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SELECTED PROJECT SUMMARIES FEBRUARY 2008

I. STRATEGIC PLANNING

- **North Georgia Water Management District, Technical Advisory Committee, Member, 10/01 - On-going:** Currently serve on the Metropolitan North Georgia Water Planning District Technical Coordinating and Stormwater Subcommittees. MNGWPD is a planning entity dedicated to developing comprehensive regional and watershed-specific water resources plans to be implemented by local governments in the district. As a member of this group, I am assisting in the development of a comprehensive watershed assessment and management plan (including model ordinances) for 18 counties and numerous municipalities in the metro Atlanta area. The plan is designed to protect water quality and public water supplies in and downstream of the region, protect recreational values of the waters in and downstream of the region, and minimize potential adverse impacts of development on waters in and downstream of the region.
- **Georgia Erosion and Sedimentation Oversight Committee, Member, 1/02 – 12/03:** Served on the Governor’s Erosion and Sedimentation Control Oversight Committee (monitoring subcommittee and full committee) to develop recommendations for the new state NPDES Permit (current permit expired on July 31, 2003). Also participated in the development of the House Bill 285 that was passed in the 2003 Legislative Session and signed by Governor Purdue in late 2003. The new comprehensive erosion and sediment control law calls for increased penalties, additional educational requirements and fees be paid by developers in exchange for reduced monitoring requirements.
- **US Environmental Protection Agency, Surface Water Inspection Targeting Initiative, Project Manager, 3/99 – 12/01:** Developed and brought to consensus a methodology that prioritized watersheds, industrial sectors, and facilities based on compliance history, pollutant loading, and potential impacts to environmental justice communities for storm water, municipal, and concentrated animal feeding operations (CAFOs) inspection and compliance assistance activities. Recommendations were adopted and used by EPA and the eight southeastern states in watershed enforcement planning activities for FY99-01.
- **US Environmental Protection Agency, American Indian Lands Environmental Support Project, Tribal Program Manager, 1/96 - 3/98:** Coordinated efforts of numerous EPA Headquarters Program Offices, all ten Regions and 537 Tribes to identify and address enforcement and compliance needs in Indian Country. Part of the effort included coordinating with all EPA Regions and many Tribes (e.g., St. Regis Mohawk, NY; Red Lake Tribe, MT; Cherokee Nation, OK; Navajo, AZ; etc.) to develop and distribute a web-based GIS project that included a database emissions and compliance histories of permitted facilities located on and near Indian lands.

- **US Environmental Protection Agency, National Sediment Inventory Database and Report to Congress, Project Manager, 8/92 - 4/95:** Led a team of experts to compile and evaluate three comprehensive, peer-reviewed databases of water/sediment/biota quality as well as pollutant source information to identify geographic areas, chemicals, and industries of concern for the southeastern coastline, Gulf of Mexico, and entire United States (freshwater and marine). Effort included the organization of two national inter-agency workshops, the preparation of a three volume Report to Congress, and contract management of over \$1.5 million.
- **US Environmental Protection Agency, Regional Contaminated Sediments Expert, 7/90 – 3/92:** Served as the U.S. EPA Contaminated Sediments Expert in both Region 4 and Headquarters. Independently identified and implemented new sediment quality assessment (aquatic-life criteria and risk-assessment models) and cleanup approaches that became standard policy in Water and Waste Management Programs.

II. REGULATORY COMPLIANCE

- **Paulding County, Georgia, NPDES Stormwater Phase II Permit Planning and Program Implementation, Industrial Stormwater Compliance, MNGWPD Audit and Watershed Assessment and Protection Planning, 8/03 – Ongoing:** Served as stormwater consultant on all aspects of the NPDES Phase II Program Planning and Implementation, including: illicit discharge detection and elimination program; inspection, operations and maintenance program; new development plan review and site inspection procedures; and annual compliance reporting for 2004, 2005 and 2006. Also responsible for preparing industrial NOIs and stormwater pollution prevention plans for the County’s waste water treatment facility and solid waste landfill and transfer station. Recently finalized the county-wide watershed protection plan and assisting in the County’s long-term watershed monitoring program. Assisted the County in “passing” the MNGWPD/EPD Audit for water, wastewater and stormwater programs and provide on-going assistance to ensure all commitments are met.
- **City of Cumming, Georgia, NPDES Phase II Stormwater Program Planning and Implementation, Industrial Stormwater Compliance and Long-term Monitoring Plan, 3/06 – On-going:** Provide technical support on all aspects of the City’s Stormwater Management Program, including: development plan review and site inspection procedures; dry weather outfall testing; inspections, operations and maintenance program planning; and industrial stormwater permit compliance. Also assisted the City in successful compliance with the MNGWPD requirements as demonstrated by the EPD audit of the City’s wastewater, stormwater and water supply programs. Recent tasks include design and implementation of the City’s Watershed Protection Plan and industrial stormwater pollution prevention program.
- **Bartow County, Georgia, NPDES Stormwater Phase II Permit Planning and Program Implementation, MNGWPD Audit Compliance; Industrial Stormwater; and Long-term Monitoring, 9/06 – On-going:** Provide technical support on all aspects of the City’s Stormwater Management Program, including: development plan review and site inspection procedures; dry weather outfall testing; inspections, operations and maintenance program planning; and industrial stormwater permit compliance. Also assisted the City in successful compliance with the MNGWPD requirements as demonstrated by the EPD audit of the City’s wastewater, stormwater and water supply programs in 2006 and 2007. Recent tasks include design and implementation of the City’s long-term monitoring program and industrial stormwater pollution prevention program.
- **City of Temple, Georgia, Watershed Assessment and Protection Plan, Stormwater Program Implementation, Emergency Response Planning and Long-term Monitoring Program 9/01 – On-going:** Involved in all aspects of project planning and implementation of the Temple

Watershed Protection Plan, including: coordination with GA Environmental Protection Division; project plan preparation; station identification; sample collection; data interpretation; development and analysis of Geographic Information Systems (GIS) Arcview Project; as well as preparation and presentation of the final assessment report and management plan. Also prepared the Emergency Response Plan for the City's wastewater treatment plant, assisted the City in developing and implementing a comprehensive fee schedule and instituting new erosion and sediment control site inspection and enforcement policies and procedures to reduce sediment inputs to local streams. Currently responsible for updating the City's development regulations and implementing the City's long-term monitoring program to measure the overall effectiveness of the watershed protection plan.

- **City of Cedartown, Georgia, Emergency Response Planning, Industrial Stormwater Compliance and Watershed Assessment and Protection Planning, 10/04 – On-going;** Prepared an Emergency Response Plan as required under the Public Health Security and Bioterrorism Preparedness and Response Act of in 2002. Also planned and conducted a training session with County management and staff to review potential vulnerability issues and facilitate understanding of new emergency response procedures. Recently prepared a stormwater pollution prevention plan for the City's wastewater treatment plant. Currently conducting a watershed assessment of streams in the sewer service area for use in creating a watershed protection plan to ensure long-term management of the City's water resources.
- **City of Dallas, Georgia, NPDES Stormwater Phase II Permit Planning and Program Implementation, Industrial Stormwater Compliance, MNGWPD Audit and Watershed Assessment and Protection Planning, 3/05 – On-going;** Serve as stormwater consultant on all aspects of the NPDES Phase II Program Planning and Implementation, including: illicit discharge detection and elimination program; inspection, operations and maintenance program; new development plan review and site inspection procedures; and annual compliance reporting for 2005 and 2006. Assisted the City in "passing" the MNGWPD/EPD Audit for water, wastewater and stormwater programs and provide on-going assistance to ensure all commitments are met.. Currently conducting a watershed assessment of streams in the sewer service area for use in creating a watershed protection plan to ensure long-term management of the City's water resources.
- **Lee County, Georgia, Watershed Assessment and Protection Plan, NPDES Stormwater Phase II Permit Application and Program Implementation, 1/01 – On-going;** Provide stormwater planning and implementation assistance to the County Manager and staff to ensure compliance with the Lee County NPDES MS4 Permit. Project areas include: dry weather outfall screening program; business inspections; pollution prevention training; industrial stormwater compliance; development plan review and site inspection program and the storm sewer system inspections, operations and maintenance program. Also responsible for preparing the County's Watershed Protection Plan that included detailed recommendations on watershed-wide and site-specific best management practices, such as new development and stream buffer ordinances, improved erosion and sediment control inspection and enforcement procedures, public education and outreach programs, long-term monitoring program as well as implementation and funding strategies for enhancing and preserving the health of Lee County's streams.

- **Unified Government of Cusseta-Chattahoochee County, Georgia, Water, Wastewater and Stormwater Compliance Assistance, 1/03 – 3/06:** Prepared successful permit applications to GA Environmental Protection Division to meet NPDES Stormwater and SDWA Drinking Water Permit requirements. Past projects include: internal sanitary and source water system compliance assessments and preparation of strategic plans to facilitate regulatory compliance; preparation and implementation (including training) of Stormwater Pollution Prevention Plans at the County's Recycling Center and Fleet Maintenance Facility; preparation of a grant application packages requesting funds to assist in stormwater program implementation activities over the next several years. Also assisted the City in receiving the State's only exemption for participation in the NPDES Stormwater Phase II Program resulting in a savings of over \$100K to Cusseta-Chattahoochee County. Recently prepared a Vulnerability Assessment and Emergency Response Plan to meet new Homeland Security requirements as well as a comprehensive Water Conservation Plan to meet state requirements.
- **City of Holly Springs, Georgia, NPDES Stormwater Phase II Permit Planning and Program Implementation, 10/05 – 1/07:** Prepared a comprehensive NPDES Stormwater Phase II Annual Report for 2005 and 2006. Assisted the City in the implementation of several BMPs related to inspection, operations and maintenance policies and procedures; illicit discharge detection and elimination program; storm sewer mapping and employee training.
- **Polk County, Georgia, Emergency Response Planning, 10/04 – 2/05;** Prepared an Emergency Response Plan as required under the Public Health Security and Bioterrorism Preparedness and Response Act of in 2002. Also planned and conducted a training session with County management and staff to review potential vulnerability issues and facilitate understanding of new emergency response procedures.
- **City of Cochran, Georgia, Watershed Assessment and Protection Plan, Principal Author of Watershed Protection Plan, 8/00 – 8/04:** Independently researched and developed a comprehensive Watershed Protection Plan for the City of Cochran, Georgia. The plan included the creation of a watershed management decision-making process to improve impacted watersheds, recommendations for new development requirements, a long-term monitoring plan, and an analysis of funding options to support program implementation. Also prepared a Section 319 Grant Proposal requesting funds to construct and evaluate the pollutant control efficiency of a stormwater management wetland, and instituted a host of best management practices for industrial stormwater activities associated with local government operations.
- **Carpenter Company, Georgia, NPDES Industrial Stormwater Pollution Prevention Plan, 4/02 – 11/03:** Prepared a Notice of Intent application, Stormwater Pollution Prevention Plan and conducted a 2-hour Work/Training Session with company representatives to review plan requirements and procedures should an accidental spill occur. The effort included the design and installation of recommended best management practices to eliminate potential stormwater runoff problems from the facility.
- **City of Oxford, Georgia, NPDES Stormwater Phase II Permit Application and Program Implementation, 12/02 – 6/03:** Worked directly with local officials to develop and submit a permit application to GA Environmental Protection Division that describe in detail what the City will do to implement the six minimum stormwater control measures, evaluate their success with respect to each measure, as well as track and report their activities on an annual basis over the next five years. Effort included: presentations to the City Council; preparation of a Stormwater Program Management Plan; and GIS/mapping support and training activities.
- **City of Porterdale, Georgia, NPDES Stormwater Phase II Permit Application and Program Implementation, 12/02 – 2/04:** Developed and submitted a permit application to GA Environmental Protection Division that described in detail what the City will do to implement the six minimum stormwater control measures, evaluate their success with respect to each measure,

as well as track and report their activities on an annual basis over the next five years. Continuing effort includes: regular reports to the City Council; preparation of a Stormwater Program Management Plan; database and mapping support activities; and preparation of a 319 grant application package requesting funds to assist in stormwater program implementation activities over the next several years.

- **City of Griffin, Georgia, Watershed Assessment and Protection Plan, Oakview Drive Drainage Improvement Project, Quality Assurance/ Quality Control Expert, 7/01 – 6/02:** Conducted an analyses of water quality, sediment quality and biological data to identify locations of concern in an 11-mile segment of Potato Creek, Griffin GA. Served as Principal Author of the comprehensive watershed management plan that included recommendations for structural and non-structural best management practices for reducing nonpoint source impacts of the 303(d) listed stream to restore designated uses. Also worked closely with representatives from GA EPD to prepare and submit a Section 319(h) Grant Proposal requesting \$160,000 to conduct an innovative assessment of genetic signatures of in-stream and host material to enable identification and control of specific sources of fecal coliform within the impaired watershed. The grant proposal was successfully funded with the project set to begin in Spring 2003. The Oakview Drainage Improvement Project consists of retrofitting an existing stormwater detention pond for improved water quality and flood control that currently provides detention for 55 acres of commercial and multi-family residential development located within the City of Griffin. Prepared a detailed Quality Assurance Project Plan (QAPP) as a required component of Section 319(h) State Grant.
- **US Environmental Protection Agency, Savannah Harbor Sediment Quality Project, Project Manager, 7/92:** Utilized innovative sampling and analytical approaches to carry out over \$2 million of sediment testing in seven major harbors in the southeast. Other similar projects included: Kingsport Harbor; Jacksonville Harbor; Fort Pearce Harbor; Cape Canaveral; Miami River, among others. As Region 4's Contaminated Sediments Expert, she identified and implemented new sediment quality assessment (aquatic-life criteria and risk-assessment models) and cleanup approaches that became standard policy in Waste and Water Management Programs.

III. TRAINING

- **Pollution Prevention Jeopardy for Municipal Operations, 6/07 – On-going:** FOX presented on-site training to nearly 200 managers and staff from the Cities of Dallas, Hiram, Auburn, Woodstock, Flowery Branch, Oakwood, Cartersville and Cumming as well as Lee County, Fayette County and Bartow County to learn why and how employees should incorporate pollution prevention best management practices into all municipal operations and maintenance activities to reduce and eliminate polluted stormwater runoff. Additional training is scheduled to take place in Bartow and Paulding Counties in 2008. Topics are initially be presented in a classroom format and then emphasized through an interactive game of Pollution Prevention Jeopardy complete with prizes for all participants.
- **DOD Watershed Advisory Board, 7/02 – 6/03:** Responsible for organizing and implementing three water resources training workshops (stormwater phase II, erosion and sediment control, and spill prevention and response) for over 300 representatives from the Army, Air Force, Navy and Marines.
- **Alabama Nonpoint Source Training Workshop, 6/04:** Designed and presented three talks on effective stormwater management practices for complying with new NPDES Phase II requirements to 25 representatives from state and local governments in southern Alabama. Sessions focused on: developing and establishing new watershed ordinances; developing an illicit discharge detection and elimination program; and proven techniques to protect local water resources.

- **Spill Prevention and Stormwater Management Training, 1/03 – 7/03:** Designed and produced four successful workshops to over 200 representatives from the Army, Air Force, Navy, Marines, EPA, COE, and States (among others) on the environmental policies, regulations and innovative approaches related to the Oil Pollution Act and the National Permit Discharge and Elimination System (NPDES) Stormwater Phase II and Erosion and Sediment Control Programs. Each Training Program included distributions of notebooks and CDs containing extensive resource material (presentations and guidance documents) for use by participants to improve the understanding, enhance compliance, and prevent pollution at military installations throughout the southeast. Over 80% of the participants ranked the Trainings as “excellent,” with the remainder as good.”
- **Newton County Stormwater Program Management Training, 8/02:** Designed and presented a short course to Commissioners, Program Managers and staff designed to improve understanding and responding to new federal, state, and local total maximum daily loads (TMDL) and national pollution discharge elimination systems (NPDES) stormwater requirements (both erosion and sediment control as well as stormwater phase II) in Newton County. Presenters included leading experts from the University of Georgia and three science and engineering firms (including FOX Environmental, LLC). Notebooks were provided to attendees that included presentation materials as well as reference information.
- **Georgia Tech Research Institute, Continuing Education Program, 12/01 – 4/02:** Designed and presented three new short courses designed to assist Georgia counties, municipalities, and other affected stakeholders in understanding and responding to new federal, state, and local total maximum daily loads (TMDL) and national pollution discharge elimination systems (NPDES) stormwater requirements (both erosion and sediment control as well as stormwater phase II). Presenters included leading experts from the US Environmental Protection Agency, Natural Resource Conservation Service, Georgia Environmental Protection Division, Georgia Soil and Water Conservation Commission, Regional Development Counsels, local government, science and engineering firms, law firms, community groups, and academia. Notebooks provided at each training session included presentation materials as well as comprehensive reference information.
- **Georgia Association of Stormwater Management Agencies, 2/02 – 8/02:** Designed and presented several components in the first of a series new training courses designed to assist Georgia counties and municipalities in understanding the federal and state regulatory policies, practices and technical aspects of watershed assessments, sediment quality characterization, erosion and sedimentation control, and watershed management planning.
- **US Environmental Protection Agency, Region 4's Policy on How to Identify and Address Environmental Justice (EJ) Areas, Lead EJ Policy Analyst, 5/99:** Developed and trained Agency managers and staff on Region 4’s policy on how to identify environmental justice (EJ) communities. Methodology was used to help identify, communicate and reach consensus on controversial issues of concern at many public meetings on environmental planning (e.g., Atlantic Steel Redevelopment Initiative). This resulted in significant resource savings, both in terms of time and money.

IV. FUNDING IDENTIFICATION AND ACQUISITION

- **Walker County, 2/04 – 6/04:** Prepared a successful Section 319(h) Grant Proposal to GA EPD requesting \$175,000 to hire an Erosion and Sediment Control Inspector for three years, and purchase new equipment (computers, cameras, etc.) to monitor and enforce state and local requirements for controlling polluted stormwater runoff at construction sites in sediment impaired watersheds throughout the County.
- **The Center for Community Planning, 1/03 – 6/03:** Prepared a successful Section 319(h) Grant Proposal to GA EPD requesting \$120,000 to be used by Newton County and Georgia Wildlife Federation to hire an Adopt-a-Stream Coordinator to bring representatives from local organizations together to exchange ideas, provide training and coordinate monitoring and cleanup efforts for impaired streams throughout the county.
- **South Peachtree Creek Nature Preserve, 3/02 – 8/02:** Partnered with DeKalb County on a \$1,000,000 proposal to the Arthur C. Blank Foundation to purchase and maintain a 22-acre greenspace property adjacent to Peachtree Creek.
- **Department of Defense, Pollution Prevention Grant Program, 2/02 – 7/03:** Prepared a \$100,000 Grant Proposal requesting funds to establish a DOD P2 Watershed Advisory Board tasked with identifying and addressing water resource management needs (TMDLs, NPDES Stormwater Phase II and Construction Permits, Drinking Water) of military bases in the southeast. Potential activities include: needs assessment; P2 Tools Inventory; training; hands-on technical assistance; etc.
- **McIntosh Trail Regional Development Center, 11/01-1/02:** Prepared a successful Section 319(h) Grant Proposal to GA EPD requesting \$300,000 to help the McIntosh Trail Regional Development Center and other affected jurisdictions' identify sources of fecal coliform bacteria to Potato Creek. The innovative assessment will characterize the genetic signatures of in-stream and host material to enable identification and control of specific sources of fecal coliform within Potato Creek watershed. This information would be used to revise and update the Potato Creek TMDL Implementation Plan that identify specific actions needed to control/reduce nonpoint source inputs of fecal coliform into the nearly 20 mile long impaired stream segment. This information will be used to solicit funding for future implementation of appropriate best management practices so that TMDL loading threshold for the creek can eventually be met.

V. COMMUNITY INVOLVEMENT

- **Decatur Greenspace Commissioner, 9/02 – On-going:** Selected by the Mayor and City Council to serve on the City's Greenspace Commission. Currently working with other members to develop a greenspace program that includes: conservation easements, an inventory of existing and potential land preservation opportunities, establishment of new ordinances, and the creation of a land trust to promote greenspace preservation within and adjacent to the City of Decatur.
- **Clyde Shepherd Nature Preserve, Board Member, 8/01 – On-going:** Participant on Nature Preserve maintenance, public education; cleanup and fund raising activities related to greenspace acquisition. Selected projects include: on-site nature workshop with students from nearby Medlock Elementary School; numerous cleanup events with other non-profit organizations; planning and hosting Greenspace Festivals with arts and crafts, music, food, dance exhibitions; art shows, photography classes; etc.