

Experimental investigation into a slow settling wastewater

Paper to be presented at:
AFSS Fall'08 Topical Conference on Testing
Charlotte, NC
September 22-25,2008

Michael J. Doby^{*}, Shawn Reddell, Anthony Trasatti, and
Benjamin C. Fuchs

*DuPont Experimental Station, Rte. 141& Henry Clay Road, Wilmington, DE
19880*

Key words: wastewater, centrifugation, filtration

Abstract

An experimental program was undertaken to evaluate separation options for a plant's wastewater stream. The goal of the exploratory study was to find a promising separation technique that is cost-effective and accelerates the clarification of the wastewater stream without chemical treatment. Accelerating the clarification would significantly reduce the environmental footprint of the plant. A variety of technologies were examined and compared to the current method of separation using earth's gravity. The final recommendations included several different options that the business could choose in order to achieve acceptable separation with varying degrees of cost.

^{*} Corresponding Author. Address: DuPont Experimental Station E304/A213, Rte. 141& Henry Clay Road, Wilmington, DE 19880 Phone: 302-695-2109 Fax: 302-695-2504
Email address: michael.j.doby@usa.dupont.com (Michael J. Doby).