

## Virgin Valley Water District Mesquite, Nevada

### PROJECT OVERVIEW

As one of the fastest growing regions in the United States, Mesquite Nevada and the surrounding communities of Bunkerville faced many challenges posed by explosive growth and the need to provide the community with a safe water system.

The Environmental Protection Agency (EPA) established strict regulations for the arsenic standard for drinking water at .010 parts per million (10 parts per billion) to protect consumers served by public water systems.

Due to these regulations, Virgin Valley Water District received an ambitious plan connecting 5 individual arsenic removal plant sites through telemetry with PLC Cabinets, and HMI displays.

( More information can be viewed at:  
[www.epa.gov/safewater/arsenic/index.html](http://www.epa.gov/safewater/arsenic/index.html))

### CLIENTS GOALS

- Comply with EPA regulations
- Develop a SCADA system built on non-proprietary technology
- Provide a cost-effective, dependable system with exceptional uptime
- Provide an easy-to-use Graphical User Interface (GUI) to operations personnel with concise data

### SCOPE OF SUPPLY

#### Turn Key Plant Automation

- CAD Documentation
- Commissioning & Start-up
- Control Panel Fabrication
- Electrical Control Design
- System Training
- Emergency Support

### SOLUTION

#### Production Benefits:

- Maintainable system with reduced downtime due to the highest quality components and construction standards used
- Contributed to reduced manpower requirements due to remote monitoring capabilities
- Contributed to enhanced data management
- Reduced maintenance

### CONCLUSION

By using Intuitive Systems Solutions, a company of NAS for its monitoring and control system, Mesquite now has a reliable system, ongoing support, and has eliminated the need for costly and time-consuming daily site visits which are vital to production.