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Tomas Roa
Project Manager
ENCAP
3921 Algoma Rd.
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Tomas,

We have completed testing of the erosion control product PAM-12 *Plus*. Below is a description of which tests were conducted and the results of the testing.

PAM-12 *Plus*:
This product was treated as one with a non-soluble solid other than polymer and therefore the sediment test procedures were followed. A 10-d *Hyalella azteca* survival and growth test was conducted following the EPA's "Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater Invertebrates" (EPA-600-R-99-064). A *Ceriodaphnia dubia* whole sediment overlying water toxicity test was also conducted following ASTM method "Guidance for Conducting Sediment Toxicity Tests with *Daphnia magna* and *Ceriodaphnia dubia*" (E 1706-05). Two application rates were tested for each species: 4000 lb/acre (equivalent to 5600 mg/L) and 6000 lb/acre (equivalent to 8400 mg/L).

The results were as follows:
Hyalella azteca survival at 4000 lb/acre (5600 mg/L) = 98.8%
Hyalella azteca survival at 6000 lb/acre (8400 mg/L) = 100%

Ceriodaphnia dubia survival at 4000 lb/acre (5600 mg/L) = 100%
Ceriodaphnia dubia survival at 6000 lb/acre (8400 mg/L) = 100%

Both tests passed the criteria of 75% survival at the two application rates.

Please feel free to contact me with any questions.

Sincerely.

Amy Mager
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