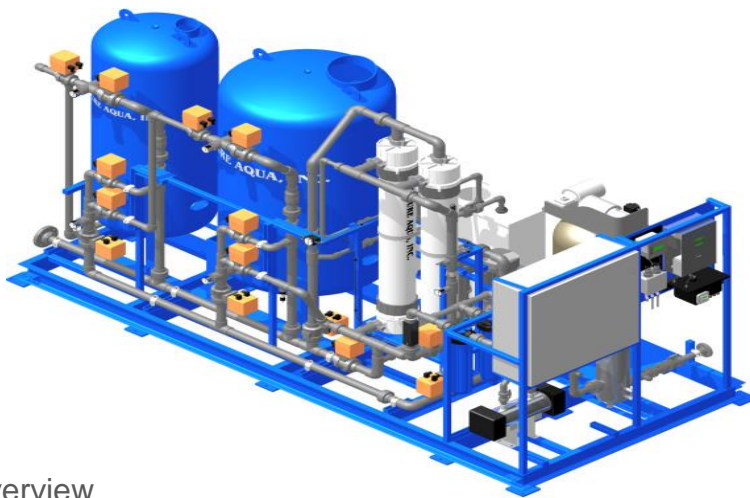


## Ultrafiltration (UF) Water Treatment Systems

In July 2012, Pure Aqua successfully designed and manufactured four (4) Ultrafiltration (UF) water treatment systems to provide potable water for the construction phase of two remote mines in Panama. The most challenging factor was purifying feed water from local rivers since they were high in organics, suspended solids, and iron.

Pure Aqua, Inc. manufactures a full line of Ultrafiltration Systems. UF is a pressure driven membrane separation process that removes suspended or particulate matter (including colloids & silt) from water. This solution is far more reliable than a conventional multimedia filter, which removes approximately 10 micron or larger matter, where a UF membrane pore size ranges from 0.01 to 0.10 micron. In addition to superior turbidity removal, UF membranes efficiently remove bacteria and most viruses.



### Plant Overview

Location: Panama

End-User: Mining Company

Objective: Supply potable water for remote mining camps

Water Source: River

Feed TDS: < 300 ppm

Plant Capacity: 3 m<sup>3</sup>/h

Pretreatment: Supply pumps, coagulant dosing, flocculation dosing, clarification, break tank, booster pumps, multimedia filter, activated carbon filter, Ultrafiltration, oil absorbing filters, 0.2 micron filter, UV and post disinfection (chlorine).

Control System: PLC with color touch screen

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Designed and  
Manufactured in  
Southern California,  
USA

Pure Aqua Inc. is an  
ISO:9001 certified  
company with over a  
decade of experience  
in advanced system  
design and  
manufacturing.

Using the latest  
technology in 3D  
Computer Aided  
Design (CAD) software  
allows for highly  
detailed and functional  
design. This reduces  
material cost and  
environmental impact,  
while maintaining  
quality and reliability.

Our modular systems  
are engineered for  
ease of integration and  
delivery to many  
locations worldwide.