

City of West Carrollton

Municipal Potable Water Supply



Year: 2004

Start-Up Date: 2005

Client/Owner: Ulliman Schutte Contractors

Engineer: MWH Constructors

Location: West Carrollton, OH, USA



Application: Portable Potable Water

Scope of Work: Ten containerized surface water treatment systems; process included coagulation, clarification, media filtration, RO, chemical treatment and chlorination.

Operation Data: Feed water TDS: Up to 5,000, Permeate TDS: 70 PPM, Permeate flow: 60, 120, 240 GPM (3 models), Recovery: 75%, with 8.5% permeate blending, 6.5-9.2 pH range, Other: 2/1 (2 Stage) for 2.5K, 3/2 (2 stage) for 5K, 5/3 for 10K

Capacity: 10,000 Population = 350K GPD;
5,000 Population = 175K GPD;
2,500 Population = 87K GPD

Project Summary: Complete supply of containerized surface pretreatment and RO equipment with the following plant capacity rated for 2,500, 5,000, & 10,000 populations. Assorted tanks were supplied for flush mixing (80 - 320 gal), flocculation chamber (935 - 3,500 gal), and clarifier (80 - 330 gal) were supplied to meet the RO water requirements.