

DEVELOPMENT OF WASEWATER TREATMENT IN THE MOL DUNA REFINERY

Client: Earth Tech Hungary Ltd.

Period: 2003 - 2006

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Tags: Environmental Impact Assessment
 Refinery
 Water licensing
 Wastewater treatment
 Wastewater sludge disposal



The aim of the investment – carried out between 2003 and 2006 – was to segregate the process and non-process sewage system of the refinery and to extend the existing API basin WWTP by an additional biological unit using CASS technology. Beside that the 2x100 000 m³ sized post-sedimentation basins - as the last grade of the treatment technology – were cleaned up by removing the oily sludge. At the preparation phase of the investment we carried out the licensing procedures and obtained the necessary water, environmental and construction licenses.

Furthermore our task was to take samples from the sewage system, the WWTP, the soil, the groundwater, and the ash and slag produced by the waste incinerator, and evaluate the results. We took control measurements during the test operation at various locations of the WWTP. We elaborated disposal alternatives for the wastewater sludge, incinerator ash and slag, and carried out the environmental licensing procedure of the hazardous waste and sludge disposal sites.

Related references:

- *Modernisation of the water management of MOL Duna Refinery by recycling wastewater – preparation of feasibility study 2008.*
- *Environmental assessment of the storm water basin no. 3 of MOL Duna Refinery, 2007.*