Table 4-14. Total Noncarcinogenic Risks for No-Action, 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	5.2×10^{-3}	4.0×10^{-2}	0	2.3×10^{-1}	6.2×10^{2} (1991) Nitrate	6.2×10^{2} (1990) Nitrate	NS[a]	2.2×10^{-1} (2085) Mercury
Mixed waste management facility and old radioactive waste burial grounds	7.5×10^{-1}	4.6	NS	1.4	6.9×10^{1}[b] (1987) Nitrate	6.9×10^{1}[b] (1987) Nitrate	NS	9.5[b] (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	1.2×10^{-2}	4.5[e] (1975) Fluoride	9.5×10^{-1}[e] (1977)	NS	1.2×10^{-2} (2085) Mercury
New TNX seepage basin	2.4×10^{-1}	3.4×10^{-3}	NS	1.8×10^{0}[g]	2.5×10^{2} (1987) Nitrate	1.4×10^{2}[g] (1986) Nitrate	NS	1.8×10^{0} (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	2.2	2.1×10^{-1}	NS	2.0×10^{-2}	4.8×10^{0}[f] (2012) Silvex	2.7×10^{0}[f] (2016) Silvex	NS	2.0×10^{-2} (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

[a]NS = Not significant; hazard index is less than 1.0×10^{-2}.
[b]Values reported are for the F-Area seepage basins.
[c]Values are for L-Area acid/caustic basin.
[d]Values are for C-Area burning/rubble pit.
[e]Values reported are for the hydrofluoric acid spill area.
[f]Values reported are for the CMP pits.
[g]Values reported are for the Old TNX Seepage Basin.
[h]Values reported are for the H-Area seepage basins.

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Table 4-15. Total Nonradiological Carcinogenic Risks for No Action, Groundwater/Surface-Water Pathway in Each Geographic Grouping

Worst-case site	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	4.9×10^{-5}	3.8×10^{-4}	0	3.8×10^{-8}	1.6×10^{-1} (2021)	1.6×10^{-1} (2020)	7.0×10^{-8} (2199)	Tetrachloroethylene
F-Area burning/rubble pit[c]	NS[d]	NS	NS	0	1.7×10^{-4} (1978)	1.6×10^{-4} (1983)	NS	Trichloroethylene
R-Area burning/rubble pit[c]	NS	NS	NS	0	1.7×10^{-4} (1978)	1.6×10^{-4} (1983)	NS	Trichloroethylene[c]
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}[c] (1978)	1.6×10^{-4}[c] (1978)	NS	Trichloroethylene
Road A chemical basin	0	0	0	0	0	0	0	
K-Area burning/rubble pit[c]	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[c]	NS	NS	NS	0	1.7×10^{-4} (1978)	1.6×10^{-4} (1983)	NS	Trichloroethylene

[a]Risk = incremental lifetime probability of death from cancer.
[b]50-year exposure period following 2085.
[c]Values reported are for C-Area burning/rubble pit.
[d]NS = Not significant; risk is less than 1.0×10^{-8}

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