

MARCO F. HERNANDEZ, P.E.

Education

B.S. – Civil Engineering, Florida International University, Miami, Florida 2003

Professional Licenses

Professional Engineer – Florida (License No. 69202)

Specialty Certifications

40 HR HAZWOPER

FDEP Qualified Stormwater Management Inspector #7071

Professional Experience

Marco Hernandez has over 17 years of experience in environmental regulatory compliance, remediation, storage tank closure assessments, materials testing and construction inspection services. He is knowledgeable in the area of environmental site assessments, environmental remediation, environmental regulatory compliance, dewatering, deep foundation construction, surveying, computer-assisted drawing and geographic information systems.

Mr. Hernandez has prepared remedial action work plans for the submission to the Miami-Dade County Department of Environmental Resources Management (DERM), the Broward County Environmental Protection and Growth Management Department (EPGMD) and the Florida Department of Environmental Protection (FDEP). Mr. Hernandez has conducted environmental site assessments for government agencies such as Florida Department of Transportation, Miami-Dade County Regulatory and Economic Resources, Miami-Dade County Public Schools, Miami-Dade College, the City of Miami and the United States Navy.

Examples project experience, after joining SCS Engineers, includes:

FDOT District 6, US-1 Roadway Improvement Project – Segment II, Miami, Florida. The purpose of this project was to widen a 10-mile stretch of US-1 from Miami-Dade County to the Florida Keys. During this operation, DERM became involved and issued a Cease and Desist from continuing to transport the material to the nursery and instructed that the contractor (Community Asphalt) to obtain a permit to operate a solid waste facility and registering as an FDEP Yard Trash Processing Facility and to conduct a baseline and continued monitoring of the groundwater at all staging and processing sites. Revised Muck/Mulch Handling and Reuse Plan, assisted in generating the written response to DERM's letter, and represented CAC and FDOT at meetings with DERM.

FDOT District 6, Tamiami Trail Project, Miami, Florida. Perform monitoring well installation. Install and develop three shallow depth monitoring wells at the Tamiami Trail. Perform soil sampling and reporting for property.

Groundwater Remediation, Various Sites, Miami-Dade County, Florida. Program Manager. Designed arsenic and petroleum groundwater remediation pilot tests and associated pump tests. Managed operation of arsenic and petroleum groundwater remediation pilot and pump tests for private utility provider. Has prepared several RAPs for a private utility provider that were approved by DERM. Has obtained Industrial Water Use Permits (WUPs) through the SFWMD for remediation system



implementation. Has prepared construction plans for full-scale groundwater remediation systems. Has permitted groundwater remediation systems through the City of Coral Gables, the City of Miami and Miami-Dade County. Has managed the construction, operation and maintenance of three full-scale groundwater remediation systems in Miami-Dade County.

Soil Remediation/Source Removal, Annie Coleman Apartments, Miami-Dade County, Florida. Project Engineer. For a 245-unit public housing development oversaw the removal of contaminated soil in a residential area. The project was completed in nine weeks with 1,900 cubic yards of soil removed from approximately 82,500 square feet of unpaved surfaces throughout the public housing complex.

Soil Remediation, Various Sites, South Florida. Project Manager. Coordinated and managed arsenic source removal at various sites for a private utility provider in Miami-Dade County. Has prepared source removal plans, soil blending calculations and has implemented soil source removal for petroleum and arsenic soil contamination at various other sites for private sector clients.

Hazardous Soil Remediation, AAA Radiators, Miami-Dade County. Project Manager. Coordinated and managed confirmation soil and groundwater sampling and reporting for a lead soil solidification project for a hazardous waste site in Miami-Dade County.

Environmental Site Closure, Various Sites, Miami-Dade County, Florida. Project Manager. Coordinated with the Florida Department of Environmental Protection and Miami-Dade County Department of Regulatory and Economic Resources for restrictive covenants associated with conditional site closures in Miami-Dade County for private sector clients. Has obtained conditional closure (No Further Action with Conditions) for four sites in Miami-Dade County for private sector clients.

Engineering Control Plans, Various Sites, Miami-Dade County. Project Manager. Has prepared engineering control plans and cost estimates for implementation in support of conditional site closures for private sector clients and government agencies. These projects included, but are not limited to, the Miami Marlins Stadium.

Engineering Control Inspections, South Florida. Project Manager. Has conducted annual engineering control inspections for a private sector Client.

South Florida Water Management District (SFWMD) and Miami-Dade County Department of Environmental Resources Management (DERM) Dewatering Permits, Various Sites, Miami-Dade County, Florida. Project Manager. Obtained dewatering permits for construction and remediation projects in Miami-Dade County from the SFWMD and DERM. These projects included three arsenic and/or petroleum groundwater remediation systems and construction of one liquefied natural gas fueling facility.

Environmental Due Diligence, Various Sites, Broward County and Miami-Dade County. Project Professional. Has performed several Phase I and Phase II Environmental Site Assessments associated with real estate transactions for private sector clients and government agencies, including All Aboard Florida and Miami-Dade County. Has implemented soil source removal projects under the de minimus provisions of Chapter 62-780, Florida Administrative Code, for expedited real estate transactions.

Environmental Sampling, Various Sites, South Florida. Project Manager. Has managed and/or conducted soil and groundwater sampling throughout South Florida for private sector clients and government agencies, including, but not limited to, All Aboard Florida, Flagler Development Group, a private utility provider, City of Miami and Miami-Dade County.

Environmental Site Inspections, Various Sites, Miami-Dade County, Florida. Project Professional. Has conducted site inspections to identify solid waste associated with incinerator ash in City of Miami parks, including the Melreese Golf Course, Grapeland Park and Merrie Christmas Park.

Examples project experience, prior to joining SCS Engineers, includes:

Remedial Action Plan and Implementation, BASF, Miami-Dade County, Florida. Project Engineer. Prepared a soil vapor and groundwater remediation work plan for submission DERM. Oversaw monitoring/recovery well construction, and conducted soil, groundwater and soil vapor sampling in an active warehouse for the referenced project. In addition, conducted and interpreted a series of aquifer pump tests and soil vapor extraction pilot tests. The remedial action removed over 99 percent of contaminants in soil in six months and reduced the size and magnitude of the groundwater impacts plume by approximately 50 percent through short-term groundwater extraction.

Storage Tank Removals and Closure Assessments, Various Sites, Miami-Dade County, Florida. Project Engineer. Oversaw Underground Storage Tank (UST) removal, associated site assessment and source removal at the City of Miami Police Headquarters, a Petroleum Program site, and generated the associated Tank Closure Assessment Report (TCAR) for the City of Miami.

Oversaw a multiple UST removal at a condominium/hotel in Miami Beach, Florida. Conducted and certified the associated site assessment and source removal. Generated the TCAR for the Client for submittal to DERM and FDEP. Subsequently received a Site Rehabilitation Completion Order from the State of Florida.

Oversaw UST removal from the Former Orange Bowl and Associated Parcels (Former Moonlight Service Station) site. Conducted site assessment activities associated with storage tank closure.

Greenhouse Gas Reporting, Various Landfills, Miami-Dade County, Florida. Staff Engineer. Drafted and prepared the backup for the first mandatory annual greenhouse gas report for Miami-Dade County Solid Waste Management's North Dade Landfill, South Dade Landfill and 58th Street Landfill for submittal to the United States Environmental Protection Agency.

Remedial Action Plan for EPGMD, Golf Course Maintenance Area, Broward County, Florida. Project Engineer. Prepared the initial Remedial Action Plan (RAP) for a large dissolved arsenic groundwater plume at a golf course facility in Broward County. The remedial design consisted of in-situ treatment of dissolved arsenic, and was developed after an extensive study of aquifer chemistry in order to maximize the success of the design.

Remedial Action Plan for FDEP, Former Gas Station, Santa Rosa County, Florida. Project Engineer. Prepared a RAP for a high-priority Petroleum Program site. The remedial design consisted of a combination of in-situ and ex-situ treatment including electrical-resistance heating in contaminated clays with soil vapor recovery and onsite thermal destruction of petroleum off-gas vapors.

South Florida Water Management District (SFWMD) and DERM Dewatering Permits, Various Sites, Miami, Florida. Project Engineer. Obtained dewatering permits for construction projects in Miami and Miami Beach from the SFWMD and DERM. Designed dewatering effluent treatment systems to reduce turbidity and arsenic in dewatering effluent prior to discharge. These projects included the public infrastructure construction (water, sewer, drainage and electrical) dewatering for the new Miami Marlins Stadium in the City of Miami and several private utility provider trenching projects.

Environmental Sampling, Various Sites, South Florida. Project Engineer. Has conducted soil, soil vapor, groundwater and surface water sampling/monitoring throughout South Florida for private sector clients and government agencies, including Miami-Dade County Public Schools, City of Miami, Miami-Dade College, U.S. Navy and the City of Marathon.

Environmental Due Diligence, South Florida and Central America. Project Engineer. Has performed several Phase I and Phase II Environmental Site Assessments associated with real estate transactions throughout South Florida and in Panama for private sector clients and government agencies.

Has assisted in conducting mean-high water surveys throughout the Florida Keys, Broward County, Palm Beach County, Martin County and St. Lucie County for the Florida Forever Project for the FDEP. Responsibilities included assistance in setting over 200 tide stations, carrying elevations to tide stations, mean-high water elevation calculations and mapping the mean-high water line.