World Hope International

Water & Sanitation
2018 Annual Report

WHY CLEAN WATER & SANITATION?

According to the World Health Organization (WHO), for every $1 invested in water and sanitation, an average of at least $4 is returned in increased productivity.¹ WHO also states that 842,000 people die every year from diseases caused by unsafe water, inadequate sanitation, and hygiene,² but universal access to safe drinking water and adequate sanitation and hygiene would actually reduce the global disease burden by 10%.³ At World Hope International (WHI), we work hard to create sustainable access to clean water through using market-based, community-driven enterprise solutions that empower, protect, and build resiliency.


2018 WELL STATS

<table>
<thead>
<tr>
<th>Total number of wells drilled</th>
<th>Total beneficiaries</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>90,463</td>
</tr>
<tr>
<td>54</td>
<td>38,863</td>
</tr>
<tr>
<td>8</td>
<td>22,558</td>
</tr>
<tr>
<td>38</td>
<td>28,000</td>
</tr>
</tbody>
</table>

Sierra Leone
Mozambique
Liberia

Total beneficiaries
Sierra Leone
Mozambique
Liberia
World Hope International has been committed to improving lives affected by Water, Sanitation, and Hygiene (WASH) issues since 2004. WHI provides clean, reliable, and year-round drinking water to communities, hospitals, health centers, and schools.

Providing clean drinking water to a community changes lives. Not only are diarrheal and other waterborne illnesses reduced, there are other less obvious, far reaching effects like increasing school attendance. When children, especially girls, don’t have to go far to fetch water, they have more time for their studies and are at less risk of being assaulted during the trip.

Clean water also goes hand in hand with improved sanitation. Constructing hand-washing stations, latrines, and toilets is part of WHI’s overall WASH infrastructure plan. To ensure the sustainability of these initiatives, WHI helps communities form Local Water Committees to undertake minor pump repairs and to collect usage fees to pay for more costly repairs.

Drilling Down

In order to provide a year-round water supply, WHI uses drilling rigs to drill borehole wells, as hand dug wells can go dry during the dry season. After drilling a well, WHI conducts a water quality analysis to check the physical, chemical and bacteriological composition of the water to insure the water is safe for human consumption. The borehole wells are usually fitted with a hand pump as well.

Village Partnerships

By partnering villages with supporting organizations, WHI is able to holistically address community-identified needs and launch community-driven solutions. The resulting water and sanitation impact of village partnerships in 2018 include:

- **290 community members** learned about hygiene and sanitation practices, including hand washing, safe water handling and treatment and feces management in Sierra Leone and Haiti
- **5 improved pit latrines** were constructed in Sierra Leone and **8 bathrooms** were completed in the Philippines

**ADDITIONAL 2018 WATER STATS**

<table>
<thead>
<tr>
<th>99</th>
<th>Water Committees Trained</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>Hazardous waste disposal facilities built</td>
</tr>
<tr>
<td>9</td>
<td>Water towers constructed</td>
</tr>
<tr>
<td>5</td>
<td>Solar pumps installed</td>
</tr>
</tbody>
</table>
WHI also constructs water towers and installs electric submersible pumps to pump water up into the elevated tanks. From the storage tanks, water is piped into nearby buildings through gravitational force. The electric pumps that pump water to the storage tanks are often powered by solar panels.

“I understand water is indispensable in life. You think, when you can’t get good water, kids can’t cope. Our bodies can’t live without good water. We use water to drink, wash our clothes, our bodies, cook food. And we can’t do without it.”
~Madame Prinston, Haiti

Beyond wells and water tanks, World Hope also supplies piped water for a small fee to household users in Cambodia and prioritizes emergency clean water and sanitation relief when disasters like hurricanes, flooding, and mudslides strike, making use of cutting edge desalination and solar-powered technology.

Mechanisms
WHI implements its water and sanitation projects through four primary mechanisms:
• Child Sponsorship
• Village Partnerships

Social Ventures
The challenges in today’s world are complex and deeply interconnected, and transforming them is never a single-issue project: it’s as multi-dimensional as people are themselves. Launching and building sustainable, market-driven social enterprises allow us to respond to challenges holistically. Here are some of the 2018 impacts of social ventures on water & sanitation:

• 4,300 gallons of water were saved by small-holder farmers using the GRO greenhouse in Sierra Leone
• 41.9% of farmers have access to toilets and 50% have access to clean water in Cambodia at their own expense to expand production as compared to 2017
• 3 water towers and 5500m of pipework were installed in Cambodia, connecting 100 households (average of 4.5 people/household) to clean water with TapEffect
Emergency Response & Disaster Resiliency

In 2018, we responded to 10 emergencies globally, providing access to clean water in 9 of those instances. This included:

- **50,000 lbs** of emergency supplies with **150 flights** to remote communities in Florida after Hurricane Michael
- Emergency supplies from **seven 40 ft-containers** across **9 counties** in North Carolina after Hurricane Florence
- Access to safe drinking water for **350 people** living in shelters following Typhoon Yutu in Saipan

Where did we go? We provided clean water in **7 countries**, including the USA, Indonesia, Saipan, The Philippines, Guatemala, Papua New Guinea, and the Islands of Tonga.

- Social Ventures
- Emergency Relief

These mechanisms allow us to work holistically within communities and to nimbly respond to crises and emergencies, coming alongside and empowering the vulnerable with access to clean water, sanitation, and hygiene.

The Role of Child Sponsorship Support in Water & Sanitation Efforts

WHI child sponsorship is impacting a small school in Liberia, now attended by 137 students who benefit from the sponsorship. Prior to the program implementation, students were not taught basic hygiene practices and there was no bucket for hand washing after using the toilet or before the eating of meal. This situation posed a serious health challenge that led to students’ frequent illnesses and reduced the population.

However, through the child sponsorship program and WHI’s partnership with the local community and concerned, regular health education and preventive measures have been implemented to reduce the chances of students contracting diseases that could cause illnesses leading to possible drop-outs from school. Currently, a hand washing bucket has been mounted on the campus to ensure that students wash their hands regularly. This practice is also being applied at home and the improved sanitation habits and access to water has already begun to positively impact the greater community.

When asked about the current health situations in the area, most parents said, “Things are much better now than before” and “Our children are used to washing their hands before eating, after using the latrine, and when they come from playing in the community. They are not getting sick [frequently] again.”

Future Plans

In 2019, WHI intends to install a solar-powered water desalination and distribution center on the island of La Gonâve, Haiti. We have also signed a commitment through the Clinton Foundation to collaborate with other organizations to build resiliency across the Caribbean for the increasingly devastating storms. The drilling programs will continue in Sierra Leone and Liberia to provide safe water for communities, schools and health facilities.