



# PLANT REPORT



## Scarborough STW

### Truck Loading Storage Silo with Sliding Frame Discharge Machine

Saxlund International Ltd won the contract to supply this truck loading silo for Scarborough Sewage Treatment Works. The de-watered cake is pumped into the top of the silo and Saxlund's Sliding Frame technology is used to discharge at 80m<sup>3</sup>/h into trucks. Because of the sensitivity of the site to odour escape, the supply included a 'drive through' tunnel with automatic roller doors at each end. The control panel for the system was also within our scope.

#### Saxlund products for silo and conveying technology:

Solids Handling Pumps ● Troughed Chain Conveyors

Screw Conveyors ● Combustion Plants

Sliding Frames ● Control Systems

Push Floors ● Rotary Valves

Elevators ● Tubefeeders





## Scarborough STW

### TECHNICAL DATA

**Saxlund project ref. no.:** SUK 1037  
**Year of construction:** 2004  
**Material:** De-watered Sewage Sludge Cake

**Bulk density:** 1000 kg/m<sup>3</sup>  
**Dry solids content:** 22 - 28%

#### SPECIFICATION

**Discharge rate:** 80m<sup>3</sup> hr into trucks

#### EQUIPMENT

**1 x De-watered Sewage Sludge Cake Storage & Truck Loading**

**Silo with Sliding Frame Discharge Machine**

**Silo diameter:** 6000mm  
**Silo capacity:** 184 m<sup>3</sup> gross  
**Sliding Frame type:** GL-6000-SX-DM  
**Hydraulic cylinder diameter:** 250mm  
**Hydraulic power pack motor rating:** 18.5 kW  
**Tank capacity:** 200 litres  
**Discharge screw conveyor type:** DM 450  
**Length:** 5800mm  
**Discharge screw motor rating:** 15 kW

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#### SAXLUND WORLDWIDE

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