



IWS Completes \$6MM Industrial Process Wastewater Treatment Plant

IWS recently completed a Wastewater Pretreatment Plant in the Rocky Mountain region for a large industrial client to treat process and domestic wastewater from its product wash area using an MBR and Ion Exchange treatment train before discharging to the municipal sewer. The project value including the owner furnished equipment and building was approximately \$6mm.

IWS set and installed all the treatment equipment, installed all the mechanical piping and components, and installed all the electrical, controls, and instrumentation for the project. The specific elements included:

- 1) Membrane Equipment - MBR and blowers
- 2) Solids Handling Equipment – Polymer and Dewatering Skid with WAS Storage Tanks
- 3) Chemical Feed – Sulfuric Acid and Sodium Hydroxide Feed Systems
- 4) Metals Removal – Ion Exchange, Pumps, pH adjustment
- 5) Screening – Mechanical Screens



Membrane Bio Reactor (MBR) Unit



Building foundation with penetrations



Waste Activated Sludge (WAS) Tanks



Ion Exchange Treatment

- 6) Compressors
- 7) Flow meters
- 8) Sump Pump Station – pumps, basin, pre-fab building
- 9) Lift Station – Influent pumps and piping
- 10) Potable Water Service
- 11) Sewer Effluent Line
- 12) Electrical, Controls, and Instrumentation – Control Panels, MCC, Instrumentation, Conduit and Wiring – over 3,000 linear feet of underground conduit.

Construction included 350 slab penetrations which required the use of AutoCAD and a robotic total station. IWS performed the start-up and testing of the system to make sure all components were working properly and the system was meeting performance specifications. Burns and McDonald (www.burnsmcd.com) designed the treatment system for the owner.

IWS was contracted by Carlson Construction of Joliet, IL to construct the treatment system. Rob Carlson, the President of Carlson Construction (www.carlson-construction.net) enjoyed working with IWS and commented, "IWS worked well under our accelerated schedule in constructing a complex treatment system to the satisfaction of all parties. I would welcome the opportunity to work with IWS in the future."



Completed Treatment Building

For More Information Contact

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