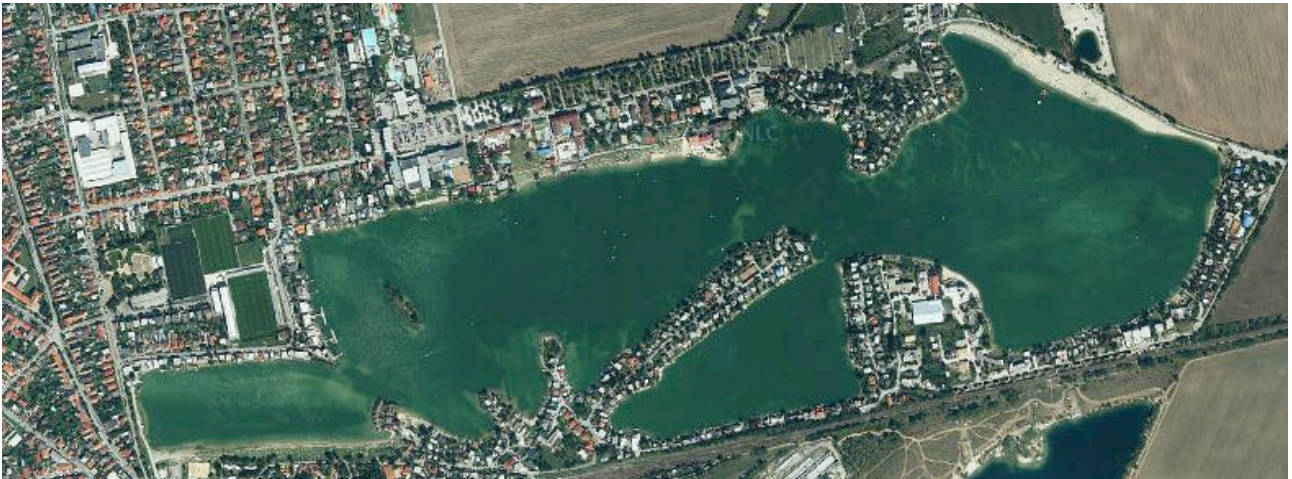


Bioremediation of Lake Senec

Lake Senec is one of the most popular touristic destinations in Slovakia. It was created in the 19th century as a gravel pit lake. Thanks to its exceptional water quality, and high transparency, it has attracted tourists till 2017. Eutrophication does not make any exceptions, increasing Ammonium, Nitrate, Phosphate concentrations resulted heavy bluegreen algae blooms since 2017.



After complaints from local inhabitants, and visitors, the local government acted: we have been treating the lake every year since 2021 with Bioclean Pond Clarifier and Bioclean Aqua.

	Before treatment	September 2025.
COD:	17.20 mg/l	2.72 mg/l
BOD:	1.90 mg/l	<1.00 mg/l
NH4+:	0.41 mg/l	0.14 mg/l
TP:	<0.03 mg/l	<0.03 mg/l

Bluegreen blooms have been significantly reduced for 2022, and have been eliminated for 2023. Since then, the lake awaits tourists, and swimmers in its original beauty again. **Cyanobacteria count has decreased from 9 500 - 20 000 ind/ml, to 76-170 ind/ml in Cyanobacteria peak season (August).** Pathogenic count has fallen also:

	Before treatment	September 2025.
Enterococcus::	292 ind/ml	5 ind/ml
E.Coli:	98 ind/ml	8 ind/ml



