

Kenya: Saving Lives with Safe Water



Problem: Up to 50% of the hand pumps in Africa are non-functioning (World Bank).

Affordable Solution: Repairing the existing hand pumps versus drilling new wells.

- Easy to train
- Requires simple tools
- On average, costs \$20 to repair a hand pump seal versus \$17,000 for a new well.

Problem: In developing countries, 80% of all diseases are caused by contaminated water (Center for Disease Control). In Kenya, 20% of children will die before age 5 due to waterborne diseases (WHO)

Affordable Solution: M-100 Water Purifier

- Sets up in only five minutes
- Operates off a 12 volt battery and a handful of salt
- Can Purify more than 10,000 gallons of water per day

Proposal: Raise \$1,000,000 to send 150 water purification systems and establish a mobile water treatment and hand pump repair school to reach 1,000,000 people.

Location: Kenya

Objectives:

1. Install 150 complete water purifier systems
 - Includes M-100 water purifier
 - Tank
 - Accessories
 - Filtration as needed
 - Training
 - Each water purification system will provide safe water to 1,000 + people in villages
2. Train up to 100 local teams to build micro business in water treatment and hand pump repair.
 - Each team will consist of at least 4 people
 - Each team will receive a complete hand pump repair tool kit
 - Each team will be able to repair a minimum of 2 hand pumps per week.
 - Total number of hand pumps repaired in one year is approximately 1,000
 - Assume each hand pump will serve 1,000 people
 - Total number of people served may reach as high as 1,000,000.



Partner in Kenya: Kenyan Kids Foundation

Founded by Wesley Korir

- Member of Parliament, Kenya National Assembly
- Winner of Boston Marathon, 2012
- Quote, "Water is medicine. If you can get water, you get rid of 80 percent of our diseases. That's why water is the song I am going to sing for the next five years. I'll get money from the government. And I'll put as much money as possible in water projects. But it won't be enough. That's why I will partner with people. Every dollar people give us in our area, I'm going to match it." (http://en.wikipedia.org/wiki/Wesley_Korir)

Experience: WaterStep has been working for two years with the Kenyan Kids Foundation laying the foundation for this project in the Biribiriet area.

- Training locals on water treatment and hand pump repairs
- Installing water chlorinators
- Repairing hand pumps

The infrastructure is now in place to expand this program to the entire district.



Wesley Korir, Member of Parliament, winner of 2012 Boston Marathon with a WaterStep M-100 chlorinator and repaired hand pump near Biribiriet, Kenya.