



OUR MODEL: WATER

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Hi! We at SOS are super passionate about quality water projects. We've seen the impact water makes on a community and in the lives of children that live in that community. Whether it be saving lives, stopping traffickers or empowering education, we see water as a strategic tool in the mission to secure at-risk children.

HERE ARE THE 5 MAIN MODELS OF COMMUNITY WATER SOLUTIONS WE USE:

- Water Wells
- Community Filtration Units
- Community Water Distribution Taps
- Water Well Recharges
- Emergency Water aid

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THE WATER (BORE) WELL

- 2 Types: Handpumps and Submersible Electric Pumps.
- For communities that don't have water this is often the starting point.
- If the water table is relatively shallow, we can use a hand pump, hand pumps can pull water from water tables 200-350ft deep.
- Any deeper and a submersible electric pump is necessary, but for an electric pump to work, a community must have access to electricity in a regular enough capacity that their water source can be dependent upon it.

COMMUNITY FILTRATION (RO) UNITS

This is installed on an existing water source in areas of high population to help ensure water quality and to keep ground contamination at bay. This is especially popular at sea level where the water is brackish and if you drill too deep it becomes contaminated with sea water.



COMMUNITY WATER DISTRIBUTION TAPS

- This is infrastructure that can be added to already existing water wells to provide more water distribute points (taps) throughout a community increasing access to water.
- This is good in urban settings, but you must consider if you can keep the line from becoming contaminated.
- Too much exposed pipe can increase the likeliness of damaged pipes. Once a pipe is punctured it can easily backfill, allowing polluted ground water to contaminate the water source.





WATER WELL RECHARGES

- This is effective in communities where they are losing the water table due to drought.
- When the water table drops, existing wells and water sources can run dry.
- This recharge infrastructure is installed on existing bore wells and it uses rainwater harvesting to leverage monsoon rains to replenish the water table rather than allowing the monsoon rains to run off to lower levels.

EMERGENCY WATER AID

This is immediate water intervention in emergency situations. This looks like water tankers, bottled water and responding during times of crisis.





WHY 5 MODELS?

Because each community is unique, so we must have a variety of solutions at our disposal. These 5 models allow for greater on the ground impact, helping to bring good, long-lasting solutions to community water needs.

DID YOU KNOW?



- When deciding what type of water solution to implement we lean heavily on our Local Care Network partners to make the best decision.
- When we embark on a water project we like to partner with the community, this looks like a local agreement that they will donate the land that the well is drilled on or promise to work together to cover the fees to upkeep the maintenance on the well. We find when we partner together with communities the projects are significantly better projects.
- We require that free and fair access be given to all. We were entering into non-discrimination agreements with communities long before they were popular because we watched too many communities where water, or the lack of it, was used as a tool to oppress and coerce people. Conversely, we watch water be a tool of unity and peace when it is provided equally to all citizens.



FIND MORE WATER RESOURCES ON OUR BLOG

www.sosresponds.org



SOCIAL OPPRESSION & *Water*

Social Oppression and Water

SOS International March 10, 2021

Written By: Christie A. Social Oppression is unfairly treating a person or group of people who are different from other

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THE POWER OF *Clean Water* FOR COMMUNITIES

The Power of Clean Water For Communities

SOS International March 2, 2021

Written By: Christie A. We went as far as the jeep could take us on our rural trek. We were

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THE IMPORTANCE OF *Emergency Aid*

Emergency Aid to North Texas

SOS International February 22, 2021

Written By: Christie A. This month we are focusing on basic needs, food and water, and how they impact communities.

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