

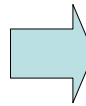
From the system of regulation area to nationwide regulation

The Water Pollution Control Law defines a facility discharging polluted water or wastewater as “specified facility” and makes all plants, factories, business establishment having a specified facility legally subject to regulations by the Water Pollution Control Law.

Specified facility (defined by Attached Table 1 of the Enforcement Order of the Water Pollution Control Law)

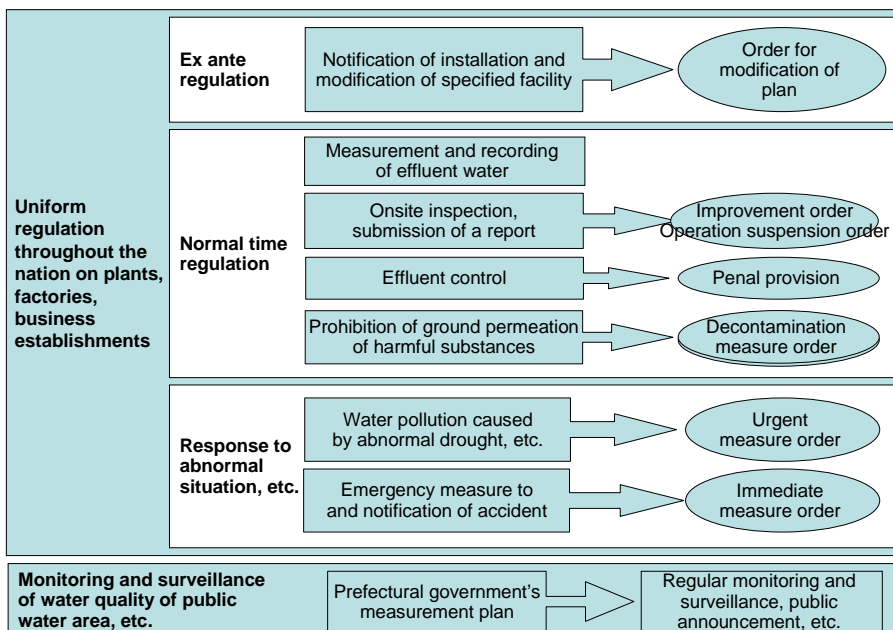
Example:

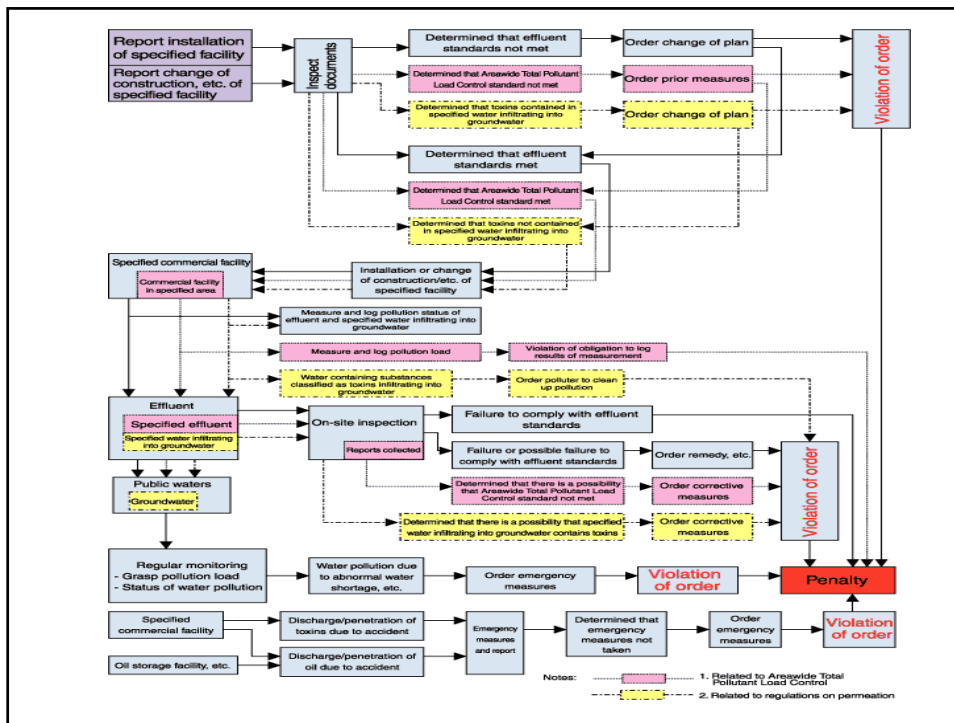
- Facility used for the mining industry, etc.
- Facility used for the livestock farming industry, etc.
- Facility used for various food manufacturing industries, etc.
- Facility used for the forestry industry, etc.
- Facility used for the pulp manufacturing industry, etc.
- Facility used for the medicine manufacturing industry, etc.
- Facility used for the cement manufacturing industry, etc.
- Facility used for the iron and steel industry, non-ferrous metal manufacturing industry, etc.
- Facility used for other various manufacturing industries
- Facility used for the hotel business, food and beverage serving business, laundry and dry cleaning business, photo development industry, hospital, science and technology research establishment
- Waste treatment facility
- Sewage system terminal processing facility, common wastewater treatment plant, etc.



About 290 thousand business establishments are subject to regulation as of the end of fiscal 2005.

System of the Water Pollution Control Law





Uniform effluent standard and the special standard stricter than national standard

National uniform effluent control (national uniform minimum regulation)

Health item
Applicable to all business establishments

Living environment item
Applicable to business establishments discharging 50 m³/day or more effluent water

Prefectural governments can apply stricter standards depending upon their situations of water pollution.

Ways to strengthen regulation

Local government's additional requisites

In such case that the national uniform effluent control is not enough to achieve the environmental quality standard, the prefectural government can strengthen the values of effluent standard by the power of local ordinance.

Downward extension of regulation by prefectural governments

This is to apply the living environment items of the effluent standard to small-scale business establishments discharging effluent water less than 50 m³/day.

Item-wise extension of regulation by prefectural governments

Regulation by prefectural governments on items not regulated by the national uniform effluent control.

[Health item]

Kinds of harmful substances	Tolerable limit
Cadmium and its compounds	0.1 mg/L
Cyanide compounds	1 mg/L
Organic compound (limited to parathion, methyl parathion, methyl demeton and EPN (ethyl p-nitrophenyl phenylphosphorothioate))	1 mg/L
Lead and its compounds	0.1 mg/L
Hexavalent chromium compounds	0.5 mg/L
Arsenics and its compounds	0.1 mg/L
Mercury and alkyl mercury, and other mercury compounds	0.005 mg/L
Alkyl mercury compounds	Not detected
Polychlorinated biphenyl	0.003 mg/L
Trichloroethylene	0.3 mg/L
Tetrachloroethylene	0.1 mg/L
Dichloromethane	0.2 mg/L
Carbon tetrachloride	0.02 mg/L
1,2-dichloroethane	0.04 mg/L
1,1-dichloroethylene	0.2 mg/L
cis-1,2-dichloroethylene	0.4 mg/L
1,1,1-trichloroethane	3 mg/L
1,1,2-trichloroethane	0.06 mg/L
1,3-dichloropropene	0.02 mg/L
Thiram	0.06 mg/L
Simazine	0.03 mg/L
Thiobencarb	0.2 mg/L
Benzene	0.1 mg/L
Selenium and its compounds	0.1 mg/L
Boron and its compounds	Other than sea area: 10 mg/L Sea area: 230 mg/L
Fluorine and its compounds	Other than sea area: 8 mg/L Sea area: 1 mg/L
Ammonia, ammonium compounds, nitrite compounds and nitrate compounds	(*) 100 mg/L

(*) 0.4 times the ammonia nitrogen compound, and the total of nitrite nitrogen and nitrate nitrogen

[Living environment item]

Kinds of harmful substances	Tolerable limit
Hydrogen ion concentration (pH)	Other than sea area: 5.8 – 8.6 Sea area: 5.0 – 9.0.
Biochemical oxygen demand (BOD)	160 mg/L (Daily mean value: 120 mg/L)
Chemical oxygen demand (COD)	160 mg/L (Daily mean value: 120 mg/L)
Suspended solids (SS)	200 mg/L (Daily mean value: 150 mg/L)
Normal-hexane extracts content (mineral oils content)	5 mg/L
Normal-hexane extracts content (animal and plant fats content)	30 mg/L
Phenols content	5 mg/L
Copper content	3 mg/L
Zinc content	2 mg/L
Soluble iron content	10 mg/L
Soluble manganese content	10 mg/L
Chromium content	2 mg/L
Coliform group number	Daily mean value: 3,000/cm ³
Nitrogen content	120 mg/L (Daily mean value: 60 mg/L)
Phosphorus content	16 mg/L (Daily mean value: 8 mg/L)

Note

The effluent standard shown in this table is applicable to the effluent water discharged by a plant, factory, or business establishment which discharges 50m³/day or more of effluent water on daily average.