



## Leachate treatment in Oradea, Romania

Pureco delivered a great solution for landfill leachate treatment that meets with the requirements of the strict Romanian regulations. With a two-stage reverse osmosis system that is placed in a 40 feet ISO container (PURE-RO/LTC) 120 m<sup>3</sup>/day contaminated water of landfill of Oradea can be treated on daily basis and with the recovery rate of around 60%.

### Main Technological Steps of PURE-RO/LTC:

- Sand filtration to remove coarse TSS particles
- Cartridge filtration to remove the fine TSS particles
- DT® designed in one, two or in three-staged configuration depending on the required discharge parameters and influent concentrations

Parameter	Dimension	Raw Leachate Analysis	Design Parameters	Effluent Requirements
<b>Flow of raw leachate</b>	m <sup>3</sup> /d	120	120	120
<b>pH</b>	-	8,48	6,5–8,5	6,5–8,5
<b>Temperature</b>	°C	26,4	20	
<b>COD</b>	mg/l	9,910	9,910	<125
<b>BOD<sub>5</sub></b>		1,390	1 390	<25
<b>Conductivity</b>	microS/cm	36,900	36,900	<600
<b>NH<sub>4</sub><sup>+</sup>-N</b>		1,634	1,634	<2

Our environmental friendly, cost-effective and unique leachate treatment technology focuses on added value as well as on predictability, liability, flexibility and multi-faceted approach.

As dedicated our activities of environmental protection with the reation and conservation of a livable and clear natural environment in mind, we developed our technology for leachate treatment in a complex and sustainable way.

*reverse osmosis technology / PURE-RO/LTC / membranes / transportable, easy to install solution*