



Xela Aid Water Initiative

STAGE 1: Building Foundations for Drinking Water Quality

1. Water Quality Diagnosis	
a. Field water quality laboratory equipment	\$ 2,000
b. Supplies and replacement chemistry (per year)	\$ 1,500
TOTAL	\$ 3,500
2. At Home Water Treatments	
a. Ecofilters (Made in Guatemala), \$30/ea X 500 households	\$15,000
TOTAL	\$15,000
3. Disease Diagnostics (Clinic's Laboratory)	
a. Clinical microscope	\$ 2,000
b. Hematology apparatus and supplies	\$ 5,000
c. Chemistry apparatus and supplies	\$10,000
d. Laboratory furniture	\$ 2,000
TOTAL	\$19,000
4. Education	
a. Puppet Theater on water issues	\$ 500
b. Posters on Water Quality	\$ 500
TOTAL	\$ 1,000
Subtotal:	\$38,500
Administrative Overhead (10%)	\$ 3,850

TOTAL STAGE 1	\$42,350
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STAGE 2: Guaranteeing Clean Drinking Water Supply for All

1. Water sources evaluation and improvement	\$ 5,000
TOTAL	\$ 5,000
2. Chlorinators and Ozonifiers	
a. Chlorinator for main well	\$ 2,000
b. Ozonifiers/chlorinators for clinic and school (2)	\$ 3,000
c. Other ozonifiers/chlorinators (4)	\$ 6,000
TOTAL	\$11,000
Subtotal:	\$16,000
Administrative Overhead (10%)	\$ 1,600

TOTAL STAGE 2	\$17,600
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STAGE 3: Preserving Future Drinking Water Availability and Quality

1. The Mountaintop Preserves (Exact Cost of Land TBD)	\$50-100,000
TOTAL	\$50-100,000
2. Reforestation Projects	
a. Forestry Nursery (with schools)	\$10,000
b. Education Campaign	\$2,000
c. Outplantings (transportation, supplies, tools)	\$1,000
TOTAL	\$13,000
Subtotal:	\$63,000-\$113,000
Administrative Overhead (10%)	\$6,300-\$11,300
TOTAL STAGE 3	\$69,300-\$124,300

Future Projects in Environmental Management

- Solid Waste Program
 - Solid waste study (quantities, quality, composition, etc.)
 - Sanitary landfill (land acquisition, construction, management)
 - Recycling micro-enterprises (aluminum, glass, paper, composting)
 - Education campaigns
- Sewage and Served Waters program
 - Waste water treatment plant (collection pipes, sewage system, settling ponds, etc.)
 - Latrines, septic systems and other appropriate solutions for rural areas
- Surface Water Restoration Program
 - Riparian areas clean-ups and restoration
 - Stream water quality studies and monitoring (e.g., Adopt A Stream)
 - Education Program
- Agricultural Best Management Practices
 - Soil conservation
 - Water drainage and conservation
 - Pesticide use (natural, chemical, pest management)
 - Fertilizers and nutrients
 - Cooperatives and marketing
 - Animal husbandry
 - Mixed family “milpas” for sustainable farming