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AdEdge Technologies Installs Iron and Manganese Removal System in California

Innovative Treatment Alternative Brings Public Water System Into Compliance With MCLs

(October 2004 – California) AdEdge Technologies Inc., a nationally recognized company in arsenic removal, recently devised a treatment alternative for iron and manganese for a public water system in California. Pacific Advanced Civil Engineers engaged AdEdge to install treatment for a high demand water supply well that yielded between 180 to 220 gallons per minute (gpm), which was not achieving compliance with the Safe Drinking Water Act secondary maximum contaminant levels for iron and manganese.

The AD26 systems are pre-engineered, packaged treatment systems that are specifically designed as a new alternative to iron, manganese and arsenic removal from drinking and process waters. The system, which was retrofit to the current system in March 2004, includes three pressure vessels in parallel with its NSF Standard 61-certified AD26 Catalytic Oxidation/Filtration media, a high flow rate, granular filter media used for removing hydrogen sulfide, iron and manganese compounds from water supplies.

Prior to the AD26 system, sodium hypochlorite is added in order to increase the rate of oxidation of iron and manganese. Iron and manganese often are naturally occurring in a dissolved form in normal ground water pH ranges. In the presence of an oxidant, these ions are oxidized. Hypochlorite, in conjunction with the AD25 catalytic media, can further assist in increasing the rate of natural oxidation of these dissolved species to form insoluble products, namely $Fe(OH)_3$ and MnO_2 , which can be filtered.

Proving its success during the first seven months, the new system has resulted in consistent removal of iron and manganese to below treatment standards. In addition, filters are continuously operating near or higher than the design flow of 180 gpm for 22 hours per day. Vessels require backwashing two times per week in order to maintain high removal efficiencies.

For more information about iron and manganese issues and water treatment options, please contact AdEdge Technologies at 866.823.3343. Photos and performance charts are available by emailing rich@adedge technologies.com.

About AdEdge Technologies Inc.

AdEdge Technologies (www.adedge technologies.com), based near Atlanta, Ga., is an innovative manufacturing, distribution and technical services company supplying specialty adsorbents, integrated water treatment systems and other products for contaminant removal from process or drinking water systems, environmental remediation, chemical, wastewater and pharmaceutical applications.