

**ISAM Sequencing Batch Reactor**  
**81.5 m<sup>3</sup>/day Avg.****Case Study Details**

	<b>INFLUENT</b>	<b>EFFLUENT</b>
BOD:	529 mg/l	10 mg/l
TSS:	580 mg/l	10 mg/l
TKN:	100 mg/l	1 mg/l
TN:	-	2.45 mg/l
TP:	15 mg/l	1 mg/l

An expansion of the Casino required doubling the capacity of the existing SBR plant. H2FLOW was chosen over the previous SBR plant supplier to provide this expansion.

H2FLOW EQUIPMENT INC. supplied a FLUIDYNE ISAM SBR system, followed by a PARKSON Dynasand filter for denitrification. It was delivered as a design-build project in co-operation with Matheson Constructors Ltd.

This project was delivered under a very tight delivery schedule and project management timeline. ISAM systems have the integral sludge digestion system. Sludge volume production is at a higher concentration than conventional treatment plants. The higher concentration of solids reduces hauling and disposal costs, greatly benefitting the owner / user with lower costs. The project was a Wastewater Treatment expansion for the Casino, Racetrack, and Slot Gaming Facility.

**Installation Contractor:** Matheson Constructors

**Start-Up:** August 2009