

# WELL FOR wellbeing

in Las Macias, Nicaragua



## 1 PROJECT GOAL

Improve both *accessibility & quality* of the drinking water for the 500 community members of Las Macias.



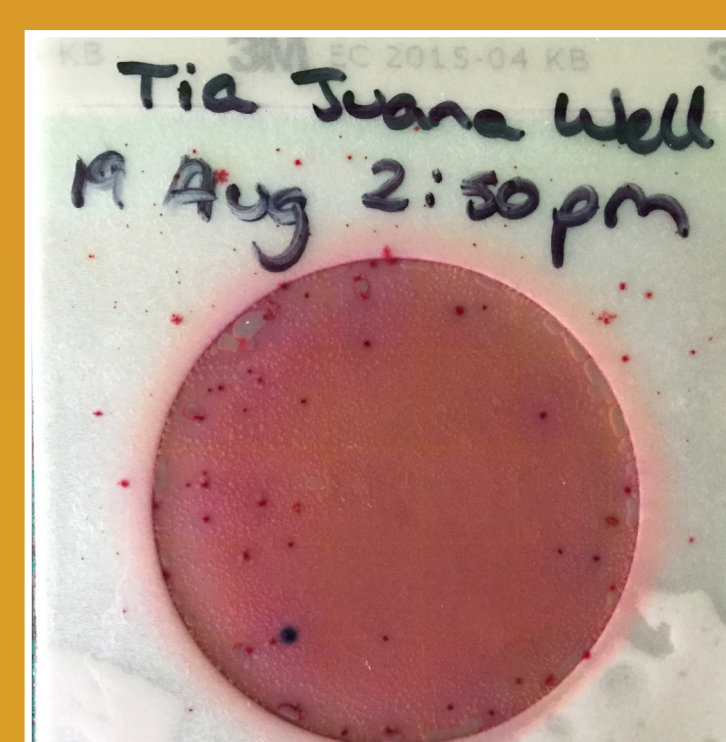
## 4 WATER COLLECTION

The average household spends 2.7 hours collecting water per day. Women and children collect the water in 5 gallon buckets that weigh 40 lbs. when full. They walk as far as a mile one way to reach the well.



## 2 WELLS/WATER SAMPLES

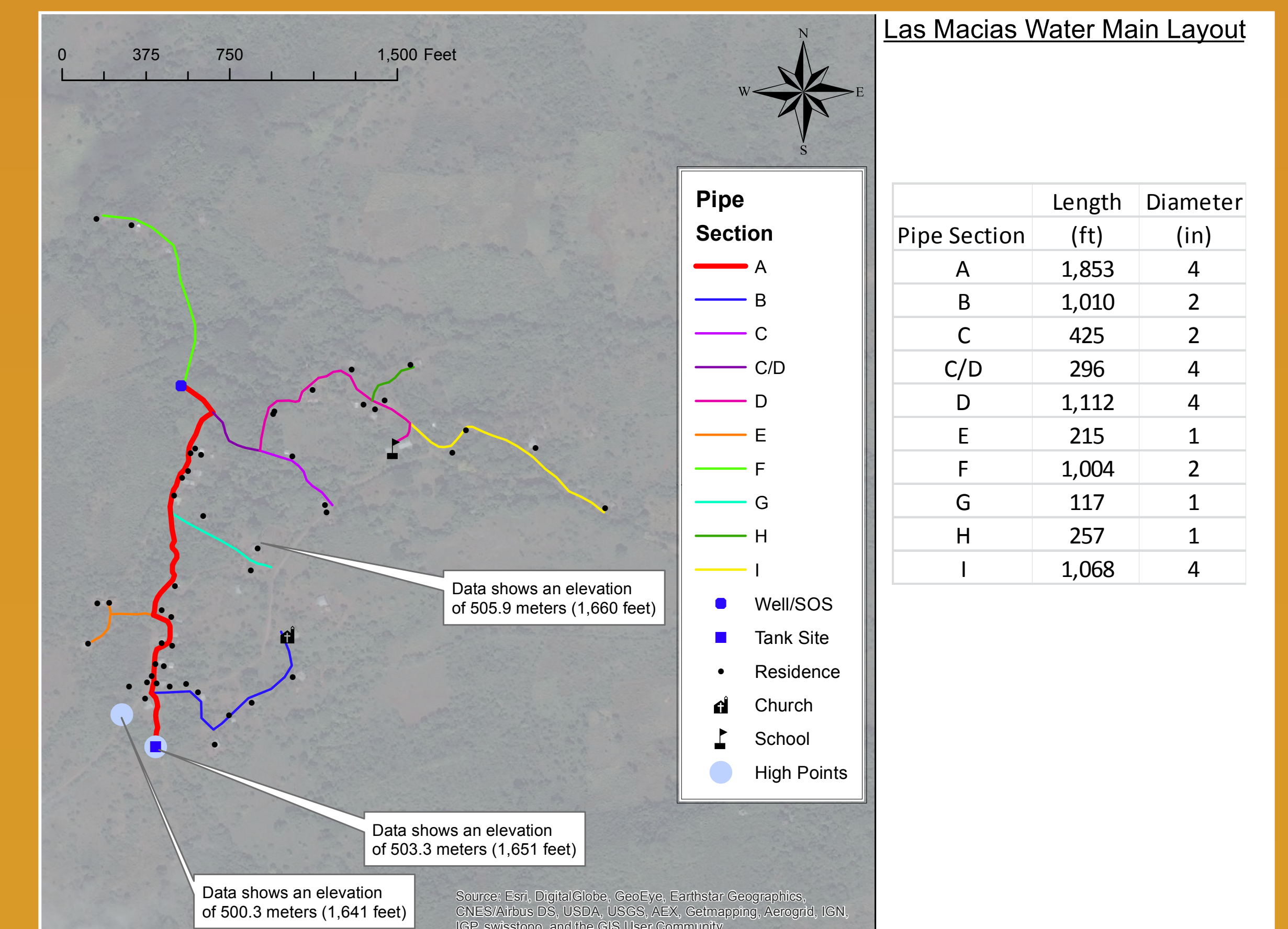
The community has 1 public well and 3 private wells.



All wells are contaminated with E-Coli.

## 3 DISTRIBUTION SYSTEM

The distribution system design is based off of a neighboring villages system. It will provide water to each home or clusters of homes.



## 5 RELATED RESEARCH

*Exploring, Documenting, and Improving Humanitarian Service Learning through Engineers Without Borders-USA.*  
Investigating the success of community-based service learning projects.  
Explores student attitudes, beliefs, and goals about community involvement on a cross-institutional level.