

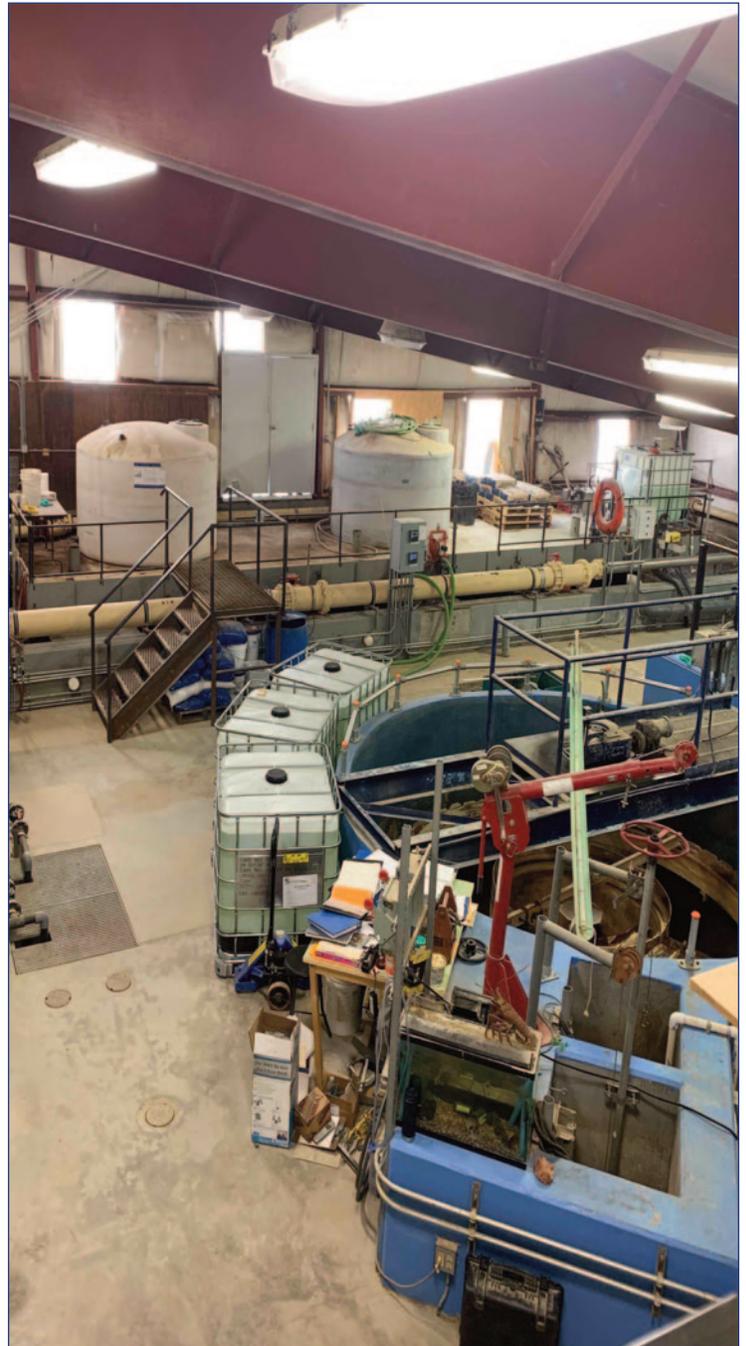
## Taos Valley Regional Wastewater Treatment Facility Utilizes IWS MBR Rental Program to Complete Upgrade of its Wastewater Treatment Plant

The Village of Taos Ski Valley (The Village) needed to upgrade its existing 2 MGD capacity extended aeration facility to meet present and future water quality needs. The Village selected a Membrane Bioreactor (MBR) technology because it was the most cost effective solution and produced the highest quality effluent. Effluent quality is critical as The Village discharges to surface water under a NPDES permit and is looking to use the recycled water in the future for irrigation at the Taos Country Club to maintain the greens.

A critical part of the project was to continue to treat wastewater during construction which required that the existing plant be bypassed. Integrated Water Services, Inc. (IWS) utilized an MBR from its Rental Fleet to process up to 85,000 GPD bypassed wastewater during construction so that the facility remained operational. The rental MBR unit



*Off-loading rental MBR*

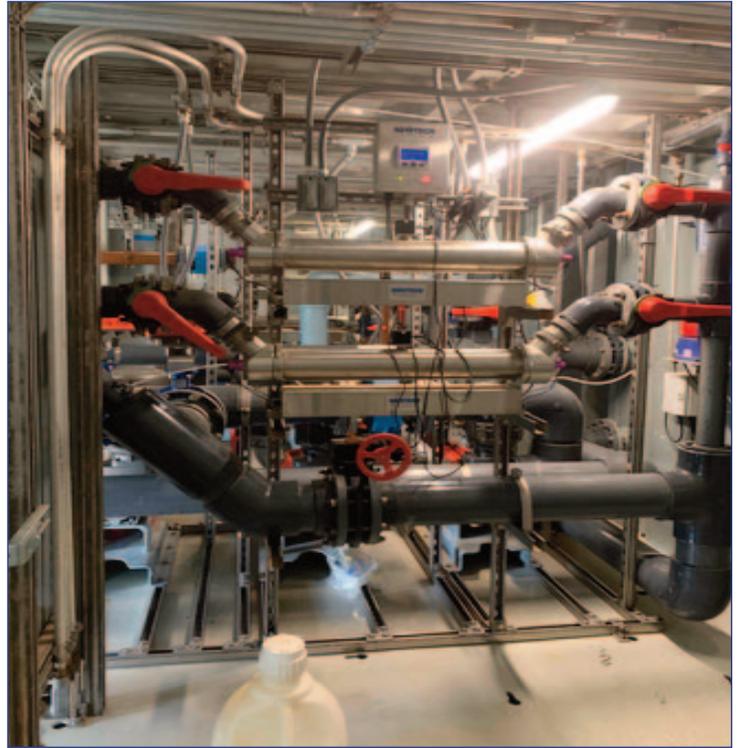


*Existing treatment facility prior to renovation*



*MBR units in new building*

was mobilized to the site and placed in operation within three days of its arrival, and one week later was meeting the regulatory discharge requirements. The rental unit operated for 6 months during the accelerated construction schedule.



*Piping in new MBR building*

The IWS MBR Rental was part of an \$8mm construction contract to upgrade the existing treatment system through a design, bid, build process. The specific scope of work included the following: replacement of mechanical fine screen



*New laboratory space in renovated building*



*Preparing concrete pad for MBR treatment building*



*IWS MBR rental unit operating throughout the winter*

in the headworks building, repurposing of existing concrete basins and the construction of additional below grade concrete treatment basins, installation of secondary treatment process equipment, replacement of ultraviolet disinfection equipment, new sludge holding tanks, and installation of the Owner provided MBR equipment.

Work included existing building expansion, building system improvements, excavation, backfill, compaction, concrete work, electrical, instrumentation and controls, heating and lighting systems, process equipment, piping, valves, and ancillary equipment, chemical feed systems, new yard piping and connection to existing infrastructure, demolition of existing steel tanks, site drainage and erosion control, and two new 50,000 gallon sludge holding tanks.



*Working through the weather at 9,000 ft elevation*

Anthony Martinez, the Public Works Director, said: "IWS did a great job anticipating and resolving issues to keep the project on track and worked hard to correct issues that were determined during installation. Although the project did have some delays due to a limited building schedule because of our elevation and early winter conditions. IWS did everything that they could to keep the treatment facilities (temporary and new) operational so that we could stay in compliance when the flows surged to capacity with the skier population. We highly recommend IWS and would welcome the opportunity to work with IWS again in the future."

#### **For More Information Contact**

**West, Northeast Regions** Peter C. Balas (pcbalas@integratedwaterservices.com) Tel: 925-895-3895

Jay Alman (jalman@integratedwaterservices.com) Tel: 707-291-5283

**Southwest, Midwest, Southeast Regions** Jeff Thomas (jthomas@integratedwaterservices.com) Tel: 720-221-4366

**Texas** Murray Holden (mholden@integratedwaterservices.com) Tel: 210-559-1383