



“Together we can  
give True Water  
True Life!”



Vera Aqua  
**Vera Vita**



# The Problem

Global Crisis and the context in Peru



# THOUGHT TO PONDER?

*We are in the **USA** with abundant water, but do we know how valuable it is?*

*Can you imagine what life without clean water to drink?*

*... Or for that matter a regular, reliable supply of water on demand and basic sanitation facilities such as a toilet?*





WHY DOES VERA AQUA VERA VITA EXIST?

**Because there is a  
Global Water Crisis!!!**



# SOCIAL IMPACT



THE PROBLEM



[YouTube](#)

# The Reality - Water Contamination

THE PROBLEM



- Fatigue
- Nausea
- Dehydration
- Weight Loss



- High Fever
- Liver Swelling
- Liver Inflammation and damage



- High Fever
- Severe Headache
- Stomach Pain



- Vomiting
- Leg cramps
- Dehydration
- In severe situations, kidney failure



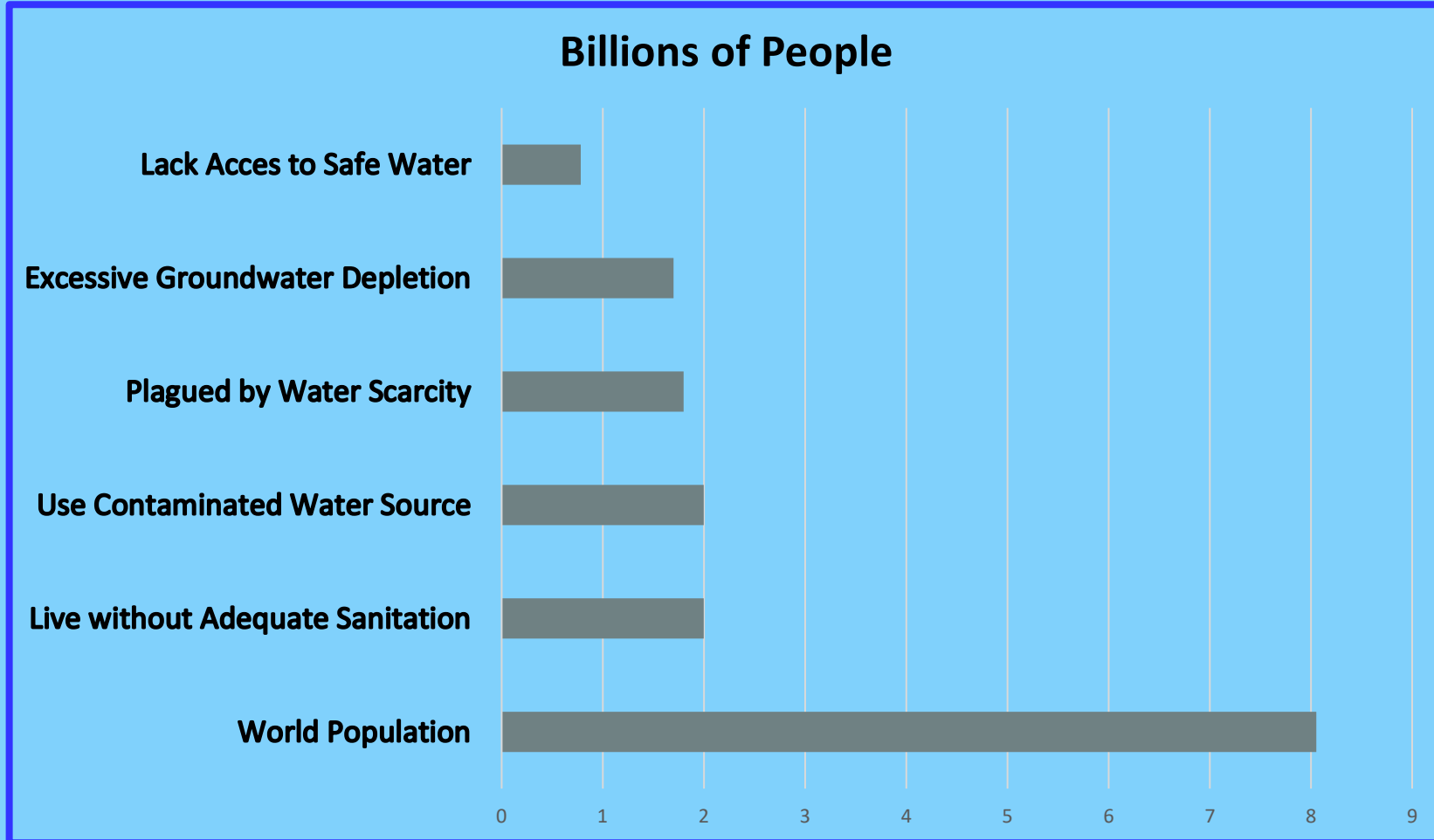
- Loose stools
- Fever
- Abdominal Pain
- Dizziness

# THE REALITY

#1 Global Risk Based on Impact to Society...



THE PROBLEM



Current Population of the World: 8.05 Billion



# LIVES ARE AT STAKE

## SOCIETAL IMPACT

- **Impact on Education:**
  - Globally 443 Million Collective School Days Lost Annually.
- **Financial Impact:**
  - Globally \$260 Billion Collectively is Lost Annually.



... sadly, today, **one child dies** from a water related disease **every 90 seconds!**

## HUMAN LIFE IMPACT

- **Overall Mortality Rate:**
  - 869,000 People Globally, or Approximately 2,300 People per Day.
- **Child Mortality Rate:**
  - 1 out of Every 10 Deaths of Children Under 5 is Due to a Water-Related Disease.



# PERU WATER CRISIS

- **75% OF RURAL COMMUNITIES** have unmanaged drinking water services
- **44% OF RURAL COMMUNITIES** don't have basic sanitation facilities
- **12% OF CHILDREN UNDER THE AGE OF 5** experience chronic diarrhea due to waterborne diseases

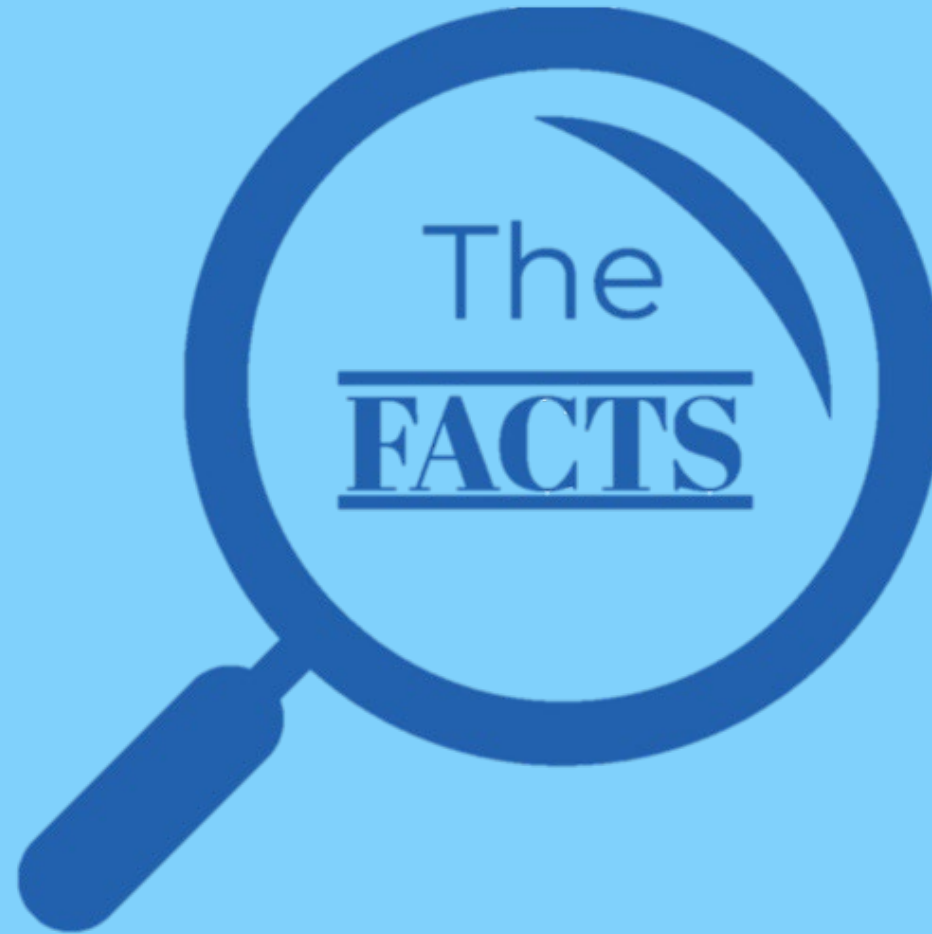


# SUSTAINABILITY IS A BIG PROBLEM!

In 2004 in a study done by the Rural Water Supply Network and USAID ....

Across 20 developing countries/regions

~40% of Implemented Clean Water Solutions were Non-Functional.





# The Solution

What is VAVV all about?



# THE STORY BEHIND VAVV



- **2011 | Inception of the Idea:** student mission trip to Haiti with St. Thomas Aquinas Catholic Church
- **2011 – 2015 | Development of the Idea:** growing professional experience, network, and concept
- **2015 | Started Pilot Project:** commenced planning & engineering for first project in Monte Castillo, Peru that served as the foundational project from which VAVV was born
- **2016 | Pivotal Professional Milestone:** Jacob acquired Professional Engineering (P.E.) license
- **June 13, 2017 | VAVV Is Born:** incorporated as a nonprofit NGO in the state of Texas
- **February 2018 | Big Milestone:** Jacob starts working part-time for VAVV
- **March 2018 | Granted 501(c)3 Status:** IRS grants VAVV tax-deductible status
- **May 2019 | Big Milestone:** Jacob begins working full-time for VAVV
- **August 3, 2019 | Completed First Project:** clean water for the community of Monte Castillo



# OUR MISSION

By tapping into the **physical and holistic** nature of **water**, we **Empower** people and communities in developing countries to generate clean water and sanitation solutions that bring **true water true life**.



# OUR HOPE

## VISION

We envision a world where death, hardship, and poverty caused by lack of access to clean water and improved sanitation are no more. **We desire to see people flow from simply surviving to truly thriving!**

## BELIEF

**Lack of access to clean water and improved sanitation** is the primary cause of poverty in developing countries. It is not enough to just give clean water; **empowerment is the key to sustainable change!**





# DIFFERENT IN WHAT MATTERS



## 1. EMPOWERMENT

- a. Dignity of the person
- b. “Hand-up not hand-out”
- c. “Teach how to fish don’t just give fish”

## 2. HOLISTIC APPROACH

- a. Nourishing the whole person
- b. Triple Bottom Line
- c. Solidarity + Subsidiarity

# The Approach

Community Engagement and Assessment





# THREE PROGRAMS

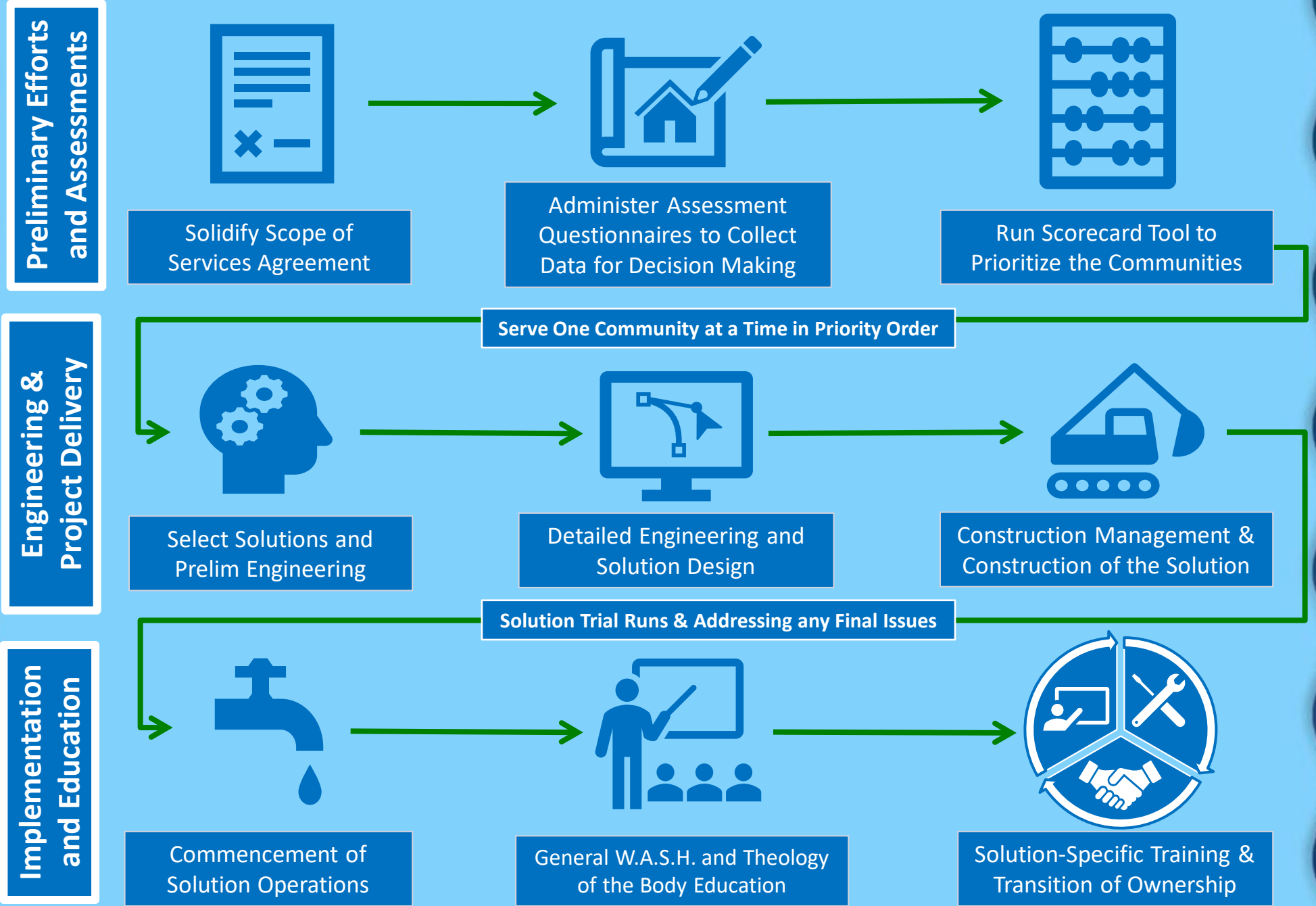


1. **WATER, SANITATION, AND HYGIENE (WASH) COMMUNITY DEVELOPMENT**
  - a. Strategic Partnerships
  - b. Assessment Surveys
  - c. Engineering Solution Implementation
2. **EDUCATION**
  - a. WASH Education
  - b. TOB Education
3. **SERVICE-ORIENTED**
  - a. Domestic
  - b. Global

# STANDARD PROJECT IMPLEMENTATION FLOW CHART



## PROCESS





# PROCESS

## ADMINISTERING COMMUNITY ASSESSMENT & DATA COLLECTION QUESTIONNAIRES



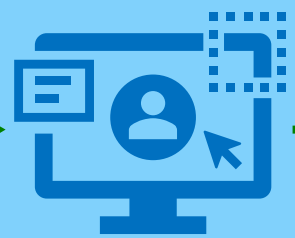
### Team Establishment



Build **Interview Team**, Elect a **Team Leader**, & Identify Points of Contact in the Communities to be Assessed - Obtain Contact Information for All



Establish modes of Communication: Create Whatsapp Groups & Email Contact Groups as necessary



Give User Access to the **Interview Team** for the VAVV **abcSubmit** Company account

**Interview Team** to install **abcSubmit** app on mobile device for Offline (w/out Internet) Use [reference separate instructions]

### Team Training



Training to Administer the Questionnaires including specific instructions for each one



Technical Training for Use of the "digital" **abcSubmit** Tool including how to use it offline



Overview and Review of the General Assessment Implementation Order of Operations

Implement Prelim (Individual "Implementation Team Members") Assessment to the Team before engaging w/ the community

### Administering Questionnaires



Make arrangements w/ communities to administer questionnaires: schedule community leader mtg & general town hall



Contract Water Quality Testing Lab to Take Samples and Conduct sampling on a day and time favorable to the community



Administer Questionnaires in this order: 1.) Prelim (Individual "Community Leaders" Assessment); 2.) Prelim (General "Small Group of Leaders" Assessment); 3.) Comprehensive (Households Assessment)

# Lasting Impact

## *Monte Castillo Example*

Sustainability & Impact





# OUR TWO-PHASE SOLUTION



**1ST PHASE:**  
INTERIM, SUSTAINABLE,  
AND SCALE-ABLE SMALL-  
WATER TREATMENT  
FACILITY



**2ND PHASE:**  
COMPREHENSIVE LONG-  
TERM SUSTAINABLE  
INFRASTRUCTURE  
IMPROVEMENTS

**COMMENCED OPERATIONS  
ON AUGUST 3, 2019**

**WASTEWATER ASSESSMENT &  
IMPROVEMENT MASTER PLAN  
COMPLETED IN DECEMBER 2020**

# PHASE I: SMALL WATER TREATMENT FACILITY



Source Water: Irrigation Canal



Canal Intake Structure & Pump



Ground Storage Tank  
(for Dry Weather Water Storage & for Water Particulate Settling/Clarification)



Intake Pump

Treatment Facility



Vera Aqua Vera Vita  
Funded the building for  
**\$20,000**



Water Mission's  
Living Water  
Treatment System  
(Filtration & Disinfection)



Storage Tanks  
Clearwell  
(Clean/Treated Water)



Water  
Distribution  
(On-Site Tap & Trucked  
Delivery System w/ a  
small affordable rate  
system)



# PILOT PROJECT

## PHASE II: SS System Improvements Master Plan



### Preliminary Rehabilitation



Sewage Back-Up Under Previous Conditions



Cleaning (Dredging) of Sewer Lines/Pipes



Repair/Replacement of Dilapidated Manholes

Contracted local construction crew to do the work for a \$20,000 Capital Cost – Prelim Rehabilitation & Data Collection are Completed

### Data Collection



Televised Video Inspection



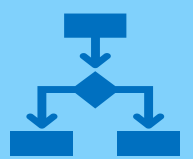
Actionable Report, Map, & TV Inspection Video



Acquire Infrastructure Condition Data & System Specifications

Collaborating w/ Senior Design Capstone Team from Texas A&M University ([read more here](#)) to complete this work – 100% Complete

### Master Planning



Prioritizing Infrastructure Improvement Needs



Designing Comprehensive Solutions to the Infrastructure Issues



Present Improvement Master Plan to Community & Funding Planning



Construction & Improvement Plan Implementation



# 3-YR POST-PROJECT IMPACT ASSESSMENT

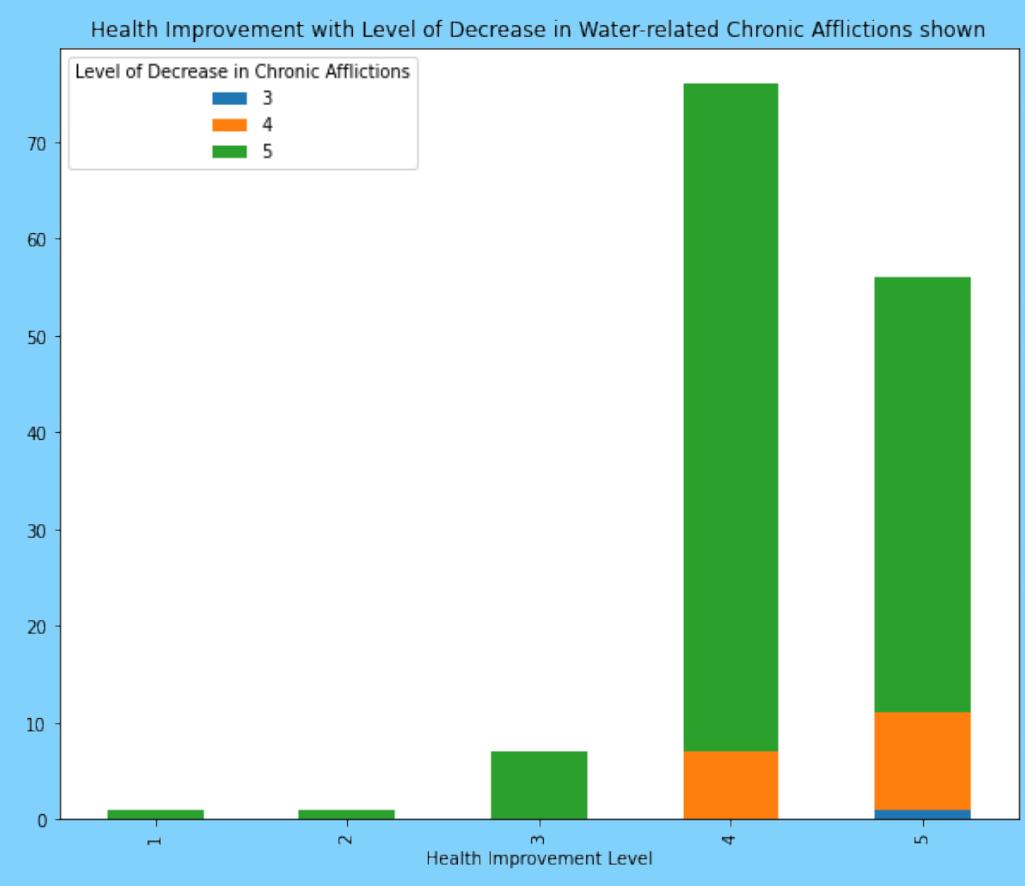
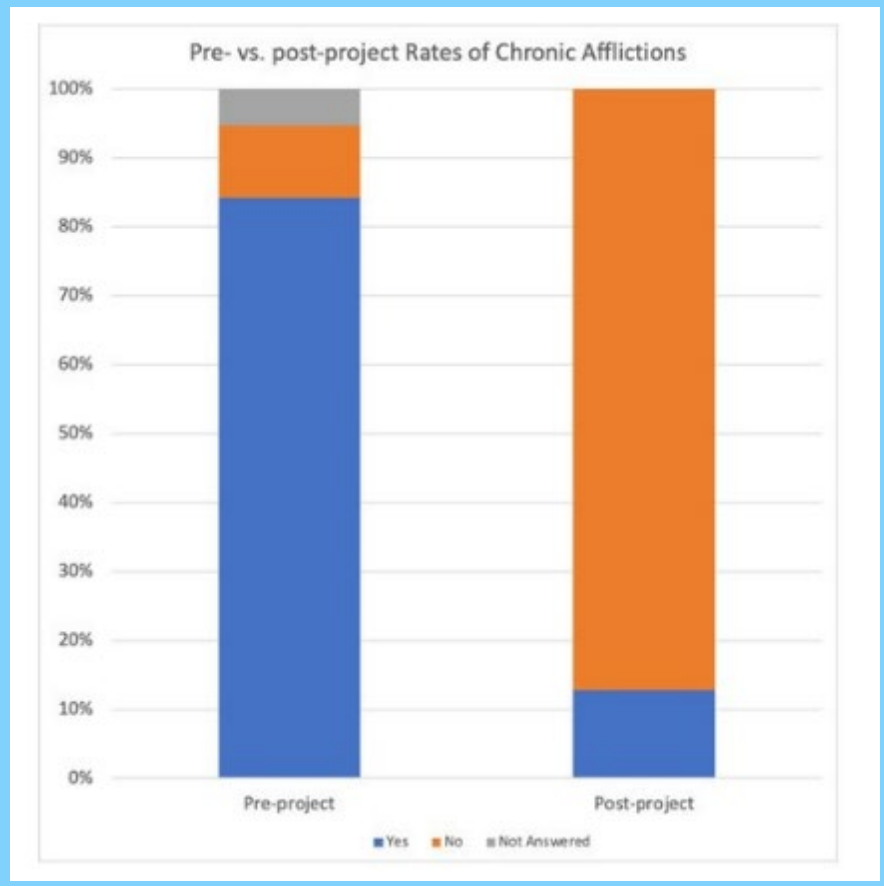


- **90% of people** use the Water Treatment Facility as their primary source of water
- **Sewage backing up** into the streets and into people's homes has been **eliminated**
- Community has **taken full ownership of their water and wastewater needs...**
  - Through capital improvement projects
  - Repair of existing infrastructure
  - Proactive maintenance of their systems



LASTING IMPACT

# HEALTH AND QUALITY OF LIFE IMPROVED



### Chronic Waterborne Illness Rates:

- Pre-Project: 84%
- Post-Project: 13%

**\*This equates to 5,000+ people no longer suffering from Chronic Waterborne illnesses!**



# The Future

Simply Surviving to Truly Thriving!





# OUR WORK



[Learn More About the Communities on the Interactive Map on the "Our Work" page of the website](#)

**PIURA REGION OF PERU**

- ★ 1 Project Completed | 7,000+ Served in 2019-2021
- 📍 2 Projects Underway in Planning & Engineering (1,500+ People more to get clean water by end of 2024)
- 🟩 5 Other Projects in the Pipeline for the next few years (2,000+ People more to get clean water by 2027)



# SOCIAL IMPACT



## What's the Impact?

Recurring Giving	Annual Giving	What does this Gift do every year?
\$25.00	\$300.00	Provides clean water to 6 people every year for generations to come.
\$50.00	\$600.00	Covers the cost of Water Sampling & Quality Testing for 1 community.
\$75.00	\$900.00	Provides clean water to 18 people every year for generations to come.
\$100.00	\$1,200.00	Covers the cost for 1 person to travel on a VAVV mission trip to/from Peru.
\$150.00	\$1,800.00	Provides clean water to 36 people every year for generations to come.
\$200.00	\$2,400.00	Covers 15% of the labor costs associated with project and program delivery and implementation.
\$250.00	\$3,000.00	Provides clean water to a small rural community of 60 people every year for generations to come.



For every

\$50  
donated

1 person  
gets

clean water  
for generations

OR WHAT WE LIKE TO SAY:  
\$50/MONTH PROVIDES CLEAN  
WATER & SANITATION  
SERVICES TO 12 PEOPLE  
EVERY YEAR GENERATION  
OVER GENERATION!



# ALL WAYS TO GET INVOLVED

TAKE ACTION



## 1. TIME

- a. Be an Advocate
- b. Solidarity Challenge

## 2. TALENT

- a. Volunteer
- b. Project Trip

## 3. TREASURE

- a. Donate
- b. Fundraise



# SOLIDARITY CHALLENGE



Choose one day (24 hrs) to take the challenge.

*If you observe lent, Friday's in Lent make a great day to take the challenge — that way you can practice lenten abstinence and grow in solidarity at the same time!*



Fill a container with one gallon of water.

*Hint: Use a large milk jug, or marked water bottles (4 liters approximates to 1 gallon)!*



Use that gallon for ALL your water needs.

*(Drinking, washing hands, cooking, cleaning, etc)*

# SOLIDARITY CHALLENGE (Cont.)



Record a video on your experience.

- 1) Introduce yourself
- 2) Answer the question, "Why are did you do this challenge?"
- 3) Share the impact you hope to have!

*\* See some examples below*



## Post it.

Tag VAVV (and #SolidarityChallenge) and challenge someone to take the challenge next!

## You did it!

You lived in Solidarity with millions around the globe and had an eye-opening experience of living with water scarcity!

GET INVOLVED

# THE RIPPLE

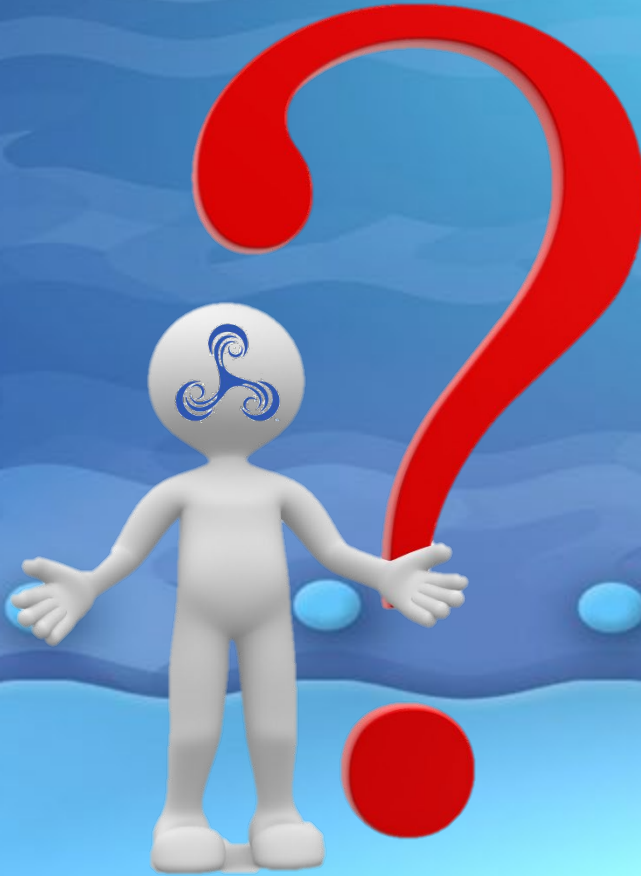
*An empowered community of Vera Aqua Vera Vita Recurring Donors that we call Mission Partners because they are the backbone and Champions for the cause of giving...*

***TRUE WATER TRUE LIFE!***



**GIVE A RECURRING GIFT THAT MAKE**  
**RIPPLES IN PEOPLE'S LIVES THAT**  
**LAST FOR GENERATIONS**





GET INVOLVED/CONNECTED:  
[WWW.GIVETRUEWATER.ORG](http://WWW.GIVETRUEWATER.ORG)



Vera Aqua  
**Vera Vita**



Vera Aqua  
**Vera Vita**



Vera Aqua  
**Vera Vita**

**Give True Water  
True Life**

