

Dissolved Air Flotation System



Dissolved Air Flotation (DAF) with Recycle Skid 30ft3 Filterpress with servo-assist plate shifter Control Panel with PLC.

Case Study Details

PARAMETER	INFLUENT	EFFLUENT
BOD(mg/l):	1700	330
TSS(mg/l):	440	45
O&G(mg/l):	545	110
pH:	6	7

Metal casting plants produce an effluent high in oil and grease concentration due to the number of lubricants, cutting oil-in-water emulsion used as part of the manufacturing process.

Oil in wastewater streams are generally undesired and not accepted by municipal by-laws as they can coat and damage equipment and may even evade biological treatment. Emulsified oil in water typically requires chemical pre-treatment to destabilize the emulsion to allow for DAF clarification.

Sludge generated from the DAF can be dewatered using a plate filterpress for economical storage and disposal.

H2FLOW have cost-effective installations in the metal casting industry and advanced experience in treatment of this type of wastewater.