

**CLIENT: Voith Paper Fabric & Roll Systems, Inc., West Monroe, LA
Wastewater Pretreatment System**

VOITH

BACKGROUND:

Voith Paper Fabric & Roll Systems, Inc. is a German-owned company that repairs, refurbishes and maintains large rollers for the paper industry. These repairs/ maintenance include:

- Repair or replacement of journals
- Rubber roll covers
- Mechanical repairs
- Balancing

Repair activities are different for each roller that enters the facility. Any combination of the above can be conducted on the roller or its associated parts. These activities can be comprised of any of the following:

- Solvent cleaning
- Burning bar/lancing to remove journal
- Lathe removal of existing cover material
- Machining
- Welding
- Thermal metal spraying
- Abrasive blasting
- Application of rubber cover material
- Wet grinding of new cover
- Application of surface coating

These repair activities generate process wastewater which is constantly changing. CWS completed a design/build of a flexible pretreatment system that removes grit, adjusts pH, removes oil & grease, removes Total Suspended Solids, and removes metals to levels that consistently meet the required discharge limits.

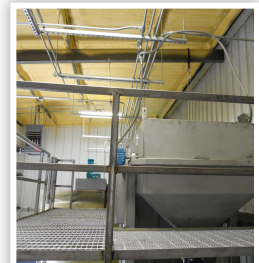
PROJECT REQUIREMENTS:

- Design/build of a multi-staged treatment process
- Small space for treatment system (20' x 40')
- Influent rate of 40 gallons per minute
- Increase the capability to treat surges of flow volume and contaminant concentrations

SYSTEM COMPONENTS:

- Oil separation and grit removal
- Flow equalization
- Neutralization/coagulation/flocculation
- Dissolved air flotation
- Effluent monitoring

- Maximized the layout of process equipment in limited space
- Effluent concentrations meet discharge limits



IND