



Project Profile...



BDP Industries, Inc. Greenwich, NY

City of Auburn, NY
Wastewater Treatment Plant
Sludge Dewatering Improvements

Facility Contacts:

Chief Operator: Mark Storrs (315)253-6511
City Engineer: Frank Deorio
Facility Engineer: Stearns & Wheeler, LLC

Project Summary:

An existing vacuum filter produced a wet cake and used a large amount of slurried lime. With the cost to operate the City's sludge incinerator being largely dependent on the inlet cake dryness and chemical content, alternative dewatering technologies were evaluated. In 1987 a BDP Industries Model EM belt dewatering press was installed. A drier cake and decreased chemical usage dramatically improved the efficiency of the incinerator.

Because of this success, a second BDP machine was added for redundancy and increased throughput. A gravity belt thickener (GBT) was installed to dewater the waste activated sludge and trickling filter humus, prior to blending with the raw primary for final dewatering.

Mark Storrs is quite knowledgeable about dewatering equipment, and being a mechanic by trade, he fully understands the quality manufacturing that is incorporated in his BDP machinery. Mark's staff is responsible for operating and maintaining the sludge dewatering equipment.

Plant Data:

- ↓ # Design Sludge Feed Rates: GBT:420 gpm (0.5% solids) BDP:150 gpm (4% solids)
- ↓ # Sludge Characteristics: Blend of Raw Primary, Waste Activated, and Trickling Filter Humus

Belt Dewatering Press Equipment Components

Gravity Belt Thickener (1 machine)

↓ # 2 meter machine: 2,200 lbs/hour dry solids throughput; 1.25 percent feed

Belt Dewatering Press (2 machines)

↓ # 2 meter machine: 3,000 lbs/hour dry solids throughput; 3 to 4 percent feed solids