

Table 2

METHOD 1 GROUNDWATER STANDARDS

NHDES Risk Characterization and Management Policy (Section 7.4(4))

CHEMICAL NAME	CAS No.	NH GW-1 ^① µg/l (ppb)	NH GW-2 ^② µg/l (ppb)
Acenaphthene	83-32-9	420	NA
Acenaphthylene	208-96-8	420	NA
Acetone	67-64-1	6,000	†
Acrylonitrile	107-13-1	5	†
Alachor	15972-60-8	2	NA
Aldicarb	116-06-3	7	NA
Aldicarb sulfone	1646-88-4	7	NA
Aldicarb sulfoxide	1646-87-3	7	NA
Aldrin	309-00-2	0.1	†
Allyl chloride	107-05-1	7.4	†
Anthracene	120-12-7	2,100	NA
Antimony	7440-36-0	6	NA
Arsenic	7440-38-2	10	NA
Atrazine	1912-24-9	3	†
Barium	7440-39-3	2,000	NA
Benzene	71-43-2	5	2,900
Benzidine	92-87-5	0.8	†
Benzo(a)anthracene	56-55-3	0.1	NA
Benzo(a)pyrene	50-32-8	0.2	NA
Benzo(b)fluoranthene	205-99-2	0.1	NA
Benzo(g,h,i)perylene	191-24-2	210	NA
Benzoic Acid	65-85-0	28,000	†
Benzo(k)fluoranthene	207-08-9	0.5	NA
Beryllium	7440-41-7	4	NA
Biphenyl, 1,1-	92-52-4	350	NA
bis-(2-chloroethyl)ether	111-44-4	10	†
bis-(2-chloroisopropyl)ether	39638-32-9	300	†
bis-(chloromethyl)ether	542-88-1	10	†
Bisphenol A	80-05-7	120	†
Boron	7440-42-8	6000	†
Bromodichloromethane [Ⓜ]	75-27-4	0.6	NA
Bromoform [Ⓜ]	75-25-2	4	2,800
Bromomethane	74-83-9	10	10
Butylbenzene, n-	104-51-8	260	†
Butylbenzene, sec-	135-98-8	260	†
Butylbenzene, tert-	98-06-6	260	†
Cadmium	7440-43-9	5	NA
Camphor	76-22-2	200	†
Carbofuran	1563-66-2	40	†
Carbon disulfide	75-15-0	70	†
Carbon tetrachloride	56-23-5	5	10
Chlordane	57-74-9	2	NA

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Chloroaniline, p-	106-47-8	28	NA
Chloromethane	74-87-3	30	†
Chlorophenol, 2-	95-57-8	40	NA
Chlorotoluene, o-	95-49-8	100	†
Chlorotrifluoroethylene (CFC-1113)	79-38-9	5	†
Chromium (Total)	7440-47-3	100	NA
Chrysene	218-01-9	5	NA
Clopyralid (Stinger 3SC)	1702-17-6	3,500	†
Copper	7440-50-8	1,300	†
Cyanazine (Bladex 4L/90DF)	21725-46-2	1	†
Cyanide	57-12-5	200	NA
2,4-D (Dichlorophenoxy acetic acid, 2,4-)	94-75-7	70	†
Dalapon	75-99-0	200	†
DDD (Dichlorodiphenyl dichloroethane, p,p')	72-54-8	0.1	NA
DDE (Dichlorodiphenyl dichloroethylene, p,p')	72-55-9	0.1	NA
DDT (Dichlorodiphenyl trichloroethane, p,p')	50-29-3	0.1	NA
Dibenzo(a,h)anthracene	53-70-3	0.1	NA
Dibromochloromethane [Ⓜ]	124-48-1	60	NA
Dibromochloropropane	96-12-8	0.2	†
Dibutylphthalate	84-74-2	800	†
Dichlorobenzene, 1,2- (o-DCB)	95-50-1	600	14,000
Dichlorobenzene, 1,3- (m-DCB)	541-73-1	600	†
Dichlorobenzene, 1,4- (p-DCB)	106-46-7	75	80
Dichlorobenzidine, 3,3'-	91-94-1	1.3	NA
Dichlorodifluoromethane (Freon 12)	75-71-8	1,000	†
Dichloroethane, 1,1-	75-34-3	81	130
Dichloroethane, 1,2-	107-06-2	5	50
Dichloroethylene, 1,1-	75-35-4	7	630
Dichloroethylene, cis-1,2-	156-59-2	70	NA
Dichloroethylene, trans-1,2-	156-60-5	100	560
Dichloromethane (Methylene chloride)	75-09-2	5	24,000
Dichlorophenol, 2,4-	120-83-2	20	NA
Dichloropropane, 1,2-	78-87-5	5	50
Dichloropropene, 1,3-	542-75-6	0.5	†
Dieldrin	60-57-1	0.1	NA
Diethyl ether (ethyl ether)	60-29-7	1,400	†
Di(ethylhexyl)adipate	103-23-1	400	†
Di(2-ethylhexyl)phthalate	117-81-7	6	†
Diisopropyl ether (DIPE)	108-20-3	120	†
Dimethyl phthalate	131-11-3	50,000	NA
Dimethylphenol, 2,4-	105-67-9	140	NA
Dinitrophenol, 2,4-	51-28-5	14	NA

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Dinitrotoluene, 2,4-	121-14-2	10	NA
Dinoseb	88-85-7	7	†
1,4-Dioxane	123-91-1	0.32	†
1,2-Diphenylhydrazine	122-66-7	10	†
Diquat	85-00-7	20	†
Endosulfan	115-29-7	42	NA
Endothall	145-73-3	100	†
Endrin	72-20-8	2	NA
Ethylbenzene	100-41-4	700	1,500
Ethylene dibromide	106-93-4	0.05	35
Ethylene glycol	107-21-1	14,000	†
Ethyl tert butyl ether (ETBE)	637-92-3	40	†
Fluoranthene	206-44-0	280	NA
Fluorene	86-73-7	280	NA
Fluoride	16984-48-8	4,000	†
Formaldehyde	50-00-0	100	†
Glyphosate	1071-83-6	700	†
Gross alpha radionuclides		15 Pci/L	†
Heptachlor	76-44-8	0.4	NA
Heptachlor epoxide	1024-57-3	0.2	NA
Hexachlorobenzene	118-74-1	1	NA
Hexachlorobutadiene	87-68-3	0.5	†
Hexachlorocyclohexane, alpha	319-84-6	0.1	†
Hexachlorocyclohexane, beta	319-85-7	0.1	†
Hexachlorocyclohexane, gamma	58-89-9	0.2	NA
Hexachlorocyclopentadiene	77-47-4	50	†
Hexachloroethane	67-72-1	1.0	†
Indeno(1,2,3-cd)pyrene	193-39-5	0.1	NA
Isophorone	78-59-1	100	†
Isopropyl benzene (Cumene)	98-82-8	800	NA
Isopropyltoluene, p	99-87-6	260	†
Lead	7439-92-1	15	NA
Manganese	7439-96-5	840	NA
Mercury	7439-97-6	2	NA
Methanol	67-56-1	4000	†
Methoxychlor	72-43-5	40	NA
Methyl ethyl ketone (MEK)	78-93-3	4,000	50,000
Methyl isobutyl ketone (MIBK)	108-10-1	2,000	50,000
Methylnaphthalene, 2-	91-57-6	280	†
Methyl phenol, 2-	95-48-7	40	†
Methyl phenol, 4-	106-44-5	40	†
Methyl tert butyl ether (MtBE)	1634-04-4	13	2,600

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Metolachlor	51218-45-2	70	†
Metribuzin	21087-64-9	70	†
Monochlorobenzene (Chlorobenzene)	108-90-7	100	1,500
Naphthalene	91-20-3	100	1,700
Nickel	7440-02-0	100	NA
Nitrate	14797-55-8	10,000	†
Nitrite	14797-65-0	1,000	†
Oxamyl	23135-22-0	200	†
Pentachlorophenol	87-86-5	1	NA
Perfluorooctanoic Acid (PFOA), total of all isomers	335-67-1	0.07	†
Perfluorooctane Sulfonic Acid (PFOS), total of all isomers	1763-23-1	0.07	†
Phenanthrene	85-01-8	210	NA
Phenol	108-95-2	2,000	†
Picloram	1918-02-1	500	†
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	NA
Potassium	7440-09-7	35,000	†
n-Propylbenzene	103-65-1	260	†
Pyrene	129-00-0	210	NA
Radium 226 and 228	7740-14-4	5 Pci/L	†
Selenium	7782-49-2	50	NA
Silver	7440-22-4	100	NA
Simazine	122-34-9	4	†
Strontium 90	10098-97-2	8 Pci/L	†
Strontium, non-radioactive	7440-24-6	4,000	
Styrene	100-42-5	100	43,000
Sulfate	14808-79-8	500,000	†
TCDD, 2,3,7,8- (Dioxin)	1746-01-6	0.00003	NA
Tertiary amyl methyl ether (TAME)	994-05-8	140	†
Tertiary butyl alcohol (TBA)	75-65-0	40	†
Tetrachloroethane, 1,1,1,2,-	630-20-6	70	†
Tetrachloroethane, 1,1,2,2,-	79-34-5	2	120
Tetrachloroethylene (PCE)	127-18-4	5	240
Tetrachlorophenol, 2,3,4,6	58-90-2	200	†
Tetrahydrofuran	109-99-9	154	†
Thallium (Total)	7440-28-0	2	NA
Toluene	108-88-3	1,000	50,000
Total Coliform		CTS/100ml	†
Toxaphene	8001-35-2	3	†
2,4,5-TP (Silvex)	93-72-1	50	†
Trichlorobenzene, 1,2,4-	120-82-1	70	150
Trichlorobenzene, 1,3,5-	108-70-3	40	†

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Trichloroethane, 1,1,1-	71-55-6	200	27,000
Trichloroethane, 1,1,2-	79-00-5	5	20
Trichloroethylene (TCE)	79-01-6	5	20
Trichlorofluoromethane (Freon 11)	75-69-4	2,000	†
Trichloromethane (Chloroform) ^③	67-66-3	70	70
Trichlorophenol, 2,4,5-	95-95-4	700	NA
Trichlorophenol, 2,4,6-	88-06-2	5	†
Trichloropropane, 1,2,3-	96-18-4	40	†
Trimethylbenzene, 1,2,4-	95-63-6	330	1,300
Trimethylbenzene, 1,3,5-	108-67-8	330	†
Tritium	10028-17-8	20,000 Pci/L	†
Vinyl chloride	75-01-4	2	4
Xylenes (mixed isomers)	1330-20-7	10,000	17,000

Endnotes:

- 1) The NH GW-1 values are equivalent to the Ambient Ground Water Quality Standards which can be found in rule Env-Or 600 Contaminated Site Management.
- 2) Category GW-2 groundwater is considered to be a potential source of vapors of contaminants to indoor air. The GW-2 values are intended to provide guidelines on when it may be appropriate to examine the indoor air exposure pathway. The GW-2 groundwater category is intended to be used where VOCs (non-petroleum) are detected in groundwater within 100 feet (vertically or horizontally) of an occupied building. At petroleum hydrocarbon sites, the GW-2 screening values are intended to be applied where petroleum VOCs are detected in groundwater within 30 feet (vertically or horizontally) of an occupied building.
- ③ The Ambient Ground Water Quality Standard for total trihalomethanes, namely bromoform, bromodichloromethane, dibromochloromethane and trichloromethane (chloroform), shall be 80 micrograms per liter (ug/L) if the groundwater is contaminated by chlorinated water supplies.

† GW-2 groundwater guidelines are not currently available for these chemicals.

NA Not Applicable.