



SAFE WATER INTERNATIONAL

Colonia Miguel Hidalgo Solar Water Pasteurization System Installation May 26, 2006.

Water in this small rural village of about 100 residents has good clarity but tested positive for fecal coliform. There is no cheap source of electricity in the village, but the well which serves the community has good water pressure during its four hours of daily operation. The SunRay solar pasteurization system selected for the village is the only commercially manufactured solar drinking water unit and is designed to provide up to 200 gallons per day of potable water. Experience with this unit will demonstrate the practicality of solar treatment in communities with no electricity.



The installed model utilizes copper tubing. It is well designed and manufactured. The installation kit for the unit was complete and installation instructions were clear and helpful. Installation took one full work day, and the unit began functioning immediately when the final pipe connections were made. Because the community water well pump operates for four hours in the morning and early afternoon, the unit is expected to provide 100 gallons of potable water per day. As with the other two installed units, water testing and customer satisfaction surveys will continue throughout 2006. The unit's location at the primary school in Colonia Miguel Hidalgo offers the opportunity to add rainwater storage as a second source of feed water for the solar unit.