



PROJECT PROFILE

CASS™ - Cyclic Activated Sludge System



- Location:** Biat Netofa, Israel
Client: Netofa Sewage Board
Type: Municipal Wastewater Treatment Facility
Value: Not Disclosed
Date: Commissioned October 2001

Project Description:

This municipal wastewater treatment facility was designed for 25,000 population equivalent from predominantly Arab villages and towns.

The plant comprises inlet fine screens, single CASS™ SBR basin with RRC™ dissolved oxygen control, SCADA system, and effluent lagoon storage facility. Aerobic sludge digester, thickening and dewatering facilities are also provided for waste activated sludge treatment.

The plant is designed for an average flow of 2500 m³/d with a peak flow of 4000 m³/d. A high quality effluent is produced which is discharged into a storage lagoon prior to crop irrigation. Nitrification and denitrification reduce the total nitrogen of the wastewater while phosphorus removal is achieved biologically within the CASS™ SBR process.

Design Flow: 0.66 MGD (2500 m³/d) Peak Flow: 1.06 MGD (4000 m³/d).
Influent Conditions: BOD₅ 600 mg/L, TSS 600 mg/L, NH₃-N 60 mg/L, P 25 mg/L
Effluent Standard: BOD₅ 15 mg/L, TSS 15 mg/L, NH₃-N 2.0 mg/L, P 5 mg/L.