

CO-COMPOSTING OF SEWAGE LUDGE AND ORGANIC FRACTION OF MUNICIPAL SOLID WASTE IN THE GREATER ATHENS REGION

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ABSTRACT

Co-Composting of sewage sludge and organic fraction of municipal solid waste can enhance its quality and suitability for agricultural use. The aim of this work is to present the physicochemical characteristics of the compost produced from sewage sludge (SS) and organic fraction of municipal solid waste (OFMSW). The Co-composting process took place in an In-Vessel reactor which had 50 lit. of active volume. As it may be observed from the results, the co-composting product (sewage sludge and organic fraction of municipal waste) shows a better soil conditioner, than the sewage sludge compost does. The organic matter of the co-composting product at the final stage ranges between 37.3 – 40.2 %, the humic substances ranges between 5.3 – 9.1 %, the C/N ratio ranges between 9.5 – 13.1, the pH value ranges between 7.01 – 7.38.