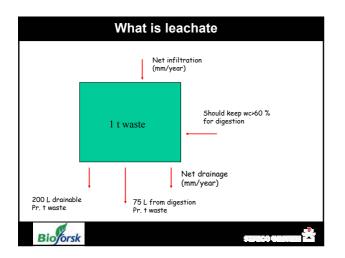
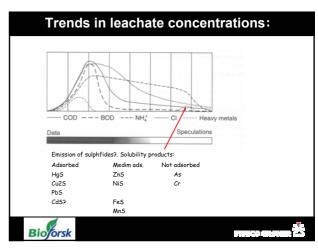


Leachate treatment i Norway

- Totally 100 municipal sanitary waste (MSW) landfills i use
- About 35 MSW landfills discharge raw leachate to sewers
- About 30 MSW landfills use on-site biological treatment - mainly aerated lagoons
- New regulations require liner to collect/control leachate and leachate treatment is compulsory











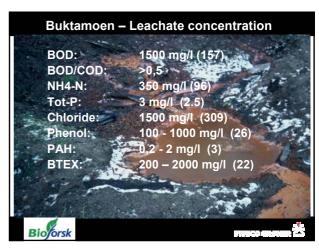


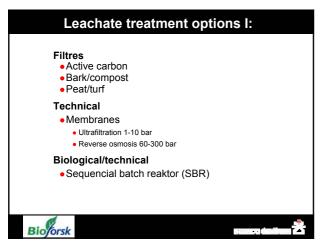


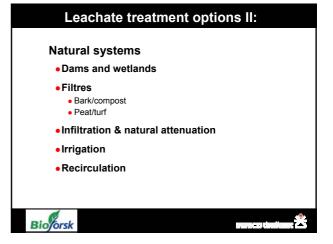




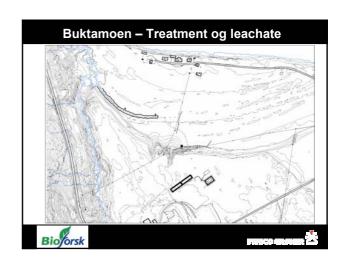




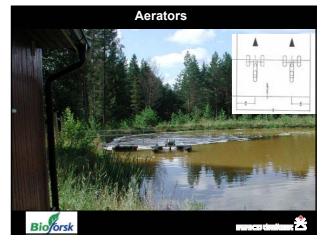




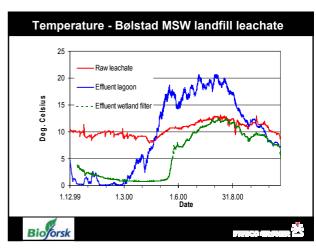
Large areas are often available Requirement of large buffer volumes Often large distance to the municipal sewer Low demands for operation and maintenance Remove several important pollutant parameters

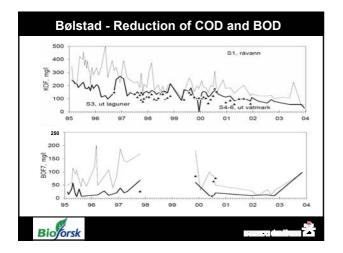


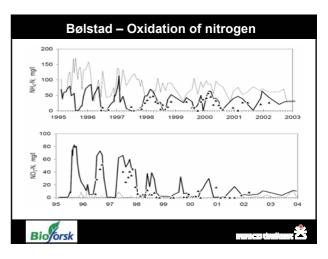


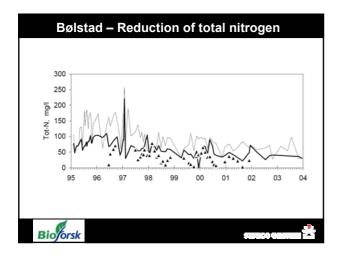


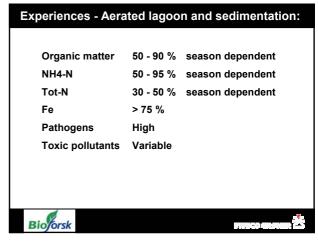


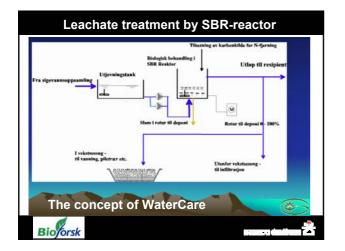














Skibotn - Leachate from composting of MSW

COD: 65.500 mg/l BOD: 41.400 mg/l

N $_{\rm tot}$: 2.370 mg/l (probably NH $_{4}$ -N)

Too high concentrations for aerated pond in winter. Could the temperature from the compost be used to heat a tent over the pond?

SBR-reaktor?



