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**TCXD**

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**CONSTRUCTION STANDARDS**

**20 TCXD 188: 1996**

**URBAN WASTEWATER – WASTE STANDARD**

**(This translation is for reference only)**

**HA NOI - 1996**

## Urban waste water – Waste standard

### 1. Scope

- 1.1 This standard specifies the critical value of parameters and content of substances in urban wastewater composition.
- 1.2 This standard is used to control the wastewater quality before being discharged into waster sectors which planned as raw water used for water treatment works to serve eating and living (Called the A type source) and common drainage system of the city (called the B type source).
- 1.3 This standard does not apply to other areas, for example: aquaculture sector, transportation, agriculture, tourism services ...

### 2. Limit value

- 2.1 Limit values of parameters and content of substances in urban wastewater composition discharged into A and B type source must be consistent with the regulations in Table 1.
- 2.2 The parameter values and component concentrations in the urban waste water equal to or less than the value specified in column A may be discharged into water sector used for domestic water supply.
- 2.3 The parameter values and component concentrations in the urban waste water equal to or less than the value specified in column B may be discharged into common drainage system of the city
- 2.4 The parameter values and component concentrations in the urban wastewater more than the value specified in column B, it is necessary to treat before being discharged into the environment.
- 2.5 The other parameters in Table 1 are taken from TCVN 5945: 1995
- 2.6 Sampling methods, analysis, calculation, and determining each parameter and specific concentration specified in the respective Vietnam national standard.

**Table 1 - Urban Wastewater**  
**Limit values of parameters and pollutant concentrations**

Number	Parameter	Unit	Limit value	
			Type A	Type B
1	2	3	4	5
1.	Temperature	°C	40	40
2.	PH		6.0-9.0	5.0-9.0
3.	The color	Pt/Co	20	50
4.	Turbidity	NTU	50	100
5.	Suspended solids total	mg/l	50	100
6.	Dissolved solids total	mg/l	1000	3000
7.	Demand for COD Chemical Oxygen	mg/l O <sub>2</sub>	50	100
8.	Demand for BOD <sub>5</sub> biological oxygen	mg/l O <sub>2</sub>	20	50
9.	Chloride Cl <sup>-</sup>	mg/l	250	1000
10.	Sulphate SO <sub>4</sub> <sup>-</sup>	mg/l	200	1000
11.	Nitrite NO <sub>2</sub> <sup>-</sup>	mg/l	0.1	2.0
12.	Nitrate NO <sub>3</sub> <sup>-</sup>	mg/l	50	-
13.	Fluoride F <sup>-</sup>	mg/l	1.0	2.0
14.	Calcium Ca	mg/l	150	200
15.	Magnesium Mg	mg/l	100	200
16.	Iron Fe	mg/l	1.0	5.0
17.	Manganese Mn	mg/l	0.2	1.0
18.	Copper Cu	mg/l	0.2	1.0
19.	Lead Pb	mg/l	0.1	0.5
20.	Zinc Zn	mg/l	1.0	2.0
21.	Chromium 3 valence (Cr <sup>3+</sup> )	mg/l	0.2	1.0
22.	Chromium 6 valence (Cr <sup>6+</sup> )	mg/l	0.05	0.1
23.	Mercury Hg	mg/l	0.005	0.005
24.	Nickel Ni	mg/l	0.2	1.0
25.	Arsenic As	mg/l	0.02	0.1

26.	Cadmium Ca	mg/l	0.01	0.02
27.	Selenium Se	mg/l	0.01	0.5
28.	Silver Ag	mg/l	0.1	1.0
29.	Phenolate	mg/l	0.001	0.05
30.	Cyanide CN <sup>-</sup>	mg/l	0.05	0.1
31.	Mineral oil	mg/l	0.001	1.0
32.	Detergents	mg/l	0.5	1.5
33.	Radioactivity total of $\alpha$	mg/l	0.1	-
34.	Radioactivity total of $\beta$	mg/l	1.0	-
35.	Residual Chlorine	mg/l	1.0	2.0
36.	Coliforms	N/100ml	5000	10000

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