

Study Technical Possibilities of Agricultural Reuse of by-Products from Treatment Plant of Boumerdes, Algeria

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Abstract : In Algeria, one of the Mediterranean countries, water resources are limited and unevenly distributed in space and in time. Boumerdes, coastal town of Algeria, known for its farming and fishing activities. The region is also known for its semi-arid climate and a large water deficit. In order to preserve the quality of water bodies and to reduce withdrawals in the natural environment, it is necessary to seek alternative supplies. The reuse of treated wastewater seems to be a good alternative, especially for irrigation. In the framework of sustainable development, it is imperative to rationalize the use of water resources conventional and unconventional. That is why the re-use agricultural of by-products of the treatment is an alternative expected to preserve the environment and promotion of the agricultural sector. The present work aims, to search for the possibility of reuse of treated wastewater, and sludge resulting from treatment plant of the city of Boumerdes in agriculture, through the analysis of physical, chemical and bacteriological on the samples, and the continuous monitoring of the evolution of several elements during the period of study extended over 12 months, and then, the comparison of these test results to standards and guidelines established in the framework of irrigation and land application.

Keywords : treated water, sewage sludge, recycling, agriculture

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