

Foam Filtration Detailed Task List Fall 2012

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1. Add a chemical dose controller for coagulant and chlorine to the filtration system.
 - (a) Add the necessary chemicals to stock tanks and chemical dosers using the latest technologies.
 - (b) Create a frame design that can be obtained and easy to assemble in Honduras.
2. Develop an operator friendly method of determining when to clean the filter.
 - (a) Observe past team members setting up the system and record the difficulties encountered.
 - (b) Develop recommendation to make the system more user friendly by creating a 1 page illustrated guide and testing the system by having an individual operate the system.
 - (c) Develop a protocol to minimize spikes in filtered water turbidity after cleaning and guidelines for setting up coagulant doses.
 - (d) Determine what the operator should use as feedback to determine whether the dose should be increased or decreased.
3. Communicate with Agua Para el Pueblo about the best method to deploy the technology.
 - (a) Explore the possibility of using such a system permanently at a school or community.
 - (b) Create plans for deployment as an emergency system and pack a test system for transport.
 - (c) Coordinate plans so there is an opportunity to display a model at a school or community.
 - (d) Research the supplies for reticulated foam in Honduras.
4. Find a way for the operator to easily determine breakthrough.
5. Find a way to run the filter without electricity.