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### Evaluation of Rapid Assessment of Some Industries in the Middle and Southern Region of Iraq by Using Rapid Environmental Impact Assessment Tool

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**Abstract:** Rapid environmental impact assessment (REIA) was used to evaluate the pollution loads and concentrations which resulted from the industries in the middle and southern region of Iraq at Basra, Diwaniyah, Muthana, Najaf, Babil, Baghdad, Dhi- Qar, Karbala, Maysan, and Wasit. The expert system (using a computer program) can be considered as a simple tool which contained REIA capable of assessing Industrial activities and estimating the number of released pollutants. It characterized by easiness, saving time and flexibility in use and update. The results of water pollution by REIA showed that concentrations of liquid pollutants in term of working such as BOD<sub>5</sub>, TSS, Oil, Cr, Phenol, Zn, Ni, Cu, Sulfide, and Hg were: 44%, 81%, 27%, 14%, 100%, 29%, 36%, 4%, 71%, and 100% respectively of factories in this study did not comply with WHO effluents limits.

**Keywords :** Rapid environmental impact assessment (REIA), Expert System, WHO, Thermal Power Station (T.P.S), Gas Power Station (G.P.S).

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