

Location: California



AMI system transforms crop production in agriculture industry

Water quality issues can compromise plant health and crop yields. AMI systems offer a reliable and effective solution.

Challenge

One of the largest wholesale tree nurseries in California was facing a costly issue—poor crop yields due to high levels of contaminants in the feed water.

The nursery was committed to providing high-quality flowers, trees, shrubs, and services in the green industry.

Issues such as bacterial contamination, chemical pollutants, and high levels of chlorides in the well water, however, posed a threat to plant health and growth.

Recognizing the importance of addressing these water quality issues, the client turned to Applied Membranes for expert guidance.

The customer needed a custom-designed water treatment solution for its operations. The system would need to meet specific dimensions and enhance water quality for irrigation.

Shipment had to be completed within 2 months.

Solution

Applied Membranes designed, built, and installed a state-of-the-art **250 GPM (57 m³/h)** water treatment solution.

The AMI water treatment solution reduced total dissolved solids (TDS) and removed harmful contaminants and chlorides that were impeding plant growth.

Key Components:

- UV disinfection
- Chemical injection
- Clean-in-place system
- Remote monitoring

Results

Applied Membranes provided a water treatment solution that produced high-quality water for irrigation (**5 ppm or less product water TDS**).

By effectively reducing chlorides and eliminating other contaminants, the AMI system played a pivotal role in delivering high-quality water for nursery plant production.

AMI RO system addressed water quality issues, leading to improved plant health and crop yields across the nursery.

The nursery experienced a boost in crop yields, plant quality, and marketability of its products.

