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adedge technologies

Intelligent Thinking...
...Clean Water

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What's New!

AdEdge H2Zero

AdEdge Adds More People...More Space

Iron & Manganese Issues Solved for NM Village

AdEdge Competitive Advantage:

100% of our customer surveys state they would recommend AdEdge.

Employee Spotlight

AdEdge H2Zero Recycle/Backwash Systems Save Water And The Environment

H2Zero™ Recycle Backwash Systems

by AdEdge Technologies Inc.

Developed by AdEdge, H2Zero Recycle/ Backwash Systems conserve water by storing and treating residuals in backwash water from filtration and treatment systems. Nearly all water filtration-related processes that remove target contaminants generate some liquid or solid residuals that need to be subsequently managed.

AdEdge H2Zero systems can be customized and designed for most manufacturers' adsorption, oxidation and filtration systems, whether backwashing is infrequent or performed one or more times per week and can be retrofitted into already installed treatment systems.

Key features include a vertical polyethylene or a steel tank for holding the backwash water, a reclaim pump skid, integrated

Diego Cuesta

Diego Cuesta is an Electrical Engineer at AdEdge Technologies with over 18 years experience in progressive Electro-Mechnical Engineering.

Originally from Havana, Cuba, Diego has a strong background and experience in the installation, start up and commissioning of remote automation projects using programmable logic control systems. He has worked on projects in countries around the world and is fluent in English, Spanish and Chinese.

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controls, particle filtration, as well as information data for solids management.

System Benefits Include:

Optimal use and maximum conservation of water

Regulatory agency acceptance

Environmentally friendly solution that requires little or no permitting

Reclaim system can be automated for minimal operation and maintenance

Controls can be integrated with a treatment system PLC and touch screen panel, when available

Contaminants are reduced in volume and safely managed on or off site.

AdEdge Adds More People...More Space

While most business in this tough economy have been downsizing, AdEdge has been growing! Our staff has grown nearly 20% over the past year and we have added more than 40% more office and manufacturing space.

Iron & Manganese "Red Water" Issues Solved for Village of Corona, NM

In the fall of 2008, AdEdge was selected by Village of Corona, NM to design, manufacture, and startup a water treatment system for the removal of iron and manganese. The water system that serves approximately 100 connections at Corona was plagued by

high iron and manganese in the main water supply with iron from 0.26 - 2.8 mg/L and manganese levels from 0.094 - 0.17 mg/L, each well above the EPA secondary maximum contaminant levels. Usage is

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Up-coming Industry Presentations by AdEdge Employees

California Rural Water Association Conference
Greg Gilles: Vice President

Workshop Topic:
Treatment Options and Strategies for Achieving Arsenic Compliance in Public Drinking Water Systems

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Georgia Rural Water Association Conference:
Chad Miller, Project Mgr.

Topic: Iron & Manganese Removal from Groundwater

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approximately 40,000 gallons per day with seasonal fluctuations. The water system was injecting sequestering agents as a means to help reduce the down gradient effects of this high iron and manganese, but needed a better, more permanent solution to address the problem.

AdEdge worked closely with the Village to provide engineering design drawings and submittals to obtain necessary approvals with the New Mexico Environment Department (ED). A key factor in selecting AdEdge's AD26 packaged oxidation / filtration technology was the small footprint that allowed the system to fit within the existing well building with no major modifications, saving the community thousands of dollars.

Treatment System:

The AdEdge APU System, model AD26-4260CS-S-3-AVH, is a pre-engineered, skid mounted system (APU) using our AD26 oxidation/filtration technology for iron/manganese removal. The AD26is a highly catalytic manganese dioxide based media for efficient co-precipitation or adsorption of the iron/manganese oxides. The system is fed with sodium hypochlorite to facilitate the process and aid in the oxidation of iron primarily and to maintain a desired oxidative state. Backwashing is performed at frequencies determined by the iron/manganese loading of the filters. The media is NSF 61 certified and used commonly by AdEdge for these types of applications. The system is fully automated with electric actuated butterfly control valves, PLC-based control panel for system functions. The system also includes a backwash supply pump skid from AdEdge that is integrated with the system and controls.

Performance:

Since start up and commissioning in March of 2009, the system has consistently removed iron to non-detect levels treating an average of 40,300 gallons per day.

"Once the final adjustments were made to the chlorine feed pump and to the backwash times, this unit has been operating flawlessly", said Turner Wilson, Public Works Director, Village of Corona. "Maintenance has been minimal." The Village has not experienced any "red

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water" since the plant has been on line."

The system along with photographs is also prominently displayed on the Village of Corona website as a testimony to the success of the project.