

Landfill Leachate

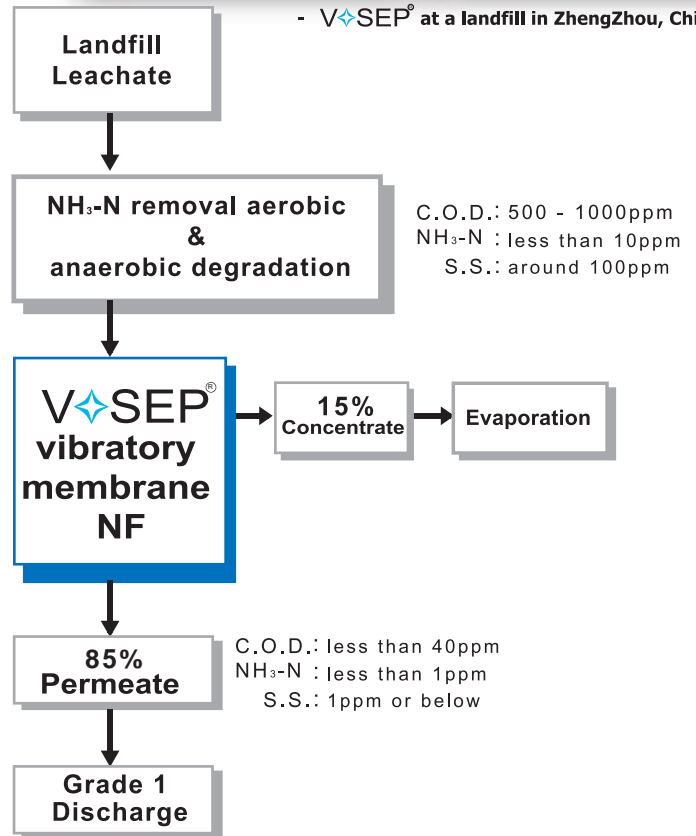
Landfill leachate is a complex and high concentration of organic wastewater. If not properly treated, it will create serious pollution.

Leachate is a landfill fluid coming from rainfall and garbage itself. Usually it has high level of COD_{Cr}, BOD₅, heavy metals, and ammonia-nitride. Micro organisms and nutrients are out of balance. Biological is the most popular and economical treatment method. But it is limited by the presence of tough substances and heavy metals. Therefore, membrane is placed after biological / chemical treatment to reach Grade 1 discharge standard. Conventional membrane treatment faces low flux and low concentration issues.

VSEP vibratory membrane technology can simplify treatment process. It has high anti-fouling ability, simple operation and can achieve discharge standard.



- VSEP® at a landfill in ZhengZhou, China.



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Membrane	Nano - filtration (NF)
Feed	NH ₃ -N removed and biological treated landfill leachate
Steady Flux	30 - 40 GFD
Temperature	Ambient temperature, around 30°C
Pressure	Around 30 bar
Recovery Rate	Around 85%
Daily Treatment Capacity	i36: 50m ³ i84: 150m ³