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PII: S0304-3894(17)30453-3
DOI: http://dx.doi.org/doi:10.1016/j.jhazmat.2017.06.032
Reference: HAZMAT 18653

To appear in: *Journal of Hazardous Materials*

Received date: 20-2-2017
Revised date: 14-6-2017
Accepted date: 15-6-2017

Please cite this article as: N.García-Mancha, V.M.Monsalvo, D.Puyol, J.J.Rodriguez, A.F.Mohedano, ENHANCED ANAEROBIC DEGRADABILITY OF HIGHLY POLLUTED PESTICIDES-BEARING WASTEWATER UNDER THERMOPHILIC CONDITIONS, Journal of Hazardous Materialshttp://dx.doi.org/10.1016/j.jhazmat.2017.06.032

ENHANCED ANAEROBIC DEGRADABILITY OF HIGHLY POLLUTED PESTICIDES-BEARING WASTEWATER UNDER THERMOPHILIC CONDITIONS

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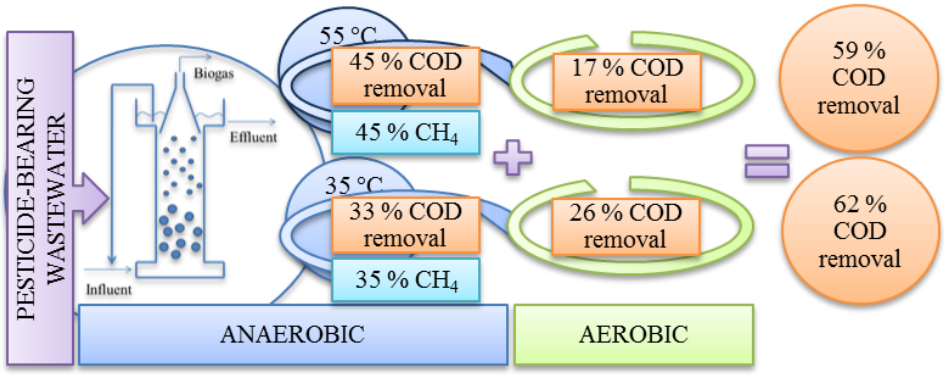
Graphical abstract



HighlightsAnaerobic treatment of pesticide wastewater at mesophilic and thermophilic conditions

Acetoclastic methanogenesis was dramatically inhibited

Most of the starting pesticides were not detected after the anaerobic treatment

More than 60 % of COD removal by coupling an EGSB reactor and aerobic step

Abstract

This work presents a sustainable and cost-competitive solution for hardly biodegradable pesticides-bearing wastewater treatment in an anaerobic expanded granular sludge bed