

LANGAN 2021 SUSTAINABLE PROJECT OF THE YEAR FINALISTS

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Technical Excellence Practical Experience Client Responsiveness



FRESHKILLS PARK - SOUTH PARK

Location: Staten Island, NY
Client: Starr Whitehouse Landscape Architects and Planners
Partner: New York City Department of Parks & Recreation
Services: Site/Civil, Environmental, Geotechnical, Land Use Planning,
Natural Resources & Permitting

OVERVIEW

Once home to the 2,200-acre Fresh Kills Landfill, the world's largest landfill, this site is currently undergoing a transformation to become Freshkills Park, New York City's largest new park in over a century. Once complete, it will be three times the size of Central Park. The South Park is the latest addition to the project's phased construction. For this phase, Langan helped develop the landfill gas mitigation system and an innovative stormwater management system. With a focus on sustainability and resiliency, we successfully designed the site layout, utility locations, and stormwater management systems to minimize disruption to wetlands and forested areas, and reused areas of degraded ecologies for stormwater capture. We also prepared an innovative pollution prevention plan, establishing the sampling required to monitor construction and post-construction runoff at new discharge points.

AWARD

2021 Langan Sustainable Project of the Year

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PARK 505 AT HARDY

Location: Houston, TX
Client: IDV
Services: Site/Civil

OVERVIEW

Park 505 at Hardy is a 534,000 SF warehouse building located on a 40.7-acre site in Harris County. For this area, the county typically requires a 1D flood study; however, due to unforeseen circumstances during the review process, the project required a more in-depth 2D study. In response, Langan completed a 2D unsteady flow flood analysis. By completing the study, Langan coordinated a reduction in earthwork for the removal of 16,000 cubic yards of soil destined for the landfill, saving the client time and money. The study also produced sustainable outcomes: the reduction in earthwork removed the need to haul soil off-site, saving approximately 1,000 truck trips worth of carbon emissions, and the stormwater management measures reduced base flood elevations for the surrounding area.

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THE GLASSHOUSE

Location: Pittsburgh, PA
Client: Trammell Crow Company
Architect: Hord Coplan Macht
Partner: Rycon Construction
Services: Site/Civil, Geotechnical, Environmental

OVERVIEW

The Glasshouse is a five-story, residential mixed-use building with over 300 apartment units, ground floor restaurant and retail space, and indoor parking. The project is extremely environmentally sensitive because of the location within the floodplain, site contaminants, and the ACT II process. Langan's environmental team facilitated the ACT II process that helped to procure funding; addressed site contaminants and underground storage tanks; and developed a soil characterization and management plan to optimize re-use and disposal. Our site/civil engineers coordinated with the DEP, Allegheny County Conservation District, and City of Pittsburgh to develop a stormwater management plan that met City and DEP requirements while working with the site constraints.

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