

Surface water treatment

Leachate basin, Traiskirchen, Austria



Compost plant
2514 Traiskirchen, Austria

Operation
1 OLOID Type 400 each in
rectangular basin (max. 90 m³)
and L-basin (max. 215 m³)

Period
Since 08/2018 (basin 1)
and 12/2018 (basin 2)

Success
Reliable odour removal

Avoidance of anaerobic biology

Plant description: At the commercial composting plant, the biological waste from communal collection is processed together with shredder material (green waste / shrub cut). The total annual amount of less than 10,000 tons of input material allows composting on open windrows. The rotting is thus in triangular heaps under the open sky on the asphalted area of the plant. Waste water from heaps and leachate from the heaps is collected in collecting basins - this water is used to irrigate the windrows when needed.

Problem: The wastewater is highly enriched with organic matter and develops under anaerobic conditions intensive odour emissions as well as digested sludge deposits in the basins. Watering the windrows with this anaerobically contaminated water impairs the composting process, which requires an aerobic environment for the bacteria.

Solution: Movement (agitation, circulate) and oxygen intake (aeration) with the OLOID technique.

For this purpose, both the rectangular basin (dimension: about 9 m length and 4 m width, max. 2.5 m depth left in the top picture) and the L-shaped basin (dimensions: approx. 9m or 4 m respectively width x 4 m or 14 m respectively length, max. 2.5 m, right in the top picture) each equipped with an OLOID type 400.

Success of the OLOID operation: Through the agitation and aeration of the leachate, all goals have been achieved:

- The odour emissions are evidently greatly reduced
- The "tipping" of biology to anaerobic environment was prevented
- The sludge deposits could obviously be reduced very much

The good success led to the fact that in December 2018 a further OLOID type 400 in the second basin (L-shaped) was installed.

See also a YouTube video:

<https://youtu.be/Aagl2260cps>

A project of our partner Öko-Recycling Bioabfallbehandlung - Maschinenhandel GmbH

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