



**ENGINEERS  
WITHOUT  
BORDERS  
USA**

# KENYA WATER PROJECT

## ORANGE COUNTY PROFESSIONAL CHAPTER

**PROJECT TYPE:**

Water Supply

**OTHER RESOURCES IMPACTED:**

Education, Sanitation, Agriculture

**DIRECTLY IMPACTED:**

170 People  
Infants (0-10): 20%  
Children (11-25): 50%  
Adults (26+): 30%

**INDIRECTLY IMPACTED:**

Up to 15,000

**PROJECT COSTS:**

Assessment:  
\$16,200

Implementation:  
\$56,600

**PROJECT PARTNERS:**

EWB-USA OC  
Zeitz Foundation  
Sukutan Community

**PROJECT ADOPTION:**

April 2011

**FEASIBILITY STUDY:**

January 2012

**ASSESSMENT TRIP:**

March 2012

**DESIGN:**

May 2012 to  
May 2013

**IMPLEMENTATION:**

August 2013 to  
January 2014

The Chapter has been working with communities in the District of Laikipia in Kenya for more than five years. The first project involved the design and construction of a bridge to provide access to medical facilities for the community of Endana and access to secondary school education for the communities of Segeragate, Jerusalem, and Black Tank.

As part of an alternatives assessment, the Laikipia Water Project developed eight (8) surface water, groundwater, and large and small scale rainwater collection designs that can be used to meet the water requirements across the Laikipia District. The team selected the preferred installations to aid the village of Sukutan in the provision of nearby clean water access for the whole community, meeting 100 percent of Sukutan's demand, rain or shine.



**PROJECT OBJECTIVES:**

- Drilling and equipping an 80m well to tap shallow and intermediate aquifers at the Lesashore Spring location in the northeast quadrant of Sukutan community.
- Constructing and monitoring four prototype rainwater collection, filtration, and storage systems on thatched roofs of four selected homes within Sukutan.
- Implementing an education program directed at the Sukutan CBO and the school that incorporates water education and maintenance for the shallow spring facilities.
- Follow-up observations of the rainwater systems efficiencies to update the design and train the community on building the systems.

