

US EPA ARCHIVE DOCUMENT

Table RT7. Chemical-specific Risks and Hazards by Receptor Types for Surface Impoundments (unitless)  
Human Receptors - 1000 meters; Ecological Receptors - 2000 meters

Chemical Name	CASRN	Protection Group 1							
		Beef/Dairy Farmer		Gardener		Fisher		Resident	
		Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ
Acetonitrile	75-05-8	note 2	< 1E-01,(inh)	note 2	= 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)
Acrylonitrile	107-13-1	= 1E-05,(ing)	= 1E+00,(ing)	= 1E-06,(ing)	< 1E-01,(inh)	= 9E-07,(ing)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)
Aniline	62-53-3	= 2E-05,(ing)	< 1E-01,(inh)	= 6E-07,(ing)	< 1E-01,(inh)	= 6E-07,(ing)	= 9E-02,(inh)	= 1E-08,(ing)	= 9E-02,(inh)
Arsenic	7440-38-2	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-06,(ing)	= 2E-03,(ing)	< 1E-06,(ing)	< 1E-01,(inh)	< 1E-06,(ing)	= 2E-03,(ing)
Barium	7440-39-3	note 2	< 1E-01,(inh)	note 2	= 9E-02,(ing)	note 2	= 1E-01,(ing)	note 2	= 1E-01,(ing)
Benzene	71-43-2	= 6E-06,(cmb)	note 3	= 2E-06,(cmb)	note 3	= 3E-06,(cmb)	note 3	= 5E-07,(cmb)	note 3
Benzo(a)pyrene	50-32-8	< 1E-04,(ing)	note 3	< 1E-08,(ing)	note 3	< 1E-08,(ing)	note 3	< 1E-08,(inh)	note 3
Beryllium	7440-41-7	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(ing)	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(ing)
Bis-(2-ethylhexyl) phthalate	117-81-7	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)
Cadmium	7440-43-9	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	= 1E-01,(ing)	< 1E-08,(inh)	= 9E-02,(ing)	< 1E-08,(inh)	= 1E-01,(ing)
Carbon disulfide	75-15-0	note 2	= 5E+00,(ing)	note 2	= 1E-01,(ing)	note 2	< 1E-01,(ing)	note 2	< 1E-01,(inh)
Chlorobenzene	108-90-7	note 2	= 4E+00,(cmb)	note 2	= 9E-02,(cmb)	note 2	= 9E-02,(cmb)	note 2	= 4E-02,(cmb)
Chloroform	67-66-3	= 1E-05,(cmb)	= 2E+00,(ing)	= 1E-06,(cmb)	= 3E-02,(ing)	= 1E-06,(cmb)	= 3E-02,(ing)	= 9E-07,(cmb)	< 1E-01,(inh)
Dibenz[a,h]anthracene	53-70-3	< 5E-06,(ing)	note 3	< 1E-08,(inh)	note 3	< 1E-08,(inh)	note 3	< 1E-08,(inh)	note 3
Dichlorophenoxyacetic acid, 2,4-	94-75-7	note 2	= 8E-01,(ing)	note 2	= 8E-02,(ing)	note 2	= 8E-02,(ing)	note 2	= 8E-02,(ing)
Divalent Mercury	7439-97-6	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)
Ethylene dibromide	106-93-4	= 3E-05,(ing)	< 1E-01,(inh)	= 3E-06,(ing)	< 1E-01,(inh)	= 3E-06,(ing)	< 1E-01,(inh)	= 9E-11,(inh)	< 1E-01,(inh)
Lead	7439-92-1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1
Methyl ethyl ketone	78-93-3	note 2	= 2E+00,(cmb)	note 2	= 9E-02,(cmb)	note 2	< 1E-01,(cmb)	note 2	= 1E-02,(cmb)
Methyl methacrylate	80-62-6	note 2	= 5E+00,(ing)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)
Methylene chloride	75-09-2	< 1E-05,(cmb)	< 1E+00,(cmb)	< 1E-06,(cmb)	< 1E-01,(cmb)	= 9E-07,(cmb)	< 1E-01,(cmb)	= 8E-09,(cmb)	< 1E-01,(cmb)
Nickel [+2]	7440-02-0	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	= 9E-02,(ing)	< 1E-08,(inh)	= 8E-02,(ing)	< 1E-08,(inh)	= 8E-02,(ing)
Nitrobenzene	98-95-3	note 2	Invalid Curve	note 2	= 9E-02,(cmb)	note 2	= 8E-02,(cmb)	note 2	= 1E-02,(cmb)
Pentachlorophenol	87-86-5	= 1E-06,(ing)	= 1E-01,(ing)	= 9E-07,(ing)	< 1E-01,(inh)	= 9E-07,(ing)	< 1E-01,(inh)	= 9E-07,(ing)	< 1E-01,(inh)
Phenol	108-95-2	note 2	= 1E-01,(ing)	note 2	< 1E-01,(ing)	note 2	= 1E-01,(ing)	note 2	= 8E-02,(ing)
Pyridine	110-86-1	note 2	= 4E+00,(ing)	note 2	= 9E-02,(ing)	note 2	= 9E-02,(ing)	note 2	< 1E-01,(inh)
Silver	7440-22-4	note 2	Invalid Curve	note 2	Invalid Curve	note 2	Invalid Curve	note 2	Invalid Curve
Tetrachlorodibenzo-p-dioxin, 2,3,7	1746-01-6	= 4E-06,(cmb)	< 1E-01,(inh)	< 1E-06,(cmb)	< 1E-01,(inh)	= 9E-07,(cmb)	< 1E-01,(inh)	= 9E-07,(cmb)	< 1E-01,(inh)

Table RT7. Chemical-specific Risks and Hazards by Receptor Types for Surface Impoundments (unitless)  
Human Receptors - 1000 meters; Ecological Receptors - 2000 meters

Chemical Name	CASRN	Protection Group 1							
		Beef/Dairy Farmer		Gardener		Fisher		Resident	
		Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ
Tetrachloroethylene	127-18-4	= 1E-05,(cmb)	= 2E-01,(ing)	= 2E-06,(cmb)	= 4E-03,(ing)	= 1E-06,(cmb)	< 1E-01,(inh)	= 4E-09,(cmb)	< 1E-01,(inh)
Thallium [+1]	7446-18-6	note 2	< 1E-01,(inh)	note 2	= 1E-01,(ing)	note 2	= 1E-01,(ing)	note 2	= 1E-01,(ing)
Thiram	137-26-8	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)
Toluene	108-88-3	note 2	< 1E-01,(inh)	note 2	= 8E-02,(ing)	note 2	= 9E-02,(ing)	note 2	= 1E-02,(inh)
Trichloroethane, 1,1,1-	71-55-6	note 2	Invalid Curve	note 2	Invalid Curve	note 2	Invalid Curve	note 2	Invalid Curve
Trichloroethylene	79-01-6	= 1E-05,(ing)	note 3	= 8E-07,(ing)	note 3	= 8E-07,(ing)	note 3	= 1E-08,(inh)	note 3
Vinyl chloride	75-01-4	= 1E-05,(cmb)	note 3	= 9E-07,(cmb)	note 3	= 9E-07,(cmb)	note 3	= 9E-09,(cmb)	note 3
Zinc	7440-66-6	note 2	< 1E-01,(inh)	note 2	= 1E-01,(ing)	note 2	= 1E-01,(ing)	note 2	= 1E-01,(ing)

note 1: Human impacts were not evaluated due to the lack of human health toxicity values.

note 2: The risk was not calculated for this chemical because the chemical did not have a cancer slope factor.

note 3: The hazard was not calculated for this chemical because it did not have a noncancer reference dose or reference concentration.

NA: Not Applicable

No Curve: For this chemical, inhalation and ingestion pathways are not additive.

Invalid Curve: For this chemical and cohort, the curve could not be used to interpolate a result.

Table RT7. Chemical-specific Risks and Hazards by Receptor Types for Surface Impoundments (unitless)  
Human Receptors - 1000 meters; Ecological Receptors - 2000 meters

Chemical Name	CASRN	Protection Group 2							
		Beef/Dairy Farmer		Gardener		Fisher		Resident	
		Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ
Acetonitrile	75-05-8	note 2	= 6E-02,(inh)	note 2	< 1E+00,(inh)	note 2	= 8E-01,(inh)	note 2	= 8E-01,(inh)
Acrylonitrile	107-13-1	= 2E-05,(ing)	= 1E+00,(ing)	= 1E-06,(ing)	< 1E-01,(inh)	= 6E-07,(ing)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)
Aniline	62-53-3	= 2E-05,(ing)	< 1E-01,(inh)	= 7E-07,(ing)	= 2E-01,(inh)	= 7E-07,(ing)	= 2E-01,(inh)	< 5E-07,(ing)	= 2E-01,(inh)
Arsenic	7440-38-2	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-06,(ing)	= 2E-03,(ing)	< 1E-06,(ing)	< 1E-01,(inh)	< 1E-06,(ing)	= 2E-03,(ing)
Barium	7440-39-3	note 2	= 3E-03,(ing)	note 2	= 8E-01,(ing)	note 2	= 8E-01,(ing)	note 2	= 7E-01,(ing)
Benzene	71-43-2	= 9E-06,(cmb)	note 3	= 3E-06,(cmb)	note 3	= 2E-06,(cmb)	note 3	< 5E-07,(cmb)	note 3
Benzo(a)pyrene	50-32-8	< 1E-04,(ing)	note 3	< 1E-08,(inh)	note 3	< 1E-08,(inh)	note 3	< 1E-08,(inh)	note 3
Beryllium	7440-41-7	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)
Bis-(2-ethylhexyl) phthalate	117-81-7	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)
Cadmium	7440-43-9	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	= 1E+00,(ing)	< 1E-08,(inh)	= 1E+00,(ing)	< 1E-08,(inh)	= 1E+00,(ing)
Carbon disulfide	75-15-0	note 2	= 8E+00,(ing)	note 2	= 6E-01,(ing)	note 2	= 4E-01,(ing)	note 2	= 2E-02,(inh)
Chlorobenzene	108-90-7	note 2	= 8E+00,(cmb)	note 2	= 9E-01,(cmb)	note 2	= 9E-01,(cmb)	note 2	= 5E-01,(cmb)
Chloroform	67-66-3	= 1E-05,(cmb)	= 2E+00,(ing)	= 9E-07,(cmb)	= 2E-02,(ing)	= 9E-07,(cmb)	= 8E-03,(ing)	= 9E-07,(cmb)	< 1E-01,(inh)
Dibenz[a,h]anthracene	53-70-3	< 5E-06,(ing)	note 3	< 1E-08,(inh)	note 3	< 1E-08,(inh)	note 3	< 1E-08,(inh)	note 3
Dichlorophenoxyacetic acid, 2,4-	94-75-7	note 2	= 5E+00,(ing)	note 2	= 9E-01,(ing)	note 2	= 9E-01,(ing)	note 2	= 9E-01,(ing)
Divalent Mercury	7439-97-6	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)
Ethylene dibromide	106-93-4	= 3E-05,(ing)	< 1E-01,(inh)	= 2E-06,(ing)	< 1E-01,(inh)	= 3E-06,(ing)	< 1E-01,(inh)	= 9E-11,(inh)	< 1E-01,(inh)
Lead	7439-92-1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1
Methyl ethyl ketone	78-93-3	note 2	= 9E+00,(cmb)	note 2	= 9E-01,(cmb)	note 2	= 9E-01,(cmb)	note 2	= 6E-01,(cmb)
Methyl methacrylate	80-62-6	note 2	< 1E+01,(ing)	note 2	< 1E+00,(inh)	note 2	< 1E+00,(inh)	note 2	< 1E+00,(inh)
Methylene chloride	75-09-2	< 1E-05,(cmb)	< 1E+00,(cmb)	< 1E-06,(cmb)	< 1E-01,(cmb)	= 9E-07,(cmb)	< 1E-01,(cmb)	= 4E-09,(cmb)	< 1E-01,(cmb)
Nickel [+2]	7440-02-0	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	= 9E-01,(ing)	< 1E-08,(inh)	= 9E-01,(ing)	< 1E-08,(inh)	= 9E-01,(ing)
Nitrobenzene	98-95-3	note 2	Invalid curve	note 2	= 9E-01,(cmb)	note 2	= 9E-01,(cmb)	note 2	= 1E-01,(cmb)
Pentachlorophenol	87-86-5	= 1E-06,(ing)	= 1E-01,(ing)	= 9E-07,(ing)	< 1E-01,(inh)	= 9E-07,(ing)	< 1E-01,(inh)	= 9E-07,(ing)	< 1E-01,(inh)
Phenol	108-95-2	note 2	< 1E+01,(ing)	note 2	< 1E+00,(ing)	note 2	< 1E+00,(ing)	note 2	< 1E+00,(ing)
Pyridine	110-86-1	note 2	= 7E+00,(ing)	note 2	= 7E-01,(ing)	note 2	= 7E-01,(ing)	note 2	= 7E-02,(ing)
Silver	7440-22-4	note 2	< 1E-01,(inh)	note 2	< 1E+00,(ing)	note 2	< 1E+00,(ing)	note 2	= 1E+00,(ing)
Tetrachlorodibenzo-p-dioxin, 2,3,7	1746-01-6	= 6E-06,(cmb)	< 1E-01,(inh)	< 1E-06,(cmb)	< 1E-01,(inh)	< 1E-06,(cmb)	< 1E-01,(inh)	= 1E-06,(cmb)	< 1E-01,(inh)

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Chemical Name	CASRN	Protection Group 2							
		Beef/Dairy Farmer		Gardener		Fisher		Resident	
		Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ
Tetrachloroethylene	127-18-4	= 3E-05,(cmb)	= 6E-01,(ing)	= 3E-06,(cmb)	= 4E-02,(ing)	= 2E-06,(cmb)	= 1E-02,(ing)	= 4E-09,(cmb)	< 1E-01,(inh)
Thallium [+1]	7446-18-6	note 2	< 1E-01,(inh)	note 2	= 1E+00,(ing)	note 2	= 1E+00,(ing)	note 2	= 1E+00,(ing)
Thiram	137-26-8	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)
Toluene	108-88-3	note 2	< 1E-01,(inh)	note 2	= 5E-02,(ing)	note 2	= 5E-02,(ing)	note 2	= 2E-02,(inh)
Trichloroethane, 1,1,1-	71-55-6	note 2	Invalid curve	note 2	= 1E+00,(ing)	note 2	= 1E+00,(ing)	note 2	= 9E-03,(inh)
Trichloroethylene	79-01-6	= 1E-05,(ing)	note 3	= 7E-07,(ing)	note 3	= 7E-07,(ing)	note 3	= 9E-09,(inh)	note 3
Vinyl chloride	75-01-4	= 1E-05,(cmb)	note 3	= 9E-07,(cmb)	note 3	= 9E-07,(cmb)	note 3	= 8E-09,(cmb)	note 3
Zinc	7440-66-6	note 2	< 1E-01,(inh)	note 2	= 1E+00,(ing)	note 2	= 1E+00,(ing)	note 2	= 1E+00,(ing)

- note 1: Human impacts were not evaluated due to the lack of human health toxicity values.
- note 2: The risk was not calculated for this chemical because the chemical did not have a cancer slope factor.
- note 3: The hazard was not calculated for this chemical because it did not have a noncancer reference dose or reference concentration.
- NA: Not Applicable
- No Curve: For this chemical, inhalation and ingestion pathways are not additive.
- Invalid Curve: For this chemical and cohort, the curve could not be used to interpolate a result.

Table RT7. Chemical-specific Risks and Hazards by Receptor Types for Surface Impoundments (unitless)  
Human Receptors - 1000 meters; Ecological Receptors - 2000 meters

Chemical Name	CASRN	Protection Group 3							
		Beef/Dairy Farmer		Gardener		Fisher		Resident	
		Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ
Acetonitrile	75-05-8	note 2	= 6E-02,(inh)	note 2	< 1E+00,(inh)	note 2	= 8E-01,(inh)	note 2	= 8E-01,(inh)
Acrylonitrile	107-13-1	= 4E-05,(ing)	= 4E+00,(ing)	= 1E-05,(ing)	= 4E-01,(ing)	= 1E-05,(ing)	= 2E-01,(ing)	= 4E-06,(inh)	= 8E-02,(inh)
Aniline	62-53-3	= 4E-05,(ing)	= 2E-02,(inh)	= 5E-06,(ing)	< 1E+00,(inh)	= 5E-06,(ing)	= 1E+00,(inh)	= 1E-06,(ing)	= 1E+00,(inh)
Arsenic	7440-38-2	< 1E-08,(inh)	< 1E-01,(inh)	= 1E-05,(ing)	= 2E-01,(ing)	= 1E-05,(ing)	= 2E-01,(ing)	= 1E-05,(ing)	= 2E-01,(ing)
Barium	7440-39-3	note 2	= 3E-03,(ing)	note 2	= 8E-01,(ing)	note 2	= 8E-01,(ing)	note 2	= 7E-01,(ing)
Benzene	71-43-2	= 8E-05,(cmb)	note 3	= 2E-05,(cmb)	note 3	= 2E-05,(cmb)	note 3	= 8E-06,(cmb)	note 3
Benzo(a)pyrene	50-32-8	< 1E-04,(ing)	note 3	< 1E-08,(inh)	note 3	< 1E-08,(inh)	note 3	< 1E-08,(inh)	note 3
Beryllium	7440-41-7	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)
Bis-(2-ethylhexyl) phthalate	117-81-7	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)
Cadmium	7440-43-9	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	= 1E+00,(ing)	< 1E-08,(inh)	= 1E+00,(ing)	< 1E-08,(inh)	= 1E+00,(ing)
Carbon disulfide	75-15-0	note 2	= 8E+00,(ing)	note 2	= 6E-01,(ing)	note 2	= 4E-01,(ing)	note 2	= 2E-02,(inh)
Chlorobenzene	108-90-7	note 2	= 8E+00,(cmb)	note 2	= 9E-01,(cmb)	note 2	= 9E-01,(cmb)	note 2	= 5E-01,(cmb)
Chloroform	67-66-3	= 4E-05,(cmb)	= 4E+00,(ing)	= 1E-05,(cmb)	= 8E-01,(ing)	= 1E-05,(cmb)	= 4E-01,(ing)	= 9E-06,(cmb)	< 1E-01,(inh)
Dibenz[a,h]anthracene	53-70-3	< 5E-06,(ing)	note 3	< 1E-08,(inh)	note 3	< 1E-08,(inh)	note 3	< 1E-08,(inh)	note 3
Dichlorophenoxyacetic acid, 2,4-	94-75-7	note 2	= 5E+00,(ing)	note 2	= 9E-01,(ing)	note 2	= 9E-01,(ing)	note 2	= 9E-01,(ing)
Divalent Mercury	7439-97-6	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)
Ethylene dibromide	106-93-4	= 5E-05,(ing)	< 1E-01,(inh)	= 3E-05,(ing)	< 1E-01,(inh)	< 1E-05,(ing)	< 1E-01,(inh)	= 7E-09,(inh)	< 1E-01,(inh)
Lead	7439-92-1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1
Methyl ethyl ketone	78-93-3	note 2	= 9E+00,(cmb)	note 2	= 9E-01,(cmb)	note 2	= 9E-01,(cmb)	note 2	= 6E-01,(cmb)
Methyl methacrylate	80-62-6	note 2	< 1E+01,(ing)	note 2	< 1E+00,(inh)	note 2	< 1E+00,(inh)	note 2	< 1E+00,(inh)
Methylene chloride	75-09-2	= 7E-05,(cmb)	= 7E+00,(cmb)	= 4E-05,(cmb)	= 8E-01,(cmb)	= 2E-05,(cmb)	= 7E-01,(cmb)	= 2E-06,(cmb)	< 1E-01,(cmb)
Nickel [+2]	7440-02-0	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	= 9E-01,(ing)	< 1E-08,(inh)	= 9E-01,(ing)	< 1E-08,(inh)	= 9E-01,(ing)
Nitrobenzene	98-95-3	note 2	Invalid curve	note 2	= 9E-01,(cmb)	note 2	= 9E-01,(cmb)	note 2	= 1E-01,(cmb)
Pentachlorophenol	87-86-5	< 1E-04,(ing)	< 1E+01,(ing)	< 5E-06,(ing)	< 1E-01,(inh)	< 5E-06,(ing)	< 1E-01,(inh)	< 5E-06,(ing)	< 1E-01,(inh)
Phenol	108-95-2	note 2	< 1E+01,(ing)	note 2	< 1E+00,(ing)	note 2	< 1E+00,(ing)	note 2	< 1E+00,(ing)
Pyridine	110-86-1	note 2	= 7E+00,(ing)	note 2	= 7E-01,(ing)	note 2	= 7E-01,(ing)	note 2	= 7E-02,(ing)
Silver	7440-22-4	note 2	< 1E-01,(inh)	note 2	< 1E+00,(ing)	note 2	< 1E+00,(ing)	note 2	= 1E+00,(ing)
Tetrachlorodibenzo-p-dioxin, 2,3,7	1746-01-6	< 1E-05,(cmb)	< 1E-01,(inh)	< 5E-06,(cmb)	< 1E-01,(inh)	< 5E-06,(cmb)	< 1E-01,(inh)	< 5E-06,(cmb)	< 1E-01,(inh)

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		Beef/Dairy Farmer		Gardener		Fisher		Resident	
		Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ
Tetrachloroethylene	127-18-4	= 7E-05,(cmb)	= 5E+00,(ing)	= 1E-05,(cmb)	= 9E-01,(ing)	= 2E-05,(cmb)	= 6E-01,(ing)	= 6E-07,(cmb)	< 1E-01,(inh)
Thallium [+1]	7446-18-6	note 2	< 1E-01,(inh)	note 2	= 1E+00,(ing)	note 2	= 1E+00,(ing)	note 2	= 1E+00,(ing)
Thiram	137-26-8	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)
Toluene	108-88-3	note 2	< 1E-01,(inh)	note 2	= 5E-02,(ing)	note 2	= 5E-02,(ing)	note 2	= 2E-02,(inh)
Trichloroethane, 1,1,1-	71-55-6	note 2	Invalid curve	note 2	= 1E+00,(ing)	note 2	= 1E+00,(ing)	note 2	= 9E-03,(inh)
Trichloroethylene	79-01-6	= 1E-05,(ing)	note 3	= 7E-07,(ing)	note 3	= 7E-07,(ing)	note 3	= 9E-09,(inh)	note 3
Vinyl chloride	75-01-4	= 5E-05,(cmb)	note 3	= 1E-05,(cmb)	note 3	= 1E-05,(cmb)	note 3	= 9E-07,(cmb)	note 3
Zinc	7440-66-6	note 2	< 1E-01,(inh)	note 2	= 1E+00,(ing)	note 2	= 1E+00,(ing)	note 2	= 1E+00,(ing)

note 1: Human impacts were not evaluated due to the lack of human health toxicity values.

note 2: The risk was not calculated for this chemical because the chemical did not have a cancer slope factor.

note 3: The hazard was not calculated for this chemical because it did not have a noncancer reference dose or reference concentration.

NA: Not Applicable

No Curve: For this chemical, inhalation and ingestion pathways are not additive.

Invalid Curve: For this chemical and cohort, the curve could not be used to interpolate a result.

Table RT7. Chemical-specific Risks and Hazards by Receptor Types for Surface Impoundments (unitless)  
Human Receptors - 1000 meters; Ecological Receptors - 2000 meters

		Protection Group 4							
		Beef/Dairy Farmer		Gardener		Fisher		Resident	
Chemical Name	CASRN	Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ
Acetonitrile	75-05-8	note 2	= 1E-01,(inh)	note 2	= 2E+00,(inh)	note 2	= 1E+00,(inh)	note 2	= 1E+00,(inh)
Acrylonitrile	107-13-1	= 5E-05,(ing)	= 5E+00,(ing)	= 3E-05,(ing)	= 6E-01,(ing)	= 1E-05,(ing)	= 6E-01,(ing)	= 7E-06,(inh)	= 1E-01,(inh)
Aniline	62-53-3	= 5E-05,(ing)	= 3E-02,(inh)	= 5E-06,(ing)	= 1E+00,(inh)	= 5E-06,(ing)	< 1E+00,(inh)	= 6E-07,(ing)	< 1E+00,(inh)
Arsenic	7440-38-2	= 1E-09,(ing)	< 1E-01,(inh)	= 1E-05,(ing)	= 5E-01,(ing)	< 1E-05,(ing)	< 1E-01,(ing)	< 1E-05,(ing)	= 3E-01,(ing)
Barium	7440-39-3	note 2	= 8E-02,(ing)	note 2	= 2E+00,(ing)	note 2	= 1E+00,(ing)	note 2	= 1E+00,(ing)
Benzene	71-43-2	= 9E-05,(cmb)	note 3	= 5E-05,(cmb)	note 3	= 5E-05,(cmb)	note 3	= 8E-06,(cmb)	note 3
Benzo(a)pyrene	50-32-8	< 1E-04,(ing)	note 3	< 1E-08,(inh)	note 3	< 1E-08,(inh)	note 3	< 1E-08,(inh)	note 3
Beryllium	7440-41-7	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)
Bis-(2-ethylhexyl) phthalate	117-81-7	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	< 1E-01,(inh)
Cadmium	7440-43-9	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	= 1E+00,(ing)	< 1E-08,(inh)	= 6E-01,(ing)	< 1E-08,(inh)	= 6E-01,(ing)
Carbon disulfide	75-15-0	note 2	< 1E+01,(ing)	note 2	< 1E+00,(ing)	note 2	< 1E+00,(ing)	note 2	< 1E-01,(inh)
Chlorobenzene	108-90-7	note 2	= 9E+00,(cmb)	note 2	= 1E+00,(cmb)	note 2	= 9E-01,(cmb)	note 2	= 8E-01,(cmb)
Chloroform	67-66-3	= 8E-05,(cmb)	= 8E+00,(ing)	= 4E-05,(cmb)	= 8E-01,(ing)	= 2E-05,(cmb)	= 8E-01,(ing)	= 9E-06,(cmb)	< 1E-01,(inh)
Dibenz[a,h]anthracene	53-70-3	< 5E-06,(ing)	note 3	< 1E-08,(inh)	note 3	< 1E-08,(inh)	note 3	< 1E-08,(inh)	note 3
Dichlorophenoxyacetic acid, 2,4-	94-75-7	note 2	= 8E+00,(ing)	note 2	= 3E+00,(ing)	note 2	= 9E-01,(ing)	note 2	= 1E+00,(ing)
Divalent Mercury	7439-97-6	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)
Ethylene dibromide	106-93-4	= 6E-05,(ing)	< 1E-01,(inh)	= 1E-05,(ing)	< 1E-01,(inh)	< 1E-05,(ing)	< 1E-01,(inh)	= 9E-09,(inh)	< 1E-01,(inh)
Lead	7439-92-1	note 1	note 1	note 1	note 1	note 1	note 1	note 1	note 1
Methyl ethyl ketone	78-93-3	note 2	< 1E+01,(cmb)	note 2	< 1E+00,(cmb)	note 2	< 1E+00,(cmb)	note 2	< 1E+00,(cmb)
Methyl methacrylate	80-62-6	note 2	< 1E+01,(ing)	note 2	< 1E+00,(inh)	note 2	< 1E+00,(inh)	note 2	< 1E+00,(inh)
Methylene chloride	75-09-2	= 9E-05,(cmb)	= 9E+00,(cmb)	= 5E-05,(cmb)	= 8E-01,(cmb)	= 4E-05,(cmb)	= 6E-01,(cmb)	= 4E-06,(cmb)	= 5E-03,(cmb)
Nickel [+2]	7440-02-0	< 1E-08,(inh)	< 1E-01,(inh)	< 1E-08,(inh)	= 4E+00,(ing)	< 1E-08,(inh)	= 9E-01,(ing)	< 1E-08,(inh)	= 1E+00,(ing)
Nitrobenzene	98-95-3	note 2	Invalid curve	note 2	= 3E+00,(cmb)	note 2	= 1E+00,(cmb)	note 2	= 8E-01,(cmb)
Pentachlorophenol	87-86-5	< 1E-04,(ing)	< 1E+01,(ing)	< 1E-06,(ing)	< 1E-01,(inh)	< 1E-06,(ing)	< 1E-01,(inh)	< 1E-06,(ing)	< 1E-01,(inh)
Phenol	108-95-2	note 2	< 1E+01,(ing)	note 2	< 1E+00,(ing)	note 2	< 1E+00,(ing)	note 2	< 1E-01,(ing)
Pyridine	110-86-1	note 2	= 9E+00,(ing)	note 2	= 1E+00,(ing)	note 2	= 9E-01,(ing)	note 2	= 9E-02,(ing)
Silver	7440-22-4	note 2	< 1E-01,(inh)	note 2	= 1E+00,(ing)	note 2	= 1E+00,(ing)	note 2	= 1E+00,(ing)
Tetrachlorodibenzo-p-dioxin, 2,3,7,8-	1746-01-6	< 1E-05,(cmb)	< 1E-01,(inh)	< 5E-06,(cmb)	< 1E-01,(inh)	< 5E-06,(cmb)	< 1E-01,(inh)	< 1E-06,(cmb)	< 1E-01,(inh)



Table RT7. Chemical-specific Risks and Hazards by Receptor Types for Surface Impoundments (unitless)  
Human Receptors - 1000 meters; Ecological Receptors - 2000 meters

Chemical Name	CASRN	Protection Group 4							
		Beef/Dairy Farmer		Gardener		Fisher		Resident	
		Risk	HQ	Risk	HQ	Risk	HQ	Risk	HQ
Tetrachloroethylene	127-18-4	= 9E-05,(cmb)	= 9E+00,(ing)	= 6E-05,(cmb)	= 8E-01,(ing)	= 6E-05,(cmb)	= 8E-01,(ing)	= 9E-07,(cmb)	< 1E-01,(inh)
Thallium [+1]	7446-18-6	note 2	= 3E-03,(ing)	note 2	= 1E+00,(ing)	note 2	= 1E+00,(ing)	note 2	= 1E+00,(ing)
Thiram	137-26-8	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)	note 2	< 1E-01,(inh)
Toluene	108-88-3	note 2	= 3E-01,(ing)	note 2	= 6E-01,(ing)	note 2	= 4E-01,(ing)	note 2	= 2E-01,(inh)
Trichloroethane, 1,1,1-	71-55-6	note 2	Invalid curve	note 2	= 7E+00,(ing)	note 2	= 7E+00,(ing)	note 2	= 8E-02,(inh)
Trichloroethylene	79-01-6	= 8E-05,(ing)	note 3	= 5E-06,(ing)	note 3	= 4E-06,(ing)	note 3	= 4E-07,(inh)	note 3
Vinyl chloride	75-01-4	= 6E-05,(cmb)	note 3	= 1E-05,(cmb)	note 3	= 1E-05,(cmb)	note 3	= 5E-06,(cmb)	note 3
Zinc	7440-66-6	note 2	< 1E-01,(inh)	note 2	= 1E+00,(ing)	note 2	= 9E-01,(ing)	note 2	< 1E+00,(ing)

- note 1: Human impacts were not evaluated due to the lack of human health toxicity values.
- note 2: The risk was not calculated for this chemical because the chemical did not have a cancer slope factor.
- note 3: The hazard was not calculated for this chemical because it did not have a noncancer reference dose or reference concentration.
- NA: Not Applicable
- No Curve: For this chemical, inhalation and ingestion pathways are not additive.
- Invalid Curve: For this chemical and cohort, the curve could not be used to interpolate a result.