

Wastewater Treatment: Maximum Removal in Compact Space

Dissolved Air Flotation (DAF) removal of TSS, FOG and associated BOD at a dairy processor.
 Stuart Ward of *Process Engineered Water Equipment, LLC* explains system design...

Case Study

Oregon Ice Cream is as committed to product quality as it is to the protecting the environment. The company has built a strong following within the community by being a good neighbor. When it came to wastewater management they had their hands full as the entire facility



HD² XLRator LS-175

encompassed a city block, had an aging sewer easement through the center of the property and operated two separate manufacturing plants divided by active truck alley's. They needed to create a solution without disturbing production during the busy summer season. OIC owner Tom Gleason contacted PEWE to inquire about DAF equipment and asked for a first hand tour of the facilities to get a look for himself. A meeting filled in details on system engineering and DAF operation.

Super Compact System

PEWE surveyed the OIC grounds, noting available space, re-purpose-able tanks



PolyAccu Dose LD-20D

and saved OIC thousands in capital. The treatment system selected was PEWE **HD² XLRator™ LS-175 DAF** which could just fit under a roof area next to an old cream tank, now 10,000gI EQ tank to capture both plant flows. The DAF would remove TSS and FOG with their associated BOD from the wastewater. The system would then pump the solids to another handy re-used 5000gI stainless tank. The water is discharged to the POTW. A **PolyAccu Dose™** station provided chemical dosing to the DAF system. The complete system package was housed by dropping walls from the roof while the solids tank remained next to the truck alley. A PEWE **Command Control™** PLC was located in the building providing easy operator access to system.



Efficient MAX RGT Aeration

Final Results

OIC received installation support throughout the construction and start-up of the system by PEWE. The DAF removed up to 99% of the TSS and FOG. The solids are decanted to remove excess water prior to hauling, saving on fuel. Maintenance on the DAF system is less than anticipated at less than one hour a day.



TSS & FOG Solids Skimmer

Pay Off

Oregon Ice Cream's new DAF wastewater treatment system is a real gem. The new PEWE system provides a steady stream of clean water saving substantially on surcharges. OIC can now look forward to growing into the next decades with a better **Green** environment.



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