Waste and wastewater treatment and disposal

- **Environmental Permitting of Thessaloniki Water Treatment Plant Expansion (Phase A2)** The project refers to the preparation of the Article 13 environmental compliance dossier for the Thessaloniki Water Treatment Plant (EENTH) expansion. This involved assessing environmental impacts from proposed modifications, including new technologies for treatment processes, sludge management, and various plant layout and operational changes.
- **Environmental Impact Assessment study for the additional sewage works (Central wastewater network) and wastewater treatment plant in Amynteo.** The study involves the examination of the impacts of the construction and function of the proposed sewage works that concern the central sewage and waste water treatment network in Amynteo, and in particular of the town, the settlements Xino Nero and Petres (total population 9,300 persons) and the waste water treatment plant. The impacts on the Petres lake, that has been characterised as a sensitive intake and is part of an area that is going to be incorporated in the Natura 2000 network, were specially investigated. The study was prepared for the Florina prefecture by ECOS Consulting S.A., BASIS SYSM S.A. and Nikia Psaltidou – Malliarou.
- **Environmental Impact Assessment studies for the Sewage System and the Wastewater Treatment Plant in Filiatra,** for the Ministry of the Environment, Physical Planning and Public Works, in association with consultant Mr. Alexandros Constas. The study focused on the impacts of the construction and operation of the plant, particularly the effluent's impact on the marine environment. Alternative methods of the produced sludge management and disposal were investigated.
- **Environmental Impact Assessment studies for the Wastewater Treatment Plant of Athens in Psitalia, Attiki,** for the Special Service of the Ministry of the Environment, Physical Planning and Public Works. The study focused on the assessment of the effects of wastewater discharge in the Gulf of Saronikos for Phase I (primary treatment) and Phase II (secondary treatment) and the effects of the disposal of sewage sludge in solid waste disposal sites and/or quarries in the area.
- **Environmental Impact Assessment study for the Wastewater Treatment Plant in Vilia, W. Attiki.** The study focused on the assessment of the effects of wastewater discharge in the adjacent stream for normal and exceptional operating conditions, effects of odour and aesthetic aspects.
- **Study for the proposal for the construction of cell I of the new sanitary landfill in Larissa for the contractor TOMI Ltd.** The study involved participation in the general design and the whole of the geotechnical design of the landfill including the liner system, estimation of settlement, internal and external stability in the various construction and operation phases, specifications for well drilling, calculation of volume and identification of borrow/disposal material/spoils areas etc.
- **Environmental Impact Assessment for the construction of the medical waste incinerator for the greater Athens area,** for the Association of Municipalities of the Attiki Prefect. The study included (i) an assessment of the available incineration and sterilisation technologies for the selection of acceptable alternative processes, (ii) assessment of the impacts on air quality from the emissions of the plant and definition of the acceptable emissions.

- **Environmental Impact Assessment for the solid waste disposal site of Athens in W. Attiki,** for the Association of Municipalities and Communities of the Attiki Prefecture, in co-operation with the consulting firms Th. Papagiannis and Associates s.a. and Haskoning b.v. Royal Dutch Consulting Engineers and Architects. The study included the environmental assessment of four pre-selected sites for the identification of the most appropriate one and the execution of the Environmental Impact Assessment study for the selected site, for specification of the requisite measures for environmental protection.