

## **A Base for the Planning of Cotorro's Sustainable Development, Havana City, Cuba**

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The purpose of the studies of geo-environmental evaluation is to carry out an analysis and diagnosis of a given area, with the objective of planning, the location of human activities in the same one, with a minimum of deterioration of the means and a better use of its possibilities. In the municipality Cotorro converges a series of factors that makes necessary an evaluation of this type. It constitutes an outlying municipality with characteristic urban and rural with an excellent industrial development.

Using the information obtained of several sources. The confirmations of the field journeys. The rising of the polluting sources. the interpretation of air photo of satellite images, and the results of the different analyses carried out to the collected samples, we proceeded to the elaboration of thematic maps in digital format to scale 1:25 000 starting from which maps were obtained derived as, map of geologic threats, of function and of aptitude. Some conclusions are:

- 1 - the formation of more prospective for the use and management of the matter prevails, constitutes it the Güines formation, where 5 points of interest are reported.
- 2 - the polluted superficial currents are in the slope north of the basin of the river Almendares, where they are located most of the polluting sources.
- 3 - the floods constitute the geologic threats of more importance associated to the lowest and more urbanized areas.
- 4 - the municipality presents a coefficient of ecological stability next to one (0.9), what means that it is the territory of Havana City with more stable areas.