

# Integrated **WATER** Services, Inc.

## Construction of Water, Wastewater, and Reuse System for New Mexico School District

*Ojo Caliente, NM* – IWS completed a water, wastewater, and reuse infrastructure construction project in late 2005 at two Mesa Vista Consolidated Schools in Northern New Mexico. The two schools are located fifteen miles apart and were constructed concurrently with different scopes of work. The project was part of the district's facilities upgrade program for water and wastewater systems. In addition, recycled water from the wastewater system at Mesa Vista Elementary school was reused to irrigate their athletic field. IWS self-performed all the construction work with the exception of the electrical installation.

The work at Mesa Vista Elementary School required work on both the water, wastewater, and reuse system, and included constructing the following: a) a 10,000 GPD recirculating sand filter (40' by 50' by 4') using a masonry wall with PVC lining; b) a 60,000 gallon cast in place concrete tank and lid – 60' by 10' by 10' with interior walls and set at a depth of 15 ft; c) subsurface irrigation piping under the football field and interior of the track area – forced dosing with PVC piping in pea gravel trench at 9" depth; d) a 34,000 gallon above ground water storage tank with Grunfos Triplex booster pump and control system for domestic water and fire lines.

The work completed at El Rito Elementary School included



*60,000 gal cast in place concrete tankformed by IWS crew*

modifying the existing water supply system to connect to an on-site well and to eliminate the reliance on a more expensive community water supply system. IWS upgraded the pumps and control system for the domestic water supply system which included installing the associated piping, installing a chlorination system with injection pump, and remodeling the existing pump house. On-site hazards included rattle snakes and the hot desert sun, but the work was completed on schedule without any incidents. IWS worked closely with Andy Torres, School Superintendent, and Gilbert Ferran the Regional Supervisor with the New Mexico Public Schools Facility Authority.



*Reuse of treated wastewater for irrigation of sports field*



*Constructing 10,000 GPD lined sand filter*

### For More Information Contact

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