



## Sewage Capacity Development for Pet Food Hungaria Ltd. in Sopronhorpács

### INDUSTRIAL WASTE WATER TREATMENT

flotation

flotation equipment and technology, industrial waste water treatment, stainless material, short construction period, simple to maintain, optimal sludge management



The trial run has started at the water treatment premises of the pet food manufacturer, where the treatment and purification of 100 m<sup>3</sup> of industrial waste, generated per day, happens. In the development, carried out by the main contractor, Pureco Ltd., the partner is Nijhuis Water Technology, with their BV treatment technology.

The flotation equipment, provided by Nijhuis Water Technology, is designed to separate floating and undissolved materials in water or process fluids. The use of high quality, corrosion resistant materials is space efficient, the construction time is minimal, it is easy to operate, the collection and delivery of deposited materials is automated, and in order to achieve the optimal slurry deposition the water height is adjustable. During the development a 40 m<sup>3</sup> buffer pool, a 40 m<sup>3</sup> of wastewater-, a 20 m<sup>3</sup> flotation sludge-, a 30m<sup>3</sup> excess sludge storage tank and an 80 m<sup>3</sup> pool was constructed to store the treated water. Pet Food Ltd. furthermore renovated the drinking water supply on site, the internal roads, pavements and sidewalks. The electrical technology and control engineering works were completed on schedule as well.

Laboratory measurements during the test verify the degree of purification.

| Parameter          | Unit              | Influent | Effluent |
|--------------------|-------------------|----------|----------|
| Flow               | m <sup>3</sup> /d | 1 000    |          |
| CODt               | mg/liter          | 7 000    | ≤ 120    |
| BOD5               | mg/liter          | 3 700    | ≤ 25     |
| TSS                | mg/liter          | 3 500    | ≤ 35     |
| Efficiency on CODt | %                 | 98       |          |

