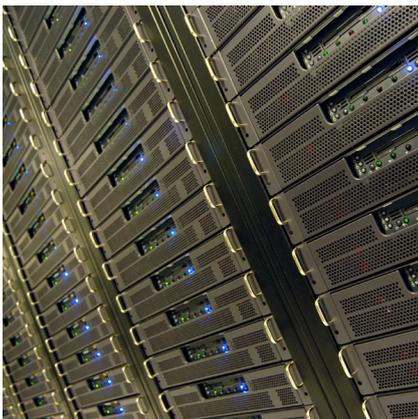


LANGAN QUALIFICATIONS - SIEMENS



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LINCOLN CENTRE LIFE SCIENCES RESEARCH CAMPUS

Location: Foster City, California
Client: BioMed Realty Trust, Inc.
Architect: HOK
Services: Geotechnical, Environmental, Earthquake/Seismic

OVERVIEW

Located on the Peninsula, Lincoln Centre is a 595,000 SF biomedical and life sciences research campus redevelopment. The buildings of the former industrial park were demolished. The development now includes three office/laboratory buildings, three parking structures, and an amenities building. Langan performed a geotechnical investigation and site-specific seismic studies, updated the Phase I Environmental Site Assessment, conducted a Limited Environmental Site Characterization, and provided construction observation and analytical testing services.

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JP MORGAN CHASE DATA CENTER

Location: Carlstadt, NJ
Client: Highland Associates
Partner: Thornton Tomasetti
Services: Site/Civil, Geotechnical, Earthquake/Seismic, Traditional
Surveying

OVERVIEW

Langan provided complete geotechnical, site/civil, and survey services for this data center, which consisted of renovating an existing 90,000-square-foot, two-story office building; constructing a new 40,000-square-foot building addition; and installing underground water storage tanks, back-up generators, and above-grade electrical substations.

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UNIVERSITY OF MIAMI - LIFE SCIENCE & TECHNOLOGY PARK

Location: Miami, FL
Client: Wexford Science and Technology
Architect: Zimmer Gunsul Frasca
Partner: Whiting Turner
Services: Site/Civil, Geotechnical

OVERVIEW

The research and development park provides office and laboratory space for companies to collaborate with UM researchers, making it easier to turn scientific discoveries into commercial products. The extensive 1.4-million-SF research and development complex includes numerous mid-rise buildings and associated multi-level parking structures.

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TEXAS INSTRUMENTS CORPORATION

Location: Palo Alto & Santa Clara, CA, & Puyallup, WA

Client: Texas Instruments Corporation

Services: Environmental, Site/Civil

OVERVIEW

Langan has worked on various Texas Instruments Corporation sites managing groundwater monitoring programs, designing and implementing remedial programs and working with regulatory agencies towards site closures.

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TALLAHASSEE RENEWABLE ENERGY CENTER

Location: Tallahassee, FL
Client: Biomass Gas & Electric
Services: Site/Civil, Geotechnical, Environmental, Natural Resources & Permitting

OVERVIEW

Biomass Gas & Electric is proposing to construct a biomass-fueled electrical generating power plant on an approximately 23-acre site in a geologically karst sensitive area. The site contains wetlands, a high voltage transmission line, and a significant grade change. Langan provided site/civil engineering, geotechnical engineering, environmental engineering, natural resources and associated permitting services. Langan designed the site to accommodate the most efficient use of the land for the power plant while avoiding impacts to wetlands and balancing earthwork.

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UCHC OUTPATIENT PAVILION AND PARKING GARAGE

Location: Farmington, CT
Client: Fusco/Clark - a Joint Venture
Services: Site/Civil, Environmental, Traditional Surveying

OVERVIEW

The UCHC Ambulatory Care Complex is a design-build project with an aggressive delivery schedule. The project includes a 300,000 square-foot medical building and six-story parking garage. Langan is providing engineering, environmental permitting and surveying services. Site challenges include existing wetlands that require filling, a mass excavation over more than 70 feet in some areas, a need for flood management verification, and significant utility upgrades and reconfigurations on an active health care campus. The site design will incorporate environmentally sensitive stormwater techniques and the team is seeking LEED Silver certification for the project.

AWARDS

2016 Connecticut Building Congress Project Team Award - First Place for New Construction

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Credit: Visualhouse

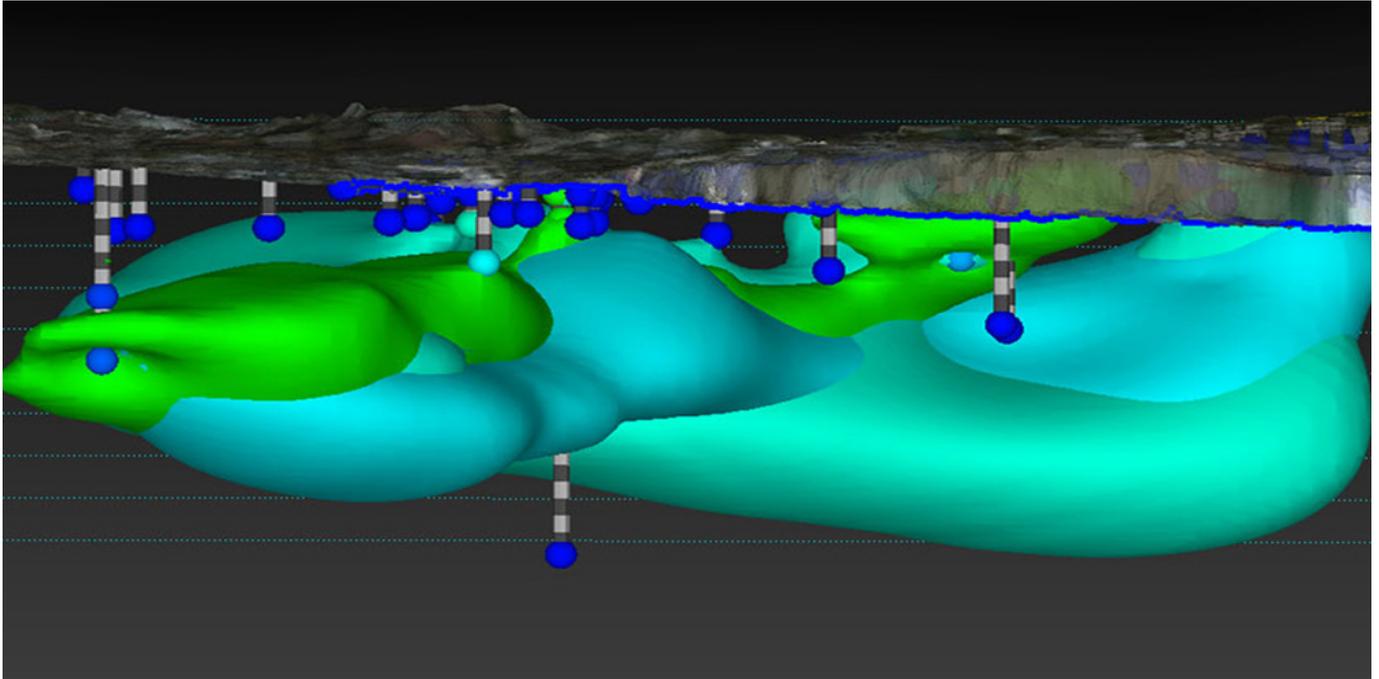
HUDSON YARDS REDEVELOPMENT

- Location:** New York, NY
- Client:** Hudson Yards, a Related Oxford Venture
- Architect:** Kohn Pedersen Fox, Skidmore, Owings & Merrill, Diller
Scofidio + Renfro, Ismael Leyva Architects, Rockwell Group
- Partner:** Thornton Tomasetti, WSP
- Services:** Geotechnical, Environmental, Site/Civil, Traffic &
Transportation, Traditional Surveying, Terrestrial
Scanning/BIM

OVERVIEW

This major New York City redevelopment, under the joint guidance of the City, the Metropolitan Transportation Authority, and State of New York initiatives, is in the process of reinventing the Hudson Yards area in midtown Manhattan. Langan has been retained by multiple teams to provide geotechnical, site/civil, environmental, and traffic engineering, seismic design analysis, and surveying services during the pre-design phase of development.

Technical Excellence Practical Experience Client Responsiveness



3D VISUALIZATION OF COMINGLED CHLORINATED SOLVENT PLUMES

Location: Confidential Site, NJ
Client: Confidential
Services: Data Solutions

OVERVIEW

Langan provided 3D visualization analysis of the hydrogeologic framework and contaminant transport at a former industrial facility in New Jersey. The site was characterized by a large and dilute chlorinated solvent plume that has migrated 5,300 feet within a fractured bedrock aquifer. Multiple off-site sources also contributed dissolved solvents to the comingled plume. Environmental Visualization Studio (EVS) software was utilized in order to gain a better understanding of contaminant transport in the fractured and faulted bedrock aquifer. EVS software uses advanced gridding and geostatistical analysis to create 3D models of geologic setting and analyte spatial data.

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PANASONIC NORTH AMERICAN HEADQUARTERS

Location: Newark, NJ
Client: SJP Properties, Matrix Development
Architect: Gensler, HLW
Services: Site/Civil, Geotechnical, Traffic & Transportation, Natural Resources & Permitting, Landscape Architecture, Traditional Surveying

OVERVIEW

This 12-story, 340,000-SF high-end office building occupies a portion of a former below-grade parking structure. Langan's services included site/civil engineering, boundary and topographic surveying, traffic engineering, landscape architecture, natural resources, and geotechnical engineering. A major project challenge was the design of a 400-space parking lot, which required substantial coordination with the existing FBI complex. The building is the first of its kind in Newark, obtaining LEED Gold certification for the core and shell, as well as LEED Platinum certification for the interior.

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MERCEDES-BENZ STADIUM

Location: Atlanta, GA
Client: Darden & Company
Architect: HOK (360 Architecture), Goode Van Slyke Architecture,
Stanley Beaman & Sears, tvsdesign
Partner: ICON Venue Group
Services: Geotechnical, Environmental

OVERVIEW

Langan was retained as the environmental and geotechnical engineer of record for Mercedes-Benz Stadium, home of the Atlanta Falcons. The 1.8-million-SF multi-purpose, 71,000-seat retractable roof stadium opened for the 2017 NFL Season. As the geotechnical and environmental consultant on the project, Langan continued its role throughout construction by providing asbestos abatement oversight, monitoring and testing of excavated soils to comply with the environmental soils management plan, underground storage tank closure management, storage tank closure assessments, vibration monitoring within the Marta Tunnel structure and geotechnical oversight of various foundation and ground improvement systems.

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HERCULES GAS PLANT

Location: Santa Barbara, CA
Client: Confidential
Services: Environmental

OVERVIEW

Langan developed and gained regulator agreement on a final remedy for a Former Major Oil Corporation Gas Plant site located in Southern California. The agreed upon path to closure utilized a background analysis and risk assessment to identify attainable remedial cleanup standards for constituents of potential concern. By taking a face-to-face approach with regulators (DTSC, Region 9 EPA, Central Coast RWQCB, County of Santa Barbara) and presenting a strong argument for a risk-based strategy to closure, Langan was able to achieve an agreed upon 1 to 2 year path to closure that was 27 years (case opened in 1988) in the making with two previous consultants.

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Credit: Agnieszka Jakubowicz

ZUCKERBERG SAN FRANCISCO HOSPITAL & TRAUMA CENTER

Location: San Francisco, California
Client: City and County of San Francisco, BCM-SAR Divisions
Architect: Fong and Chan
Services: Geotechnical, Earthquake/Seismic

OVERVIEW

The Zuckerberg San Francisco General Hospital and Trauma Center is the only Level One trauma center serving 1.5 million people in the region. It is also the only hospital in San Francisco built with a base-isolated foundation, the latest technology for protecting buildings during seismic activity. The 10-story public hospital (8 stories above and 2 stories below ground) was constructed in an open space area next to the administrative, outpatient, and acute-care hospital buildings. Both hospitals are now connected via a pedestrian bridge and underground utility tunnel. Langan provided geotechnical and earthquake/seismic consulting services for the project.

AWARDS

2016 Engineering News Record California Best Projects, Healthcare Best Project

Technical Excellence Practical Experience Client Responsiveness



GAS COMPRESSOR STATIONS

Location: Multiple Locations
Client: Confidential
Services: Site/Civil, Geotechnical, Natural Resources & Permitting,
Environmental Compliance

OVERVIEW

Langan provides integrated services to multiple clients for compressor station sites. As a part of assessing site feasibility, the Langan team provides site layout and grading analyses along with stream and wetland delineations. After site selection, final construction documents are prepared by Langan including site layout, grading and drainage design, erosion and sediment control, and stormwater management design. Additionally, our geotechnical team evaluates subsurface conditions and our transportation team permits driveways and access roads. Langan also obtains air quality permits and other environmental compliance permits.

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FULFILLMENT CENTER - WINDSOR

Location: Windsor, CT
Client: KTR Capital
Services: Site/Civil, Geotechnical, Traffic & Transportation, Landscape
Architecture, Traditional Surveying

OVERVIEW

Langan provided multiple services to KTR Capital for the development of a 1.3-million-SF distribution warehouse in Windsor, Connecticut. Langan worked closely with the town to develop an entitlement schedule to meet the project's aggressive requirements, which included public outreach to neighbors, a public hearing for work within the upland review area, a text amendment for parking, public hearing for subdivision, and site plan approval. The project also required a Major Traffic Generator Certificate from the Office of State Traffic Administration. Additionally, Langan provided traffic engineering, utility design, stormwater management design, landscape and lighting design, and due diligence services.

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MD ANDERSON CANCER CENTER AT COOPER UNIVERSITY HOSPITAL

Location: Camden, NJ
Client: Cooper University Hospital
Services: Site/Civil, Geotechnical, Landscape Architecture,
Environmental, Natural Resources & Permitting, Traditional
Surveying

OVERVIEW

Langan is supporting the multi-story, 103,000-SF world-class cancer institute. The design includes a public plaza and garden, and a renovated landscape. The project has undergone extensive conceptual planning, programming, and site planning studies to locate the facility on an extremely tight urban site. Stormwater runoff from the proposed site was minimized by reducing the amount of on-site surface parking in favor of a heavily landscaped plaza space.

AWARDS

2013 US Green Building Council New Jersey, Emerald Award - Urban Green Project
2013 American Council of Engineering Companies, Diamond Award

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ORACLE

Location: Redwood City, California
Client: Oracle
Architect: Gensler, KSH Architects
Partner: Nishkian Menninger, Webcor
Services: Geotechnical

OVERVIEW

Langan performed a geotechnical investigation for the Oracle Headquarters and the adjacent Island Parkway Campus. Langan developed foundation design criteria for several office buildings, a recreation center, conference center, pedestrian bridge, and four parking structures.

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INTERACTIVECORP (IAC) HEADQUARTERS BUILDING

Location: New York, NY
Client: The Georgetown Company
Architect: Frank Gehry Architect, Adamson Associates
Partner: DeSimone Consulting Engineers
Services: Geotechnical, Site/Civil, Environmental

OVERVIEW

Langan's integrated services helped overcome numerous technical challenges that ultimately transformed a former manufactured gas plant site into an iconic structure on the Hudson River.

AWARDS

2008 American Council of Engineering Companies New York, Engineering Excellence Award, Platinum

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NJ MEADOWLANDS COMMISSION 1-A LANDFILL SOLAR ARRAY

Location: Kearny, NJ
Client: SunDurance Energy (Subsequently purchased by PSE&G for Solar 4 All Program)
Services: Site/Civil, Geotechnical, Environmental, Natural Resources & Permitting

OVERVIEW

The solar array will be constructed on the top of the landfill and down the southern slope of the New Jersey Meadowlands Commission (NJMC) 1-A Landfill, with an intertie connection to the regional electrical distribution located off the site. The solar array is expected to provide over 3 MWdc of electric solar power annually. Langan has been retained by SunDurance to assist in a variety of design, permitting, and construction needs.

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Credit: Alan Karchmer

US EMBASSY COMPOUND MOROCCO

Location: Rabat, Morocco
Client: U.S. Department of State, Office of Overseas Building Operations, SmithGroup, Inc.
Services: Site/Civil, Geotechnical, Environmental

OVERVIEW

The new embassy compound includes main and service compound access control structures, a new office building with basement, marine security guard quarters, perimeter walls, and a parking garage. Important design parameters included incorporating specific Department of State and local agency requirements. Langan provided the necessary site/civil, environmental, and geotechnical engineering services to prepare design plans and written reports for approval by the Department of State's OBO department and local review agencies.

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UNIVERSITY OF HOUSTON CLEAR LAKE - RECREATION & WELLNESS CENTER

Location: Clear Lake City, TX
Client: University of Houston Clear Lake
Architect: SmithGroup
Services: Site/Civil

OVERVIEW

The University of Houston Recreation and Wellness center is one of three new buildings in the new development area on the North side of the campus. We provided site/civil design services for the 80K GSF building. These services included grading, coordination with existing structures, future buildings, water, sewer and storm water connections, drainage and detention design as well as coordination with existing site utilities and architectural, MEP and landscape plans. Langan participated in the utility master plan design and coordination between all of the new buildings on the North side of campus.

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