



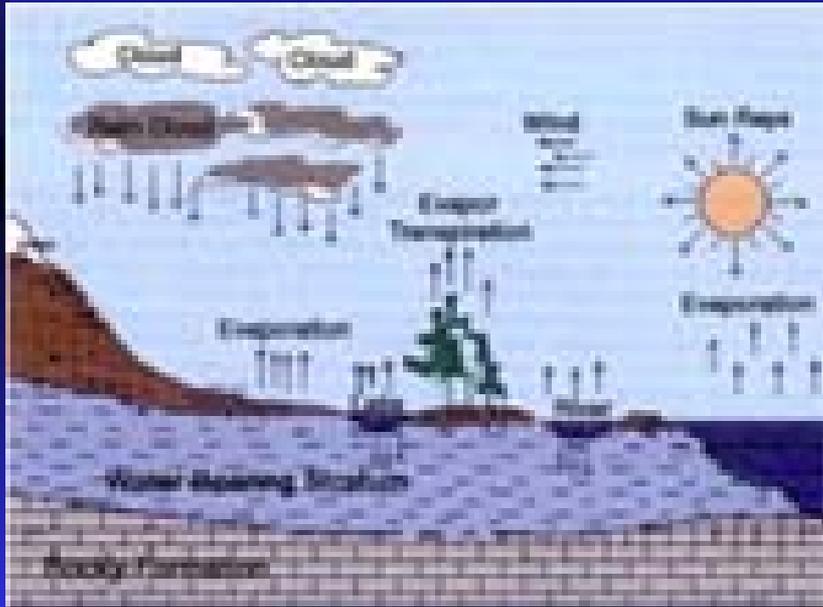
Rainwater Harvesting

Lionel Michael

Chief Health Inspector



21st century potential problems



- rising sea levels
- more costly energy supplies
- adequate useable water supply

DETAIL ISSUES

- partnership between CEHI and CBH on the selection of potential 'candidate demonstration sites.
- education program
- disinfecting chemicals in the rainwater storage facilities
- water-holding vessels - mosquito breeding containers

Microbiological characteristics

- total coliform - 'indicator'
- fecal coliform - 'presence of animal waste'

harvested water not be used for potable purposes

there be absolutely no physical connection between a harvested-water system and the APUA system.

Physical & chemical characteristics

- "Maximum contaminant level," (MCL)
 - ◆ inorganics ranging from barium to sulfate
 - ◆ organics, pesticides and herbicides,
 - ◆ disinfectant and disinfectant byproducts
 - ◆ lead and copper

Physical & chemical characteristics

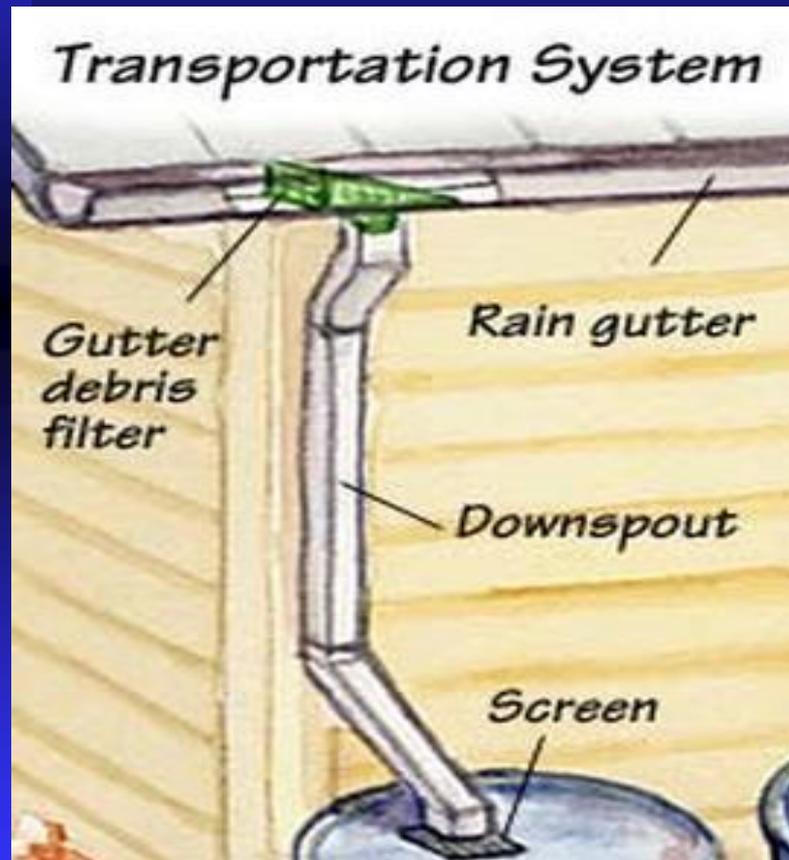
- Iron content

- ◆ aesthetic concern - stain fittings such as sinks and toilet bowls.

- zinc



harvested rainwater



- 'soft' water
- 'dirt' of various kinds, leaves and twigs
- color, taste, and odor

Questions



- leakage loss through the national water distribution system
- reduced-flush toilets mandated
- ‘secondary’ water sources such as wastewater treatment plant effluents

Questions



- reforestation and improved diversion of runoff
- surficial soil amendments created from the organic fraction of the waste stream