



haller

Haller – Fondation Eagle Project FF 412/009 Completion Report

Dzanikeni: S030 58' 30.7" E0390 40' 13.9"
Jitegemee: S030 57' 18.1" E0390 40' 13.6"
Ufanisi: S030 57' 48.6" E039 40' 13.9"

In April 2018 Haller were generously granted £56,350 from Fondation Eagle to fund the construction of rain-fed dams and wells for three community groups in Kisauni county, a rural area bordering Mombasa, Kenya. The three communities, Ufanisi, Dzanekini and Jitegemee, now have access to vital facilities to provide them with localized access to water for irrigation and consumption.

Following on from the project update submitted in in late 2017, we are delighted to be able to report that all ongoing work has been completed for the projects generously funded by Fondation Eagle.

Against the backdrop of unpredictable climate and drought, the funding from Eagle will have a transformative effect on the lives of these communities. Following the completion of these projects, the communities will now receive a comprehensive integrated farmer training program to ensure that they have the skills to farm their land to develop an income. Over the coming years, these farming communities will be equipped with the skills they need to thrive.

Haller's work is based on the ethos that any rural community can develop a livelihood from their land. For many communities, the main issue standing in their way is overreliance on unpredictable rainfall for water and a lack of agricultural knowhow. Farmers learn over reliance on maize crops and quick fixes for crops from their neighbors – knowledge of sustainable agriculture methods is empowering in giving farmers the ability to make choices.

For farming communities, livelihoods are dependent on rainfall. The East African drought in early 2017 had a devastating impact on these communities, meaning that these projects were more vital than ever. The drought had a severe impact on the livelihoods of farming communities across East Africa, affecting millions. Additionally, when the drought ended,

heavy rainfall in the summer of 2017 resulted in waterlogged soil, further impacting the ability of farmers to produce crops. With unpredictable weather likely to increase, the three projects funded by Eagle will allow these communities to be resilient.

Project background

At Haller, we work with communities to provide them with the skills and infrastructure to ensure that they can thrive. By working *with* communities and focusing on collaboration we can ensure their long-term development. Our model, known as the Haller journey, starts by providing communities with water facilities to ensure that they have reliable and local access to drinking water and water for irrigation. Following this phase, we then work closely with communities through a program of farmer training and skills transfer to ensure that any community member is trained and given the ability to make a living from their land. In addition to training and the provision of water facilities, our focus on integrated projects means that we also ensure that communities have access to health facilities and support around livelihood development.

Project progress

The work on the rain-fed dam and the wells began in June 2017, after the soil dried following a period of flooding in May. The projects have all passed without disruption, other than a brief hiatus on works during the recent Kenyan election, and the communities have already begun to use the water stored in the dams for irrigation. These three projects have now been completed.

By November, at the time of our interim report, the dams and retreats at all three communities were complete, and largely full, due to the rains in late September and October. Additionally, the excavation work on the wells at Dzanikeni and Ufanisi was complete, with hand pumps installed end of November through early December.

The well at Dzanikeni is at a depth of 32ft, with 7ft of water, Ufanisi is currently 18ft deep, with 4 ft of water and work is continuing on the excavation of the dam at Jitegemee which is 15ft. Due to the increasingly unpredictable nature of the water table, the depths of the wells constructed by Haller often vary.

Since November, the well pumps have all been installed. The pumps ensure the safety of the community and decrease the risk of injury from an open well. The rain-fed dams are still stocked with water which will enable to communities to have access to water for irrigation until the rainy season in the late spring. The installation of the well pumps was somewhat delayed due to fears of political instability following the second Kenyan presidential election in late October. The pumps were successfully installed at all three communities: at Ufanisi in late November, Dzanikeni in early December and at Jitegemee in January.

There were also slight delays to the well excavation due to the large-scale rainfall in Kenya during early October. This had an impact on the project timeline due to the difficulties involved in excavating waterlogged ground and the varying depth of the water table.

As a result of the generosity of Fondation Eagle, these communities now have ready access to water. With climate change likely to impact weather conditions in coastal Kenya in the coming years, the ability to be resilient in the face of potentially devastating weather will be vital to ensure the long-term development of these communities. They are all now using the water from the projects for domestic use, agricultural production and for livestock. These communities will now have stable access to water in face of unpredictable weather patterns.

Expenditure breakdown

Initial Project Budget £56,350 for construction of three rain-fed dams with community labour and three wells, including sheds and water pumps, project supervision and transportation.

Total expenditure to date is £53,800 with £2,550 retained for maintenance and repairs in the next five years while the facility becomes embedded in the community and maintenance is handed over.

Fondation Eagle contributed the full £56,350 budget towards establishing water infrastructure to build resilience in three communities.

3 Dams and 3 Wells Summary Budget

Item	Total Budget	Jitegemee Actual	Ufanisi Actual	Dzanikeni Actual	Total Actual	Net	
Dam construction with community labour	£24,000	£8,738	£9,282	£9,804	£27,824	-£3,824	£3,824 project contingency funds applied
Pre-construction: (geological survey, testing, training)		£792	£792	£792			
Construction: (this includes land clearing and preparation, equipment, improved access, materials, transport, community labour costs)		£6,856	£7,357	£7,552			Three large dams completed. Size of dams varies by community, given differing community needs
Project delivery costs: Haller project management, impact assessment and evaluation, 5-year contingency fund for dam maintenance		£1,090	£1,133	£1,460			
3 x Well construction + Shed & water pump, supervision, transport	£25,500	£8,202	£8,449	£9,325	£25,976	-£972	£972 project contingency funds applied
Pre-construction: (geological survey, testing, training)		£540	£540	£540			

Construction: land clearing and preparation, equipment, materials, transport, community labour costs)		£6,462	£6,709	£7,585			Variance in depth of well by community
Project delivery costs: Haller project management, impact assessment and evaluation, 5-year contingency fund for quarterly water testing		£1,200	£1,200	£1,700			
Contingency for planned repairs and maintenance to handover	£7,350				Applied to costs above		£2,550 carried forward
TOTAL Expended April 2017 – January 2018	£56,350				£53,800	£4,800	

(exchange rate on application £1 = 128Ksh, exchange rate on conversion £1 = 130 Ksh)

The size of dams and the depth of wells varies from project site to project site. In the case of Dzanikeni, for example, the well have to be dug significantly deeper than in other sites given the distance from the surface to the fresh water table.

We allocate a set amount of contingency funding against each site as execute the projects and have retained funds for planned repair and maintenance during the remainder of the three to five-year Haller Journey community projects as the maintenance is handed over to the communities.

Over the coming years, Haller will continue to work with these communities to provide regular farmer training to ensure that they can develop an income through sustainable agriculture.

Access to water is a fundamental human right, but for millions of people across the developing world this is not the case. Thanks to support from Fondation Eagle, these three communities can now access water at a local area rather than having to travel long distances. We look forward to continuing to work with the Jitegemee, Dzanikeni and Ufanisi communities to ensure that all community members can support their families and make a living from the land. From everyone at Haller, we would like to thank Fondation Eagle for their generosity and support and we look forward to continuing to work together in the future.

February 2018.

Ufanisi Community - S030 57' 48.6" E039 40' 13.9"

"We are grateful to the donor because we don't [have to] travel distances looking for water. We are growing vegetables for their use and sell some. We thank Dr. Haller" – **Mrs Mbetsa Kiremba, Ufanisi**



The completed well at Ufanisi



The newly-installed dam pump at Ufanisi.



The completed dam at Ufanisi

Dzanikeni: S030 58' 30.7" E0390 40' 13.9"

"We are irrigating our crops for food for our children and we use the water for washing their clothes" – Mrs Sharan Said.



The well at Dzanikeni.



The completed well in use at Dzanikeni



The completed dam at Dzanikeni

Jitegemee: S030 57' 18.1" E0390 40' 13.6"

"My people are grateful for these projects. We have grown and sold vegetables for school fees and I will build my house after selling more vegetables" – Mzee Tsofa Jefwa



The newly-installed well pump at Jitegemee



The completed well.



The completed dam at Jitegemee.