

## ANALYTICAL PARAMETERS REQUIRED FOR COMPREHENSIVE REPORTING

PARAMETER – mg/l	
E.coli (per 100 ml)	
pH	5 - 8
Conductivity (mS/m)	
Chemical Oxygen Demand COD (mg/l)	500
Oxygen Absorbed OA (mg/l)	50
Suspended Solids SS (mg/l)	275
Alkalinity As CaCO <sub>3</sub> (mg/l)	220
o-Phosphate PO <sub>4</sub> -P (mg/l)	10
Ammonia NH <sub>3</sub> -N (mg/l)	30
Nitrate NO <sub>3</sub> -N (mg/l)	<0.5
Oil and Grease (mg/l)	5 – 10

### SOUTH AFRICAN STANDARDS

**TABLE 3.2: Wastewater limit values applicable to discharge of wastewater into a water resource**

SUBSTANCE/PARAMETER	GENERAL LIMIT	SPECIAL LIMIT
Faecal Coliforms (per 100 ml)	1 000	0
Chemical Oxygen Demand (mg/l)	75*	30*
PH	5,5-9,5	5,5-7,5
Ammonia (ionised and un-ionised) as Nitrogen (mg/l)	6	2
Nitrate/Nitrite as Nitrogen (mg/l)	15	1,5
Chlorine as Free Chlorine (mg/l)	0,25	0
Suspended Solids (mg/l)	25	10
Electrical Conductivity (mS/m)	70 mS/m above intake to a maximum of 150 mS/m	50 mS/m above background receiving water, to a maximum of 100 mS/m
Ortho-Phosphate as phosphorous (mg/l)	10	1 (median) and 2,5 (maximum)
Fluoride (mg/l)	1	1
Soap, oil or grease (mg/l)	2,5	0
Dissolved Arsenic (mg/l)	0,02	0,01
Dissolved Cadmium (mg/l)	0,005	0,001
Dissolved Chromium (VI) (mg/l)	0,05	0,02
Dissolved Copper (mg/l)	0,01	0,002
Dissolved Cyanide (mg/l)	0,02	0,01
Dissolved Iron (mg/l)	0,3	0,3
Dissolved Lead (mg/l)	0,01	0,006
Dissolved Manganese (mg/l)	0,1	0,1
Mercury and its compounds (mg/l)	0,005	0,001
Dissolved Selenium (mg/l)	0,02	0,02
Dissolved Zinc (mg/l)	0,1	0,04
Boron (mg/l)	1	0,5

\* After removal of algae