

Qualifications Summary

- Professional engineer with extensive experience in developing and implementing projects in the environmental and water resources sectors
- More than 30 years of experience in planning, managing, and implementing infrastructure programs for water resources projects in the United States, South Caucasus, Central Asia, the Caribbean, Central and South America, and the Pacific Rim countries
- Excellent knowledge of engineering projects with a demonstrated ability to oversee the management of all program activities
- Proven ability to work effectively in a multinational team environment and liaise effectively with government agencies, civil society, and international donors
- Capability for managing multiple assignments with skills for resolution of issues in multi-cultural settings

PAUL C. DREYER, P.E., DEE

Senior Civil Engineer

Professional Affiliations

PE License	Professional Engineer: New Jersey, Massachusetts, and New York
BCEE	Board Certified as Diplomat by the American Academy of Environmental Engineers (AAEE)
Member	Constructions Specifications Institute (CSI)

Fields of Expertise

Professional environmental engineer with 30 years of experience in planning, managing, and implementing infrastructure development programs for water resources, water, and wastewater projects in the United States, the South Caucasus, Central Asia, the Caribbean, Central and South America, the Middle East, and the Pacific Rim countries. Recent experience includes the development and implementation a regional transboundary program for USAID in the three countries of the South Caucasus and the design and coordination of a major remediation program in the desert and coastal areas of eastern Saudi Arabia.

Excellent knowledge of all phases of engineering projects with a demonstrated ability to oversee the management of all program activities. Proven ability to work effectively in a multinational team environment and liaise effectively with government agencies, international donors, and civil society.

Higher Education

M.S., Civil Engineering-North Carolina State University, Raleigh, NC (1969)

B.S., Civil Engineering-Newark College of Engineering, Newark, NJ (1964)

Employment History

2004-Present	Woods Hole Group, Falmouth, MA
2001-2004	Development Alternatives, Inc., Bethesda, MD
1994-2001	CH2M Hill, Inc., Denver, CO
1969-1994	Camp Dresser & McKee, Inc., Cambridge, MA

Country Experience

Argentina, Armenia, Azerbaijan, the Bahamas, Bahrain, Cayman Islands, Chile, Colombia, Costa Rica, Dominican Republic, Dubai, Ecuador, Egypt, Georgia, Guatemala, Honduras, Hong Kong, Kazakhstan, Kyrgyz Republic, Mexico, Panama, Paraguay, Peru, Philippines, Qatar, Romania, Puerto Rico, Saudi Arabia, Singapore, Thailand, Taiwan, Turkmenistan, Ukraine, United Arab Emirates, United States, U.S. Virgin Islands, Uruguay, Uzbekistan and Venezuela.

Key Projects

Various Engineering Projects - Deputy Program Manager

Responsible for the development and implementation of engineering activities that includes planning, design, and implementation of water, ecological remediation, and training programs for private and public sector clients in Saudi Arabia and in the Middle East.

Water Management in the South Caucasus - Regional Manager

Developed and coordinated a regional water management program among the countries of Armenia, Azerbaijan, and Georgia for fostering cooperation in the South Caucasus that included monitoring of meteorological and hydrological data, training in computer programs, preparation of pre-feasibility water studies, development of river basin councils, and regional cooperation on trans-boundary issues in bi-lateral settings (USAID).

Agency for Financing Infrastructure for Water, Puerto Rico - Strategic Project Manager

Developed and implemented three strategic projects as part of a major water infrastructure program on the island of Puerto Rico that considered alternative delivery methods and innovative design and included development, design, permitting, bidding, and services during construction with local funding (AFI).

Rehabilitation of the Water and Wastewater Sector in Lima, Peru - Project Manager

Completed the engineering studies and design of a program of rehabilitation of the water and wastewater systems in the historic area of Lima, Perú that included studies, modeling, design, and bidding with international funding (IBRD).

Environmental Policy and Technology Project, Central Asia - Regional Manager

Developed and implemented a series of water management policy workshops leading to interregional agreements on water use and energy in the five countries of Central Asia that were the first international effort and included the cooperation of the donor community and local counterparts from Kazakhstan, Kyrgyz Republic, Tajikistan, Turkmenistan, and Uzbekistan (USAID).

U.S. Aral Sea Program, Uzbekistan - Program Manager

Provided oversight to the design and construction of water system improvements in remote areas of Kazakhstan, Turkmenistan, and Uzbekistan that included a reverse osmosis water treatment facility, improvements to water treatment plants, wellfield rehabilitation, and the provision of laboratory instruments and training as part of the U.S. Aral Sea Program (USAID).

Asia Bureau Water Strategy for South Asia - Consultant

Participated on a multi-disciplinary team that developed an Asia Bureau Water Strategy for sustainable water resource development and management for planning of future investments in the water sector (USAID).

Key Projects (continued)

Environmental Action Plan for Central Asia - Consultant

Participated on a multi-disciplinary team that developed an Environmental Action Plan for the Central Asian Republics in Kazakhstan that included sustainable water management of the Aral Sea and reduced pollution levels as strategic objectives for planning of future investments in the environmental sector (USAID).

Wastewater Technology Case Studies - Consultant

Invited lecturer in wastewater treatment technology and case studies as part of a training course for World Bank environmental engineers sponsored by the University of North Carolina at Chapel Hill, NC (IBRD).

Quality Control of Subsurface Data Collection - Project Manager

Implemented a quality control program as Quality Assurance Officer for an assessment and remediation services contract for a major highway program in Boston, MA (USDOT).

Wastewater System for Seven Mile Beach, Cayman Islands - Engineering Advisor

Advisor for a major infrastructure project including design, bidding, and construction for the first wastewater system in the country for the Water Authority of the Cayman Islands with international funding (IBRD and CDB)

American Water Works Association International Affairs Committee - Chairman

Chairman of the International Affairs Committee of the American Water Works Association (AWWA) and Member of the first Board of Directors that initiated Water for People (WPF) program for short-term technical assistance in the developing world that has recently completed ten years of successful operations.

Conception Water Supply Development for Tegucigalpa - Project Manager

Managed a multidisciplinary team that included computer simulation, geotechnical evaluation of dam sites, and water treatment options in Honduras for a new water supply source for Tegucigalpa with international funding (TDA).

Guatemala Water and Wastewater National Plan, Guatemala - Project Manager

Conducted a national planning study in Guatemala that developed prioritized planning criteria for water and wastewater systems based on extensive field studies, and prepared detailed feasibility studies for thirty communities with a local counterpart (IDB).

Design and Construction of Water and Wastewater Infrastructure, Florida - Team Leader

Managed a regional wastewater system expansion in Florida that included the design, permitting, bidding, and construction services for a series of projects that included elevated water storage tanks, booster pumping stations, sewerage systems, and treatment plants (USEPA).

Publications and Presentations

Mr. Dreyer has presented more than twenty technical papers on international development and policy issues in the environmental and water sectors in sixteen different countries.