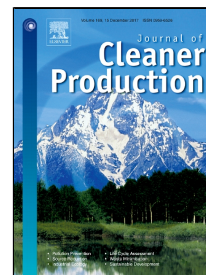


Accepted Manuscript

Experimental study and analysis of the functional and life-cycle global warming effect of low-dose chemical pre-treatment of effluent from pulp and paper mills



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PII: S0959-6526(17)32524-6
DOI: 10.1016/j.jclepro.2017.10.214
Reference: JCLP 11006
To appear in: *Journal of Cleaner Production*

Received Date: 26 February 2017

Revised Date: 24 August 2017

Accepted Date: 19 October 2017

Please cite this article as: Maria Sandberg, G. Venkatesh, Karin Granström, Experimental study and analysis of the functional and life-cycle global warming effect of low-dose chemical pre-treatment of effluent from pulp and paper mills, *Journal of Cleaner Production* (2017), doi: 10.1016/j.jclepro.2017.10.214

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Highlights

- Industrial wastewater treatment uses resources as energy and nutrients with environmental impact
- Results from lab-trials, modelling of energy use and E-LCA were used for holistic analyse
- Low dose chemical pre-treatment improved the aeration efficiency and the methane potential
- Low dose chemical pre-treatment decreased the need for nutrients
- Lowest CO₂-eq for wastewater treatment and sludge handling was found with low dose pre-treatment

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