

International Journal of Pharmacy and Technology, 2016, vol.8, N3, pages 15066-15073

Impurity of atmospheric air over a surface of silt cards

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Abstract

© 2016, International Journal of Pharmacy and Technology. All rights reserved. In this study, we investigated the problem of air pollution by harmful substances secreted by the sludge in storage in the sludge maps. Studied the emission of harmful substances in the atmospheric air in the territory of placing the sludge of wastewater treatment plants. It determines the intensity of emission of harmful substances into the atmosphere. To assess the quality of air pollution collected, processed and systematized information about cards sludge as a source of air pollution, physical characteristics and emissions, as well as qualitative and quantitative composition of the emissions of pollutants. Based on these data it was calculated the dispersion of pollutants and predicted excess of maximum permissible concentration of ammonia and hydrogen sulfide. To confirm the results of the calculations, experimental studies of pollutants in the atmospheric air. Analysis of experimental data has shown that in the atmospheric air near the experimental sludge card present excess of maximum permissible concentration of hydrogen sulfide over 3 MPC. Projected as a result of the calculation of the distribution of the air pollution level on the surface of the sludge and cards near the city of Naberezhnye Chelny excess ammonia experimental research has not been confirmed.

Keywords

Air pollution, Ammonia, Emissions of pollutants, Hydrogen sulfide, Silt cards, Sludge