

KENYA



## BUBOKO PRIMARY SCHOOL

*In Honor of Jack McAtee*

2016 INVESTMENT

## WATER

### *Community Details*

In Buboko, Kenya, 446 students attend the Buboko Primary School. Without access to consistent, safe water, valuable class time was lost for many students. The community was made up of 100 families, schools, churches, and a community center. All of their day-to-day activities of learning and working were a constant challenge because of the community's lack of an adequate water source. With just one borehole with a hand pump located on the school grounds, the residents' safe water needs were never met. They could walk to the river for water, but the 1.5-kilometer trek took an hour to get one can of water. Their efforts of productivity were constantly interrupted by the cholera and other waterborne diseases they contracted from their poor water sources. These illnesses did more than just cause families a few days of poor health—they caused lost earnings from workdays spent in bed or lost instruction from school days spent at home. It was impossible to move forward in this situation. But they tried. They worked to get safe water whenever they could, but it was not always feasible, so they were left with the contaminated water.

The local community leaders wanted a better future for their children and grandchildren, so they reached out the Living Water International team in Kenya to ask for help. Family and friends of Jack McAtee had given donations to complete a project like this one in Jack's honor. These generous donations made the work at Buboko Primary School possible. Thank you!

The field team entered the community of Buboko and set up the drill rig. The team was able to locate an aquifer at 67 meters deep. The field team completed the project by installing the piping, constructing a platform, and capping the well with a Submersible pump. The community jumped in to assist the field team and to show their joy and excitement for the project. They assisted with labor and gathered local materials needed to complete the project. They provided the team with meals and snacks to keep them fed as they worked. The work was a successful collaboration between the residents and the field team, giving the new water users the opportunity to experience a true feeling of investment. Together, the field team and community members created handwashing stations for the students, constructed a pit latrine with a slab, and ran the water from newly installed water tanks to three taps throughout the school's property so it would be easily accessible for the students' needs. Additionally, the field team assisted the community in establishing a five-person water committee to oversee the sustainability needs of the pump. The students were happy to know that their hours of hauling water back and forth would be over. They knew that the time their loved ones spent in bed sick with water-related diseases would be drastically reduced. The future was bright at Buboko Primary School.

The field team continued their work in the community by training the students on important hygiene and sanitation topics. They explained the importance of regular handwashing and keeping the pump area clean. The participants learned how to practice safe habits and why each safe habit was important. The knowledge shared was comprehensive, and practical and will allow the school to experience better health.

With every water point Living Water completes, the gospel is central to the work. This was also true Buboko Primary School. The team shared the hope of Christ with the students by showing the JESUS film in the Kiswahili language. The field team showed the film so that the school could see a representation of the life, death, burial, and resurrection of Christ and understand why it is so important to people even today.

Thank you for making this work possible in honor of Jack McAtee. Thank you for offering water and the gospel to the thirsty of Kenya.

## Project Details

Product	New
Location of water point	Buboko Primary School, Buboko, Butere, Kakamega, Kenya
Type of Institution Served	School
GPS Coordinates	Latitude: 00 10.45 N    Longitude: 34 31.40 E

## School

Total number of Students	Boys: 228	Girls: 218
--------------------------	-----------	------------

## Construction

Altitude	1384 m
Total depth drilled	67 m
Static level	21.9 m
Total depth of casing	67 m
External Diameter of casing	100 mm
Casing material	PVC
Screen	Start: 36 m    Stop: 45 m
Pump Type	Submersible
Depth of cylinder	54 m
Engineer Approved design drawings for piped water system on file in LWI office	Yes
Number of Tap stands	3
Total Meters of Piped Water distribution lines	150 m
Gravel Pack	Yes
Gravel Pack Depth	3 m
Well yield	105 Liters/minute
Sanitary seal depth from surface	3 m
Shock Chlorination	Yes
If schools then what type	Primary

## Well Platform

Anything else constructed	Separate washing platform
---------------------------	---------------------------

## Water Quality Results

Water Purity Test	LWI Test Kit
Total Dissolved Solids (as per T.D.S meter) :	45
pH:	6.5
Bacteria Test	Coliform Bacteria NOT detected (Colorless or Light Yellow color)

## FOR LIFE

### *Hygiene Promotion*

To allow communities the opportunity to further improve their health situation, the field team shares key hygiene and sanitation lessons at every water project. Without safe water available, observing safe hygiene and sanitation habits is often fruitless as contaminated water, or a lack of water, makes disease prevention nearly impossible. However, now that the students of Buboko Primary School had a safe water source available, it was important for them to learn safe habits and to begin implementing them into their daily routines. The field team shared these valuable lessons with 281 students that addressed issues like the importance of safe handwashing. The team showed the learners how to properly wash their hands to prevent illness. Handwashing facilities were constructed so that the residents would be able to wash their hands at home and throughout the community. The fundamentals of germs and how diseases are spread were discussed. The team explained the importance of keeping the well site clean while showing the residents how to do this. The students were taught how to collect, carry, and store the safe water to prevent water contamination after it is collected. The gospel message was integrated throughout the lessons, but most especially during the lesson “Clean Hands Clean Hearts,” since the lesson consisted of a comparison of the physical need for clean hands with the spiritual need for a clean heart.

### *Community Member Interview*

“I am very happy because I now have clean drinking water. [I] also [have water] for washing my hands after using the toilet and before eating food.”—6-year-old pupil, Ida Asango

## IN JESUS' NAME

### *Christian Witness*

Although providing safe water is important, sharing the gospel of Christ is a key aspect of the work done in each community. This was true in Buboko where 8 men and 280 children heard the gospel. The field team showed the children’s version of the JESUS film in the community of Buboko at the Ematunda Church of God so that the students of Buboko Primary School could see a representation of the gospel stories in their heart language of Kiswahili. The students and staff were excited to see the film, and because of it they saw that Christ lived a sinless life, resisted the temptation of Satan, performed miracles, was crucified, buried, and that he rose again. About 50 students prayed to receive Christ after seeing the film. The transforming message of the gospel fell on tender hearts, and through the ongoing ministry of the Ematunda Church of God, the seeds of the gospel that were planted will be watered and nurtured through discipleship. Thank you, family and friends of Jack McAtee, for making the work of the gospel possible in Jack’s honor. Thank you for offering the hope of forgiveness and eternal life to the people of Kenya. Thank you.

**PHOTOS**



The students respond to the JESUS film.



Pupils of Buboko Primary School watched the children's version of the Jesus film in the Ematunda Church of God hall.





Students raised their hands to indicate their response to the gospel after watching the JESUS film.



Female students collected water after school at the hand pump located on the school grounds. The water drawing method they were using previously was not only time consuming but provided insufficient water for the school and the community.



During the initial visit, the Living Water field team met with a community member and the sub-county water officer. This borehole was drilled by Kenya Finland Company (KEFINCO) in 1991 and installed with a hand pump to serve the school and the surrounding community. Unfortunately, it no longer provides sufficient water for the school, and a new well was needed.



At the primary school, multiple projects were under construction as part of the larger water project. The 5,000-liter tank will hold water which will be distributed to three taps: two for handwashing sinks and one for collecting water in cans.



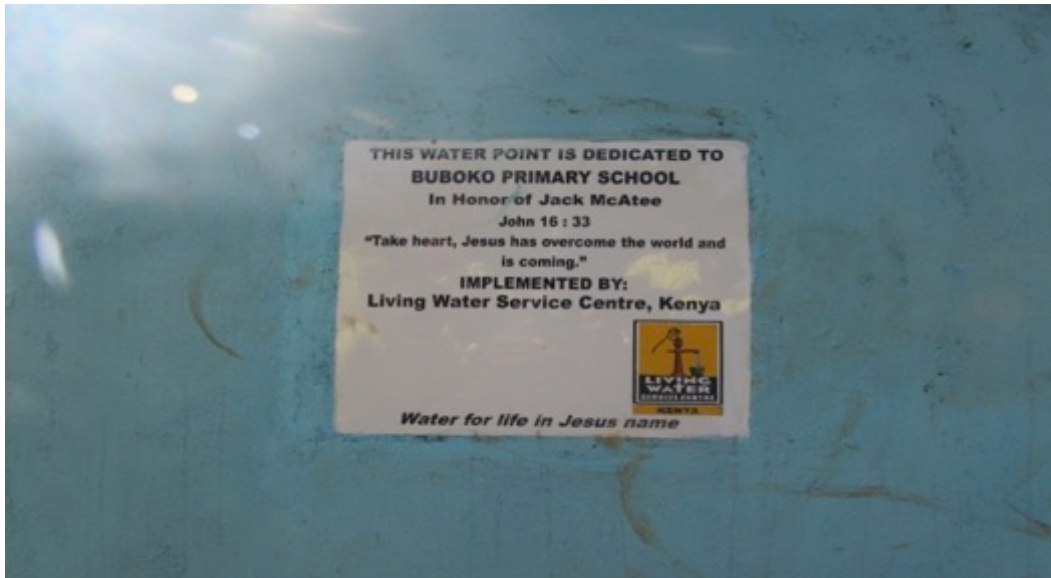


Leonard Sanda (left), a teacher from Buboko Primary School, talks to a Living Water staff member next to the school's hand washing point. In this picture, the handwashing station is still under construction.



The water from this 10,000-liter plastic tank will supply the taps at the handwashing stations. The team worked with community members to complete this project.





This plaque is mounted on the handwashing station and recognizes the generous gift that was given in honor of Jack McAtee.



Students will use these handwashing stations multiple times throughout the day.



Emmanuel Were, a class three pupil at the school, washes his hands at one of the newly completed handwashing stations.



Buboko Primary School students carry jerry cans of clean water from the school's new water point.





Janice (right), Living Water staff, talks with Jeniffer Lubanga (left), a student at the school, next to the school's new plastic water tank.



Janice talks to Ida Asango (left), a six-year-old, class one pupil from Buboko Primary School, about the water project.





Leonard Sanda is Buboko Primary School's deputy head teacher.



Ida and Fred, two students from the school, hold a banner to show their appreciation for the water project that will change their lives by providing them with regular access to safe water each day.



Older students also show their appreciation for the water project.



Several students use the new handwashing point.





A pupil from the primary school cleans his hands at the school's new water point.



Bringing water from the well was a typical task for students at Buboko Primary School, but now they know they will always have access to safe water, without having to wait a long time to use the hand pump to fill their water cans.





A water technician goes through the tools utilized during piping repairs as he provides basic plumbing lessons to the water caretakers of the different water points.



At the end of the 3-day operations and maintenance training, water committees representing 12 water points pose for a common photo with Living Water staff. These residents will be responsible for caring for the water points.



The boys play a game while the girls collect water.



Student also attended lessons on hygiene and sanitation.