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Season affects the water quality index of Ganga River in Kanpur, UP

Sunita Verma, Divya Tiwari and Ajay Verma
Christ Church College Kanpur, India

Ten important physicochemical parameters were estimated to ascertain the seasonal effects on water quality of Ganga River for public consumption. Parameters were estimated over two years to quantify the changes over the years in weighted water quality index. Water quality index calculated based on pH, conductance, TDS, chlorides, nitrate, sulfate, phosphate, alkalinity, hardness, BOD and DO. Maximum phosphate value was seen in rainy season i.e. 0.54 mg/L while maximum in rainy season i.e. 0.72 mg/l. Value of sulfate concentration ranged within 32.9-45.5 mg/l. Dissolved oxygen varied from 5.6-4.9 mg/l. BOD values are 20-23 mg/l above the prescribed limits.

sunitaverma2k11@gmail.com