

Alpha Skimmer Solves Sewage Scum Problem

Although the Alpha Skimmer was originally designed for removing oil from the surface of water, its versatility continues to prove useful for various effluents other than oil.

At a sewage facility, difficulty was encountered with a very thick scum forming on the surface of the aeration tanks. The scum - caused by filamentous bacteria - occurs mainly in hot or dry weather and though much of it settles out in time, the residue forms a thick layer which interferes with aeration.

As a trial, the 2" and 3" Megator Alpha Skimmers were used to determine which would be the most effective.



▲ Sewage tank before skimming cycle



▲ During skimming cycle

The Alpha Skimmers were placed on the surface of the aeration tank and the center weirs were adjusted to efficiently skim the surface material. The larger weir diameter and suction hose of the 3" skimmer proved to be more effective, particularly with the thick scum.

After only a few days, the surface was clear of all sewage scum.

A Stainless Steel Alpha Skimmer can be arranged for gravity flow in new construction while the complete Recovery Units are utilized for existing tanks as illustrated in this case study.



▲ Pump units

Equipment Used

- > Megator L200 Self-Priming Sliding Shoe Pump
Max. capacity – 60 GPM
Max. total head – 100 ft / 45 PSI
Max. suction lift – 23 ft
- > Megator Stainless Steel 2" & 3" Alpha Skimmers complete with 10ft of non-floating hose and 20ft floating suction hose



▲ Sewage tank during skimming cycle



▲ Sewage tank after skimming cycle