

MARINE + COASTAL



McLaren
ENGINEERING GROUP



McLaren Engineering Group – Headquarters
530 Chestnut Ridge Road, Woodcliff Lake, NJ 07677
Ph. 1-800-420-6401

49
STATES
LICENSED

20k+
PROJECTS
COMPLETED

45
YEARS OF
APPLIED INGENUITY

11
OFFICES
WORLDWIDE



About Us

McLaren Engineering Group is a leading full-service engineering firm renowned for its trusted, high quality, and innovative approach to solving complex challenges. With industry experts in multiple technical disciplines, our team has provided customized solutions for over 20,000 projects through consultation, design, inspection, and construction management. With over four decades of experience, a staff of 200+, and 11 offices worldwide, McLaren addresses every project's specific needs with technical excellence and creative innovation.



Joseph Acosta
VP Marine Engineering
JAcosta@mgmclaren.com

Core Technical Divisions

STRUCTURAL | CIVIL + SITE | MARINE + COASTAL | BRIDGE, HIGHWAY + RAIL
ENTERTAINMENT | GEOTECHNICAL | FACADE + BUILDING ENVELOPE
CONSTRUCTION ENGINEERING | FORENSICS | SURVEY + MAPPING



Domino Park, Brooklyn



MARINE + COASTAL ENGINEERING

With the most advanced and reliable services available in-house, McLaren's Marine Engineering Division is changing the landscape of the maritime industry.

Consisting of over 45 engineers, divers, designers, and scientists, our company is able to provide some of the best services in complex waterfront inspection, design, rehabilitation, and construction management.

Our work ranges from large-scale projects like the expansion of the NYC Ferry system, the design of complex berths ship terminals, and the support of offshore wind development, to the rehabilitation of piers, bulkhead designs, and dive inspections led by Professional Engineers.

From offices nationwide, we provide clients with innovative marine engineering services from concept to completion and beyond.

MARINE STRUCTURAL
DESIGN + GEOTECHNICAL
ENGINEERING

INSPECTION,
MAINTENANCE +
REHABILITATION

COASTAL ENGINEERING,
PERMITTING + RESILIENCY

MARINE SURVEY + MAPPING

www.mgmclaren.com

NEW CONSTRUCTION
REHABILITATION
GEOTECHNICAL ENGINEERING
OFFSHORE WIND SUPPORT
BID ASSISTANCE
BERTHING/MOORING ANALYSIS
CONSTRUCTION MANAGEMENT
REGULATORY PERMITTING
DREDGING AND RECLAMATION

STRUCTURAL DESIGN + GEOTECHNICAL ENGINEERING

The design and rehabilitation of waterfront facilities requires effective integration of coastal, structural, and geotechnical engineering principles. Typical services include site selection and characterization, concept design, berthing and mooring analyses, hand and computer-based analysis, regulatory permitting, marine construction cost estimating, development of contract drawings and specifications, and support during construction. The successful combination of these services and core engineering principles allows us to perform new design and rehabilitation of piers, bulkheads, floating structures, marinas and small craft harbors, marine terminals, and ferry landings in any environment.



APPLIED INGENUITY



NYC FERRY SYSTEM



DOMINO SUGAR WHARF



WORLD'S FAIR MARINA



FDNY MARINE 1 & 9 HARBORS



WEEHAWKEN RECREATIONAL PIER



PORT OF WILMINGTON BERTH 1-3 UPGRADES

DIVE INSPECTIONS

ASSET MANAGEMENT

REHABILITATION DESIGN AND
REMEDiation

CONDITION ASSESSMENT

FEASIBILITY STUDIES

STRUCTURAL EVALUATION

MAINTENANCE MANAGEMENT
SYSTEM

FORENSIC EVALUATION

SERVICE LIFE EVALUATION

INSPECTION, MAINTENANCE + REHABILITATION

McLaren's team of industry leading PE-Divers, engineer-divers and technician divers are highly skilled in the identification of damage and deterioration, the evaluation of cause and significant findings, and in the development of constructible, durable repairs of waterfront structures. The advantage of utilizing our PE-Divers lies in the fact that the same Engineers performing the inspection are taking the gathered information and performing load calculations, designing repairs, performing service-life analyses, estimating construction costs, and producing contract bid documents. With over 16 ADCI-certified divers and extensive commercial inspection equipment, we are able to mobilize anywhere in the United States within 24 hours. McLaren's team can also provide additional planning services through service life evaluation (testing, modeling and cost-benefit analysis of alternatives) and development of computerized maintenance management systems to assist with managing the long-term planning for any client's asset inventory.

APPLIED INGENUITY



BATTERY PARK CITY PILE REHABILITATION



PUERTO RICO PORT INSPECTIONS



NYS DOT BRIDGE INSPECTIONS



MOTEMS INSPECTIONS



PANYNJ WATERFRONT INSPECTIONS



U.S. GYPSUM

COASTAL MODELING

LIVING SHORELINES

COASTAL STRUCTURES

FLOOD RISK MANAGEMENT

SHORELINE RESTORATION +
PROTECTION

COASTAL ANALYSIS AND
REGULATORY COORDINATION

PERMITTING AND ENVIRONMENTAL
REVIEW

SUSTAINABLE WATERFRONT EDGE
DESIGN

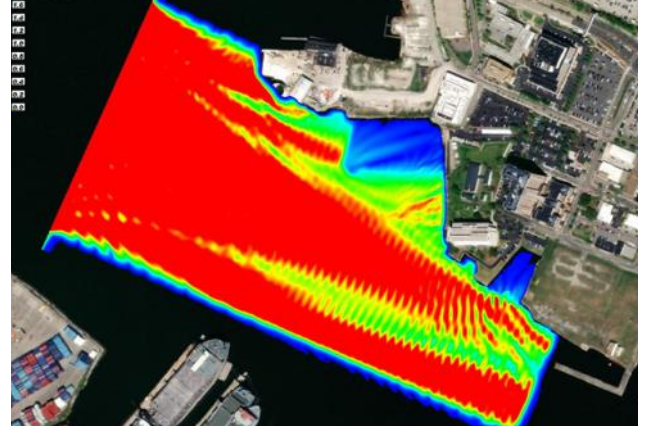
COASTAL ENGINEERING, PERMITTING + RESILIENCY

McLaren's coastal engineering and resiliency practice puts the focus on protecting communities and waterfront facilities through coastal flood risk management, coastal engineering, coastal restoration and mitigation, and waterfront redevelopment. Our engineers understand the dynamics and interdependencies of the physical and ecological functions that are critical to the development of sustainable, resilient solutions, bringing the system back to balance while protecting critical assets and people. We understand the complex environment where land meets water and provide solutions for shoreline protection, waterfront re-development, coastal green infrastructure, flood risk management and dredged material management.

APPLIED INGENUITY



TRANSMITTER PARK



NORFOLK ARMY CORPS PIER



FLOATING WETLAND NATIONAL AQUARIUM



STAPLETON WATERFRONT



BAY BREEZE PARK



SOUTH PHILADELPHIA WETLANDS PARK

MULTIBEAM BATHYMETRY

SINGLEBEAM BATHYMETRY

GEOPHYSICAL SURVEYS - SIDE SCAN
SONAR, MAGNETOMETER AND
SUB-BOTTOM, ETC.

SMALL UNMANNED SURFACE VESSELS
(SUSV)

DRONES & UNMANNED AERIAL
SYSTEMS (SUAS)

MOBILE & STATIONARY 3D LIDAR /
LASER SCANNING

HYDROGRAPHIC SURVEY + MAPPING

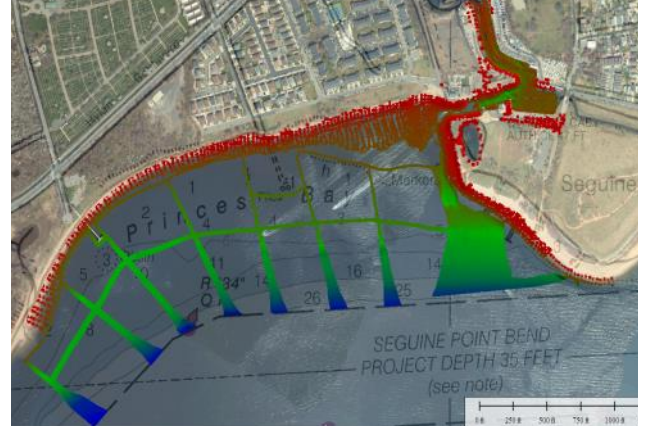
McLaren's in-house hydrographic survey and mapping team is an integral first step for determining if a project in or near water is conceptually and physically feasible. In addition to large offshore or near-shore construction projects, these surveys can also be used as analysis for flood inundation, scour and stabilization, water-quality studies, waterfront facility inspections, habitat mapping, dam removals and environmental spills.



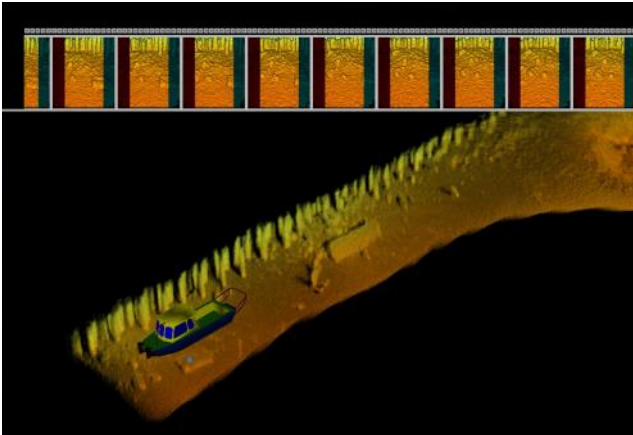
APPLIED INGENUITY



FEMA SHORE STABILIZATION



LEMON CREEK MARINA



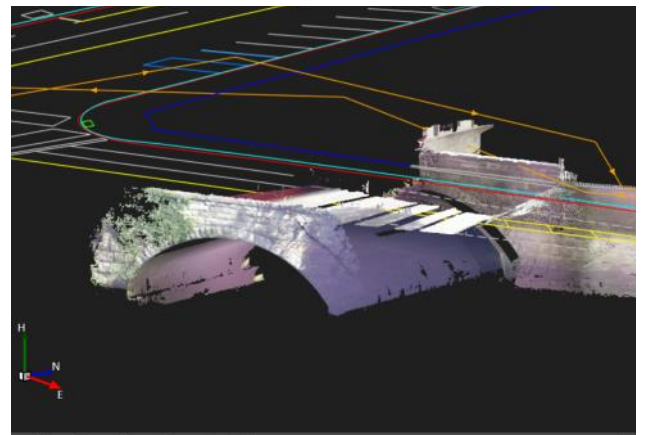
470 KENT AVE



BARNHART ISLAND BRIDGE



WESTCHESTER BUNDLED BRIDGES



SCANNING



NEW JERSEY (HEADQUARTERS)

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