

# **CLEAN WATER PLAN**

## **OHIO RIVER BASIN UPDATE WATER QUALITY MANAGEMENT PLAN**

**July 20, 2005**

**Prepared By:**

**Northeast Ohio Four County Regional Planning  
and Development Organization  
180 E. South Street  
Akron, Ohio 44311-2035**

**DONALD M. JENKINS  
BOARD CHAIRMAN**

**JOSEPH HADLEY, JR.  
EXECUTIVE DIRECTOR**

# CLEAN WATER PLAN OHIO RIVER BASIN UPDATE FOR PORTAGE, STARK, SUMMIT, AND WAYNE COUNTIES, OHIO

## TABLE OF CONTENTS

	<u>Page</u>
Executive Summary	1
Chapter 1 Introduction and Overview of the Plan	1-1
Chapter 2 Current Conditions and Projected Development	2-1
Chapter 3 Wastewater Management Facilities Planning	3-1
Chapter 4 Management of Home Sewage Treatment and Semi-Public Sewage Disposal Systems	4-1
Chapter 5 Management of Nonpoint Source Pollution and Storm Water Runoff	5-1
Chapter 6 Protection of Regionally Important Water Resources	6-1
Chapter 7 Urban Stream Restoration Plans	7-1
Chapter 8 Watershed Planning Approaches in the Ohio River Basin	8-1
Chapter 9 Management Agency and Community Involvement	9-1
Chapter 10 Ongoing Areawide Water Quality Management Planning	10-1
Chapter 11 Process for Local Approval and State Certification of the Plan	11-1
Glossary	G-1
List of Acronyms	A-1
List of Resources	R-1
Appendix 3-1 Facilities Planning Areas (FPA)	3-1-1
Appendix 3-2 Portage County Facilities Planning Areas	3-2-1
Appendix 3-3 Atwater Facilities Planning Area	3-3-1
Appendix 3-4 Hiram-Garrettsville Facilities Planning Area	3-4-1
Appendix 3-5 Windham Facilities Planning Area	3-5-1
Appendix 3-6 Stark County Facilities Planning Areas	3-6-1
Appendix 3-7 Alliance Facilities Planning Area	3-7-1
Appendix 3-8 Beach City-Wilmot Facilities Planning Area	3-8-1
Appendix 3-9 Bolivar Facilities Planning Area	3-9-1
Appendix 3-10 Brewster Facilities Planning Area	3-10-1
Appendix 3-11 Canal Fulton Facilities Planning Area	3-11-1
Appendix 3-12 Canton Facilities Planning Area	3-12-1
Appendix 3-13 East Sparta Facilities Planning Area	3-13-1
Appendix 3-14 Hartville Facilities Planning Area	3-14-1
Appendix 3-15 Massillon Facilities Planning Area	3-15-1
Appendix 3-16 Minerva Facilities Planning Area	3-16-1
Appendix 3-17 Navarre Facilities Planning Area	3-17-1
Appendix 3-18 Waynesburg Facilities Planning Area	3-18-1
Appendix 3-19 Summit County Facilities Planning Area	3-19-1
Appendix 3-20 Barberton-Wolf Creek Facilities Planning Area	3-20-1
Appendix 3-21 Franklin-Green Facilities Planning Area	3-21-1
Appendix 3-22 Springfield Facilities Planning Area	3-22-1
Appendix 3-23 Wayne County Facilities Planning Area	3-23-1
Appendix 3-24 Apple Creek Facilities Planning Area	3-24-1

## TABLE OF CONTENTS (continued)

	<u>Page</u>
Appendix 3-25 Burbank Facilities Planning Area	3-25-1
Appendix 3-26 Creston Facilities Planning Area	3-26-1
Appendix 3-27 Dalton Facilities Planning Area	3-27-1
Appendix 3-28 Doylestown Facilities Planning Area	3-28-1
Appendix 3-29 Fredericksburg Facilities Planning Area	3-29-1
Appendix 3-30 Kidron Facilities Planning Area	3-30-1
Appendix 3-31 Marshallville Facilities Planning Area	3-31-1
Appendix 3-32 Mt. Eaton Facilities Planning Area	3-32-1
Appendix 3-33 Orrville Facilities Planning Area	3-33-1
Appendix 3-34 Rittman Facilities Planning Area	3-34-1
Appendix 3-35 Shreve Facilities Planning Area	3-35-1
Appendix 3-36 Smithville Facilities Planning Area	3-36-1
Appendix 3-37 West Salem Facilities Planning Area	3-37-1
Appendix 3-38 Wooster Facilities Planning Area	3-38-1
Appendix 3-39 Massillon Facilities Planning Area	3-39-1
Appendix 3-40 NEFCO Population Projections	3-40-1
Appendix 4-1 Recommended Management Practices for Home Sewage	4-15
Appendix 5-1 Nonpoint Source Management: Recommended Model Ordinances Resource and Agency Contact List	5-19 8-3
Appendix 8-1 Examples of Watershed Groups in the Ohio River Basin	8-3

## List of Tables

	<u>Page</u>	
Table 1-1	Water Quality Management Functions in Ohio	1-4
Table 2-1	Average Watershed Score, 2002-2004	2-6
Table 2-2	Watershed Impairments	2-8
Table 2-3	Mean QHEI by Stream Segment, 2000	2-9
Table 2-4	Population Change 1980-2000 and 2004 Estimate	2-12
Table 2-5	Civilian Labor Force Estimates Annual Average - 2004	2-13
Table 2-3	Number of Business Starts 1998-2003	2-13
Table 2-4	2000 Employment by Industry	2-14
Table 3-1	NEFCO Region Primary Designated Management Agencies	3-9
Table 3-2	Incorporated Jurisdictions and Associated Primary and Secondary Designated Management Agencies (DMA) for wastewater management planning	3-10
Table 5-1	Nonpoint Source Impairments to the NEFCO Region Streams	5-3
Table 6-1	Active Inland Drinking Water Reservoirs important for the NEFCO Region	6-2
Table 6-2	Generalized Groundwater Drinking Water Supply Areas in the NEFCO Region	6-4
Table 6-3	Unique Regional Waters	6-5
Table 6-4	Stressors of Regionally Important Water Resources	6-8
Table 6-5	Stressors and Protective Measures for Threats to Surface Drinking Water Supplies	6-14
Table 6-6	Stressors and Protective Measures for Groundwater Drinking Supplies	6-15
Table 6-7	Stressors and Protective Measures for Unique Regional Waters	6-16
Table 9-1	Clean Water Plan Update Ohio River Basin Task Force	9-2

## List of Figures

	<u>Page</u>	
Figure 1-1	Ohio River Basin Water Quality Management Planning Area	1-2
Figure 2-1	Watershed Assessment Units (WAU) NEFCO Region - Ohio River Basin	2-3
Figure 2-2	Watershed Assessment Units (WAU) Scores	2-7
Figure 6-1	Surface Drinking Water Supplies in the Ohio River Basin	6-3
Figure 6-2	Unique Regional Waters in the Ohio River Basin	6-6

## ACKNOWLEDGMENTS

Preparation of this document has been partially financed through a water quality management planning grant provided through the State of Ohio Environmental Protection Agency under the provision of Section 604(b) of the Clean Water Act, and with funds from NEFCO's dues-paying members.

Contributors: **Ohio River Basin Plan Update Task Force\***

### **NEFCO Staff**

Joseph Hadley, Jr., Executive Director

Claude Custer, Jr., Water Quality Planner

Sylvia R. Chinn-Levy, Economic Development Planner

Nick Lautzenheiser, Environmental Planner

Rebecca L. Morgan, Secretary

Note: The principal author of Chapter 7, Urban Stream Restoration Planning, is Lester A. Stumpe, Manager of Legislative, Regulatory and Technical Support, Northeast Ohio Regional Sewer District

\*Members of the Ohio River Basin Plan Update Task Force and its work groups are documented in Chapter 9