

ARKAVATHI POLLUTION ANALYSIS

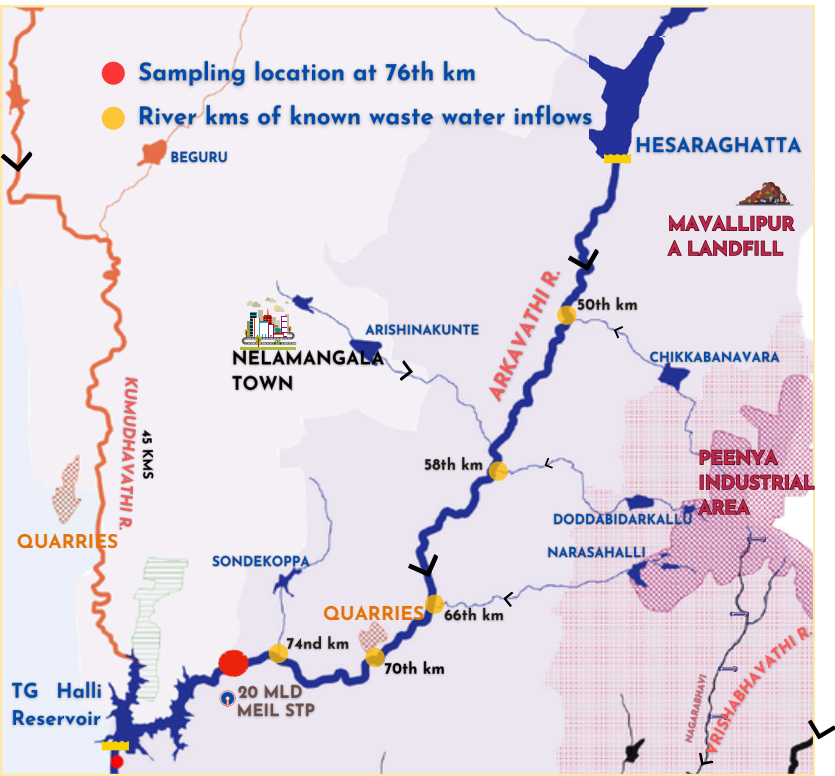
With government proposals to expand treatment and use of Arkavathi River water in Bangalore, it is important to identify, monitor, and stop the spread of harmful pollutants. The results below show trends in pollution at site 104, one of eight Arkavathi sites where Paani conducted sediment and water testing.

TESTING INFORMATION

SITE 104

 76TH KILOMETER
UPSTREAM OF
TG HALLI RESERVOIR

 28
FEB
2024




POLLUTANTS OF CONCERN

Water and soil tested at this site did not meet international standards for pollution due to high amounts of harmful chemicals.

Cr(VI)
Hexavalent chromium


Industrial Carcinogen causes cancer & skin irritation



100x above
Canada Water Quality Guidelines (Aquatic Life)

DDT


Illegal Pesticide toxic to aquatic life, endocrine disruptor



75x above
EU Water Quality Standards

Hg
Mercury


Poisonous Metal harms nervous, digestive, and immune systems



16x above
Canada Sediment Quality Guidelines (Aquatic Life)


C₂₂H₁₄
Dibenz[a,h]anthracene


PAH causes skin & eye irritation




497x above
US Recommended Water Quality Criteria (Human Health)

KEY

 Industry

 Agriculture

 Various sources

APPROPRIATE USE FOR WATER AT SITE

Water tested did not meet Central Pollution Control Board guidance

CPCB Designated-Best-Use of Sample

A	B	C	D	E	N/A
---	---	---	---	---	-----

Due to high levels of ammonia, Biochemical Oxygen Demand* (3 day) and Electrical Conductivity, water sampled was not suitable for drinking, fishing, irrigation, nor any of the Designated-Best-Uses.

ACTIVITIES AT SITE

Activity + Designated-Best Use		Points of Concern
TG Halli water supply	C	Do current treatment levels address pollutants of concern?
Contract fishing in reservoirs	D	Mercury and DDT may harm fish and transfer to humans through consumption
Irrigation on private farms	E	Farm workers may be exposed to pollutants, and crops may be contaminated

SITE 104 IMAGES



Water hyacinth infested river channel



Foaming downstream of sample point