

## TRADE WASTE BRANCH

### STANDARDS OF ACCEPTANCE OF LIQUID WASTE TO SEWER

The nature and levels of the components and characteristics of liquid waste shall comply with the following specifications. However, local conditions may necessitate further restraints on the liquid waste quality.

All concentrations indicated in this document refer to the discharger's trade waste quality independent of "domestic" wastewater.

Any substance not listed below is prohibited from discharge to any of SA Water's wastewater systems without prior written approval from SA Water's Trade Waste Branch.

Compliance with these Standards will be assessed from samples collected at the outlet of any trade waste pre-treatment device. Trade wastes not affected by pre-treatment processes will be sampled at source.

### PHYSICAL CHARACTERISTICS

<b>Temperature</b>	Not to exceed 38 <sup>0</sup> C
<b>Volume and Flow Rate</b>	Acceptance standards to be determined by reference to the receiving wastewater network capacity
<b>Colour</b>	Subject to requirements determined by the Trade Waste Branch
<b>Odour</b>	Subject to requirements determined by the Trade Waste Branch

## CHEMICAL CHARACTERISTICS

<b>Biochemical Oxygen Demand BOD<sub>5</sub> (5 days)</b>	Acceptance standard determined by the treatment capacity of the wastewater treatment plant
<b>Grease and Oil</b>	Not to exceed 100 mg/L
<b>pH</b>	Within the range 6 – 10 units
<b>Suspended Solids (SS)</b>	Not to exceed 1000 mg/L or a daily average of 500 mg/L
<b>Total Dissolved Solids (TDS)</b>	Acceptance standards determined by the reuse of effluent 1500 mg/L

<b>Metals</b>	Concentration mg/L	<b>Metals</b>	Concentration mg/L
<b>Aluminium (Al)</b>	100	<b>Lead (Pb)</b>	10
<b>Barium (Ba)</b>	20	<b>Manganese (Mn)</b>	10
<b>Boron (B)</b>	25	<b>Mercury (Hg)</b>	1
<b>Cadmium (Cd)</b>	10	<b>Nickel (Ni)</b>	10
<b>Chromium Total (Cr)</b>	20	<b>Silver (Ag)</b>	2
<b>Chromium Hexavalent (Cr<sup>6+</sup>)</b>	10	<b>Tin (Sn)</b>	50
<b>Copper (Cu)</b>	10	<b>Zinc (Zn)</b>	10
<b>Iron (Fe)</b>	100		

<b>Other Substances</b>	Concentration mg/L	<b>Other Substances</b>	Concentration mg/L
<b>Ammonia &amp; Ammoniacal ion (as NH<sub>3</sub>)</b>	50	<b>Total petroleum hydrocarbons</b>	30
<b>Chlorine as Cl<sub>2</sub></b>	5	<b>Phenolic compounds (as Phenol)</b>	100
<b>Cyanide as CN</b>	5 (see note 1)	<b>Phosphorous compounds (as total P)</b>	100
<b>Enzymes etc</b>	(see note 2)	<b>Radioactive substances</b>	(see note 3)
<b>Formaldehyde as HCHO</b>	50	<b>Sulphate (SO<sub>4</sub>)</b>	1500
<b>Flammable Substances</b>	(see note 4)	<b>Sulphide (S)</b>	5
<b>Herbicides</b>	(see note 4)	<b>Sulphite (SO<sub>3</sub>)</b>	15
<b>Pesticides</b>	(see note 4)		

## PROHIBITED SUBSTANCES

Substances (such as fibrous material, large solid particles, materials likely to polymerise) that could block or otherwise be detrimental to the operation of the sewerage system

Substances (such as volatile solvents) that could generate hazardous gases or vapours in the sewerage system

Chlorinated Hydrocarbons

Discrete oil or other materials that are immiscible with water

## NOTES

1. Discharge from cyanide bath is accepted only after detoxification (the acceptable level of 5mg/L in the table above refers to rinses only). Cyanide is defined as cyanide which may be destroyed by alkaline chlorination.
2. The use of solvents, enzymes, genetically modified bacteria, or odour control agents in pre-treatment facilities is prohibited unless approved by the Trade Waste Branch.
3. Radioactive liquid waste limits shall comply with the provisions set by the Environment Protection Agency's Radiation Protection Branch (phone 8463 7825).
4. The Trade Waste Branch will determine specific discharge limits for contaminants in these groupings.