

ARKAVATHI POLLUTION ANALYSIS

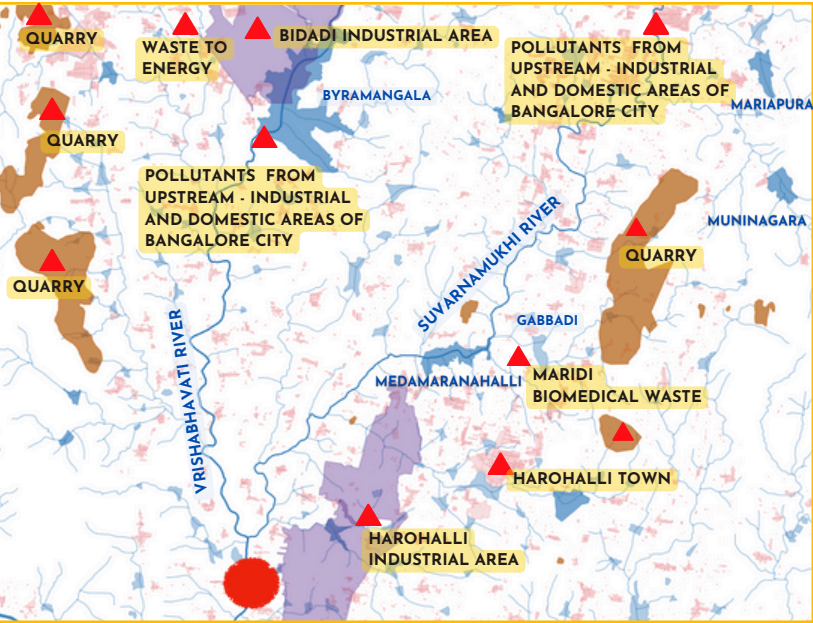
With government proposals to expand treatment and use of Arkavathi River water in Bangalore, it is important to identify, monitor, and stop the spread of harmful pollutants. The results below show trends in pollution at site 102, one of eight Arkavathi sites where Paani conducted sediment and water testing.

TESTING INFORMATION

SITE 102

 DOWNSTREAM OF RISING SUN ANECUT, VRISHABHAVATI

 28 FEB 2024



Agriculture along with industrial activity, waste from built-up areas, and quarries contribute to the pollution.

 Built-up Area

 Drainage lines

 Sampling location

 Potential pollution sources

 Quarry


 Industrial area

POLLUTANTS OF CONCERN

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

NH3
Ammonia


Toxic Chemical causes skin and throat irritation



157x above
Canada Water Quality Guidelines (Aquatic Life)

DEHP
Bis(2-ethylhexyl) phthalate


PAH plasticizer, damages liver & reproductive system



66x above
US Recommended Water Quality Criteria (Human Health)

Hg
Mercury


Poisonous Metal harms nervous, digestive, and immune systems



23x above
Canada Sediment Quality Guidelines (Aquatic Life)


C22H14
Dibenz[a,h]anthracene


PAH causes skin & eye irritation




184x above
US Recommended Water Quality Criteria (Human Health)

KEY

 Industry

 Agriculture

 Various sources

APPROPRIATE USE FOR WATER AT SITE

Water tested was only suitable for Central Pollution Control Board Class E

CPCB Designated-Best-Use of Sample

X

B

C

D

E

N/A

Due to high levels of ammonia and Biochemical Oxygen Demand* (3 day), water sampled at site 102 was only suitable for irrigation per CPCB guidelines.

ACTIVITIES AT SITE

Activity + Designated-Best Use	Points of Concern
Irrigation of private farmlands	<div>E</div> While this water met designated best use criteria, the effects of harmful chemicals on farm worker and crop health should be evaluated

SITE 102 IMAGES

Water hyacinth in river channel

Sample collection

paani.earth/rivers/arkavathi-river 