



# LearnToLive 2013 WATER INITIATIVE: SAPA



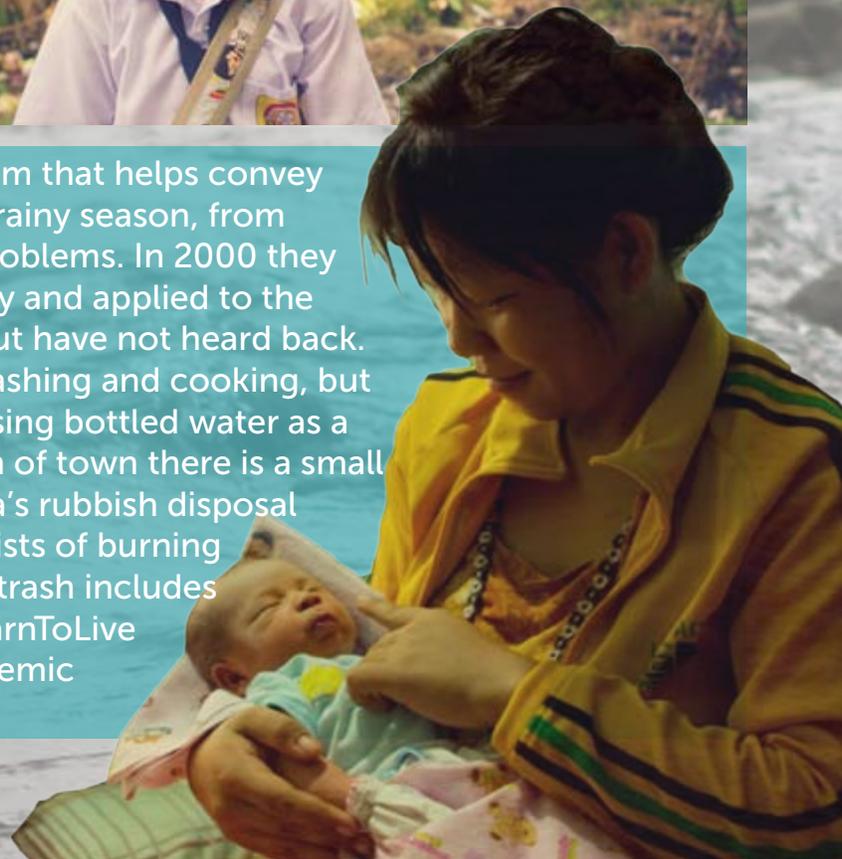
## Sapa, North Sulawesi, Indonesia

Everyday villages throughout North Sulawesi face the challenge of not being able to drink and have access to clean water. In July of 2012 LearnToLive explored four villages, Sapa, Beringin, Likupang and Bunaken to better understand their existing infrastructure and find more sustainable solutions for access to clean water. Through the process of documenting conditions, we discovered that people are not using rain water. This July 2013 LearnToLive will work to diversify access to clean water by designing and building rainwater collection systems in Sapa and Beringin, and helping to repair an existing well, pump and filtration system on the Island of Bunaken. Sapa is only 5 years old; it is a coastal town that is half Christian and half Muslim. Our interactions have been predominantly with the Christian community, which is made up of 300 families. They live on the Southern part of the coast, bound by a road and bisected by a river inlet to the ocean.

**PLASTIC  
AQUA  
CUPS**  
are burned in  
twice weekly  
trash heaps  
just steps  
from the  
school



The village has a rudimentary runnel system that helps convey storm water to the ocean, but during the rainy season, from January to February, there are flooding problems. In 2000 they identified a spring water source 5 KM away and applied to the government for funding to construct it, but have not heard back. In the meantime, well water is used for washing and cooking, but because it is brackish they rely on purchasing bottled water as a potable source. Within the Muslim section of town there is a small business that purifies and sells water. Sapa's rubbish disposal system is also abysmal and primarily consists of burning trash a couple times a week. Much of the trash includes plastic disposable cups of Aqua water. LearnToLive hopes to help alleviate some of these endemic problems that Sapa faces on a daily basis.





# Project Site

## Junior High, Sapa

**LTL's PLAN**  
 Build Rainwater Collection Systems & Introduce Environmental Curriculum into Schools

The first project will take place at the Junior High School in Sapa, where we will work with the Chief and local builders to create a 1000 Liter rain water cistern and garden. Simultaneously, we will collaborate with teachers to introduce a curriculum aimed at understanding the value of rain water and how to better care for the environment. We hope this age group is mature enough to take the knowledge home and help their families implement small scale systems.



10,000 litre water tank	\$2000
Building materials (Wood, guttering, PVC piping, concrete)	\$500
Transport of materials from Manado to Sapa	\$50
Filtration system	\$100
Landscape garden-green space	\$100
Education materials	\$100
Reusable water bottles	\$250
<b>Total</b>	<b>\$3,100AUD</b>