

Rural Water Supply Construction

Inter Aide Standards and Innovations



1) Springs -

Frequently observed Weaknesses



**Surface capping: light excavation:
Water quality not guaranteed**

Spring catchment – Example of Inter Aide Standards



**Spring Outside View:
Close protection and catchment perimeter
fenced (against animals)**



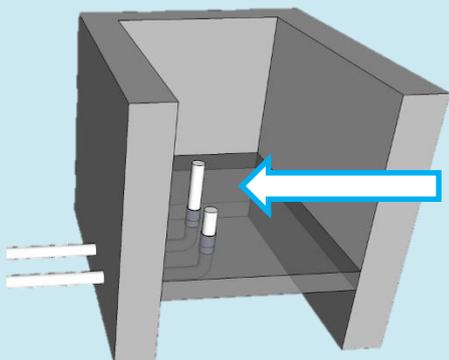
Spring Catchment Box Inside View

Springs – Inter Aide Standards

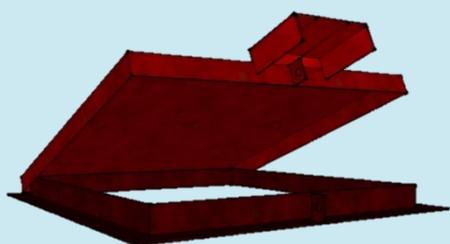
Deep Excavation to insure:
- Water preferential path is toward spring Box
- Good spring water quality



Vegetative or
Constructed upstream
protection
(Fence not visible on this
photo)



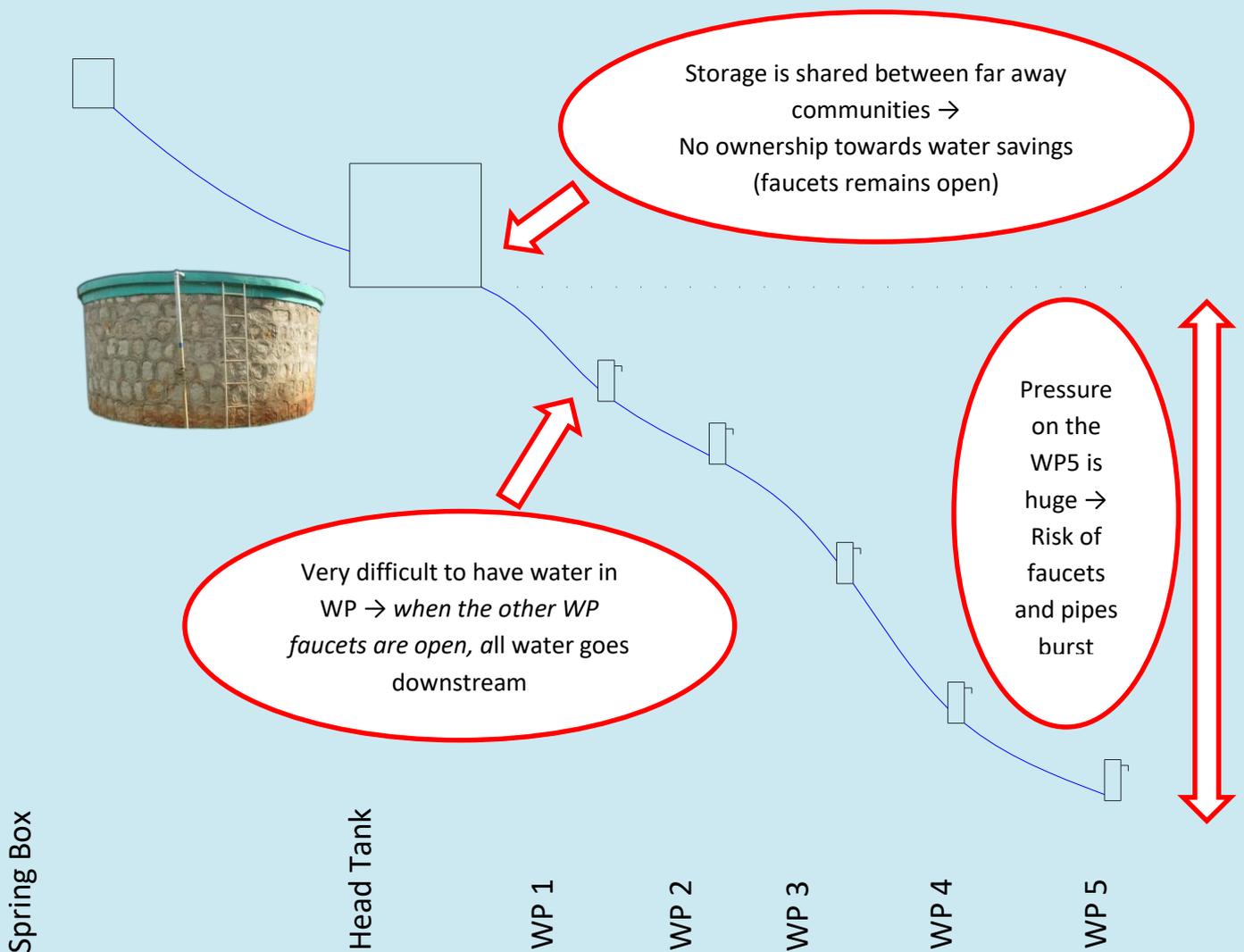
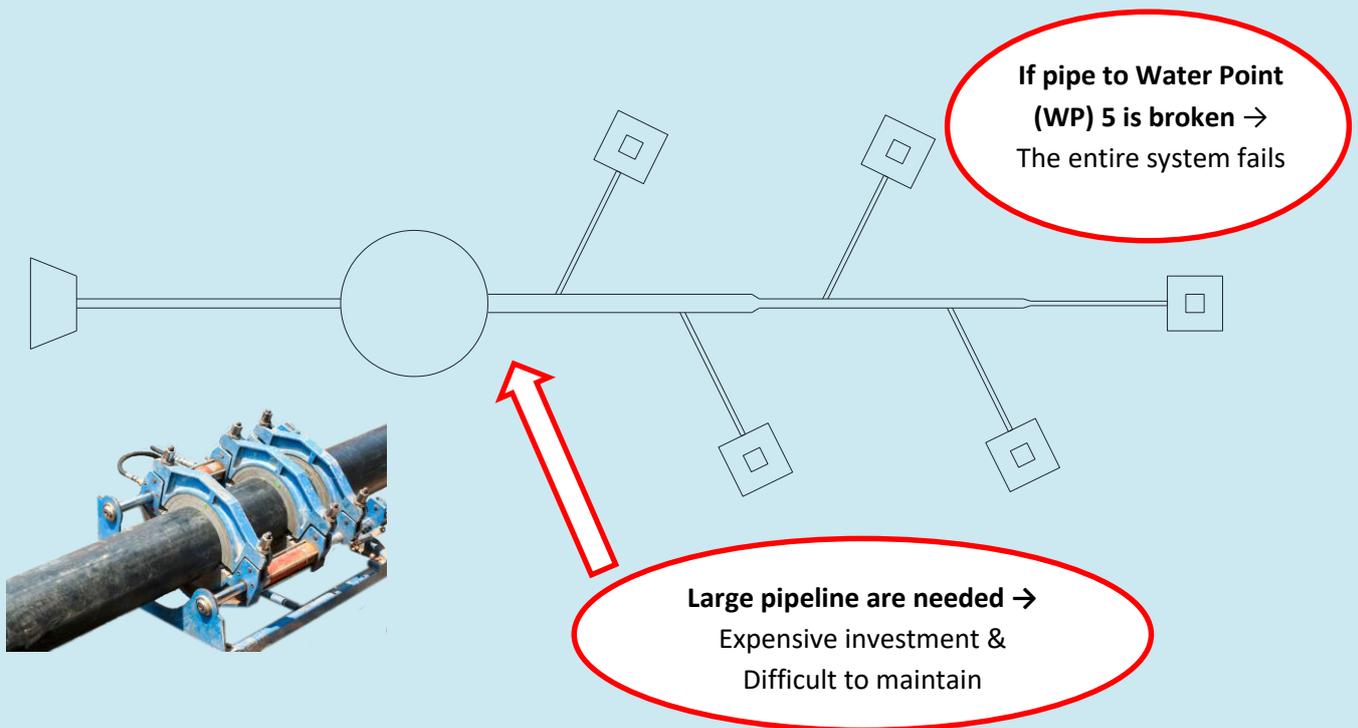
Removable overflow
pipe serve as simple
and robust washout
for easy cleaning
operations



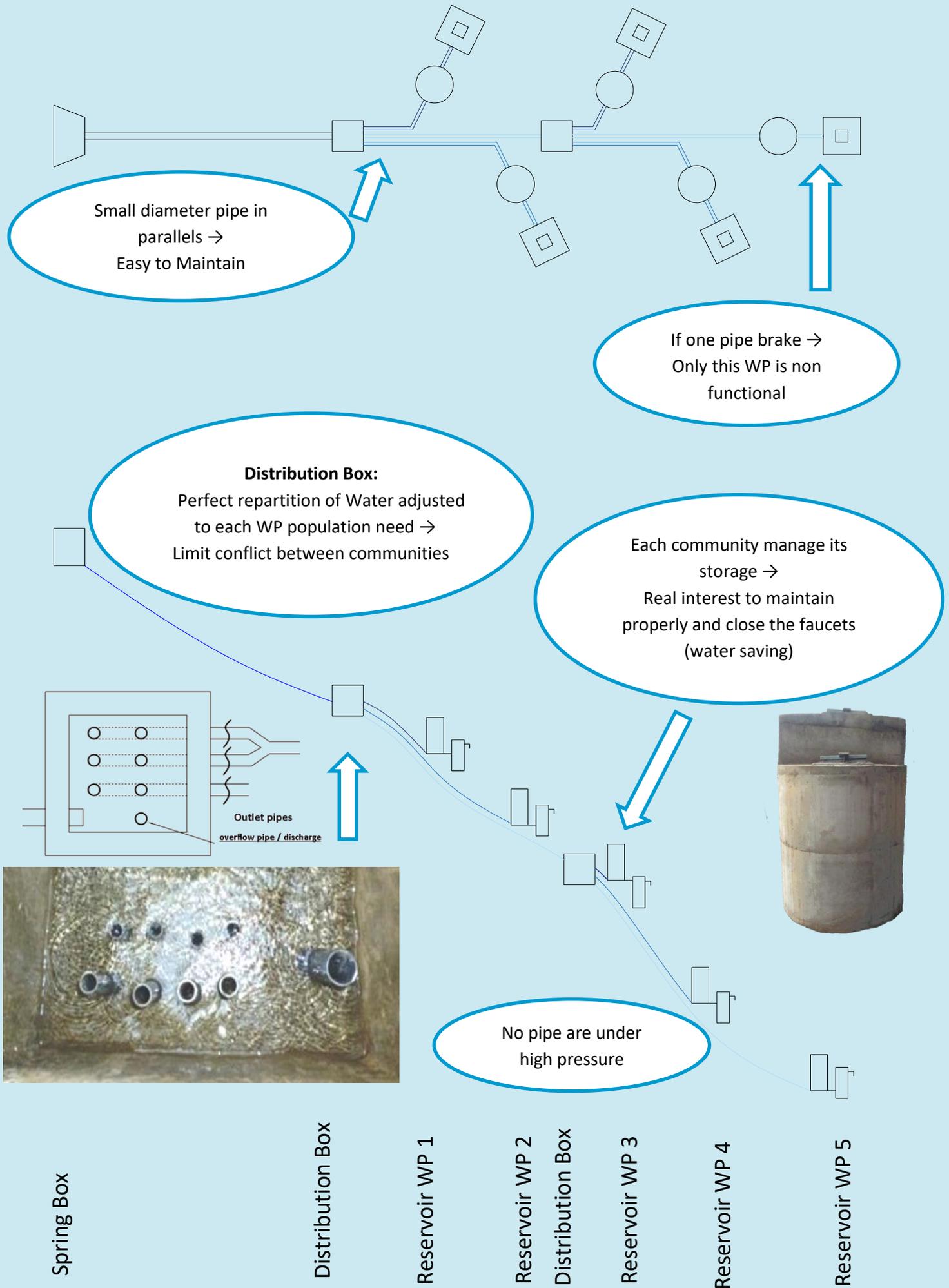
Strong Metallic door with
padlock allows easy access
for regular cleaning the
of spring catchment box.



2) Network – classical design in rural areas

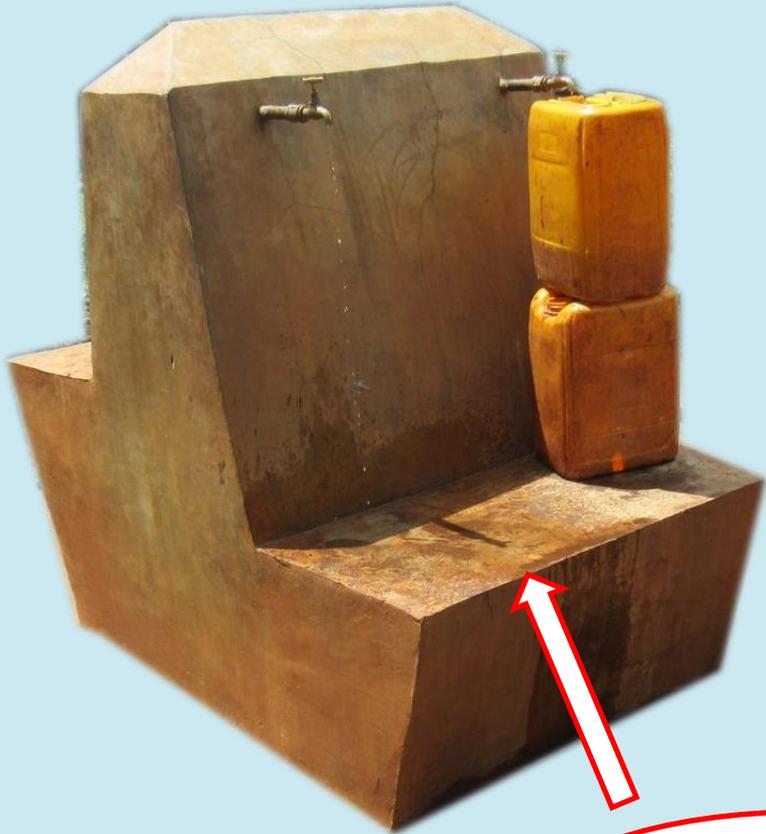


Network - Inter Aide Design



3) WP – Classical Design Weaknesses

Masonry construction → Low resistance to water erosion → Not durable



No cattle trough → Permanence of cattle water borne diseases



No Reception for Water → Unclean & Rapid WP deterioration



WP – Inter Aide Design

Wash Table for laundry



Evacuation funnel to cattle trough →
Clean & efficient reuse of water

Strong casted concrete construction →
Resistant & durable

Access to clean water in cattle trough →
Improved breeding performances

