

Dr. Campos's background consists of the general management of environmental engineering compliance activities, and professor of general, civil, and environmental engineering courses at various engineering schools in Puerto Rico. His work experience includes environmental management systems; supervision of environmental contractors; water and asbestos sampling and analysis techniques; design, construction and operation of pilot and full scale wastewater treatment systems; permitting and environmental services activities for private and government projects; and evaluation, planning and budgeting for environmental projects. Dr. Campos' doctoral dissertation was centered on the use of remote sensing technology for water quality monitoring and management in the San José Lagoon as part of the San Juan Bay National Estuary.

DETAILED CONSULTING AND PROFESSIONAL EXPERIENCE **MP Engineers of Puerto Rico, PSC. (Managing Engineer) (2005- Present)**

- Management of environmental services including permitting and environmental compliance related activities on behalf of the Puerto Rico Aqueduct and Sewer Authority under the Capital Improvement Program for infrastructure development.
- Environmental technical and management activities for industrial, commercial and government facilities on several regulatory compliance requirements.
- Management and supervision of technical staff specialized in environmental and regulatory compliance issues.
- Marketing development activities which includes: meetings and presentations to potential new clients, preparation of proposals, budgets, planning documents, and schedules for environmental projects, assessment of potential new environmental engineering markets for services within Puerto Rico.
- Permitting Manager for approximately 125 water and wastewater treatment projects included as part of a \$2.4 billion infrastructure capital improvement program in the North Region for the Puerto Rico Aqueduct and Sewer Authority.
- Project Manager for two \$400,000 Brownfields community-wide redevelopment projects in Puerto Rico which included completion of Environmental Assessments (Phase 1) and Public Outreach activities.
- Project Manager for various Municipal Separate Storm Sewer Systems (MS4) NPDES permit compliance related projects in Puerto Rico, including the development of digitized storm sewer maps, and

Luis F. Campos

Managing Engineer
MP Engineers of Puerto Rico

Education

BS (Civil Engineering);
University of Puerto Rico at Mayaguez

Master in Civil Engineering (Environmental),
Manhattan College, New York, NY

Ph.D. (Civil Engineering)
University of Puerto Rico at Mayaguez

Licenses and Certifications

Professional Engineer
(Puerto Rico Licence No. 8064)
Registered Environmental Manager
(Licence No.8065)

Other Qualifications

Certified asbestos and lead abatement
supervisor

Publications and Public Presentations

Co-Author of EPA publication: Observations and Recommendations of the Administration, Operation, Construction, and Pre-Treatment Management Practices of the Puerto Rico Aqueduct and Sewer Authority, San Juan, 1985.

Co-Author of the report: Development of Land Based Sources of Marine Pollution Protocol in the Eastern Wider Caribbean Region sponsored by United States Department of State and the United Nations Man and the Biosphere Programme, San Juan, 1989.

Author of paper: Monitoring of Hazardous Air Pollutants in Batch Pharmaceutical Processes, X Congress of Engineering and Land Surveyors of Puerto Rico at COINAR, Interamerican University, Bayamon, PR, 1998.

Author of paper: Monitoring Total Phosphorus Content in a Tropical Estuary Lagoon using an Hyperspectral Sensor, XV Technical Conference Asociacion Interamericana de Ingeniería Sanitaria. Rio Grande. May. 2008.

preparation of Notices-of-Intent (NOI), and Storm Water Management Programs at different municipalities in Puerto Rico.

University of Puerto Rico

Mayaguez, Puerto Rico (2000-2005)

- Ph.D, student pursuing degree in Civil Engineering

Pharmacia & Upjohn Caribe, Inc. (Director, Environmental Compliance Department) (1997-2000)

- Management of environmental compliance staff for a pharmaceutical manufacturing facility.
- Underground injection control permit, respectively; documentation preparation for all hazardous materials shipments as required by the US Department of Transportation
- Non-hazardous wastes manifests documentation in accordance with PR Environmental Quality Boards regulations
- Preparation of Section 204 of the Puerto Rico Environmental Quality Board's air permits application for stationary emission sources and compliance with HON requirements for pharmaceutical storage and process tanks and reactors.
- Responsible for compliance with Title V air emissions permit and leak detection requirements, including updating of emission units inventories: thermal oxidizer, process and chemical storage tanks, hazardous waste storage tanks, dust collectors, distilling towers, wastewater treatment plant, and others.
- Responsible for the compliance requirements of the Resource, Conservation and Recovery Act's (RCRA) Part B permit which included all RCRA facilities.
- Management of compliance activities with the National Pollutant Discharge Elimination System (NPDES) stormwater and Pre-Treatment permits for all plant activities.
- Management and supervision of environmental consultants and contractors responsible for the preparation of environmental support documentation for all related infrastructure projects.
- Preparation and implementation of the Risk Management Program, as required by EPA's 40 CFR Part 68, and 29 CFR Part 1910, as required the Occupational Safety and Health Administration (OSHA) Process Safety Management (PSM) regulations.
- Member of thermal oxidizer (TO) design team composed by management representatives, technical staff and consultant designer. The TO was designed and construction completed, as

Luis F. Campos (Cont.)

Research Projects:

Campos, L.; Effects of Climatological Disturbances on the Sea Surface Temperature in the Gulf of Mexico; University of Puerto Rico, Mayaguez, May, 2003.

Campos L.; Use of EPA's AERMOD Air Dispersion Model for Odours Emissions from the McCook Wastewater Reservoir; Chicago, IL, December, 2004.

Campos, L.; Optimization of Energy Production from the Luchetti Hydroelectric Plant using the U.S. Army Corp of Engineers HEC RES 2 Model; Yauco, PR; May, 2004.

Campos, L., Mueses, A.; Calibration of the HEC-HMS Hydrological Model for the Las Cruces Watershed Basin; Sabana Grande, PR; May, 2005.

Campos, L.; Identifying Total Phosphorus Spectral Signal in a Tropical Estuary Lagoon using a Hyperspectral Sensor and its Application to Water Quality Modeling; Ph.D. Thesis; Mayaguez, PR, December, 2009.

Author of paper: Monitoring Total Phosphorus Content in a Tropical Estuary Lagoon using an Hyperspectral Sensor, XV Technical Conference Asociacion Interamericana de Ingeniería Sanitaria, Rio Grande, May, 2008.

required by the Clean Air Act's Maximum Achievable Control Technology (MACT) rule.

- Member of Local Emergency Planning Committee (LEPC) with emergency response responsibility over emergency related occurrences within the pharmaceutical facilities located in Barceloneta and Arecibo regions.

Environmental Professional Group (Senior Partner) (1991-1997)

- Management, technical, and administrative responsibilities over all environmental engineering contracted projects and activities, which included: design of industrial wastewater treatment systems, technical assessment for the operation, maintenance and management of major drinking and wastewater treatment plants; operation and maintenance training for personnel involved in the operation of industrial wastewater treatment plants; preparation of planning assessments for residential treatment systems; preparation of noise pollution assessments for major commercial facilities; development of sampling plans for hazardous waste identification; development of waste minimization plans for major industrial facilities; preparation of closure plans for underground injection facilities. Supervision of a technical staff composed of 2 engineers, 2 technicians, and an administrative assistant.
- Phase I/II Environmental Assessments for the following companies:
 - Easton Inc.
 - Water Treatment Specialists, Inc
 - EG&G Dynatrend
 - Nabisco Co.
 - Star Kist Caribe, Inc.
 - Bumble Bee of Puerto Rico
 - Life Savers Manufacturing Inc.
 - Knogo Caribe Inc.
- Design of a neutralization wastewater treatment system for Faulding Puerto Rico
- Design of underground wastewater disposal system for Servimetal Inc.
- Expert witness in court/legal related cases for the following clients:
 - WMS Inc
 - Rexville Town Centre
- Air, Water and Land permits management for several companies:
 - Life Savers Manufacturing Inc.
 - Star Kist Caribe Inc.

- Sabanera Residential Development
- NB Jackets of Puerto Rico

United States Environmental Protection Agency (Chief, Water Management Staff) San Juan, Puerto Rico (1989-1991)

- Management, technical and administrative responsibilities over a staff composed of 3 environmental engineers, 2 environmental scientists, 2 coop students and an administrative assistant. Administrative responsibilities included: preparation and management of staff budget, work planning, program tasks projection, performance standards development, general staff supervision. Overall responsibilities included local management of the USEPA water programs in Puerto Rico and the United States Virgin Islands. Such activities included the supervision of federal and state delegated water related administrative programs, and its corresponding compliance obligations: National Pollutant Discharge Elimination System (NPDES), Section 201 of the Clean Water Act (CWA), Safe Drinking Water Act (SDWA), Section 404 of CWA (EPA's review of permit applications).
- Acting Director of EPA's Caribbean Field Office and EPA's representative in the Caribbean for all water related matters.

United States Environmental Protection Agency (Senior, Water Programs Engineer) New York and San Juan, Puerto Rico (1980-1989)

- Project engineer under the Construction Grants Branch for government project management of multi-million dollars wastewater treatment plants and facilities development in New York, New Jersey, and the Caribbean; review of planning, design, and construction related activities of major environmental control projects; inspection of major drinking water and wastewater treatment facilities for NPDES compliance purposes; inspection of potentially impacted Section 404 of CWA sites; enforcement officer and expert witness for various court cases in the Caribbean.

University and Professional Education Experience

- Professor of General, Civil, and Environmental Engineering courses at various engineering and science schools (Universidad del Turabo, Universidad Metropolitana, Universidad Politécnica, and Caribbean University;
- Coaching instructor for the College of Engineers and Surveyors of Puerto Rico for the fundamental and professional engineering bar exams candidates

- Past President and Member of various consultants committees for the State Superior Education Council in charge of evaluating educational programs at different universities in Puerto Rico