

BRIAN CHRISTOPHER MOODY, P.E.

EDUCATION

MSCE, Structural and Geotechnical Engineering, Manhattan College, 1999
BSCE, Structural Engineering, Manhattan College, 1997

PROFESSIONAL REGISTRATION

New York - 078994 Georgia - 040398 South Carolina and Florida (Pending)

PROFESSIONAL AFFILIATIONS and CERTIFICATIONS

American Society of Civil Engineers
Transportation Worker Identification Credentials (TWIC)
National Bridge Inspection Standards (NBIS), 2015 Refresher Course #FHWA-NHI-130053
National Bridge Inspection Standards (NBIS), 2010 Refresher Course #FHWA-NHI-130053
National Bridge Inspection Standards (NBIS), 2005 Course #FHWA-NHI-130055
NYSDOT Bridge Inspection Course, 2011
NYSDOT Fatigue and Fracture Critical Bridge Inspection Course, 2011
Association of Diving Contractors International (ADCI), Hard Hat Surface-Supplied Air Diver #4727
DAN Nitrox Diver Qualified
OSHA Fall Protection, OSHA Confined Space
Metro-North RR Safety Training Course
ASTI Certification Courses - CPR/AED, Emergency Oxygen Administration, Bloodborne Pathogens & OPIM and Universal First Aid

SUMMARY

Mr. Moody has over 17 years of experience in engineering management, underwater inspection, and structural design of waterfront structures and buildings. Through this experience Mr. Moody has developed skills necessary to act as a dive team leader on various subaqueous investigations, lead designer for waterfront structures and foundations, as well as project manager of underwater and above water marine construction inspection projects. He has worked on all types of waterfront structures including, ports, marinas, piers, wharfs, fender systems, relieving platforms, anchorage systems, bulkheads, canal structures, gangways, water taxi landings, dams, bridges, culverts, roadways, buildings, and foundations. In Mr. Moody's vast experience he has gained a high degree of proficiency in working with a variety of marine construction materials including timber, steel, aluminum, reinforced concrete, elastomeric fenders, and plastic lumber. In addition, he has developed high familiarity with marine environmental considerations including corrosion, deterioration, biological decay, marine borer attack, vessel collision, foundation scour, tidal fluctuation (ADA ramp requirements), wave & current loadings, and storm surge. Mr. Moody has utilized cutting edge inspection and investigation technology, including underwater ultrasonic thickness measurement, timber coring and analysis, underwater sonar, timber pressure treatment retention analysis, underwater videography, and submarine cable detection equipment.

As a Team Leader/P.E. Diver his responsibilities include inspection, design and analysis, report preparation, construction inspection and construction support services. He has worked on projects for the NJDOT; NJ Transit; MTA: TBTA, Metro-North, LIRR and NYC Transit; NYCDOT; NYCEDC; NYSDOT; NYSTA; New York Canal Corporation; PANYNJ; NYCEDC; NHDOT; and U.S. Coast Guard.

Mr. Moody's extensive underwater bridge inspection experience is relevant to Dam Inspection. In particular, relating to failures from flood damage, he has often been called upon to perform "emergency bridge inspections" for NY, NJ, CT DOT's and the NYS Canal Corp (which included inspection of Canal Locks, and some Dams and Spillways). Earlier in his career he inspected a handful of Dams for NJ DEP (Currently, NJ DEP requires "regular inspections" and "formal inspections" of Class I and Class II dams every two years and ten years respectively). More recently he was part of a team that performed repair and inspection at several NYCDEP Dam sites.

CAREER HISTORY

FORCON International - Provides forensic engineering and expert witness services regarding damage and construction defects for all types of waterfront structures and buildings including underwater inspections

McLaren Engineering Group - Atlanta Office Manager/ PE Diver - Leads underwater and above water investigations of waterfront structures. Performs structural analysis/design of new structures and repair design to existing waterfront structures. Marine construction administration and underwater construction inspection.

REPRESENTATIVE PROJECTS

- Bridge Inspection Program; New York City; for New York City Department of Transportation; Underwater inspection and assessment of various New York City Bridges. Services performed included inspection of bridges throughout the five boroughs, report preparation, and repair recommendations.
- White Hall Ferry Terminal Repairs; Staten Island, NY; for NYCDOT; Supported structural evaluations at various terminal locations including load-bearing analysis of piles and pile caps. Responsibilities included underwater inspections, construction reports, preparation of existing reports, and load rating.
- Staten Island Homeport Bulkhead/Seawall Rehabilitation; Staten Island, NY; for NYCEDC; Design and construction support services for long-term rehabilitation of a collapsed portion of steel sheet pile bulkhead located at Staten Island Homeport. Services provided include engineering analysis and design for a replacement tied back bulkhead. A full set of construction drawings and technical specifications were prepared, as well as construction cost estimates and assistance with bidding.

- Subaqueous Rehabilitation of Slip 4; St. George Ferry Terminal, Staten Island, New York; for New York City Department of Transportation; Responsibilities included design and resident engineering services for the underwater inspection and rehabilitation of the supporting structure of the transfer bridge and terminal wing at Slip 4.
- Pier 1 and Pier 2 Condition Assessment; Staten Island, New York; for New York City Department of Transportation; Design and construction support services necessary to repair two pile supported concrete deck piers (Piers 1 and 2) as well as the adjacent waterfront structures used as wet storage and repair berthing for the Staten Island Ferryboats. Repairs encompass the timber fender system surrounding each pier. Responsibilities included performing the necessary inspections and designing the required repairs.
- 2011-2012 Underwater Inspections; for NYSDOT West Regions 3, 4, 5 & 6 (129 bridge, 237 SSUs); Underwater inspection of 129 bridges and assessment of 237 SSU's in West Regions 3, 4, 5 & 6. Responsibilities also included comprehensive reports in accordance with NYSDOT requirements.
- Above/Below Water Inspection of 450 bridges for Connecticut DOT; Underwater inspection of selected bridges and preparation of inspection reports.
- Underwater Inspection of Transfer Bridges for NYCDOT; Underwater inspection and report preparation of 21 transfer bridges for ferry terminals in St. George, Staten Island and Whitehall, Manhattan.
- Above and Below Water Inspection of 270 Statewide Bridges; for Connecticut DOT; responsible for underwater bridge inspections for approximately 270 highway and railroad bridges. Types of bridges inspected include steel deck girders, thru girders, concrete slab, and steel trusses. Responsibilities included in-depth inspection, photography, permitting, reporting, and repair recommendations.
- Inspection of 20 Metro North Railroad Bridges; for Connecticut DOT; Inspection of MNR bridges throughout the state of Connecticut. Responsible for bridge inspections as well as report preparation.
- Inspection of the East Park Relieving Platform; Manhattan, NY; for Con Edison; Underwater Assessment and Construction Inspection of the East Park Relieving Platform. Responsible for assessment of structural capacity, repair recommendations and inspection of construction work to ensure compliance with design drawings.
- Below Water Inspection of Canal Structures; Albany, Syracuse and Buffalo, NY; for New York State Thruway Authority; Underwater inspection of approximately 100 canal structures along the New York Waterway Canal System. Provided underwater condition assessment of structures, which included locks, guard gates, fixed crest dams, moveable dams, taintor gates, spillways, terminals, docks, guide structures and culverts. Prepared comprehensive reports, which included drawings and photo documentation.

- St. George Ferry Terminal - Vessel Impact; Staten Island, NY; Underwater Inspection and investigation of 2003 vessel impact of Pier 1. Responsibilities included report preparation, rehabilitation plans for timber piles and framing repairs, a new fender system, and Construction Inspection.
- 500+ Underwater Bridge Inspection and Assessment NJDOT Bridges; New Jersey; Underwater Inspection and assessment for the NJDOT and various engineering consultants. Services performed included completion of bridge inspection forms, photo documentation, and recommendations of repair options.
- Marine Borer Study of FDR Drive; New York, NY; for NYCDOT; Underwater inspection and marine borer study of the FDR Drive. Participated in the underwater inspection and condition assessment of thousands of timber piles, which included sample coring of timber piles for statistical study of the level of Marine Borer infestation.
- New York Marine Terminal Inspection of Piers 2, 3, 4, 5, & 11; Brooklyn, NY; for Port Authority of New York and New Jersey; Underwater inspection and assessment of bulkheads (timber piles, steel H-piles, pile cap beams, pile extensions, steel sheet piles) between Piers 2 and 3, Piers 4 and 5 and along Pier 11. A topside inspection of the concrete seawall and wharf was also performed to determine its general condition.