

Our SHE goals and performance

Emissions to the Water

Our on-going efforts to reduce our planned emissions to water are reflected in the 98.5% reduction in total organic carbon (TOC) emissions in metric tons per CHF 1 million of sales since 1992.

In 2014 we started to track our water discharge destinations. The data show that approx. 75% of the water that we withdraw is finally discharged to surface water and thus reusable.

Table 1: Water Discharge and Effluents

Destination	Volume of water discharged (Mio. m³)	Percent of Total Withdrawn
Ground Water	0.05	0.32
Surface Water	12.00	72.24
Salt Water	1.19	7.16
Brackish Water	0.10	0.60
Third Party	1.13	6.81

Instead of just measuring the quantity of organic carbon compounds in the waste water we are more interested in the toxicity of these compounds. Our long-term goal is to reduce total wastewater toxicity by 10% in 2020 from a 2015 baseline. In the meantime, we continue to investigate reliable performance indicators and measurement methods for establishing that baseline and strive to stabilise water consumption throughout the Group.

TOC Emissions

We discharged 185 metric tons of TOC into surface waters in 2018. The elimination rates of waste water treatment plants used but not run by Roche were reconfirmed during the year thus providing more accurate information on the amount of TOC actually released into the environment.

Heavy metals emissions

After waste water purification, total heavy metal emissions to water were 149 kg in 2018, an increase of 15% over 2017.

Emissions to water

