

# AIR QUALITY MONITORING OF A PETROCHEMICAL PLANT (NO<sub>2</sub>, SO<sub>2</sub>, BTX, OZONE)

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**Abstract :** Air pollution is specially taken in account because air quality monitoring is part of the initial strategy in the Algerian pollution prevention program. This work describes an environmental situation of a petrochemical plant and is related to: - Diagnostic and development of sampling design, - Sampling and analysis of atmospheric pollutants, - Creation of air pollution data bank, - Cartography of the studied pollutants. The methodology adopted for this work is based on a systematic grid sampling of all the studied area including all pollution sources through an area of 1200 ha. Samplers used are based on diffusive principle and environmental references used for results discussion are those defined by World Health Organization (WHO). Diffusive samplers are exposed during one month for SO<sub>2</sub>, NO<sub>2</sub>, and BTX and for two weeks for ozone.

**Keywords :** Qualité de l'air; Capteurs passim; environnement; gaz polluant