

Preface

The work reported herein was conducted as part of the Upper Mississippi - Illinois Waterway (UMR-IWW) System Navigation Study. The information generated for this interim report will be considered as part of the plan formulation process for the System Navigation Study.

The UMR-IWW System Navigation Study is being conducted by the U.S. Army Engineer Districts of Rock Island, St. Louis, and St. Paul under the authority of Section 216 of the Flood Control Act of 1970. Commercial navigation traffic is increasing, and in consideration of existing system lock constraints, will result in traffic delays that will continue to grow into the future. The system navigation study scope is to examine the feasibility of navigation improvements to the Upper Mississippi River and Illinois Waterway to reduce delays to commercial navigation traffic. The study will determine the location and appropriate sequencing of potential navigation improvements for the 50-year planning horizon from 2000 through 2050. The final product of the System Navigation Study is a Feasibility Report, which is the decision document for processing to Congress.

The work described in this report was sponsored by the U.S. Army Engineer District, Rock Island, as part of the Environmental Plan of the Upper Mississippi River-Illinois Waterway System Navigation Feasibility Study.

The work was performed by personnel of the U.S. Army Engineer Waterways Experiment Station (WES), and the Environmental Management Technical Center (EMTC) of the Environmental Management Program's Long Term Resource Monitoring Program (LTRMP). The study was conducted under the direction of Dr. John W. Barko, Director, Center for Aquatic Plant Research and Technology, WES, and Scientific Technical Director, National Biological Service, EMTC, Onalaska, WI. This report was written by Messrs. James T. Rogala, EMTC, William F. James, WES, and Harry L. Eakin, WES.

Mr. Dale Dressel, Mr. Eugene Isherwood, and Mrs. Holly Wallace, Eau Galle Laboratory, and Ms. Sue Fox, AScI Corporation, performed the laboratory analyses. Messrs. Pete Boma, Bill Meier, and Randy Poelma of the LTRMP assisted in the sample collection. Dr. John Barko provided technical advice. Dr. Dave

Soballe, EMTC, and the staff of the U.S. Army Engineer District, St. Paul, Planning Division, provided review of a draft of this report.

At the time of publication of the report, Director of WES was Dr. Robert W. Whalin. Commander was COL Robin R. Cababa, EN.

The contents of this report are not to be used for advertising, publication, or promotional purposes. Citation of trade names does not constitute an official endorsement or approval of the use of such commercial products.