**A Statistical Expedition on the Characteristics of Textile Wastewater Assessing the Aftermath on Environment and Urban Civilization**

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**Abstract**: This research is an extensive statistical analysis of the properties of textile wastewater using data based on the negative effects of textile wastewater on the environment and the urban ecosystem. Stated within the framework of the previous research, which concerns the chemistry and biology of textile wastewater, this investigation aims to add value to the existing insight into the multiple connections between textile wastewater characteristics on the one hand and environmental and social impacts of textile production on the other. Through a parallel mixed methodology involving laboratory analysis of wastewater samples together with survey and interviews from affected community in urban areas using textile wastewater pollution, this study found out that there is a positive relationship between waste characteristics and pollution impacts on the environment and human health in general and the urban affected communities in particular. These findings support the need for improved textile wastewater policies and practices, indicating that more efficient and effective policies and actions need to be implemented through the cooperation of the industry actors, government, and communities to reduce the negative impact of textile wastewater on the environment and society.