

ABSTRACT

In the present work we study the delimitations and characteristics of a plume polluting the village of Torelló.

The presence in the environment of any chemical, physical or biological agent or a combination or various agents is defined as for pollution of the watery (hydric) medium. That can occur in forms and concentration such as that, directly or indirectly, alter the quality of the water according to the later use or its environment's benefits.

The development of any countries, according to their industrialization, needs huge quantities of water. To be used for the different needs in the society, water is corrupted by extraneous elements, which modify its quality in its natural state.

The lack of legislation during the decade of the 80ies and the negligence of the industries had conducted to heavy cases of contamination.

The case below exposed concerns a point source pollution (which means that the pollution's source is localized in a precise spot) of the subsoil due to the uncontrolled shedding of industrial origin.

To carry out this study we used the techniques of electric prospecting, that have the advantages of being no destructive methods and have a continuous screen on the examined space.

The methods we have actually used are the electrical imaging and the induced polarization. The electrical imaging informs us about the composition of the soil according to its differences of resistivity, so that we delimit the space in which the polluting agent could circulate. On the other hand, the induced polarization informs us about the metallic contents' mass which is associated with the polluting agent.