

HydroFLOW Case Study

Screw Press Struvite Treatment

Installed: September 2023 Last Inspection: November 2023



Background

The Customer

A wastewater treatment plant in the State of Utah, United States.

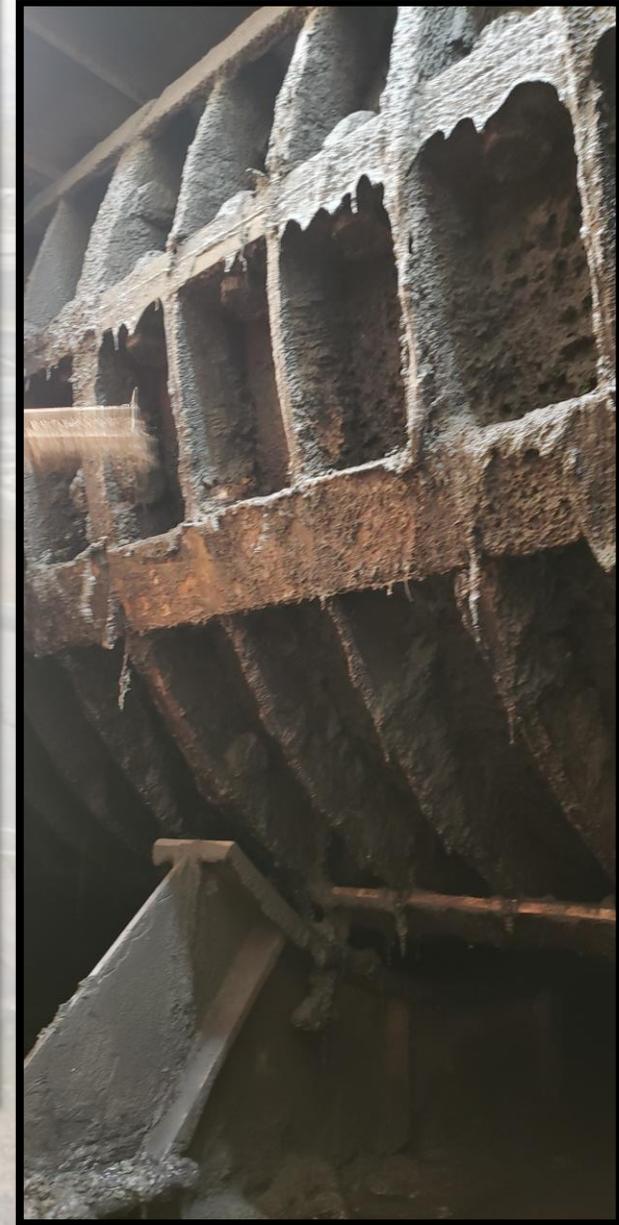
The Customer's Problem

Struvite accumulation in the plant's two screw presses is a constant and costly maintenance issue. The plant uses a Struvite reduction chemical costing \$8,000/month. The presses also require monthly cleaning, taking up to 30 hours to complete due to the concrete-like Struvite scale formation.

The plant chose to perform a two-month *HydroFLOW* product evaluation to determine the reduction of Struvite buildup, maintenance, and chemical usage.



Hard Struvite buildup inside the screw press



Installed Equipment

On September 26th, 2023, a Custom *HydroFLOW* i8" unit was installed on the sludge line feeding one of the screw presses.



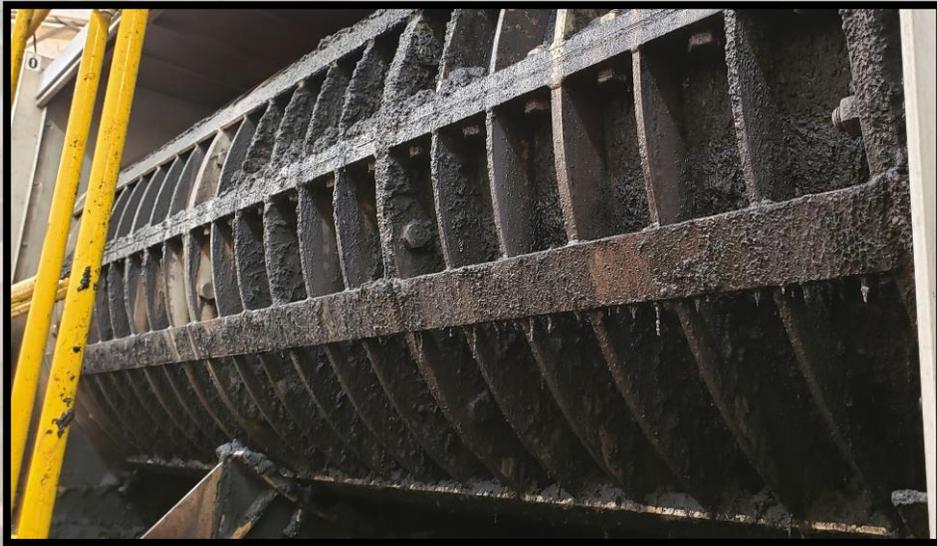
HydroFLOW Custom i8" Unit



Results

Rather than gradually reducing chemical usage, the plant chose to discontinue chemical usage to evaluate how *HydroFLOW* would perform on its own. After 30 days, the press did not require cleaning, and only had a little mud-like Struvite accumulation. After 60 days, the press was pressure washed, taking less than 4 hours to complete instead of the typical 30 hours with chemicals. The reduction of chemical usage and time saved in manual cleaning led to a 3-month payback period.

“Outstanding results! Night and day difference before and after *HydroFLOW*.” - Maintenance Manager



Soft Struvite buildup inside the screw press



Sheets of soft Struvite that easily washed off the screw press during cleaning

For more information, please contact: sales@hydroflow-usa.com