

Table 4-39. Total Nonradiological Carcinogenic Risks for Elimination Strategy, Groundwater/Surface-Water Pathway in Each Geographic Grouping

Worst-case site	Total risks, <sup>a</sup> 2085 exposures <sup>b</sup>				Maximum risk <sup>a</sup> 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	$4.5 \times 10^{-5}$	$3.5 \times 10^{-4}$	0	NS <sup>c</sup>	$2.9 \times 10^{-1}$ (d) (1990)	$2.9 \times 10^{-1}$ (d) (1999)	$6.9 \times 10^{-8}$ (2199)	Tetrachloroethylene
F-Area burning/rubble pit <sup>c</sup>	NS	NS	NS	0	$1.7 \times 10^{-4}$ (1978)	$1.6 \times 10^{-4}$ (1983)	NS	Trichloroethylene
R-Area <sup>d</sup> burning/rubble pit <sup>d</sup>	NS	NS	NS	0	$1.7 \times 10^{-4}$ (1978)	$1.6 \times 10^{-4}$ (1983)	NS	Trichloroethylene
C-Area burning/rubble pit	NS	NS	NS	0	$1.7 \times 10^{-4}$ (1978)	$1.6 \times 10^{-4}$ (1983)	NS	Trichloroethylene
D-Area oil basin	NS	$4.8 \times 10^{-8}$	NS	0	$1.7 \times 10^{-4}$ (e) (1978)	$1.6 \times 10^{-4}$ (e) (1983)	NS	Trichloroethylene
Road A chemical basin	0	0	0	0	0	0	0	
K-Area <sup>d</sup> burning/rubble pit <sup>d</sup>	NS	NS	NS	0	$1.7 \times 10^{-4}$ (1978)	$1.6 \times 10^{-4}$ (1983)	NS	Trichloroethylene
CMP pits	$1.1 \times 10^{-7}$	$1.2 \times 10^{-6}$	NS	NS	$1.0 \times 10^{-2}$ (1997)	$6.0 \times 10^{-3}$ (2000)	NS	Tetrachloroethylene
P-Area burning rubble pite	NS	NS	NS	0	$1.7 \times 10^{-4}$ (1978)	$1.6 \times 10^{-4}$ (1983)	NS	Trichloroethylene

<sup>a</sup>Risk = Incremental lifetime probability of death from cancer.

<sup>b</sup>50-year exposure period following 2085.

<sup>c</sup>NS = Not significant; risk is less than  $1.0 \times 10^{-8}$ .

<sup>d</sup>Values reported are for the Miscellaneous Chemical Basin.

<sup>e</sup>Values reported are for C-Area burning/rubble pit.

Table 4-40. Total Noncarcinogenic Risks for Elimination Strategy, Groundwater/Surface-Water Pathway in Each Geographic Grouping

Worst-case site	Hazard index, 2085 exposures				Maximum risk for dominant noncarcinogenic chemical, hazards 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	$6.3 \times 10^{-3}$	$5.0 \times 10^{-2}$	0	NS <sup>a</sup>	$5.4 \times 10^2$ (1995) Nitrate	$5.4 \times 10^2$ (1994) Nitrate	NS	NS
Mixed waste management facility and old radioactive waste burial grounds	$9.8 \times 10^{-1}$	$5.3 \times 10^0$	NS	NS	$6.4 \times 10^1$ <sup>(b)</sup> (1987) Nitrate	$6.9 \times 10^1$ <sup>(b)</sup> (1987) Nitrate	NS	NS
R-Area burning/rubble pit <sup>d</sup>	NS	NS	NS	NS	$2.9 \times 10^0$ <sup>(c)</sup> (1971) Sulfate	$2.9 \times 10^0$ <sup>(c)</sup> (1971) Sulfate	NS	NS
Ford building seepage basin	NS	NS	NS	NS	$4.5 \times 10^0$ <sup>(e)</sup> (1975) Fluoride	$9.5 \times 10^{-1}$ <sup>(e)</sup> (1977)	NS	NS
New TNX seepage basin	NS	$1.2 \times 10^{-2}$	NS	$1.8 \times 10^0$ <sup>(g)</sup>	$1.4 \times 10^2$ <sup>(g)</sup> (1983) Nitrate	$1.4 \times 10^2$ <sup>(g)</sup> (1986) Nitrate	NS	$1.8 \times 10^0$ <sup>(g)</sup> (2085) Mercury
Road A chemical basin	NS	NS	NS	NS	$5.4 \times 10^{-1}$ (1975) Lead	$4.1 \times 10^{-1}$ (1980) Lead	NS	NS
K-Area burning/rubble pit <sup>d</sup>	NS	NS	NS	NS	$2.9 \times 10^0$ <sup>(c)</sup> (1971) Sulfate	$2.9 \times 10^0$ <sup>(c)</sup> (1971) Sulfate	NS	NS
L-Area oil and chemical basin	$2.8 \times 10^{-1}$	$2.0 \times 10^{-1}$	NS	NS	$4.8 \times 10^0$ <sup>(f)</sup> (2012) Silvex	$2.7 \times 10^0$ <sup>(f)</sup> (2016) Silvex	NS	NS
P-Area burning/rubble pit <sup>d</sup>	NS	NS	NS	0	$2.9 \times 10^0$ <sup>(c)</sup> (1971) Sulfate	$2.9 \times 10^0$ <sup>(c)</sup> (1971) Sulfate	NS	NS

<sup>a</sup>NS = Not significant; hazard index is less than  $1.0 \times 10^{-2}$ .

<sup>b</sup>Values reported are for the F-Area seepage basins.

<sup>c</sup>Values reported are for L-Area acid/caustic basin.

<sup>d</sup>Values reported are for the C-Area burning/rubble pit.

<sup>e</sup>Values reported are for the hydrofluoric acid spill area.

<sup>f</sup>Values reported are for the CMP pits.

<sup>g</sup>Values reported are for the Old TNX seepage basin.

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