

ISAM Sequencing Batch Reactor
375 m³/day**Case Study Details**

DESIGN CRITERIA FLOW: 375 m ³ /d ADF	INFLUENT	EFFLUENT
BOD:	205 mg/l	15 mg/l
TSS:	300 mg/l	15 mg/l
TKN:	40 mg/l	10 mg/l (NH ₃ -N)
TP:	6 mg/l	0.3 mg/l

This project was incorporated as part of an existing municipal treatment plant expansion, and the effluent is discharged to a nearby surface water stream. The plant is now operated by the Ontario Clean Water Agency.

H2FLOW EQUIPMENT INC. supplied a complete package with a PARKSON 6mm fine screw screen unit followed by a FLUIDYNE ISAM SBR system including blowers, and a TROJAN UV3000 PTP disinfection system.

The system has been operating very well and meeting the required discharge criteria. One of the inherent benefits of the ISAM system is the integral sludge digestion system. Sludge volume production is around 27 m³ per month at a higher concentration than that of conventional activated sludge treatment plants. The higher solids concentration reduces hauling and disposal costs.

Engineering Consultant: RG Robinson Ltd. (now AECOM)

Installation Contractor: Nadeco Limited

Start-Up: 2007