

Tapping into wasted spring water in Cape Town

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UCT KNOWLEDGE CO-OP

The UCT Knowledge Co-op facilitated this collaborative project with
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Trafalgar Water Solution

Proposal

For this project, we are required to store and transport water between a running water source and a community garden and surrounding areas. There is currently 40 000l of water being wasted daily due to insufficient water systems and storage solutions.

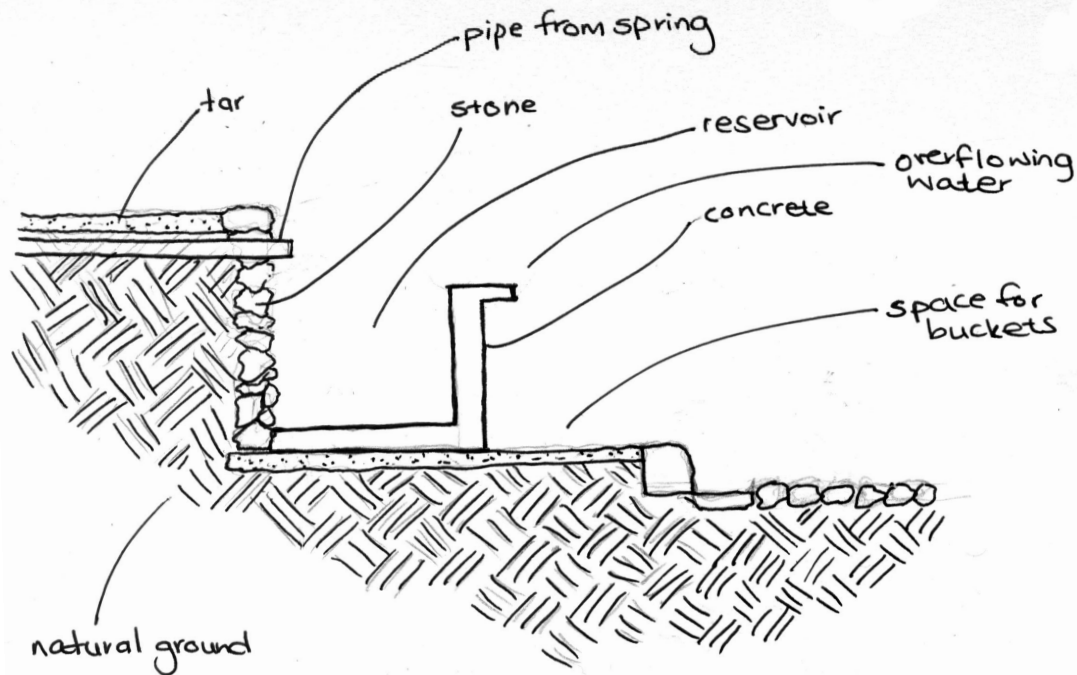
We are aiming to provide the community with a "Hippo Roller" to push the water up and down hills easily, and a pump to pump the water to the existing JoJo tank closer to the garden. In terms of a pump, we are looking at Cedar Solar, a South African company with relatively small pumps.

We have been in contact with both the pump suppliers and the NGO that produces the Hippo Roller regarding prices and are awaiting a response.

We propose using Trafalgar High School's grounds to house the equipment, since it avoids using government property and it provides a relatively protected/safe storage area. There is an existing reservoir on the school grounds, from which to pump the water to the garden slightly further uphill. We aim to install the pump at the reservoir. This will pump the water to the JoJo tank, also situated uphill, where the water can be stored and used for the garden. This also presents the school with the opportunity to install a grey water system in the future. Excess water, which for which the pump doesn't have enough capacity, will run to the road, just outside the property, where the local community members can use the Hippo Rollers to collect and transport the water from a reservoir that we have designed. The only difficulty presented is the fact that this plan requires the school's fence to be pulled back slightly at one point.

See the attached diagrams for a detailed description.





COMMUNITY WATER POINT