



AguaClara



Progress

The green marked places are potential AguaClara sites
A donation from you today can help make this happen

“Empowering Small-Communities with Sustainable water Purification Technology”

AguaClara is providing clean drinking water to 15,000 Hondurans whose communities were previously without a clean water supply. The first AguaClara water purification plant began providing clean water in 2007. Plants have been constructed in Ojojona, Marcala, Tamara, Cuatro Comunidades, and Agalteca; several other plants are currently being designed and built as well. Sites for plants are chosen based on local community commitment to the project and the presence of a distribution system. AguaClara is responsible for the research, design, capacity building and training for each plant. Students are continuously working to develop the most efficient and cost effective water treatment technologies in order to improve our existing plants and to design new ones.



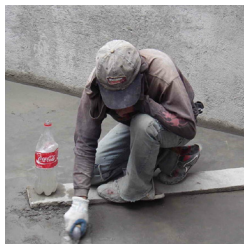
Cornell University
School of Civil and Environmental Engineering



You Can Donate Today!

The AguaClara project is supported by a network of dedicated donors and sponsors as well as by Cornell University. These individuals, companies, and institutions help support the research, design and implementation of our technology in Honduras. Your support can help us bring clean water to thousands of individuals who would not otherwise have access to it. If you would like to donate, you can do so on our website aguaclara.cee.cornell.edu or by mailing a check with “AguaClara” to:

AguaClara
220 Hollister Hall
Cornell University
Ithaca, NY 14853



Research

AguaClara members work to improve the efficiency and robustness of the water treatment technology. Team members also use computational fluid dynamics software to model and test new ideas to further improve the system design. Also, the AguaClara team practices open source engineering. The team is dedicated to providing open access to all of our design work using web based design tools. This commitment to open source engineering makes it possible for engineers to access an automated, web-based, design tool that will enable partner organizations to obtain detailed design documentation. This includes 3-D CAD drawings of an AguaClara plant customizable to the size of local materials.

Our Advantage

Social sustainability is of key importance to the AguaClara team. The first concern for plant design features is that they be practical for the communities using them. All AguaClara plants are built by community members through construction projects supervised by the Honduran NGO Agua Para el Pueblo (APP). Our plants are gravity powered and built on site using local materials.



About Us

AguaClara sustainable water treatment design is a research group devoted to delivering clean water to communities in Honduras. Research in water treatment occurs in the school of Civil Engineering at Cornell University. The water treatment plants are built in Honduras by local labor using local materials, and they don't require any electricity. Our municipal water treatment plants use flocculation and sedimentation to treat turbid surface waters in a simple and affordable way. By adding Alum, a safe chemical commonly used in water filtration, to dirty surface waters from rivers and streams, the water is filtered and then delivered to communities.

AguaClara Mission

AguaClara's mission is to improve drinking water quality through innovative research, knowledge transfer, open source engineering and design of sustainable, replicable water treatment systems. Under the leadership of Professor Monroe Weber-Shirk, a dedicated group of undergraduate, graduate and post doctoral students from a variety of disciplines contribute to this mission.

