Gravity-fed Water Distribution System in Nidori, Panama

**PROJECT GOAL**

To provide the community of Nidori with year-round accessibility to improved water.

**QUEBRADA SYSTEM**

This system will utilize a newly found stream as its source (see Figure 2). The water will be dammed to allow for collection and transported to 5 homes (~40 people) that currently have no water distribution system (Figures 3 & 4).

**POZO SYSTEM**

This system will utilize a spring source that has a distribution line and laundry area (Figure 5). A spring box will collect water and a distribution line will carry it to a tank that will serve the 12 homes that have no water during the dry season (~120 people).

### Cost Estimate & Construction Schedule

- **Pozo Box (Fig. 9)**
  - **Spring Box Construction**: 350ft, 18 joints
  - **Spring Box Equipment**: $1,625, labor: $465
  - **Spring Box Materials**: $1,762, labor: $507

- **Pozo Water Storage Tank (Fig. 11)**
  - **Tank Construction**: 350ft, 18 joints
  - **Tank Equipment**: $1,762, labor: $507
  - **Tank Materials**: $1,762, labor: $507

### RECOMMENDATIONS

- In-home chlorination to remove disease-causing pathogens
- Monthly maintenance following the instructions in the maintenance manual provided to the community.