Protecting the Nation's Groundwater from Contamination—Vol. II

October 1984

NTIS order #PB85-154219

Protecting the Nation's Groundwater From Contamination

Volume II



a har because a concern

Recommended Citation:

Protecting the Nation's Groundwater From Contamination: Volume II (Washington, DC: U.S. Congress, Office of Technology Assessment, OTA-O-276, October 1984).

Library of Congress Catalog Card Number 84-601126

For sale by the Superintendent of Documents U.S. Government Printing Office, Washington, D.C. 20402

Foreword

At the request of the Senate Committee on Environment and Public Works, the Office of Technology Assessment has examined the current status of the Nation's knowledge about and experience in dealing with groundwater contamination problems. This volume of *Protecting the Nation Groundwater From Contamination* presents in detail the information and data on which the analyses and conclusions of volume I are based. It is organized into eight appendixes covering health impacts and sources of groundwater contamination; the State framework for protecting groundwater quality based on results from the OTA State survey; technical and nontechnical issues related to the application of corrective action alternatives; and definitions of hydrogeologic terms.

John H. Jibbour

JOHN H. GIBBONS Director

Protecting the Nation's Groundwater From Contamination Advisory Panel

Thomas Maddock, III, Chairman Professor, Department of Hydrology and Water Resources University of Arizona, Tucson

Harvey Banks Consulting Engineer

Rodney DeHan Administrator, Groundwater Program State of Florida Department of Environmental Regulation

Robert Harris Professor Center for Energy and Environmental Studies Princeton University

Allen V. Kneese Resources for the Future

Jay H. Lehr Executive Director National Well Water Association

Perry McCarty Chairman and Professor Department of Civil Engineering Stanford University

James Mercer President GeoTrans, Inc. David W. Miller President Geraghty & Miller, Inc.

Mary Lou Munts State Representative 76th Assembly District State of Wisconsin

Michael A. Pierle Director, Regulatory Management Monsanto Co.

Anthony Z. Roisman Executive Director Trial Lawyers for Public Justice

Lawrence Swanson Director Great Plains Office of Policy Studies

James T. B. Tripp Environmental Defense Fund

NOTE: OTA appreciates and is grateful for the valuable assistance and thoughtful critiques provided by the advisory panel members. The views expressed in this OTA report, however, are the sole responsibility of the Office of Technology Assessment.

OTA Project Staff— Protecting the Nation's Groundwater From Contamination

John Andelin, Assistant Director, OTA Science, Information, and Natural Resources Division

Robert W. Niblock, Oceans and Environment Program Manager

Project Staff

Paula J. Stone, Project Director

Joan Ham Howard Levenson Francine Rudoff

Administrative Staff

Kathleen A. Beil Jacquelynne R. Mulder Kay Senn

Contractors

Woodward-Clyde Consultants, Inc., Walnut Creek, CA Environ Corp., Washington, DC The University of Oklahoma, Norman OK GeoTrans, Inc., Herndon, VA

Peter N. Davis, Universit, of Missouri-Columbia Law School, Columbia, MO