



Ohio Administrative Code

Rule 3745-54-94 Concentration limits - groundwater protection.

Effective: January 16, 2026

(A) The facility permit shall specify the concentration limits in the groundwater for hazardous constituents established under rule 3745-54-93 of the Administrative Code. The concentration of a hazardous constituent:

(1) Shall not exceed the background level of that constituent in the groundwater at the time that limit is specified in the permit; or

(2) For any of the constituents listed in the table in this rule, the concentration of the constituent shall not exceed the respective value given in the table in this rule if the background level of the constituent is below the value given in the table in this rule; or

(3) Shall not exceed an alternate limit established in the permit under paragraph (B) of this rule.

(B) The director will establish an alternate concentration limit for a hazardous constituent if the director finds that the constituent will not pose a substantial present or potential hazard to human health or the environment as long as the alternate concentration limit is not exceeded. In establishing alternate concentration limits, the director will consider the following factors:

(1) Potential adverse effects on groundwater quality, considering:

(a) The physical and chemical characteristics of the waste in the regulated unit, including the waste's potential for migration;

(b) The hydrogeological characteristics of the facility and surrounding land;

(c) The quantity of groundwater and the direction of groundwater flow;

(d) The proximity and withdrawal rates of groundwater users;



- (e) The current and future use of groundwater in the area;
 - (f) The existing quality of groundwater, including other sources of contamination and the cumulative impact of such contamination on the groundwater quality;
 - (g) The potential for health risks caused by human exposure to waste constituents;
 - (h) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents;
 - (i) The persistence and permanence of the potential adverse effects; and
- (2) Potential adverse effects on hydraulically-connected surface water quality, considering:
- (a) The volume and physical and chemical characteristics of the waste in the regulated unit;
 - (b) The hydrogeological characteristics of the facility and surrounding land;
 - (c) The quantity and quality of groundwater, and the direction of groundwater flow;
 - (d) The patterns of rainfall in the region;
 - (e) The proximity of the regulated unit to surface waters;
 - (f) The current and future uses of surface waters in the area and any water quality standards established for those surface waters;
 - (g) The existing quality of surface water, including other sources of contamination and the cumulative impact of such contamination on surface water quality;
 - (h) The potential for health risks caused by human exposure to waste constituents;



(i) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents; and

(j) The persistence and permanence of the potential adverse effects.

(C) In making any determination under paragraph (B) of this rule about the use of groundwater in the area around the facility, the director will consider any identification of underground sources of drinking water and exempted aquifers made under 40 CFR 144.8.

Constituent	Maximum Contaminant Concentration (milligrams per liter)
Antimony	0.006
Arsenic	0.010
Barium	2.0
Benzene	0.005
Benzo(a)pyrene (PAHs)	0.0002
Beryllium	0.004
Bis(2ethylhexyl)phthalate	0.006
Cadmium	0.005
Carbofuran	0.04
Carbon tetrachloride	0.005
Chlordane	0.002
Chlorobenzene	0.1
Chromium (total)	0.1
Copper	1.3 *
Cyanide (as free cyanide)	0.2
2,4-D	0.07
1,2-Dibromo-3-chloropropane (DBCP)	0.0002
o-Dichlorobenzene	0.6
p-Dichlorobenzene	0.075
1,2-Dichloroethane	0.005
1,1-Dichloroethylene	0.007
cis-1,2-Dichloroethylene	0.07
trans-1,2-Dichloroethylene	0.1
Dichloromethane (Methylene chloride)	0.005
1,2-Dichloropropane (Propylene dichloride)	0.005
Dinoseb	0.007
Endrin	0.002
Ethylbenzene	0.7
Ethylene dibromide	0.00005
Heptachlor	0.0004
Heptachlor epoxide	0.0002
Hexachlorobenzene	0.001



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Hexachlorocyclopentadiene	0.05
Lead	0.015 *
Lindane	0.0002
Mercury (inorganic)	0.002
Methoxychlor	0.04
Pentachlorophenol	0.001
Polychlorinated biphenyls (PCBs)	0.0005
Selenium	0.05
Styrene	0.1 *
Tetrachloroethylene	0.005
Thallium	0.002
Toluene	1.0
Toxaphene	0.003
2,4,5-TP (Silvex)	0.05
1,2,4-Trichlorobenzene	0.07
1,1,1-Trichloroethane (Methyl chloroform)	0.2
1,1,2-Trichloroethane	0.005
Trichloroethylene	0.005
Vinyl chloride	0.002
Xylene	10.0
* Action level, not a maximum contaminant limit.	

[Comment: For dates of non-regulatory government publications, publications of recognized organizations and associations, federal rules, and federal statutory provisions referenced in this rule, see rule 3745-50-11 of the Administrative Code titled "Incorporated by reference."]