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National Primary Drinking Water Standards					
Primary (Health Related) Organic Contaminants					
Contaminant	MCLG (mg/L)	MCL (mg/L)	WQA Recommended Treatment Methods	Potential Health Effects from Ingestion of Water	Sources of Contaminant in Drinking Water
2,4,5-TP (silvex)	• 0.05	• 0.05	• Activated Carbon	<ul style="list-style-type: none"> <li>• Liver damage</li> <li>• Kidney damage</li> </ul>	<ul style="list-style-type: none"> <li>• Herbicide residue</li> <li>• Cancelled in 1983</li> </ul>
2,4-D	• 0.07 mg/L	• 0.07 mg/L	• Activated Carbon	<ul style="list-style-type: none"> <li>• Liver damage</li> <li>• Kidney damage</li> </ul>	<ul style="list-style-type: none"> <li>• Herbicide runoff</li> </ul>
Acrylamide	• zero	• 0.0005 mg/L (action level)	• Control of water treatment chemicals and surfaces in contact with water	<ul style="list-style-type: none"> <li>• Cancer</li> <li>• Nervous system effects</li> </ul>	<ul style="list-style-type: none"> <li>• Polymers used in sewage/waste water treatment</li> </ul>
Adipates (diethylhexyl)	• 0.4 mg/L	• 0.4 mg/L	<ul style="list-style-type: none"> <li>• Activated Carbon</li> <li>• Air Stripping</li> </ul>	<ul style="list-style-type: none"> <li>• Decreased body weight</li> <li>• Reproductive difficulties</li> </ul>	<ul style="list-style-type: none"> <li>• Leaching from PVC plumbing systems</li> <li>• Discharge from chemical factories</li> </ul>
Alachlor	• zero	• 0.002 mg/L	• Activated Carbon	<ul style="list-style-type: none"> <li>• Eye, liver, kidney or spleen problems</li> <li>• Anemia</li> <li>• Increased risk of cancer</li> </ul>	<ul style="list-style-type: none"> <li>• Runoff from herbicide on row crops</li> </ul>
Atrazine	• 0.003 mg/L	• 0.003 mg/L	• Activated Carbon	<ul style="list-style-type: none"> <li>• Cardiovascular system problems</li> <li>• Reproductive difficulties</li> <li>• Mammary gland tumors</li> </ul>	<ul style="list-style-type: none"> <li>• Runoff from herbicide used on row crops</li> </ul>
Benzene	• zero	• 0.005 mg/L	<ul style="list-style-type: none"> <li>• Activated Carbon</li> <li>• Air Stripping</li> </ul>	<ul style="list-style-type: none"> <li>• Cancer</li> </ul>	<ul style="list-style-type: none"> <li>• Some foods</li> <li>• Gas, drugs, pesticide, paint, plastic industries</li> </ul>
Benzo(a)pyrene PAH	• zero	• 0.0002 mg/L	• Activated Carbon	<ul style="list-style-type: none"> <li>• Cancer</li> <li>• Reproductive difficulties</li> </ul>	<ul style="list-style-type: none"> <li>• Coal tar coatings</li> <li>• Burning organic matter</li> <li>• Volcanoes and fossil fuels</li> </ul>
Bromate	• zero	• 0.010 mg/L	• Activated Carbon	<ul style="list-style-type: none"> <li>• Cancer</li> </ul>	<ul style="list-style-type: none"> <li>• Ozonation by-product</li> </ul>
Carbofuran	• 0.04 mg/L	• 0.04 mg/L	• Activated Carbon	<ul style="list-style-type: none"> <li>• Problems with blood or nervous systems</li> <li>• Reproductive difficulties</li> </ul>	<ul style="list-style-type: none"> <li>• Soil fumigant</li> <li>• Restricted in some areas</li> </ul>
Carbon tetrachloride	• zero	• 0.005 mg/L	<ul style="list-style-type: none"> <li>• Activated Carbon</li> <li>• Air Stripping</li> </ul>	<ul style="list-style-type: none"> <li>• Cancer</li> <li>• Liver problems</li> </ul>	<ul style="list-style-type: none"> <li>• Solvents and their degradation products</li> </ul>
Chlordane	• zero	• 0.002 mg/L	• Activated Carbon	<ul style="list-style-type: none"> <li>• Cancer</li> <li>• Liver problems</li> <li>• Nervous system</li> </ul>	<ul style="list-style-type: none"> <li>• Leaching from soil treatment for termites</li> </ul>

				problems	
Chlorite	<ul style="list-style-type: none"> <li>• 0.8 mg/L</li> </ul>	<ul style="list-style-type: none"> <li>• 1.0 mg/L</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> </ul>	<ul style="list-style-type: none"> <li>• Developmental neurotoxicity</li> <li>• Red blood cell effects</li> </ul>	<ul style="list-style-type: none"> <li>• Chlorine dioxide by-product</li> </ul>
Chlorobenzene	<ul style="list-style-type: none"> <li>• 0.1 mg/L</li> </ul>	<ul style="list-style-type: none"> <li>• 0.1 mg/L</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> <li>• Air Stripping</li> </ul>	<ul style="list-style-type: none"> <li>• Nervous system problems</li> <li>• Kidney problems</li> <li>• Liver problems</li> </ul>	<ul style="list-style-type: none"> <li>• Waste solvent from metal degreasing processes</li> </ul>
Dalapon	<ul style="list-style-type: none"> <li>• 0.2 mg/L</li> </ul>	<ul style="list-style-type: none"> <li>• 0.2 mg/L</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> </ul>	<ul style="list-style-type: none"> <li>• Kidney effects</li> </ul>	<ul style="list-style-type: none"> <li>• Runoff from herbicide</li> </ul>
Dibromochloropropane (DBCP)	<ul style="list-style-type: none"> <li>• zero</li> </ul>	<ul style="list-style-type: none"> <li>• 0.0002 mg/L</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> <li>• Air Stripping</li> </ul>	<ul style="list-style-type: none"> <li>• Cancer</li> </ul>	<ul style="list-style-type: none"> <li>• Runoff/leaching from soil fumigant</li> </ul>
Dichlorobenzene (ortho-)	<ul style="list-style-type: none"> <li>• 0.6 mg/L</li> </ul>	<ul style="list-style-type: none"> <li>• 0.6 mg/L</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> <li>• Air Stripping</li> </ul>	<ul style="list-style-type: none"> <li>• Kidney problems</li> <li>• Liver problems</li> <li>• Blood cell damage</li> </ul>	<ul style="list-style-type: none"> <li>• Paints</li> <li>• Engine cleaning compounds</li> <li>• Dyes</li> <li>• Chemical wastes</li> </ul>
Dichlorobenzene (para-)	<ul style="list-style-type: none"> <li>• 0.075 mg/L</li> </ul>	<ul style="list-style-type: none"> <li>• 0.075 mg/L</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon; Air Stripping</li> </ul>	<ul style="list-style-type: none"> <li>• Cancer</li> </ul>	<ul style="list-style-type: none"> <li>• Room and water deodorants and "mothballs"</li> </ul>
Dichloroethane (1,2-)	<ul style="list-style-type: none"> <li>• zero</li> </ul>	<ul style="list-style-type: none"> <li>• 0.005</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon; Air Stripping</li> </ul>	<ul style="list-style-type: none"> <li>• Cancer</li> </ul>	<ul style="list-style-type: none"> <li>• Leaded gas, fumigants, paints</li> </ul>
Dichloroethylene (1,1-)	<ul style="list-style-type: none"> <li>• 0.007</li> </ul>	<ul style="list-style-type: none"> <li>• 0.007</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon; Air Stripping</li> </ul>	<ul style="list-style-type: none"> <li>• Cancer, liver and kidney effects</li> </ul>	<ul style="list-style-type: none"> <li>• Plastics, dyes, perfumes, paints</li> </ul>
Dichloroethylene (cis-1,2-)	<ul style="list-style-type: none"> <li>• 0.07</li> </ul>	<ul style="list-style-type: none"> <li>• 0.07</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon; Air Stripping</li> </ul>	<ul style="list-style-type: none"> <li>• Liver, kidney, nervous, circulatory system effects</li> </ul>	<ul style="list-style-type: none"> <li>• Waste industrial extraction solvents</li> </ul>
Dichloroethylene (trans-1,2-)	<ul style="list-style-type: none"> <li>• 0.1</li> </ul>	<ul style="list-style-type: none"> <li>• 0.1</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon; Air Stripping</li> </ul>	<ul style="list-style-type: none"> <li>• Liver, kidney, nervous, circulatory system effects</li> </ul>	<ul style="list-style-type: none"> <li>• Waste industrial extraction solvents</li> </ul>
dichloromethane (methylene chloride)	<ul style="list-style-type: none"> <li>• zero</li> </ul>	<ul style="list-style-type: none"> <li>• 0.005</li> </ul>	<ul style="list-style-type: none"> <li>• Air Stripping</li> </ul>	<ul style="list-style-type: none"> <li>• Cancer</li> </ul>	<ul style="list-style-type: none"> <li>• Paint stripper, metal degreaser, propellant, extractant</li> </ul>
Dichloropropane (1,2-)	<ul style="list-style-type: none"> <li>• zero</li> </ul>	<ul style="list-style-type: none"> <li>• 0.005</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon; Air Stripping</li> </ul>	<ul style="list-style-type: none"> <li>• Liver, kidney effects; cancer</li> </ul>	<ul style="list-style-type: none"> <li>• Soil fumigant; waste industrial solvents</li> </ul>
Diethylhexyl phthalate	<ul style="list-style-type: none"> <li>• zero</li> </ul>	<ul style="list-style-type: none"> <li>• 0.006</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> </ul>	<ul style="list-style-type: none"> <li>• Cancer</li> </ul>	<ul style="list-style-type: none"> <li>• PVC and other plastics</li> </ul>
Dinoseb	<ul style="list-style-type: none"> <li>• 0.007</li> </ul>	<ul style="list-style-type: none"> <li>• 0.007</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> </ul>	<ul style="list-style-type: none"> <li>• Thyroid, reproductive organ damage</li> </ul>	<ul style="list-style-type: none"> <li>• runoff of herbicide from crop and noncrop applications</li> </ul>
Dioxin (2,3,7,8-TCDD)	<ul style="list-style-type: none"> <li>• zero</li> </ul>	<ul style="list-style-type: none"> <li>• 0.00000003</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> </ul>	<ul style="list-style-type: none"> <li>• Cancer</li> </ul>	<ul style="list-style-type: none"> <li>• Chemical production by-product; impurity in herbicides</li> </ul>
Diquat	<ul style="list-style-type: none"> <li>• 0.02</li> </ul>	<ul style="list-style-type: none"> <li>• 0.02</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> </ul>	<ul style="list-style-type: none"> <li>• Liver, kidney, eye effects</li> </ul>	<ul style="list-style-type: none"> <li>• Runoff of herbicide on land and aquatic weeds</li> </ul>

Endothall	<ul style="list-style-type: none"> <li>• 0.1</li> </ul>	<ul style="list-style-type: none"> <li>• 0.1</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> </ul>	<ul style="list-style-type: none"> <li>• Liver, kidney, gastrointestinal effects</li> </ul>	<ul style="list-style-type: none"> <li>• Herbicide on crops, land/aquatic weeds; rapidly degraded</li> </ul>
Endrin	<ul style="list-style-type: none"> <li>• 0.002</li> </ul>	<ul style="list-style-type: none"> <li>• 0.002</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> </ul>	<ul style="list-style-type: none"> <li>• Liver, kidney, heart damage</li> </ul>	<ul style="list-style-type: none"> <li>• Pesticide on insects, rodents, birds; restricted since 1980</li> </ul>
Epichlorohydrin	<ul style="list-style-type: none"> <li>• zero</li> </ul>	<ul style="list-style-type: none"> <li>• 0.002 (action level)</li> </ul>	<ul style="list-style-type: none"> <li>• Control of water treatment chemicals and surfaces in contact with water</li> </ul>	<ul style="list-style-type: none"> <li>• Cancer</li> </ul>	<ul style="list-style-type: none"> <li>• Water treatment chemicals; waste epoxy resins, coatings</li> </ul>
Ethylbenzene	<ul style="list-style-type: none"> <li>• 0.7</li> </ul>	<ul style="list-style-type: none"> <li>• 0.7</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon; Air Stripping</li> </ul>	<ul style="list-style-type: none"> <li>• Liver, kidney, nervous system effects</li> </ul>	<ul style="list-style-type: none"> <li>• Gasoline; insecticides; chemical manufacturing wastes</li> </ul>
Ethylene dibromide (EDB)	<ul style="list-style-type: none"> <li>• zero</li> </ul>	<ul style="list-style-type: none"> <li>• 0.00005</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon; Air Stripping</li> </ul>	<ul style="list-style-type: none"> <li>• Cancer</li> </ul>	<ul style="list-style-type: none"> <li>• Leaded gas additives; leaching of soil fumigant</li> </ul>
Glyphosate	<ul style="list-style-type: none"> <li>• 0.7</li> </ul>	<ul style="list-style-type: none"> <li>• 0.7</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon Oxidation</li> </ul>	<ul style="list-style-type: none"> <li>• Liver, kidney damage</li> </ul>	<ul style="list-style-type: none"> <li>• Herbicide on grasses, weeds, brush</li> </ul>
Haloacetic Acids (HAA5)	<ul style="list-style-type: none"> <li>• zero</li> </ul>	<ul style="list-style-type: none"> <li>• 0.060 (stage 1) (0.050 P*)</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> </ul>	<ul style="list-style-type: none"> <li>• Cancer and other effects</li> </ul>	<ul style="list-style-type: none"> <li>• Drinking water chlorination by-products</li> </ul>
Heptachlor	<ul style="list-style-type: none"> <li>• zero</li> </ul>	<ul style="list-style-type: none"> <li>• 0.0004</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> </ul>	<ul style="list-style-type: none"> <li>• Cancer</li> </ul>	<ul style="list-style-type: none"> <li>• Leaching of insecticide for termites, very few crops</li> </ul>
Heptachlor epoxide	<ul style="list-style-type: none"> <li>• zero</li> </ul>	<ul style="list-style-type: none"> <li>• 0.0002</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> </ul>	<ul style="list-style-type: none"> <li>• Cancer</li> </ul>	<ul style="list-style-type: none"> <li>• Biodegradation of heptachlor</li> </ul>
Hexachlorobenzene	<ul style="list-style-type: none"> <li>• zero</li> </ul>	<ul style="list-style-type: none"> <li>• 0.001</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> </ul>	<ul style="list-style-type: none"> <li>• Cancer</li> </ul>	<ul style="list-style-type: none"> <li>• Pesticide production waste by-product</li> </ul>
Hexachlorocyclopentadiene (HEX)	<ul style="list-style-type: none"> <li>• 0.05</li> </ul>	<ul style="list-style-type: none"> <li>• 0.05</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon; Air Stripping</li> </ul>	<ul style="list-style-type: none"> <li>• Kidney, stomach damage</li> </ul>	<ul style="list-style-type: none"> <li>• Pesticide production intermediate</li> </ul>
Lindane	<ul style="list-style-type: none"> <li>• 0.0002</li> </ul>	<ul style="list-style-type: none"> <li>• 0.0002</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> </ul>	<ul style="list-style-type: none"> <li>• Liver, kidney, nervous system, immune system, and circulatory system effects</li> </ul>	<ul style="list-style-type: none"> <li>• Insecticide on cattle, lumber, gardens; restricted in 1983</li> </ul>
Methoxychlor	<ul style="list-style-type: none"> <li>• 0.04</li> </ul>	<ul style="list-style-type: none"> <li>• 0.04</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> </ul>	<ul style="list-style-type: none"> <li>• Growth, liver, kidney, and nervous system effects</li> </ul>	<ul style="list-style-type: none"> <li>• Insecticide for fruits, vegetables, alfalfa, livestock, pets</li> </ul>
Oxamyl (vydate)	<ul style="list-style-type: none"> <li>• 0.2</li> </ul>	<ul style="list-style-type: none"> <li>• 0.2</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> </ul>	<ul style="list-style-type: none"> <li>• Kidney damage</li> </ul>	<ul style="list-style-type: none"> <li>• Insecticide on apples, potatoes, tomatoes</li> </ul>
PCBs (Polychlorinated byphenyls)	<ul style="list-style-type: none"> <li>• zero</li> </ul>	<ul style="list-style-type: none"> <li>• 0.0005</li> </ul>	<ul style="list-style-type: none"> <li>• Activated Carbon</li> </ul>	<ul style="list-style-type: none"> <li>• Cancer</li> </ul>	<ul style="list-style-type: none"> <li>• Coolant oils from electrical transformers; plasticizers</li> </ul>
					<ul style="list-style-type: none"> <li>• Wood</li> </ul>

Pentachlorophenol	• zero	• 0.001	• Activated Carbon	• Cancer; liver and kidney effects	preservatives, herbicides, cooling tower wastes
Picloram	• 0.5	• 0.5	• Activated Carbon	• Kidney, liver damage	• Herbicide on broadleaf and woody plants
Simazine	• 0.004	• 0.004	• Activated Carbon	• Cancer	• Herbicide on grass sod, some crops, aquatic algae
Styrene	• 0.1	• 0.1	• Activated Carbon; Air Stripping	• Liver, nervous system	• Plastics, rubber, resin, drug damage industries; leachate from city landfills
Tetrachloroethylene (PCE)	• zero	• 0.005	• Activated Carbon; Air Stripping	• Cancer	• Improper disposal of dry cleaning and other solvents
Toluene	• 1	• 1	• Activated Carbon; Air Stripping	• Liver, kidney, nervous system and circulatory system effects	• Gasoline additive; manufacturing and solvent operations
Toxaphene	• zero	• 0.003	• Activated Carbon	• Cancer	• Insecticide on cattle, cotton, soybeans; cancelled in 1982
Trichlorobenzene (1,2,4)	• 0.07	• 0.07	• Activated Carbon; Air Stripping	• Liver, kidney damage	• Herbicide production; dye carrier
Trichloroethane (1,1,1-)	• 0.2	• 0.2	• Activated Carbon; Air Stripping	• Liver, nervous system effects	• Adhesives, aerosols, textiles, paints, inks, metal degreasers
Trichloroethane (1,1,2-)	• 0.003	• 0.005	• Activated Carbon; Air Stripping	• Kidney, liver, nervous system damage	• Solvent in rubber, other organic products; chemical production wastes
Trichloroethylene (TCE)	• zero	• 0.005	• Activated Carbon; Air Stripping	• Cancer	• Textiles, adhesives and metal degreasers
Trihalomethanes (THMs) - Total	• zero	• 0.080 (stage 1) (0.040 P*)	• Activated Carbon; Air Stripping; Ultrafiltration (20%-90%); Reverse Osmosis (20%-90%)	• Cancer and other effects	• Drinking water chlorination by-products
Vinyl chloride	• zero	• 0.002	• Air Stripping	• Cancer	• May leach from PVC pipe; formed by solvent breakdown
Xylenes (total)	• 10	• 10	• Activated Carbon; Air Stripping	• Liver, kidney, nervous system effects	• By-product of gasoline refining; paints, inks, detergents

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