

## **ABSTRACT**

This dissertation deals with ecological risk assessment (ERA). It is used as a tool for the assessment of environmental consequences. A report is given, for the divisions of ecology, toxicology and ecotoxicology. The relationship between ecotoxicology and ecological risk assessment is demonstrated. Additionally, guidelines are referred to which are followed by EPA (U.S Environmental Protection Agency) for ERA. The guidelines are based on the relationship of dose-response and ecological consequences that the human race causes the environment. In Cyprus, there is no law for ERA, only for the assessment of ecological consequences. The new and improved modification of the law, requires further studies for the ecological consequences that happen from oil gas station. Using the evaluation of ecological danger as a tool for ecological consequences assessment, an example will be followed of monitoring ecological danger in oil gas station. Finally, outlined the results which are encountered from this dissertation.