

TECHNICAL EFFECTIVENESS



How important is the technical effectiveness of a water treatment system?

- For this, consider:
 - Turbidity control
 - Effectiveness at improving microbiological quality
 - Effectiveness at improving chemical quality

AVAILABILITY



How important is the local availability of materials and a supply chain to support a water treatment system?

- For this, consider:
 - How many materials are required for the operation of the water treatment option
 - Local production vs. need to import
 - Existing or potential supply chains
 - Problematic transport of heavy or fragile materials
 - Requirements for electrical supply

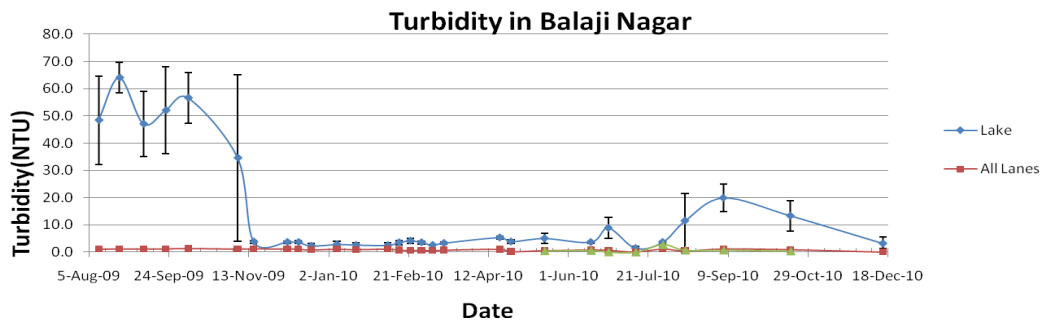
RELIABILITY



How important is it that the water treatment system be able to consistently produce water of a certain quality?

- For this, consider:
 - How ‘fail-safe’ the water treatment option is expected to be
 - Whether the performance of the water treatment option is contingent upon external or environmental factors

ROBUSTNESS



How important is it that the water treatment system be able to effectively handle different influent waters (i.e. different water quality)?

- For this, consider varying levels of influent...
 - Turbidity
 - Microbiological contamination
 - Organics

ABSENCE OF ENVIRONMENTAL HAZARDS



How important is it that the water treatment system not present additional environmental hazards as well as be environmentally sustainable?

- For this, consider:
 - The need to extract limited resources for its operation
 - Whether over-extraction of renewable resources is a possibility
 - Wastes produced from the water treatment system that need to be disposed of, including hazardous waste products

RECONTAMINATION RISK



How important is it that the water treatment system mitigate against recontamination?

- For this, consider:
 - The need for chemical residual protection (i.e. chlorine)
 - The use of an appropriate safe storage container for the water

ABSENCE OF ADDITIONAL HAZARDS



How important is it that the water treatment system not present additional hazards?

- For this, consider:
 - Both the home or a small plant setting
 - Burn injuries, storage and use of hazardous chemicals, large items falling, presence of children in the home