

Clean Water Project in Mtito Andei Kenya, Final Project Report

INTRODUCTION

On December 13, 2011, Lifewater International received a generous donation for \$20,000 from Seth Olsen to support the *Clean Water Project in Mtito Andei Kenya*. We are pleased to send you this final report on the project activities and final outcomes, so that you can share in the joy and the life-saving progress made as a result of your gift.

PROJECT UPDATE

Lifewater International collaborated with World Vision in Kenya to implement this project, which focused on providing safe drinking water, sanitation facilities (latrines) and hygiene education at 10 primary schools. The program's goal was reached with great success!

PROJECT GOAL: Provide safe drinking water to students at ten primary schools, construct 100 latrines, and provide age-appropriate hygiene and sanitation education for students and their family members, school leadership and teachers.

Summary of WASH Activities

Over the past two years, Lifewater and its implementing partner, World Vision Kenya have hosted four training workshops in the Mtito Andei Integrated Program Area, bringing an innovative water, sanitation and hygiene education program to school students and their parents. A twofold WASH education strategy was implemented to impact the maximum number people possible in two years. First, Lifewater trained 19 teachers from 10 schools using its curriculum: **10 Building Blocks for Better Health—the Primary School WASH Curriculum**. Lifewater's volunteer field trainers participated in all four workshops, donating their time and skills to the training program. Teachers spent 6 days learning WASH lessons especially designed for children. Using skits, songs, poems and drawings, the teachers learned creative ways to teach students about the importance of hand washing with soap, using latrines and keeping them clean, and drinking safe water and how to keep it clean. The training-



Bernard Mulei, World Vision Kenya, walks through a crowd of students who are part of the 5,700 beneficiaries now enjoying safe drinking water in Kenya schools. Latrines, water and hand washing combined have drastically reduced stomach problems leading to higher school attendance.

of-trainers method prepares teachers to teach the students, so they can multiply what they have learned by training others. The teachers returned to their 10 schools and recruited 50 students per school to become members of the **after school health club**—which became a privilege and a responsibility for the students selected. The teachers used the 10 Building Blocks to Better Health lessons which include: Drink, drink safe water! Know the difference between safe and safe water! Stop the spread of disease! Keep our bodies clean inside and out! Keep safe water safe! Keep food and utensils clean! Use latrines always! Keep our school and homes clean! Use safe water when caring for sick people! The final lesson, “share what you know about better health!” really made an impact! Over a few months time, the after-school health club members had taught 400-500 classmates, their teachers and their family members the 10 Building Blocks for Better Health!

Student outcomes were beyond what we could have hoped for or imagined, including: reduced absenteeism, promotion of adolescent girls’ education, and the empowering of pupils as **Change Makers** to participate in and influence adults in WASH activities in their respective schools and homes. **After-school health clubs** significantly changed attitudes at schools, increased self-esteem among members, improved English speaking abilities, and reduced ringworm school-wide. Children were given the vision to influence their families, communities and nation for better health. A list of the schools benefitting from this project is contained in Appendix A.

Children are the hope for the future in any society, especially in Kenya, where poverty, discrimination, and lack of resources are common. Education and health become primary factors for the nation’s healthy development as populations continue to rise.



Lifewater envisions a world where every person has access to safe water, improved health and the knowledge of Jesus’ love.

The second part of the strategy began in the villages surrounding the schools. Lifewater again used the training-of-trainers (ToT) strategy to teach the parents similar WASH lessons, using Lifewater's **Community Health through Hygiene** curriculum for adults. Three training workshops were taught on community development principles, hand washing at critical times, safe water storage, and safe fecal disposal. Taking adult learning styles into account, the course relies on the participatory methods of sharing what you know. We encourage people to create poems, songs, and drams to "tell the story" of disease transmission and ways to improve health through better hygiene practices. Twenty adults participated in the community education training, and they shared what they had learned about better health at local government meetings, weddings, funerals, in the market place, in hotels and any other public gathering possible!

The outcomes observed in the communities were as amazing as those witnessed in schools. In homes, **almost every family decided to construct a pit latrine**. Tippy-taps, hand washing devices which can be made at home became common in kitchens and near latrines. Significant change in behavior was observed in hand washing with soap at the critical times (before handling food or eating, after using the toilet, or changing the baby's diaper). Another major improvement to health was the SODIS (Solar Disinfection) method, which uses heat from the sun to kill bacteria in water, instead using of firewood to boil water. WASH lessons also focused on the safe storage of clean water supplies, cleaning jerry cans used for fetching water, and cleaning water tanks annually at the schools. The community members were encouraged to find multiple uses of water to extends the precious water they have beyond drinking, to include hand washing, kitchen gardening and environmental conservation. An increase in the availability of water supplies was linked to food security and environmental conservation through planting small kitchen gardens, tree planting at schools and the establishment of community tree nurseries.

Project Results

The ten primary schools in the project area served as learning centers for the dissemination of knowledge on life-saving topics focused on water, sanitation and hygiene (WASH). Teachers formed after-school health clubs to teach sanitation and hygiene education to a core of students who reached more than 5,700 students and teachers. Disease rates have been drastically reduced especially stomach problems and ring worms, resulting in increased attendance at school and improved test scores.

Ten water tanks were constructed at schools providing water for the 5,700 students and teachers. To improve sanitation, 108 ventilated improved pit latrines were built, with students trained to maintain the facilities. Lifewater trained 20 parents in Community Health through Hygiene. Just as students shared what they learned at home with family members, parents shared with their children, thus reinforcing the messages that the children learned at school. In all, more than 22,000 people benefitted from hygiene and sanitation education in this project.

Budget Report

The Clean Water Project in Mtito Andei Kenya was completed in the fall 2012. The original project budget was estimated at \$403,453; however final project expenditures were \$387,222. Lifewater received \$262,788 in federal grant funds, and raised \$124,434 in private donations as a cost-share match. A budget summary is contained below. The \$20,000 donation provided by Seth Olsen helped Lifewater reach its funding target; we sincerely hope that you feel that you have a real part in the success of this project. Your generous donation helped cover the cost of one water tank, a block of school latrines, and hygiene and sanitation training for one school.

BUDGET SUMMARY (2010-2012)	Actual Expenses	Comments
Salaries	\$77,380	World vision Kenya and Lifewater project staff
Benefits	\$13,600	17.6%
Travel	\$75,016	14 Lifewater volunteers contributed funds to travel to Kenya (cost share), plus project ground transport in Kenya for 24 months.
Supplies	\$43,254	minor equipment, office support (KE/USA)
Direct costs	\$177,972	Water tanks, latrines, training workshops, roll-out
TOTAL	\$387,222	\$16,231 below estimated budget

A COMMUNITY STORY

The following success story was told by Mr. Nicholas Musau, head teacher at Mitamboni Primary School in the Mtito Andei program area.

“Words cannot not fully describe the impacts of the Lifewater and World Vision WASH initiative in our school. There are so many things I took for granted and never thought would be done differently or could change, but now I can attest that it is possible **“WE ARE ALL CHANGE MAKERS, as spoken by the children”**. Following our participation in various trainings during the project period, the school management committee, health club patrons, parent hygiene WASH trainers, pupils and other teachers have gained so much knowledge on improved hygiene practices, management skills, proposal writing, environmental conservation and soil and water conservation. All these lessons have been learned in a participatory approach. The learning has been through lecturers, demonstrations, participatory educative theatres, Information Education and Communication (IEC) materials, and reflective meetings to discuss WASH progress in which we share lessons learnt from other WASH schools among others either formally or informally. This is spearheaded by the patrons, health club members, parent ToT’s and SMC. Our school was supported to construct 12 door VIP latrines, 6 for girls and 6 for boys, and support the pipeline extension, hence access to reliable supply of water in our school.

Owing to adequate access to safe water, decent sanitation and better hygiene practices among both pupils and teachers, I have seen a lot of transformation in the school. Children have adopted a simple and automatic practice of hand washing as a responsibility without supervision. Health club members guide the school and monitor regular cleaning of the latrines and filling of hand washing units.

As a result, children have improved health as fewer children report cases of WASH related diseases, minimized absenteeism, happy children and neighboring communities appreciating improved hygiene practices, every parent has brought a mango seedling to school and assigned their children to nurture the mango plants. Parents are in the process of constructing a community water point where they can sell water to the neighbors to be able to use the proceeds to pay their water bills and support WASH needs. In addition, the school is in the process of completing ECD center that has been incomplete for a long time since we thought we could not complete it on our own, reviving the tree nursery project which was affected by water scarcity which we intend to use to generate income, constructed an energy saving jiko to minimize wood fuel used for cooking hence minimize cutting of trees for fuel and improved performance has been the greatest joy.

I thank Lifewater International and World Vision for their support in implementation of WASH activities in our school. As a school, we have undergone transformation to a great extent and it is good to observe children enjoy hand washing and recite the building blocks to the extent of translating them to their mother tongue for the understanding of their family members and peers. I believe these activities will ultimately improve the health and learning environment in our schools, enhance performance in academics and provide better health in our community. This program is vital for all schools since its benefits are lasting.”

CONCLUSION

On behalf of Lifewater and the men, women and children in Kenya benefitting from this water, sanitation and hygiene project, we thank you for your generous donation. We can see that your contribution has directly helped improve the lives of 5,700 people, with 22,000 more people benefitting indirectly. In 2012, Lifewater served more than 267,000 men, women and children with WASH. Your faithful support is making a real difference around the world. Thank you so much for your support.

APPENDIX A SCHOOL NAME	INFRA- STRUCTURE DESCRIPTION	LATITUDE	LONGITUDE
Kathekani Primary School	50 m ³ water storage tank	2° 38' 45.184" S	37° 43' 35.131" E
	8 compartment VIP latrine for Girls	2° 38' 48.357" S	37° 42' 42.050" E
	8 compartment VIP latrine for Boys	2° 38' 48.751" S	37° 43' 10.177" E
Kusyuni Primary School	8 compartment VIP latrine for Girls	2° 38' 22.711" S	38° 06' 53.948" E
	4 compartment VIP latrine for Boys	2° 38' 22.242" S	38° 06' 44.713" E
Misani Primary School	2 compartment VIP latrine for Girls	2° 38' 36.121" S	38° 02' 25.962" E
	2 compartment VIP latrine for Boys	2° 38' 36.320" S	38° 03' 56.127" E
Mbetwani Primary School	50 m ³ Storage Tank	2° 39' 59.784" S	38° 43' 03.829" E
	6 compartment VIP latrine for Girls	2° 39' 57.197" S	38° 41' 44.848" E
	6 compartment VIP latrine for Boys	2° 39' 56.277" S	38° 42' 04.129" E
Misuuni Primary School	100 m ³ water storage Tank	2° 37' 55.565" S	38° 20' 36.948" E
	6 compartment VIP latrine for Girls	2° 37' 55.100" S	38° 19' 56.332" E
	4 compartment VIP latrine for Boys	2° 37' 54.075" S	38° 19' 48.397" E
Yindundu Primary School	100 m ³ Storage Tank	2° 38' 45.364" S	38° 27' 20.093" E
	8 compartment VIP latrine for Girls	2° 38' 44.755" S	38° 26' 47.792" E
	6 compartment VIP latrine for Boys	2° 38' 44.364" S	38° 26' 51.089" E
Kilumilo Primary School	100 m ³ Storage Tank	2° 37' 52.065" S	37° 22' 28.889" E
	4 compartment VIP latrine for Girls	2° 37' 51.917" S	37° 20' 46.032" E
	4 compartment VIP latrine for Boys	2° 37' 50.622" S	37° 20' 43.913" E
Ngwata Primary School	100 m ³ Storage Tank	2° 37' 08.192" S	37° 12' 36.862" E
	8 compartment VIP latrine for Girls	2° 37' 06.708" S	37° 11' 48.625" E
	6 compartment VIP latrine for Boys	2° 37' 09.154" S	37° 11' 20.237" E
Nzambani Primary School	50 m ³ Storage Tank	2° 39' 31.135" S	38° 09' 57.736" E
	6 compartment VIP latrine for Girls	2° 39' 34.327" S	38° 10' 40.535" E
Mitamboni Primary School	Pipeline extension(valve chamber)	2° 38' 19.828" S	38° 27' 19.428" E
	6 compartment VIP latrine for Girls	2° 38' 19.126" S	38° 27' 28.302" E
	6 compartment VIP latrine for Boys	2° 38' 19.681" S	38° 27' 16.169" E