

# CASE STUDY | Internet Of Things

## Taking bigger steps to leave a smaller footprint

Major produce of processed pork products was spending a lot of money on chemicals and labor for waste water treatment. To save labor costs chemical dosing was set at a fixed rate throughout the day.



### CHALLENGES

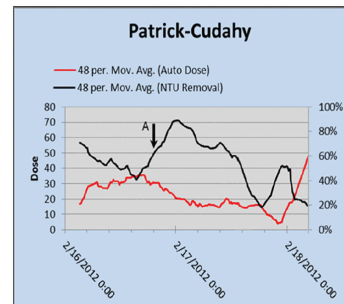
- Highly variable waste streams required constant jar testing and dosing adjustments to keep the customer in compliance and reduce chemical costs
- If the fixed rate was set to the worst case influent scenario, costs soared
- If the fixed rate was set too low for worst case scenarios, violations occurred

### SOLUTION

- **MacDermid Envio Solutions** monitored influent over several months to understand correlation between different contaminants such as NTU, COD and BOD
- **MacDermid Envio Solutions** selected sensors and designed placement before and after second DAF to minimize sensor fouling
- **MacDermid Envio Solutions** used custom algorithm to automate coagulant dosing based on influent study and treatability tests

### RESULTS

- Automated dosing reduced labor by 65%
- Automated dosing reduced chemical spend by 40%
- Violations were greatly reduced



Ask us about



**EnvioCARE**



See our web site for more details  
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