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* **Procedures for Determining the Effects of Dredged Sediments on Biota: Benthos Viability and Sediment Selectivity Tests**
* John E. Gannon and A. M. Beeton
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**Abstract**

Eleven million cubic yards (8.5 million cubic meters) of spoil are dredged from over 100 Great Lakes harbors each year. Open-lake dumping is the most economical means of disposal. The report presents laboratory methods developed to test the effects of dredged materials on benthic organisms. The amphipod Pontoporeia Affinis Lindström is used in this study. Sediment samples were used from nine Great Lakes harbors. Sediment selectivity tests were run as were viability tests. Sediments from Rouge River, Cleveland, Buffalo, Calumet, and Indiana harbors resulted in the highest mortality of amphipods.

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