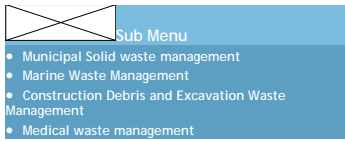


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## Leachate Treatment Treatment Facilities for Leachate

A first in Turkey;



At the biggest leachate treatment facility of Europe every day 5.000 m<sup>3</sup> Leachate of high pollution load are treated with Membrane Bioreactor and Nanofiltration technology. Leachate occurs by percolating from solid wastes and being exposed to certain chemical, biological and physical phenomenon. Leachate from solid wastes contains numerous elements and compositions resulted from the contents of actual solid wastes. For treatment of infiltration water containing high amount of COD, BOD, TSS, Nitrogen, hardness Treatment facilities have been established in Odayeri and K m rc oda. In these treatment facilities, membrane technology is applied which being widely used in water treatment in recent years. Final Treatment Facilities are composed of primary Clarifier, Membrane Bioreactor (Nitrification-Denitrification-UF membranes), Nanofiltration Units and Sludge Dewatering Units.



Leachate is first subjected to primary clarification and afterwards it is transferred to bioreactor unit for biological treatment. In bioreactor unit COD, BOD and compounds with nitrogen are eliminated. After biological treatment of leachate ultrafiltration placed outside bioreactor is delivered to membrane system. In UF membranes having cross flow system, sludge, solid waste on suspension and some amount of COD is eliminated. After sludge is separated leachate is delivered to nanofiltration membranes. In nanofiltration membranes major part of the remaining COD, organic micro pollutants, heavy metals and other compounds (humic acids, color) are eliminated. Facilities are designed according to decharge to channel standards in Odayeri Sanitary Landfill Area and river decharge standards in K m rc oda Sanitary Landfill Area.



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