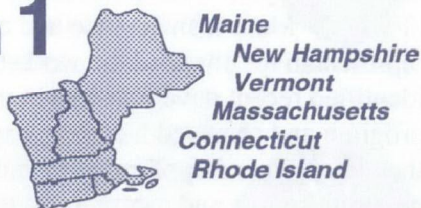


EPA The Water Monitor

REGIONAL AND STATE ACTIVITIES

Region 1



Regional Coordinators

Monitoring, 305(b), Volunteer Monitoring: Diane Switzer (617) 860-4377

Waterbody System: Al Pratt (617) 860-4379

303(d)/TMDL: Mark Voorhees (617) 565-4173

Nonpoint Source: Bob Moorehouse (617) 565-3513

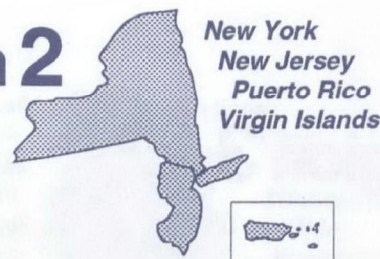
Clean Lakes: Warren Howard (617) 565-3515

REGIONAL OFFICE: Fish Contamination

Study: The U.S. Fish and Wildlife Service (USFWS) participated with EPA staff in a Fort Devens/Nashua River study to assess contaminants in fish. Researchers collected samples of species representing predator, prey, and bottom feeder trophic levels. USFWS is interested in three reaches of the Nashua River which may be transferred from the Army to the USFWS as part of the Oxbow National Wildlife Refuge.

For more information, contact Patti Tyler, EPA Region 1 ESD, at (617) 860-4342.

Region 2



Regional Coordinators

Monitoring: Randy Braun (908) 321-6692
305(b), Waterbody System: John Malleck (212) 264-1833

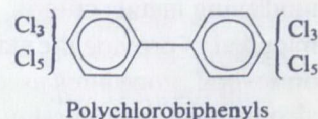
Volunteer Monitoring: Diane Calessio (908) 321-6728
303(d)/TMDL: Rosella O'Connor (212) 264-8479

Nonpoint Source: Barbara Spinweber (212) 264-8632

Clean Lakes: Terry Faber (212) 264-8708

NEW YORK: Contaminated Sediment Sampling Underway: The NY Department of Environmental Conservation (NYDEC) Water Division's Contaminated Sediment Management Unit is working with the Division of Hazardous

Waste Remediation and USEPA Region 2 to gather and evaluate field information related to full-scale



contaminated sediment dredging and disposal. This study is connected to dredging that will be conducted this fall by ALCOA, which will remove PCB-laden sediments from the Grasse River, a tributary of the St. Lawrence. The study is expected to assess the effectiveness of the dredging and the significance of dredging sediment loss to the health of aquatic biota. Baseline sampling and analyses are underway. For more information, contact Frank Estabrooks, Unit Head, at (518) 457-2672.

Macroinvertebrate Specimen Archive: The NYDEC's Stream Biomonitoring Unit is proceeding with needed work maintaining archived macroinvertebrate specimens collected for more than 20 years. The archive consists of 2,750 samples of

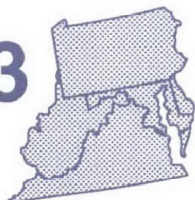
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macroinvertebrates and is used primarily as a reference tool for macroinvertebrate identification. For more information, contact Robert Bode, Unit Head, at (518) 432-2624.

Region 3



Delaware
Pennsylvania
Maryland
Virginia
West Virginia

Regional Coordinators

Monitoring, 305(b), Waterbody System: *Chuck Kanetsky*

(215) 597-8176

303(d)/TMDL: *Thomas Henry* (215) 597-9927

Volunteer Monitoring: *Teena Reichgott* (215) 597-3364 and *Peter Weber* (215) 597-4283

Nonpoint Source, Clean Lakes: *Hank Zygmunt* (215) 597-3429

REGIONAL OFFICE: Metals Update: On August 29, Region 3 hosted a day-long workshop on the Water Effects Ratio (WER) procedure for modifying metals criteria. The workshop was intended to provide the states with technical training on several procedures used to modify criteria and also included a discussion of EPA policy on dissolved metals criteria. Presentators included Chuck Stephan of EPA's Duluth Lab, author of the EPA guidance. Participants included EPA staff and representatives from all Region 3 States permitting and standards programs except West Virginia. In addition, Region 3 provided the states with a sample outline for a WER study plan and a list of requirements intended to make it easier for States to pro-

The Water Monitor is produced monthly to exchange surface water assessment information among states and other interested parties. If you would like more information or want to be added to the mailing list, please fill out the order and comment form on page 12.

vide guidance to dischargers seeking to develop procedures. For more information, contact Evelyn MacKnight at (215) 597-4491.

TMDL Workshop

Region 3 hosted a three-day technical modeling workshop on Total Maximum Daily Loads (TMDL). More than 40 state and other representatives attended the workshop, which identified recent developments in the TMDL program and provided hands-on experience in the operation and application of models for nonpoint source and receiving water assessment. The audience included state personnel from nonpoint source, water quality standards, planning, and other programs. For more information, contact Thomas Henry at (215) 597-4491.

Region 4



North Carolina
Kentucky
South Carolina
Tennessee
Georgia
Alabama
Mississippi
Florida

Regional Coordinators

Monitoring, Volunteer Monitoring, 305(b), Waterbody System: *David Melgaard* (404) 347-2126

303(d)/TMDL: *Jim Greenfield* (404) 347-2126

Nonpoint Source: *Mary Ann Gerber* (404) 347-2126

Clean Lakes: *Howard Marshall* (404) 347-2126

FLORIDA: Citizen Volunteers Involved in Reintroduction of Bay Scallops to Tampa Bay:

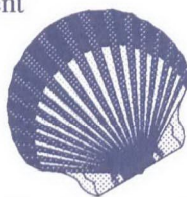
As part of the Tampa Bay National Estuary Program (TBNEP), more than 50 volunteers throughout the southern areas of Tampa Bay are being trained in placing "scallop condominiums" and monitoring bay scallop populations and spawning success throughout the bay.

The southern bay scallop, *Argopectin irradians concentricus*, once present in numbers adequate to

support a viable commercial and recreational fishery, has been virtually absent from Tampa Bay waters since 1963. This loss of bay scallops has been attributed to the general decline in water quality associated with human-induced inputs within the last several decades. Bay scallop is the bivalve mollusk most susceptible to poor water quality, and populations can easily be lost from impaired waters.



Within the last eight years, ambient bay water quality has shown a steady improvement, due primarily to improved municipal wastewater and urban stormwater treatment.



Seagrasses are becoming reestablished in areas that have been barren for over three decades.

Even though sections of the bay are once more capable of supporting viable bay scallop populations, there have not been enough naturally occurring bay scallop adults to supply the necessary larvae to repopulate these areas. In a FY92 TBNEP project, 230,000 juvenile scallops were successfully raised in the laboratory to 10-mm size and released in the bay. An annual citizens monitoring program, the Great Bay Scallop Search, was initiated in 1993 to help monitor the success of seeding and natural recruitment of bay scallops in the bay.

The FY94 TBNEP project involves collecting adult scallops nearing reproductive maturity from Crystal River and maintaining these scallops in the seawater system at the University of South Florida until the scallops are brought to reproductive maturity. Spawning will be induced and the fertilized eggs allowed to develop to a size of 12-25 mm in the laboratory before being placed in the field.

Citizen volunteers will be provided with a "scallop condominium" (a lantern mesh cage) and 15-20 juvenile scallops with instructions on their handling and maintenance. The suspended, caged scallops will grow to adults and spawn in the cages; their free-swimming larvae will disperse through the

mesh with tidal action and seek their own suitable habitats. The suspended cages will serve as an ecological learning aid for the citizen volunteers and their families, who can watch the scallops grow and feed. For more information, contact Holly Greening at (813) 893-2765.

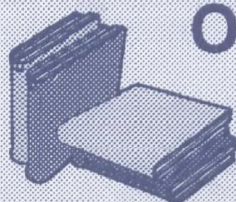


Regional Coordinators

Monitoring, 305(b): Dave Stoltenberg (312) 353-5784
303(d)/TMDL: Robert Pepin (312) 886-1505
Waterbody System: Fouad Dababneh (312) 353-3944
Volunteer Monitoring: Clyde Marion (312) 353-5966
Nonpoint Source, Clean Lakes: Tom Davenport (312) 886-0209

REGIONAL OFFICE: Two Reservations to Receive Funds from Indian Set-Aside: Two Indian Reservations in Region 5 are scheduled to receive funds in FY 1994 for design and construction of wastewater treatment facilities, as part of the USEPA's Indian Set-Aside Program. The program was authorized in 1987 under Sec. 518(c) of the Clean Water Act. The slated recipients of the funding are: the Keweenaw Bay Reservation (Mich.), which will receive \$1,524,400, and the Fond Du Lac Reservation (Minn.), which will receive \$467,100. For further information, contact Chuck Pycha of USEPA at (312) 886-0259.

On-Site Trainers Conference Held in Indiana: A regional meeting of wastewater treatment on-site training and assistance representatives was held in Pokagon State Park, Indiana, this past spring. The conference included state and federal personnel and covered topics related to wastewater treatment and self-monitoring, such as infiltration/inflow, biological treatment alternatives, new sludge regulations, and financial considerations. For additional information, contact Russ Martin of USEPA at (312) 886-0268.



On the Bookshelf . . .

Clean Water in Your Watershed: A Citizen's Guide to Watershed Protection.

This 89-page document is written in a reader-friendly fashion and is designed to help citizen groups work with state, local, and federal government agencies in designing and completing a successful watershed protection or restoration project. It includes sections on educating the local community about water pollution problems; developing community solutions; obtaining resources; and installing and maintaining watershed protection controls. While supplies last, a free copy may be obtained from the EPA Regional Nonpoint Source Coordinators; copies are also available for \$19.95 from the Terrene Institute, 1717 K St. NW, Suite 801, Washington, D.C. 20006, (202) 833-8317, FAX (202) 296-4071.

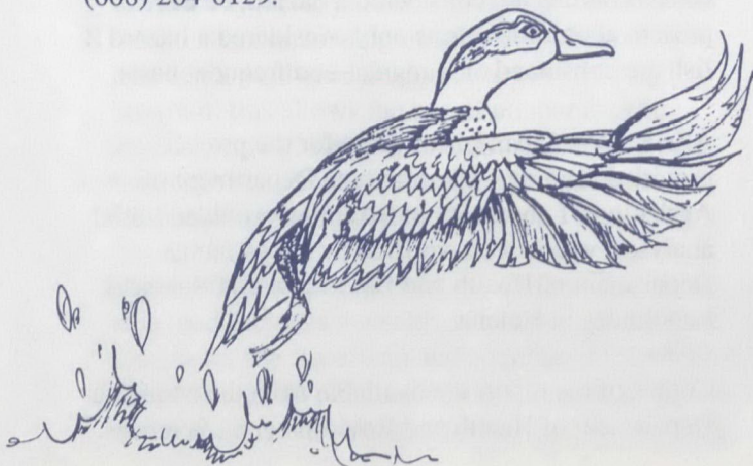
Deposition of Air Pollutants to the Great Waters: First Report to Congress, EPA 453/R-93-055, 1994 ed. This report, prepared by EPA's Office of Air Quality Planning and the National Oceanic and Atmospheric Administration, summarizes information on air pollutants of concern to the Great Waters (the Great Lakes, Lake Champlain, the Chesapeake Bay, and all U.S. Coastal Waters). See story, p.3. To obtain a copy of the report or a color brochure describing the Great Waters program, contact Pam Smith at (919) 541-5319.

Riparian Road Guide: Managing Roads to Enhance Riparian Areas. This 32-page booklet discusses the impacts of road building on riparian areas and provides solutions to common problems relating to road design, such as construction of bridges, fords, and culverts; wet meadow crossings; and road alignment. While supplies last, a free copy may be ordered from the Regional EPA Nonpoint Source Coordinators; copies may also be obtained for \$9.95 from the Terrene Institute, 1717 K St. NW, Washington, D.C. 20006, (202) 833-8317, FAX (202) 296-4071.

Watershed Protection Techniques, vol. 1, no. 2, Summer 1994. This quarterly bulletin on urban watershed restoration and protection tools includes articles on pollutant dynamics in stormwater pond muck; developments in sand filter technology; influence of snowmelt on stormwater runoff quality; performance of stormwater ponds and wetlands in winter; minimizing the impact of golf courses on streams; practical tips for establishing freshwater wetlands; and many other topics. References are included for each article, and the bulletin also includes an open forum for discussion of restoration issues. Available by subscription from Watershed Protection Techniques, 8630 Fenton St., Suite 910, Silver Spring, MD 20910, (301) 589-1890.

EPA's *Lake Guardian*: The *Lake Guardian*, USEPA's only research and monitoring ship on the Great Lakes, docked in Milwaukee, WI July 2-3, and took part in the city's annual summerfest. Guided tours were conducted for the public, and the ship and crew were videotaped for various TV news programs. EPA owns and operates the ship, which is based in Bay City, MI, and makes periodic cruises on the Great Lakes for research and monitoring purposes. The *Lake Guardian* has a length of 180 ft., a beam of 40 ft., and weighs 1,700 tons. The ship has a crew of 11, but can accommodate up to 31 additional people for scientific cruises. Since its launching in 1991, the *Lake Guardian* has been gathering monitoring data on the physical, chemical, and biological conditions of the Great Lakes using state-of-the-art navigational, laboratory, and sampling equipment. For additional information, contact Dave Stoltenberg of USEPA at (312) 353-5784.

WISCONSIN: WDNR Streamlining Their Permitting Process: In response to a legislative mandate to eliminate the backlog of air and water permits which need issuance/reissuance, the Wisconsin Department of Natural Resources (WDNR) has embarked on a program to streamline the overall permitting process. The WDNR has determined to eliminate multiple management sign-offs and delays and consolidate permit issuance responsibility in the hands of relatively few people. WDNR is looking toward a basin-wide multimedia approach to permitting rather than the media-specific method used previously. Eventually it is intended that the District Offices will issue most permits, with the Central Office providing guidance and overview. For more information, contact Bernie Robertson of WDNR at (608) 264-6129.



Region 6



Arkansas
Louisiana
Oklahoma
Texas
New Mexico

Regional Coordinators

Monitoring: *Charlie Howell* (214) 665-8354

303(d)/TMDL: *Troy Hill* (214) 665-6647

305(b): *Russell Nelson* (214) 665-6646

Waterbody System: *Paul Koska* (214) 665-8357

Volunteer Monitoring: *Mike Bira* (214) 665-6668 and
Paul Koska (214) 665-8357

Nonpoint Source: *Brad Lamb* (214) 665-7140

Clean Lakes: *Mike Bira* (214) 665-6668

REGIONAL OFFICE: Rio Grande Toxic

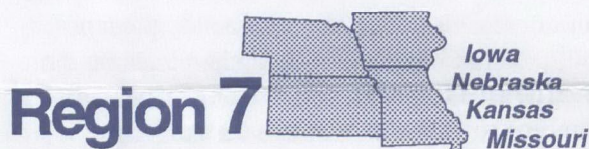
Substances Assessment: The United States and Mexico recently released the Rio Grande/Río Bravo Toxic Substances Assessment (Note: Río Bravo is the Mexican name for the Rio Grande). The synoptic survey was designed to examine the presence, magnitude, and impacts of toxic chemicals on the river. The study area extended from Brownsville/Matamoros to El Paso/Juarez, with sampling conducted in eight stretches of the river where the greatest likelihood for toxic chemical contamination exists.

U.S. participants, led by the Texas Natural Resource Conservation Commission, included the Texas Parks and Wildlife Department, Texas Department of Health, U.S. Environmental Protection Agency, U.S. Fish and Wildlife Service, and U.S. National Park Service. Mexico's participants included the Comisión Nacional del Agua, and Secretaría de Desarrollo Social. The International Boundary and Water Commission - U.S. and Mexico Sections were also represented.

The study included determinations of toxic pollutant concentrations in water, sediment, and fish tissue; toxicity testing of water and sediment; and biological assessments of fish and macroinvertebrate communities. Sample collection began in November 1992 and was completed March 1993. Nineteen Rio Grande/Río Bravo and 26 tributary sites were sampled. There was excellent cooperation among the Mexican and U.S. scientists involved.

The report indicates that the Rio Grande/Río Bravo is not heavily affected by toxic substances. Regarding human health issues, no significant short term human health risks were identified. Some concentrations of toxicants in water exceeded water quality standards for aquatic life protection; however, biosurvey results indicated that if toxic impacts were occurring, the effects were relatively slight. Similarly, ambient toxicity testing indicated significant effects in only two of 114 tests conducted on the mainstem. Greater effects of toxicants were observed in several of the tributaries.

Several mainstem and tributary sites were identified that have a high to moderate potential for toxic chemical impacts. Pending international agreements, participating agencies will conduct followup studies. For more information, contact Carl Young at (214) 665-6645 or Charlie Howell at (214) 665-8354.



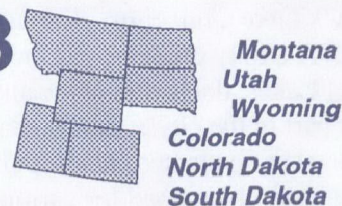
Regional Coordinators

Monitoring: Jerry Anderson (913) 551-5066
305(b), 303(d)/TMDL: John Houlihan (913) 551-7432
Waterbody System: Jerome Pitt (913) 551-7766
Volunteer Monitoring: Jerome Pitt (913) 551-7766
Nonpoint Source: Julie Elfving (913) 551-7475
Clean Lakes: Larry Sheridan (913) 551-7439

State Volunteer Coordinators Meet

On August 24, volunteer monitoring coordinators from state agencies in Missouri, Kansas, Nebraska and Iowa met with Region 7 staff at the Regional Office in Kansas City. The state coordinators presented information on their volunteer programs and discussed plans for a regional volunteer monitoring conference in 1995. For more information, contact Jerry Pitt at (513) 551-7766.

Region 8



Regional Coordinators

Monitoring, 305(b): Phil Johnson (303) 293-1581
303(d)/TMDL: Bruce Zander (303) 293-1580
Waterbody System: Toney Ott (303) 293-1573
Volunteer Monitoring: Paul McIver (303) 293-1552 and Phil Johnson (303) 293-1573
Nonpoint Source/Clean Lakes: Dave Rathke (303) 293-1703

MONTANA: Fish and Sediment Contaminants

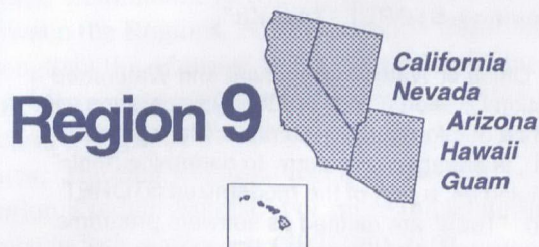
Study: The State recently conducted a survey of fish and sediments from 20 Montana lakes and two streams to determine the presence of mercury and PCBs (polychlorinated biphenyls). This study is the first to take a comprehensive look at the presence of chemical contaminants in Montana fish.

The study found detectable PCB concentrations in walleye from Holter Lake, rainbow trout from Big Spring Creek and Seeley Lake, and lake trout from Flathead Lake. The levels were considered moderately high in fish from Big Spring Creek and Flathead Lake. Mercury concentrations were high in cutthroat trout from Silver Creek, and moderately high in some fish from Bighorn, Flathead and Hebgen Lakes; Fort Peck, Fresno and Nelson Reservoirs; and Lake Elwell and Lake Frances. In most locations where fish were tested, PCBs or mercury were either not detected, were present at concentrations not considered a hazard, or were present at concentrations only considered a hazard if fish are consumed on a regular and frequent basis.

A U.S. EPA Clean Lakes grant for the project provided funding. The Montana Department of Agriculture Laboratory in Bozeman provided initial analyses, which were verified by the Montana Department of Health and Environmental Sciences Laboratory in Helena.

Copies of the report are available from the Montana Department of Health and Environmental Sciences,

P.O. Box 200901, Helena, MT, 59620, or the Montana Department of Fish, Wildlife and Parks, Fisheries Division, 1420 6th Ave. E., Helena, MT, 59620. Additional information is available from Todd Damrow, MDHES, at (406) 444-3986, or Glenn Phillips, MDFWP, at (406) 444-2449.



Regional Coordinators

Monitoring, 305(b): Ed Liu (415) 744-1934

Waterbody System: Janet Hashimoto (415) 744-1156

303(d)/TMDL: David Smith (415) 744-2019

Volunteer Monitoring: Clarice Olson (415) 744-1489 and Janet Hashimoto (415) 744-1156

Nonpoint Source: Jovita E. Pajarillo (415) 744-2011

Clean Lakes: Wendell Smith (415) 744-2018

CALIFORNIA: Coordinated Monitoring Program in Sacramento Area: The Sacramento Coordinated Water Quality Monitoring Program (known as the CMP) was established by the Sacramento Regional County Sanitation District, the Sacramento County Water Agency, and the City of Sacramento to evaluate water quality on the Sacramento and American Rivers. The agencies coordinate their monitoring activities to particular days, evenly spaced throughout the year. Each monitoring event takes two days of sampling and is performed on Tuesdays and Wednesdays, every other week. Regular spacing of sampling intervals is a part of the statistical design of the monitoring program; this allows the use of nonparametric algorithms (e.g. Kendall's "Tau" test) to evaluate water quality trends, without the violation of mathematic assumptions.

The 1993 Annual Report of the CMP is now available, and includes a wealth of water quality information for the American and Sacramento Rivers for the period 1992-1993, as well as a review of regulatory requirements related to water quality for those

rivers. Water quality parameters analyzed during this time include total recoverable and dissolved trace elements; total and dissolved organic carbon; total cyanide; electrical conductivity; pH; dissolved oxygen; temperature; hardness; and total suspended solids. The report comes in three versions: an executive summary (5 pp.); a complete annual report (100pp.); or an annual report with appendices (500 pp.).

Contact Malcolm McEwen at Larry Walker Associates, 509 Fourth St., Davis CA 95616 at (916) 753-6400 for annual report ordering information or for more information on the CMP.



Regional Coordinators

Monitoring, Waterbody System: Gretchen Hayslip (206) 553-1685

305(b): Donna Walsh (206) 553-1754

303(d)/TMDL: Bruce Cleland (206) 553-2600

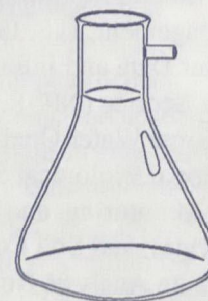
Volunteer Monitoring: Susan Handley (206) 553-1287

Nonpoint Source: Elbert Moore (206) 553-4181

Clean Lakes: Krista Mendelman (206) 553-1571

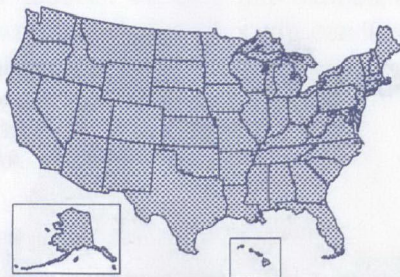
OREGON: The Willamette River Study: The Oregon Department of Environmental Quality (ODEQ) has recently published a report titled "Willamette River Toxics Study, 1988-1991."

ODEQ conducted this study in cooperation with EPA Region 10 and Oregon State University. Its objectives were to determine if bioaccumulative toxic pollutants were present in sediments and the tissue of fish in the Willamette River and selected tributaries, and to determine the possible effects of the pollutants on aquatic resources using bioassays and other aquatic life toxicity testing methods.



The study was planned as a screening survey to add to the existing toxic pollutants data base for the Willamette River. The sampling sites selected were used for previous toxics monitoring and were chosen to represent ambient levels, significant industrial and municipal sources, and typical urban nonpoint sources. This document discusses the methodology used to collect and analyze samples and the results of the analysis. For additional information contact Barbara Priest, ODEQ, at (503) 229-5945.

HEADQUARTERS ACTIVITIES



OFFICE OF WETLANDS, OCEANS AND WATERSHEDS (OWOW)

Assessment and Watershed Protection Division (AWPD)

Water Data Meeting: On August 22, the USGS-chaired Interagency Committee on Water Data (IACWD) met to discuss programs and new initiatives for FY95 and FY96. Representatives from the following agencies reported on activities in their programs: Tennessee Valley Authority - Reservoir and Stream Monitoring; EPA - Monitoring and Data Management; U.S. Geological Survey (USGS) - Water Data and Information Exchange; National Park Service (NPS) - NPS and USGS Cooperative National Water Quality Monitoring Program; National Biological Survey - Research, Inventory and Monitoring, and Information Technology Services; and Soil Conservation Service - Soil and Climate Analysis Network, Watershed and Subwatershed Mapping and Digitizing, and Water Supply Forecast Enhancement. For more information, contact Mary Belefski at (202) 260-7061.

STORET Modernization

This article is part of a continuing series of updates on the STORET modernization project. STORET is EPA's computerized National Water STORage and RETrieval system for housing, managing, and analyzing biological and water quality data.

Developing a STORET "Tool Kit":

EPA's Office of Water/Assessment and Watershed Protection Division (OW/AWPD), in cooperation with the Office of Information Resources Management (OIRM), is engaged in a study to determine "tools" that should be a part of the modernized STORET system. "Tools" are defined as software programs that manipulate data and generally provide one of the following six functions:

- Upload and/or data entry
- Downloading and/or reformatting data
- Listing or raw data presentation
- Statistical summarization
- Graphic production (charts, graphs, etc.)
- Map production.

The goal of the project is to develop a select set of programs and documentation that meets the functional requirements of users, performs unique functions, and can easily be updated.

As a first step, OW/AWPD compiled an inventory of tools presently available in STORET, the Biological Information System (BIOS), the Ocean Data Evaluation System (ODES), and the Water Quality Analysis System (WQAS), which are all related systems that will be combined in the process of STORET modernization. The next step is a sampling of the user community to collect quantitative data on how and why tools are (or are not) being used, and to establish criteria to select specific tools for the tool kit. With these objectives in mind, OW/AWPD is mailing a questionnaire to STORET users asking which analytical tools they now use or would like to use. In addition to the mailing, an interactive procedure called "TOOLTIME" has been set up (issued at the TSO "READY" prompt when a user logs on to EPA's mainframe computer) to answer the questionnaire online.

Detailed information on the upcoming Third STORET Modernization Conference will soon be available. The conference is scheduled for February, 1995 in Dallas, Texas. For more information on the STORET modernization effort and the upcoming conference, contact Phil Lindenstruth of OW/AWPD, at 202-260-6549 (dmail: LINDENSTRUTH.PHIL).

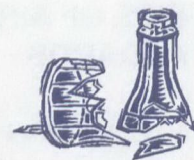
Regional/State CWA Section 319 Grants Program: AWPDP has initiated a series of Regional reviews of the CWA section 319 grants program. The Regional reviews are being conducted to evaluate management of the CWA section 319 grants at the Regional level; assist the Regions and states in preparing for future internal and external audits; facilitate the exchange of lessons learned between the Regions, AWPDP, and the states; and strengthen the administration and management of the nonpoint source program (NPS) and the CWA section 319 grants by AWPDP, the Regions, and the states. The first Regional meeting was held in Region 8 in late August. For more information, contact Chris Zabawa at (202) 260-7101.

Coastal Nonpoint Program Coordinators Workshop: EPA and the National Oceanic and Atmospheric Administration (NOAA) jointly sponsored a workshop for states that are developing coastal nonpoint source programs under section 6217 of the Coastal Zone Act Reauthorization Amendments of 1990 (CZARA). The workshop provided a forum for states, EPA, and NOAA to discuss issues concerning the development and submission of state coastal nonpoint programs; to share success stories, innovations, and common challenges; and to work toward the development of approvable programs in July 1995. The workshop was held September 19 - 22, in Port Deposit, MD. For more information, contact Amy Sosin at (202) 260-7058.

Oceans and Coastal Protection Division (OCPD)

Coastweeks Beach Cleanups: On September 7, the Center for Marine Conservation (CMC) held a press conference to announce the results of the 1993 Annual International Beach Cleanups and to announce the kick-off for the 1994 Coastweeks celebration. CMC reported that during the 1993 beach cleanups, approximately 160,000 volunteers from 35 states collected, sorted, and counted items of plastic, wood, glass and paper trash from U.S. beaches. In

addition to the U.S., 44 other countries participated in the world-wide beach cleanup effort. In total, over 5.2 million pounds of debris were collected world-wide. In general, some improvement over preceding years was noted, especially in the plastic debris category. This was attributed to restrictions on overboard waste disposal from ships and boats. For more information, contact Betsy Tam at (202) 260-6466.



National Estuary Program Citizens Advisory Committee National Meeting: On September 7-9, representatives from the Citizens Advisory Committees of the 21 estuaries in the National Estuary Program (NEP) met in Washington, DC, to share experiences, success stories and visions for the future. The agenda included special sessions on evaluation techniques, consensus building, and conflict resolution. A common concern was the successful implementation of Comprehensive Conservation and Management Plans. This was the second National Citizens Advisory Committee meeting held since the start of the NEP in 1987; participants were clearly in support of continuing these national meetings. For more information, contact Darrell Brown at (202) 260-6426.

Wetlands Division (WD)

Marsh Management Workshop: A marsh management workshop was held in New Orleans, LA, August 16-18, to hear stakeholder perspectives on marsh management. The 216 participants included representatives from federal, state, and local agencies, as well as interest groups. The workshop included presentations of scientific information, case studies, and open forums involving landowners, fishermen, local government officials, and academia. Overall, the workshop was successful in generating positive discussions and acquiring stakeholders' perspectives on marsh management. This forum provided an opportunity for identifying common ground on a broad range of issues related to marsh management. For more information, contact Abby Friedman at (202) 260-5048.

OFFICE OF AIR QUALITY PLANNING AND STANDARDS

EPA releases First Great Waters Report to Congress:

After three years of intensive effort, the Office of Air Quality Planning and Standards has issued the first of what will be biennial reports assessing atmospheric loadings of certain pollutants to the Great Lakes, Lake Champlain, the Chesapeake Bay, and all coastal waters (known as Great Waters). The study also looks at the environmental and public health effects of the deposited air pollutants and the sources of these pollutants.

In preparing the report, EPA, in cooperation with the National Oceanic and Atmospheric Administration (NOAA), pulled together teams of leading scientists to evaluate and summarize the scientific literature on air pollutants of concern to the Great Waters. The Great Waters Report marks the first time this information has been compiled in one place.

According to the report, the following significant pollutant loadings to the Great Waters are coming from the atmosphere:

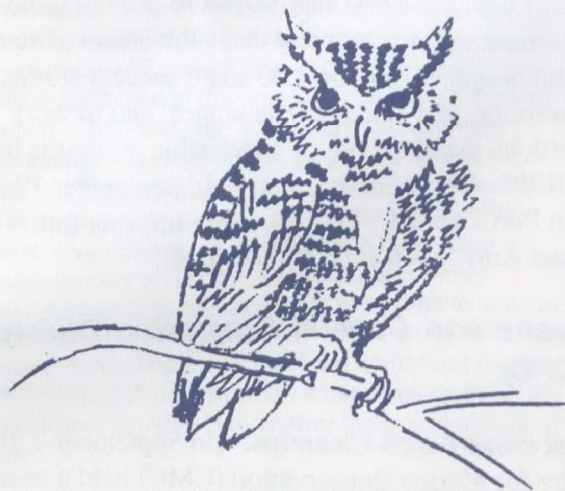
- Up to 89% of PCBs in Lake Superior;
- As much as 40% of nitrogen loadings in the Chesapeake Bay; and
- 95% of the lead loadings in Lake Michigan, Lake Superior and Lake Huron.

The report found that certain characteristics of the pollutants, such as persistence and bioaccumulation, are of particular concern. The persistence of these pollutants in the environment leads to an increased potential for exposure to humans and wildlife. Significant adverse effects on human health and wildlife are documented in the report, including immune-system disorders and reproductive problems in wildlife and developmental problems in children and infants. In addition, high concentrations of pollutants such as mercury, PCBs, and DDT have been found in fish, resulting in public health advisories on fish consumption.

The report recommends accelerating the issuance of municipal waste combustor rules. Also, the Agency has committed to publish an advance notice of

proposed rulemaking to establish lesser-quantity emission rates for sources emitting less than 10 tons annually of Great Waters pollutants; these sources could be subject to the maximum achievable reduction in emissions required for major sources. EPA is also looking beyond the authorities of the Clean Air Act. During reauthorization of the Clean Water Act, for example, EPA will seek discretionary authority to regulate releases to any media that may affect the Great Waters, allowing for pollution control where other regulations may not apply. The Agency will also evaluate the extent to which banned pesticides, many of which are also Great Waters pollutants, are exported for use in other countries. Finally, the report recommends continued research activities to address the problems in the Great Lakes, the Chesapeake Bay and other waterbodies.

Copies of the report to Congress and a color brochure that describes the program can be obtained by calling Pam Smith at (919) 541-5319. For other information about the program or the Report to Congress due in 1995, call Laurel Driver at (919) 541-2859.



Calendar Highlights

OCTOBER

- 16 **The Relative Role of Urban and Rural Nonpoint Source Controls in Managing Wet Weather Water Quality**, Chicago, IL. Contact Christine McKallip, WEF, 601 Wythe St., Alexandria, VA 2231-1944, (703) 684-2400.
- 16-20 **Water Environment Federation's 67th Annual Conference and Exposition**, Chicago, IL. Contact Maureen Novotne, WEF, 601 Wythe St., Alexandria, VA 22314-1944, (703) 684-2400.
- 17-19 **Coastal Nonpoint Source Workshop: Building Partnerships**, Tampa, FL. Contact Julia Johnson, 1717 K St. NW, Suite 801, Washington, DC 20006-1504, (202) 833-8317.
- 30-Nov 3 **Society of Environmental Toxicology and Chemistry, 15th Annual Meeting: Ecological Risk: Science, Policy, Law, and Perception**, Denver, Colorado. Contact Rod Parrish, SETAC, 1010 North 12th Ave., Pensacola, FL 32501, (904)469-1500, FAX (904)469-9778.
- 31-Nov 5 **North American Lake Management Society 14th Annual International Symposium: Managing Water Resources in the 21st Century: Finding Workable Solutions**, Orlando, FL. Contact Marilyn Schroeder, (303) 781-8287, FAX (303) 781-6538.

NOVEMBER

- 5-6 **Short Course: Advanced Geographic Information Systems**, at American Water Resources Association's 30th Annual Conference, Chicago, IL. Contact AWRA, 950 Herndon Pkwy, Suite 300, Herndon, VA 22070, (301) 493-8600, FAX (301) 493-5844.
- 5-6 **Short Course: Watershed Hydrology and Water Quality**, at AWRA 30th Annual Conference, Chicago, IL. Contact AWRA at (301) 493-8600, FAX (301) 493-5844.
- 6-10 **American Water Resources Association's 30th Annual Conference**, Chicago, IL. Contact AWRA, 950 Herndon Pkwy, Suite 300, Herndon, VA 22070, (301) 493-8600, FAX (301) 493-5844.

- 15-16 **Watershed WISE: A Workshop on Watershed Protections**, Grand Junction, CO. Contact Susan Foster, Thorne Ecological Institute, 5398 Manhattan Circle, Suite 120, Boulder, CO 80303, (303) 499-3647, FAX (303) 499-8340.
- 15-16 **Ecological Risk Assessment: Use, Abuse and Alternatives**, Corvallis, OR. Contact Conference Assistant, College of Forestry, Oregon State University, Corvallis, OR 97330, (503) 737-2329, FAX (503) 737-2668.
- 29-Dec 2 **Meeting on Water Quality Standards/Criteria and Related Programs**, Seattle, WA. Contact Liz Hielt, Tetra Tech, at (703) 385-6000.

DECEMBER

- 4-7 **56th Midwest Fish and Wildlife Conference**, Indianapolis, IN. Contact Debbie Fairhurst, Atterbury Fish & Wildlife Area, Edinburgh, IN 46124, (317) 232-7535.
- 5-9 **Meeting on Water Quality Standards/Criteria and Related Programs**, Chicago, IL. Contact Liz Hielt, Tetra Tech, at (703) 385-6000.
- 12-13 **Protecting Ground Water: Promoting Understanding, Accepting Responsibility, and Taking Action**, Washington, DC. Contact Laura Ludwig, Terrene Institute, 1717 K St. NW, Washington, DC 20006, (202) 833-8317, FAX (202) 296-4071.

FEBRUARY 1995

- 7-9 **Third STORET Modernization Workshop**, Dallas, TX. Contact USEPA, 401 M St. SW (4503F), Washington, D.C. 20460, 1-800-424-9067 (STORET User Assistance Line) or STORET @ EPAMAIL.EPA.GOV.
- 23-24 **Water, Nitrogen and People: An International Conference**, Everett, WA. Contact Craig MacConnell, Washington State University Extension, Whatcom County, 1000 N. Forest St., Suite 201, Bellingham, WA 98225-5594, (206) 676-6736.