

Quality of Near-surface Groundwater
AOX (Adsorbable Halogenated Hydrocarbonates),
Pesticides,

Contents of near-surface groundwater in relation to limit values
of the Drinking Water Regulations

	no measuring value available		
	up to 25 % of the limit value		
	> 25% - 50% of the limit value		
	> 50% - 100% of the limit value		
	> 100% - 150% of the limit value		
	> 150% - 200% of the limit value		
	> 200% of the limit value		
	Chloride (mg/l)	Sulfate (mg/l)	Ammonium (mg/l)
	≤ 62.5	≤ 60	≤ 0.13
	> 62.5 -125	> 60 -120	> 0.13 -0.25
	> 125-250	> 120 -240	> 0.25 -0.5
	> 250-375	> 240 -360	> 0.5 -0.75
	> 375-500	> 360 -480	> 0.75 -1.0
	> 500	> 480	> 1.0
	Nitrate (mg/l)	Oxidability (KMnO ₄ consumption as O ₂) (mg/l)	Conductivity (µS/cm)
	≤ 12.5	≤ 1.25	≤ 500
	> 12.5 -25	> 1.25-2.5	> 500 -1000
	> 25-50	> 2.5-5.0	> 1000 -2000
	> 50-75	> 5.0-7.5	> 2000 -3000
	> 75-100	> 7.5-10.0	> 3000 -4000
	> 100	> 10.0	> 4000
	AOX ¹⁾ (mg/l)	Pesticides ²⁾ (mg/l)	
	> 0.01 (limit of detectability)	≤ 0.000125	
	> 0.01	> 0.000125 -0.00025	
	> 0.01 -0.015	> 0.00025 -0.0005	
	> 0.015 -0.02	> 0.00075 -0.001	
	> 0.02	> 0.001	
	> 0.1		

1) The Drinking Water Regulations (TrinkwV) give no limit value for AOX. The critical parameter used here is the sum limit value in the Drinking Water Regulation for 5 organic chlorine compounds of 0.01 mg/l, valid since January, 1992.

2) The parameter of valuation for pesticides is the sum limit value of the Drinking Water Regulations of 0.0005 mg/l. The figures given in the map refer to the number of detected substances.

- Statements of groundwater quality refer only to the first groundwater aquifer.
- Samples were taken from groundwater observation wells and street wells. Samples were also taken from private water supply facilities in East Berlin. The AOX values for East Berlin are partially samples from the well galleries of waterworks; they do not necessarily originate from the first groundwater level.
- Values used for West Berlin were, except for pesticides, the mean values from 2 to 3 samples from 1989. Oxidability values were from 1988. Values used for East Berlin were also the mean values from analysis results from 1989. Up to 5 samples for individual measuring sites were available. They were supplemented by measuring points whose data was collected in the course of hydrological exploration work from 1988-1991. The depiction of pesticides is based on individual investigations from 1990 and 1991.
- The map gives an overview of the distribution of impacts in the city. Locally limited pollution, such as from old contaminated sites, were not registered by the measuring sites.

Scale: 1 : 50 000



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