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| **TARGET 6.3:** By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally.**INDICATOR 6.3.1D:** Proportion of water containing waste safely treated and lawfully discharged. |
| **Indicator definition and method of computation (MoC)** |
| **DEFINITION:** Measures thechange in the proportion (% Volume in Ml/annum) of water containing waste produced by households and economic activities, that is no longer required by the water user [*i.e.* that is not reused or recycled], that is discharged in compliance with the conditions of an authorisation (lawfully) where such authorization is adequately linked to instream (resource) water quality objectives (safely). The term lawfully implies that the discharge of water containing waste (1) is permissible in terms of the relevant legislation of South Africa and (2) complies with the conditions (applicable water quality standards) contained in the relevant authorisation. | **MoC:** Calculated by dividing the total volume of water containing waste treated by Waste Water Treatment Works (WWTW) that is authorised and compliant to the water quality conditions in their authorisations, into the total volume of water containing waste discharged over a 12 month period. Ninety percent (90%) compliance to the water quality parameters per WWTWs, per month, is regarded as compliant for that month:𝐶𝑤𝑞 = (VL/VT)× 100Where:𝐶𝑤𝑞 is the percentage compliance [%];VL is the volume that is saftely treated and lawfully discharged (i.e that is authorised and compliant to the conditions of the authorisation);VT is the total volume of water conating waste that is discharged |
| **Baseline indicator value: 52%** |
| Source: Green Drop System, Department of Water and Sanitation\*Base year = 2017 |
| **Comments:**While the definition conceptually includes wastewater generated from all economic activities, monitoring will initially focus on the proportion of sewage that is safely treated by municipal Sewage Treatment Works: The Baseline indicator value measures the volume of water containing waste treated by municipal WWTW that is 90% compliant to a treatment standard for 8 selected water quality parameters over a 12 month period (ending January 2017).Data is based on results from 893 municipal Waste Water Treatment Works as captured in the departmental Green Drop System (GDS by municipalities). The total volume of water containing waste treated is calculated as the sum of the *operating capacities* of all waste water treatment works. Only 85% of municipal waste water treatment works updated this data element. In addition, monitoring compliance for wastewater for the 12 month period ending January 2017 is reported at 45%.Data presented represents the proportion of water containing waste that complies to either generic or special limits or the authorised limits (where the authoristed limits are in place) for 8 water quality parameters. In terms of discharge that is lawfully permitted, 38% of South Africa’s Municipal Waste Water Treatment works were authorised to discharge water containing waste (2017 data). The volume discharged of the authorised works is however not available at present.Household waste and waste from economic activities are not monitored separately. Data on wastewater generated from hazardous industries is not available at present. |