10^{-3}	1.2×10^{-2}	0	NS ^c	1.3×10^{-1} (d) (2024)	1.3×10^{-1} (d) (2033)	6.0×10^{-8} (2231)	Tetrachloroethylene
F-Area burning/rubble pit ^e	NS	NS	NS	NS	1.7×10^{-4} (1978)	1.6×10^{-4} (1983)	NS	Trichloroethylene
R-Area burning/rubble pit ^e	NS	NS	NS	0	1.7×10^{-4} (1978)	1.6×10^{-4} (1983)	NS	Trichloroethylene
C-Area burning/rubble pit	NS	NS	NS	0	1.7×10^{-4} (1978)	1.6×10^{-4} (1983)	NS	Trichloroethylene
D-Area oil basin	NS	4.8×10^{-8}	NS	0	1.7×10^{-4} (e) (1978)	1.6×10^{-4} (e) (1983)	NS	Trichloroethylene
Road A chemical basin	0	0	0	0	0	0	0	
K-Area burning/rubble pit ^e	NS	NS	NS	0	1.7×10^{-4} (1978)	1.6×10^{-4} (1983)	NS	Trichloroethylene
CMP pits	1.1×10^{-7}	1.2×10^{-6}	NS	0	1.0×10^{-2} (1997)	6.0×10^{-3} (2000)	NS	Tetrachloroethylene
P-Area burning/rubble pit ^e	NS	NS	NS	0	1.7×10^{-4} (1978)	1.6×10^{-4} (1983)	NS	Trichloroethylene

^aRisk = incremental lifetime probability of death from cancer.

^b50-year exposure period following 2085.

^cNS = Not significant; risk is less than 1.0×10^{-8} .

^dValues reported are for miscellaneous chemical basin.

^eValues reported are for C-Area burning/rubble pit.

Table 4-30. Total Noncarcinogenic Risks for Dedication Strategy, Groundwater/Surface-Water Pathway in Each Geographic Grouping

Worst-case Site	Hazard index, 2085 exposures				Maximum risk for dominant noncarcinogenic chemical hazard index (year of peak exposure)			
	1-meter well	100-meter well	River outfall	Reclaimed farm	1-meter well	100-meter well	River outfall	Reclaimed farm
M-Area settling basin	2.9×10^{-1}	2.1×10^0	0	NS ^a	2.1×10^2 (2052) Nitrate	2.1×10^2 (2052) Nitrate	NS	NS
Mixed waste management facility and old radioactive waste burial grounds	1.1×10^0	5.5×10^0	NS	NS	6.9×10^1 ^(b) (1987) Nitrate	6.9×10^1 ^(b) (1987) Nitrate	NS	2.1×10^{-2} ^(c) (2085) Mercury
R-Area burning/rubble pit ^d	NS	NS	NS	2.1×10^{-2} ^(c)	2.9×10^0 ^(c) (1971) Sulfate	2.9×10^0 ^(c) (1971) Sulfate	NS	2.1×10^{-2} ^(c) (2085) Mercury
Ford building seepage basin	NS	NS	NS	NS	4.5×10^0 ^(e) (1975) Fluoride	9.5×10^{-1} ^(e) (1977)	NS	NS
New TNX seepage basin	4.4×10^{-1}	1.2×10^{-2}	NS	1.8×10^0 ^(g)	1.4×10^2 ^(g) (1983) Nitrate	1.4×10^2 ^(g) (1986) Nitrate	NS	1.8×10^0 ^(g) (2085) Mercury
Road A chemical basin	NS	NS	NS	NS	5.4×10^{-1} (1975) Lead	4.1×10^{-1} (1980) Lead	NS	NS
K-Area burning/rubble pit ^d	NS	NS	NS	2.1×10^{-2} ^(c)	2.9×10^0 ^(c) (1971) Sulfate	2.9×10^0 ^(c) (1971) Sulfate	NS	2.1×10^{-2} ^(c) (2085) Mercury
L-Area oil & chemical basin	3.8×10^{-1}	2.0×10^{-1}	NS	NS	4.8×10^0 ^(f) (2012) Silvex	2.7×10^0 ^(f) (2016) Silvex	NS	2.1×10^{-2} ^(c) (2085) Mercury
P-Area burning/rubble pit ^d	NS	NS	NS	2.1×10^{-2} ^(c)	2.9×10^0 ^(c) (1971) Sulfate	2.9×10^0 ^(c) (1971) Sulfate	NS	2.1×10^{-2} ^(c) (2085) Mercury

^aNS = Not significant; hazard index is less than 10^{-2} .^bValues reported are for the F-Area seepage basin.^cValues reported are for L-Area acid/caustic basin.^dValues reported are for the C-Area burning/rubble pit.^eValues reported are for the hydrofluoric acid spill area.^fValues reported are for the CMP pits.^gValues reported are for the Old TNX seepage basin.

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