

Scott W. Horsley, LEED AP
President and Senior Environmental Scientist



Areas of Expertise

- Wetland and Natural Resource Area Assessments
- Coastal Resources
- Smart Growth/ Low Impact Development
- Climate Change/ Energy
- Integrated Water Management
- Watershed Planning & Assessment
- Wastewater Management
- Stormwater Management
- Low Impact Design
- Climate Change Adaptation Design
- Training
- Meeting Facilitation

Professional Registrations

- LEED AP
- LID Designer, State of Rhode Island, 2006

Professional Affiliations

- Adjunct Professor, Tufts University, Graduate Department of Urban and Environmental Planning and Policy
- Massachusetts Stormwater Advisory Committee
- Massachusetts Sustainable Water Resource Advisory Committee
- Board of Directors, Massachusetts Rivers Alliance

Scott Horsley has twenty-five years of professional experience in the fields of watershed planning and water resources management. He has worked as a consultant to federal, state, and local jurisdictions, and private industry throughout the United States, Central America, the Caribbean, the Pacific Islands, and China. Scott has been an innovator in the environmental profession, and thrives on bringing new and fresh approaches to challenging projects. Scott has a strong understanding of the full range of technical, planning, and policy issues associated with land use and environmental science. Scott serves as an instructor for a nationwide series of U.S. Environmental Protection Agency (EPA) workshops on groundwater protection and coastal resources management. He has authored numerous publications on land-use planning and protection, and served on numerous advisory boards to the EPA, the National Academy of Public Administration, Massachusetts Department of Environmental Protection, National Water Well Association, National Groundwater Association, and Massachusetts Audubon Society. Scott has received national (US EPA) and local awards (Mashpee Conservation Commission) for his work in the wetlands and stormwater management fields. Scott is a recipient of the 1999 Environmental Technology Innovator Award from the U.S. Environmental Protection Agency for designing constructed wetlands for stormwater and wastewater treatment. He has taught numerous seminars in water resource protection, and is an Adjunct Professor at Tufts University where he teaches courses in land-use planning, water resources policy and wetlands management.

REPRESENTATIVE PROJECTS

Smart Growth/ Low Impact Development

LID Guidebook to Improve Lawrence Alleyways, Groundwork

Lawrence, MA: Principal-in-Charge for the development of a guidance booklet on utilizing Low Impact Development (LID) techniques in the reclamation of alleyways in Lawrence's North Common neighborhood. The purpose of this booklet was to provide potential alleyway improvements, through the use of LID techniques and other “green” approaches, to create safe, healthy and environmentally-sound pedestrian, bike, and vehicle passageways.

East Harwich Village Plan: Assisted the Town of Harwich in developing a concept plan, development design guidelines and zoning recommendations for the redevelopment of an existing village. The plans include smart energy, LID and innovative wastewater treatment features. The East Harwich Village Plan is intended to be a truly sustainable and walkable, mixed-use smart growth community. Features include street layout and building alignments to optimize energy benefits from solar exposures and ambient wind patterns, a stormwater recharge plan to balance the hydrologic budget, and a wastewater plan for nutrient reduction.

Smart Growth and Smart Energy Toolkit, EEA: Served as a consultant

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Awards

- Mashpee (MA) Conservation Commission Annual Environmental Achievement Award, 2002
- EPA Environmental Technology Innovator Award for Stormwater Treatment Design, 1999

Academic Background

Masters of Arts, Marine Affairs - Environmental Protection, University of Rhode Island

Bachelor of Science, Biology, Southeastern Massachusetts University

Patent

United States Patent Number 5,549,817 for Stormwater Treatment System/Apparatus

to the EEA to design an outreach tool for local governments and the development community. The Toolkit includes descriptions of twenty techniques, including transfer of development rights (TDR), transit-oriented development (TOD), village center zoning districts, open space residential design (OSRD), LID, agricultural preservation, integrated water, and wastewater management, brownfields redevelopment, and the newly-legislated Chapter 40R smart growth overlay districts. It also includes case studies and model bylaws on the twelve subject areas.

Climate Change/ Energy

Massachusetts Climate Change Advisory Committee, EEA: Scott served as a member of the Coastal Zone and Oceans Subcommittee of the Climate Change Advisory Committee convened by the Secretary of EEA. The Committee was assembled to develop recommendations, strategies, and criteria to implement the Global Warming Solutions Act passed by the Massachusetts legislature last year. The main task of the subcommittee is to analyze strategies for adapting to the predicted impacts of climate change in the Commonwealth of Massachusetts. Among other recommendations, Scott proposed regulatory changes to accommodate the landward migration of wetland systems that will result from sea level rise.

Green Communities Technical Assistance, Massachusetts Department of Energy Resources: Served as Principal-in-Charge, providing technical assistance to 24 communities through a Green Communities Technical Assistance Grant program to promote energy efficiency and alternative energy in Massachusetts communities. HW assisted communities in meeting the five eligibility criteria by providing energy committees and local municipal staff with targeted technical assistance and a Plan of Action. The five criteria are related to as-of-right siting and expedited permitting processes for alternative energy generation, research, development and manufacturing; municipal energy use baseline inventory and reduction plan; fuel efficient vehicle policies; and adoption of an energy efficiency amendment to the building code. Technical support is in the form of analysis, research, public presentation and report writing.

Site Design

The Pine Hills – Plymouth, Massachusetts: Project Manager for the original design and permitting for a 3,000-unit residential/commercial mixed-use development. This project integrates a number of LID techniques, includes three eighteen-hole golf courses, a public water supply system, and a tertiary wastewater treatment plant, which recycles treated wastewater after discharge to groundwater back onto the golf course for irrigation and fertilization. This project, which required significant amendments to the town's Zoning Bylaws, a Ground Water Discharge Permit, and a Water Management Act Withdrawal Permit, was successfully permitted, and

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has received a national award from the National Homebuilders Association as the best designed residential community in the country.

Stormwater Management

Stormwater Mitigation Design for Wetlands Restoration, Tidmarsh Farms, Manomet, MA: Project Manager for this wetland restoration effort that will transform 120 acres of cranberry bogs into a variety of native wetland types. Scott is leading the feasibility analysis for the restoration of a stream and associated vegetated wetlands, and the design of an innovative stormwater treatment system to mitigate pollutant-loading from a cranberry bog on an adjacent, upgradient property.

Sansone Gravel Pit, Water Quality Analysis, Walpole, MA: Served as an expert witness, and conducted a water quality sampling program to evaluate the linkage between the gravel pit operation and a downstream pond. Analyses included metals, nutrients, total suspended solids, and lead isotope dating of sediments within the pond.

Hydrologic and Water Quality Investigation of Savin Hill Cove Related to Proposed Improvements to the Morrissey Boulevard Stormwater System, BWSC: HW worked with Fay, Spofford, and Thorndike, Inc. (FST) to assist the Boston Water and Sewer Commission to evaluate potential impacts to an estuarine system from a stormwater improvement project. Scott was the Principal-in-Charge for the Project, contributing through multiple project phases, from initial impact evaluation, through permitting, to construction and post-construction monitoring.

Casco Bay National Estuary Program, Stormwater Management Project: Designed and supervised an intensive 19-month stormwater sampling program for pathogens (fecal coliform) and nutrients (phosphorous and nitrogen) developed a stormwater pollutant loading model for pathogens and nutrients. The model was developed within a GIS format and calibrated using actual field water quality data. This project is referenced in EPA's "Protocol for Pathogen TMDLs."

Peconic Bay National Estuary Program, Stormwater Pollutant Loading Model and Management: Developed a model to assess stormwater fecal coliform and nitrogen loading to problem embayments within Peconic Bay, and a management framework to implement stormwater best management practices. The model was used during a subsequent phase of the project to identify and design stormwater remediation projects for the purpose of opening closed shellfishing beds.

Cape Cod, Massachusetts, Evaluation of Stormwater Disposal Alternatives: Conducted a detailed hydrogeologic site evaluation for a private client to locate infiltration areas for stormwater runoff and for a 30,000-gpd sewage disposal. Considerations included depth to maximum groundwater levels and groundwater mounding. He evaluated available stormwater disposal alternatives based on present Massachusetts regulations and prepared a hydrogeologic report for a Groundwater Discharge Permit.

Indian River Lagoon National Estuary Program: Developed and conducted a water quality modeling and monitoring program to develop nitrogen-loading criteria to protect the estuary.

Salem Sound Coastal Water Quality Survey: Conducted a shoreline survey for stormwater outfall pipes throughout Salem Sound and a subsequent water quality sampling program for dry weather flows.

Watershed Planning & Assessment

Taunton River Watershed Study: Principal-in-Charge to conduct a study of the Taunton River Watershed area including the development of a hydrologic water budget GIS model, a significant public participation

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program and the development of a watershed manager approach/study that includes integrated water supply management, wastewater management, stormwater management and smart growth initiatives. The study area includes 43 communities and includes: the development of: eight demonstration projects that apply innovative and alternative wastewater technologies, and zoning and wetlands bylaws to provide enhanced protection of water resources.

Ipswich River Watershed Management Plan: Project Manager to develop a Management Plan for the Ipswich River basin. This Plan provides an analysis of the development patterns within the study area and the resulting hydrologic impacts of water supply withdrawals, sewerage systems, and stormwater management. The project included coordination with an interpretation of a USGS watershed modeling project. It also provides an “Integrated Water Management” approval to a series of Recommendations designed to balance the hydrologic budget. These include water conservation, alternative water supplies, stormwater management, and land use planning.

Lake and Pond Management Manual, Commonwealth of Massachusetts: Project Manager to prepare a Guidance Manual for a state-wide application that includes a broad range of in-lake and watershed management techniques to manage phosphorus loading to fresh water lakes.

Washington State Department of Ecology: Project Manager to develop a CD-based Drinking Water Protection Tool that includes a nitrogen loading model to assess existing land uses and develop watershed and wellhead protection strategies to manage nitrogen levels. The Tool includes a guidance manual that explains a comprehensive recommended procedure for small rural water suppliers to develop protection programs.

Expert Witness

Expert Witness, Clean Water Act (Rapanos) Jurisdiction: Expert Witness for EPA and Department of Justice (DOJ) in a case involving the filling of wetlands in Carver, MA for the purpose of constructing cranberry bogs. Scott is providing expert opinions regarding the application of the guidance from the Rapanos U.S. Supreme Court decision relative to the jurisdiction of wetlands in the Weweantic River watershed. He has also developed a nutrient-loading and attenuation model and has provided expert witness testimony regarding the nutrient attenuation capabilities of wetlands and their nexus to the Weweantic River. Scott has also prepared a wetland restoration plan for the cranberry bogs to enhance the nutrient attenuation capabilities of wetlands (abandoned cranberry bogs) in the watershed.

Expert Witness, Norfolk Superior Court, The Residences at High Rock Village vs. Town of Westwood (2010): Testified as an expert on stormwater and wetlands associated with a proposed development. Scott’s testimony included a hydrologic model that predicted elevated alterations that would result from excessive stormwater infiltration proposed by the Project Applicant.

Expert Witness, Massachusetts Land Court, Listerude vs. Town of Northbridge, Massachusetts (2004): Served as expert in groundwater and wetlands hydrology and stormwater management. The project included groundwater modeling, analysis of thermal impacts from parking lots, and compliance with the Massachusetts Stormwater Policy.

Expert Witness, Norfolk Superior Court, Private Client (2004): Retained as expert in wetlands hydrology, septic system suitability, site planning, and permitting regarding the development potential of a parcel of land.

Expert Witness, Plymouth County Superior Court, Gaetano J. Cammorata, et ux v. R.H. Cole Associates, et al. (2000): Served as expert witness to review the adequacy of hydrologic testing for the siting of

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septic systems in accordance with Massachusetts Title 5. This analysis included evaluation of water-table observations and seasonal adjustments using the USGS Index Well Method.

Expert Witness, Bristol County Superior Court, Retail Management and Development, Inc. and DeMoulas, Inc v. William A. Murby, et al. (1999): Retained as an expert witness to assess the hydrologic and water quality impacts associated with a purported fuel spill. Analysis included computation of petroleum contaminant loadings and travel times between potential source areas and a drinking water well maintained by the Town of Raynham. A groundwater model (ModFlow) was applied to simulate various pumping conditions of the well and its effects on groundwater flow patterns and contaminant migration.

Hydrologist/Project Manager, Quaker Run Wetland Restoration Project (2000-present): Served as Project Manager to evaluate natural wetlands, which existed prior to the cranberry bogs. Prepared restoration plan to re-establish perennial flow in river and to restore bordering vegetated wetlands.

Expert Witness, Worcester County Superior Court –Town of Shrewsbury v. Neles-Jamesbury, Inc. et al. (1992): Served as expert witness on hydrology and groundwater contamination. He applied a groundwater flow model (ModFlow) to determine hydrologic and water-quality impacts for the purpose of tracing potential sources of contamination.

Project Manager, Training Manual for National Estuary Program Seminars: Under contract with the EPA, co-authored a comprehensive training manual for the National Estuary Program. The manual covers wetland science, planning, and management issues. It is intended to be used for training state and local government officials to develop and implement watershed protection plans.

Expert Witness, Norfolk County Superior Court: Represented the Town of Canton in evaluating the water quality impacts alleged by the Plaintiff from the municipal sanitary landfill. Served as expert witness on ground-water hydrology and transport of contaminants.

Expert Witness, Barnstable County Superior Court: Represented a country club and golf course in successfully defending against charges of an abutter who alleged that the golf course had contaminated their drinking water well.

Expert Witness, Plymouth County Superior Court (Multiple Cases): Represented the Town of Marshfield, Massachusetts in evaluating the water quality impacts associated with the siting of wastewater disposal systems. Several cases have involved potential impacts to drinking water supplies, coastal waters and wetlands.

Expert Witness, Barnstable County Superior Court: Represented the Cape Cod Planning & Economic Development Commission regarding a land taking case for an eminent domain proceeding for a municipal wellfield parcel and associated wetlands.

Expert Witness, Bristol County Superior Court: Represented landowner regarding alleged ground-water contamination from cranberry bogs. Served as expert witness on ground-water hydrology and contamination with respect to cranberry bogs.

Expert Witness, Massachusetts District Court: Represented the Town of Ayer regarding a proposed transportation terminal in a Zone II Wellhead Protection Area. Prepared testimony regarding water quality impacts associated with stormwater runoff and alterations to adjacent wetlands.

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Expert Witness, Commonwealth of Massachusetts Land Court: Represented landowners in the review of water quality impacts from a proposed residential development on Martha's Vineyard. Served as expert witness on ground-water hydrology and water quality.

Expert Witness, New England Congressional Caucus: At the request of U.S. Congressman, Gerry Studds, testified on the water-quality impacts of acid precipitation before the New England Congressional Caucus at Faneuil Hall, Boston, Massachusetts.

Project Manager, Wetlands Restoration: Directed a project to restore natural wetlands in an area previously filled to create cranberry bogs. Project included hydrologic investigations and regulatory permitting.

Wastewater Management

Southern Conomo Point: Project Manager to develop a site plan for a seasonal coastal village in Essex, MA. The project included wetlands delineation, wastewater management evaluation, and the preparation of a subdivision plan.

Willowbend, Cotuit Bay Condominiums Nutrient Management Plan and Wastewater Engineering Design: Project Manager and principal designer of an innovative nutrient management plan for a proposed expansion to the Willowbend Golf Course and residential community. The nutrient management plan included a neighborhood/community sewer project connecting Cotuit Bay Condominiums to the Willowbend wastewater treatment facility, an innovative fertilizer reduction plan at the golf course, and a stormwater under drain system. The project resulted in a net reduction in nitrogen loading of – 1200 lbs/year to Shoestring Bay and received MEPA review and a DRI permit from the Cape Cod Commission. The project was granted an Environmental Award by the Mashpee Conservation Commission and is regarded as one of the most successful nutrient reduction projects by the Cape Cod Commission.

Training

Center for Watershed Protection, Charlotte, North Carolina, Five-Day Stormwater Management

Workshop: In conjunction with the Center for Watershed Protection, Scott conducted a five-day, intensive workshop on Stormwater Management. Training focused on design criteria for both flood control and water quality treatment. Two design sessions were conducted where participants developed a stormwater management plan for both a large commercial and a small residential site. A 200-page reference manual was prepared for each participant.

Stormwater Management Workshop, MA DEP: Developed a curriculum and co-instructed a series of workshops on stormwater management throughout Massachusetts, focusing on the implementation of new Stormwater Guidelines promulgated by the Massachusetts Department of Environmental Protection (MA DEP). He taught sessions on the environmental impacts of stormwater discharges and the requirements for preparing a Stormwater Management Plan.

Low Impact Development (LID) Certification Program, Rhode Island Coastal Resources Center: Assisted the State of Rhode Island Coastal Resources Management Council in developing and teaching a training course to certify LID designers including engineering, landscape architects, planners and ecologists. Developed LID techniques for application in the coastal zone to reduce stormwater flows and to provide water quality restoration.

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Innovative Wastewater and Stormwater Technologies, State of Hawaii: Retained by EPA Region 9 and the State of Hawaii to develop a course manual and to provide a training workshop on a broad range of innovative and alternative wastewater and stormwater technologies. This included both centralized and de-centralized wastewater solutions and a full range of innovative stormwater management techniques.

“Golf Courses and Water Quality Training Course,” Golf Course Superintendents Association of America (CSAA): Designed and taught two-day intensive training courses on golf course design, incorporating environmental protection measures such as integrated pest management, innovative fertilizer management techniques, and fertigation wells to recycle treated wastewater, and site design.

“Wellhead Protection Training,” EPA Office of Ground-Water Protection: Lead instructor in 97 workshops in 42 States, U.S. Territories, and Indian reservations, as well as co-author of an accompanying course manual, for a seminar entitled “Wellhead Protection Workshops: Tools for Local Governments.” This seminar focused on land use and management strategies to protect delineated zones of contribution providing recharge to public supply wells. These workshops were designed for state, county, and local officials and emphasized the importance of integrating science and land use planning in protecting public water supplies.

EPA Office of Wetlands, Oceans, and Watersheds: Presented a series of workshops on coastal management, entitled “Tools for Watershed Protection: A Workshop for Local Governments,” which were designed to assist local governments. The workshops included modules on watershed hydrology, coastal pollution, wastewater management and land use planning.

“Source Water Protection in Nicaragua,” EPA Office of Ground-Water Protection and U.S. AID: Developed and implemented a Source Water Protection training program for Nicaragua that includes the assessment of wastewater disposal and other pollution sources. He also developed a training manual for drinking water protection, and conducted training workshops in Nicaragua on this subject.

Water Resources Management, St. Kitts, West Indies: Consultant to the St. Kitts government identifying issues associated with resort development in coastal areas. This work has included water resources evaluations, and wastewater treatment options for environmental impact departments to identify issues associated with coastal resort development projects.

“Site Planning in Central America and the Caribbean Region,” American Planning Association and U.S. Department of Housing and Urban Development (HUD): Assisted in the preparation of a training manual on site planning, which includes environmental analyses and wastewater treatment for the Central American and Caribbean regions. Contributed sections on hydrology, site planning, and stormwater management.

National Integrated Coastal Zone Management Planning in the Bahamas, Inter-American Development Bank, Nassau, Bahamas: Supported the Government of The Bahamas in scoping issues and identifying potential management tools in preparation for a nationwide Integrated Coastal Zone Management (ICZM) plan. These included wastewater, stormwater and water supply issues. Under contract to the Inter-American Development Bank, Scott worked in coordination with the government of The Bahamas, through site visits and local meetings, to identify and assess the key coastal management issues facing The Bahamas.

Massachusetts DEM Lake Management and Training Manual: Project Manager for the development of a comprehensive training manual on “Lake Management” and served as an instructor for a series of workshops to DEM staff.

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PROFESSIONAL EXPERIENCE

Horsley Witten Group, Inc., Founder and President, 1988 to Present

Tufts University, Adjunct Professor, 1986 to Present

IEP, Inc., Senior Environmental Scientist, 1984 to 1988

Cape Cod Planning and Economic Development Commission, Water Resources Coordinator, 1981 to 1984

Barnstable County Health Department, Environmental Research Director, 1979 to 1981

PRESENTATIONS AND PUBLICATIONS

Horsley, S. November 17, 2010. "Building to Code – Protecting Homes in Coastal Floodplains," StormSmart Coasts Program, Massachusetts Coastal Zone Management, Plymouth Town Hall, MA.

Horsley, S. 2009. "Low-Impact Development: A More Sustainable Approach to Site Design," Association of Massachusetts Wetlands Scientists (AMWS) Newsletter, January 2009.

Horsley S. 2006. "Planning and Urban Design Standards" American Planning Association; Sections on Water, Hydrologic Cycle; Aquifers, Groundwater Movement and Recharge, Wiley Graphic Standards.

Horsley, S. 2005. Smart Growth Toolkit, Massachusetts Executive Office of Environmental Affairs, Boston, MA.

Horsley, S. 2004. Low impact development strategies: approaches to smart growth, presented to the Annual Meeting of the Massachusetts Association of Land Surveyors and Engineers, Plymouth, MA, September 20, 2004.

Horsley, S. 2004. Hydrology and groundwater management, in Planning and Urban Design Standards, prepared by the American Planning Association, John Wiley & Sons.

Horsley, S. 2003. Integrated coastal zone management in the Bahamas, prepared for the Inter-American Development Bank (IDB), Washington, DC.

Horsley, S. 2002. Groundwater, drinking water and stormwater protection: science and policy, in 2002 National CLE Conference, Environmental and Land Use Law, Law Education Institute, Steamboat, Colorado, January 4-9, 2002.

Horsley, S. 2000. Stormwater Management, in Proceedings of the 19th Annual Pacific Islands Conference, Protecting Our Environmental Island Style: Success Stories, Continuing Challenges, Realistic Solutions, June 20-23, 2000, American Samoa.

Horsley, S. 1997. Watershed '97 Conferences. The StormTreat System: An Innovative Stormwater Treatment Technology, Baltimore, MD.

Horsley, S. and J. Witten. 1997. Tools for Watershed Protection, US Environmental Protection Agency.

Horsley, S. and J. Witten. 1996. Coastal Watershed Protection: Tools for Local Governments, prepared under contract to U.S. EPA.

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- Horsley, S. 1994. Septic Systems and Coastal Water Quality - Technical Assistance Document, U.S. Environmental Protection Agency.
- Horsley, S. 1992. Buttermilk Bay – A Case Study: Nitrogen Loading Assessment, presented to U.S. EPA-sponsored Nitrogen Loading Workshop at the University of Rhode Island, Graduate School of Oceanography.
- Horsley, S. and J. Moser. 1990. Monitoring Ground Water for Pesticides at a Golf Course-A Case Study on Cape Cod, Massachusetts, National Water Well Association Ground Water Monitoring Review.
- Horsley, S. 1990. Nantucket Water Resources Management Plan—A Case Study, Key Note Paper, National Water Well Association, Eastern Regional Ground Water Conference.
- Horsley, S., S. Roy, and M. Nelson. 1990. Golf Courses and Water Quality. Seminars.
- Nelson, M., S. Horsley and S. Roy. 1990. Delineation of Aquifer vs. Wellhead Protection Areas, National Water Well Association—National Convention Association of Ground Water Scientists and Engineers.
- Horsley, S. and J. Witten. 1989. Aquifer Protection. Horsley & Witten, Inc. Seminars.
- Cambareri, T., M. Nelson, S. Horsley, M. Giggey and J. Pinette. 1989. Solute Transport - A Simulation of Non-Point Source Nitrogen Impacts to Ground Water and Calibration of A Predictive Analytical Model. Accepted for publication with National Water Well Association, Proceedings - Solving Ground Water Problems with Models, Indianapolis, Indiana.
- Nelson, M., S. Horsley, T. Cambareri and M. Giggey. 1988. Predicting Nitrogen Concentrations in Ground Water - An Analytical Model, in Proceedings of the FOCUS Conference on Eastern Regional Ground Water Issues, National Water Well Association, Stamford, Connecticut.
- Horsley, S. and J. Witten. 1988. Land Planning, Appraisal and Development in Vermont and New Hampshire. Horsley & Witten, Inc. Seminars.
- Horsley, S. and J. Witten. 1988. Land Planning and Development in Massachusetts, Horsley & Witten, Inc. Seminars.
- Horsley, S. and J. Witten. 1988. Comprehensive Permits for Affordable Housing Development in Massachusetts. Horsley & Witten, Inc. Seminars.
- Horsley, S. and J. Witten. 1988. Small Sewage Treatment Plants (Package Plants). Horsley & Witten, Inc. Seminars.
- Horsley, S. and J. Witten. 1988. Land Development in the Coastal Zone: Impacts Upon Water Quality, Horsley & Witten, Inc. Seminars.
- Kerfoot, W. and S. Horsley. 1988. Private Well Protection, Informational Bulletin No. 10 Association for the Preservation of Cape Cod.
- Horsley, S. and J. Witten. 1986. The Town of Duxbury, Massachusetts, Aquifer Protection Plan: A Case Study in Innovative Water Quality Protection Strategies. National Water Well Association, The Third Eastern Regional Ground Water Conference.

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- Horsley, S. 1983. Delineating Zones of Contribution for Public Supply Wells to Protect Groundwater, in Proceedings of the National Water Well Association Eastern Regional Conference of Groundwater Management, Orlando, Florida.
- Horsley, S. 1983. Regional Ground Water Management Needs for Cape Cod, Massachusetts. Prepared by Cape Cod Planning and Economic Development Commission for the United States Environmental Protection Agency.
- Horsley, S. 1982. Beyond Zoning, Municipal Ordinances to Protect Ground Water, in Proceedings of the Sixty National Groundwater Symposium, National Water Well Association, Atlanta, Georgia.
- Horsley, S. 1981. The Impacts of Trace Metal Pollution of Narragansett Bay - A Case Study of the Quahog Fishery, Master's Thesis, University of Rhode Island.
- Magnuson, P. and S. Horsley. 1981. Comprehensive Water Resources Monitoring Program for Cape Cod. Prepared by Cape Cod Planning and Economic Development Commission for the United States Environmental Protection Agency.
- Cheney, P. and S. Horsley. 1980. Nonstructural Flood Plain Management Planning in the Connecticut River Basin, prepared by CME Associates, Inc. for the New England River Basins Commission.

GUEST LECTURES

American Water Works Association

Boston College

Cape Cod Builders and Contractors Association

Greater Portland (Maine) Council of Governments

Harvard University, Graduate School of Design

League of Women Voters

Loudoun County (Virginia) Planning Commission

Maine Rural Water Association

Martha's Vineyard Commission

Massachusetts Association of Conservation Commissions

Massachusetts Audubon Society

Massachusetts Department of Environmental Management

Massachusetts Department of Environmental Quality Engineering

Massachusetts Water Works Association

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Massachusetts Institute of Technology
Nantucket Planning and Economic Development Commission
Nashua (New Hampshire) Regional Planning Commission
New England Congressional Caucus
New England Interstate Water Pollution Control Commission
New England Environmental Hazards Institute
New Hampshire Planners Association
Pacific Islands Conference, American Samoa
Tufts University
United States Department of Agriculture Soil Conservation Service
University of Massachusetts

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