



Rendering Credit: Bjarke Ingels Group (BIG)

Wildflower Studios

Coastal Risk Consulting/RiskFootprint™ provided flood and climate change impact modeling, vulnerability assessments and value-at-risk estimations to Indigo River, which in turn provided waterfront and resiliency consulting services to Wildflower for its 5.25 acre site in Queens, New York. The Project consists of a 760,000 square foot Film, TV, AR/VR and Gaming content creation facility located on Luyster Creek. The Development Site is located in an area that is subject to various types of flooding such as fluvial, pluvial, hurricane storm surges and tidal flooding and sea level rise. The Project is also located in a FEMA 100-year flood zone with a regulatory Base Flood Elevation.

By conducting a flood vulnerability assessment to identify areas of the proposed building that may be susceptible to flood damage Coastal Risk/RiskFootprint™ and Indigo River evaluated the vulnerability of both the existing site, as well as the proposed assets at the building level, and offered a risk assessment and economic loss estimations to improve returns and resiliency. Specifically, Coastal Risk/RiskFootprint™ identified existing site vulnerabilities and examined the potential damage and loss to proposed building structures, contents, and business interruptions from flooding. Indigo River then evaluated the project based upon the NYC Resiliency Guidelines. Based on these findings, Indigo River developed a series of risk mitigation and adaptation recommendations for the property and the newly proposed structures to protect against Flooding Risks, and Climate Change Impacts.

Indigo River assisted the Project Team's Architects and Engineers to incorporate the high-level recommendations into actual designs, thereby making existing and new structures safer and more resilient. Design-level recommendations, both structural and operational included Hazard and Risk Mitigation Recommendations -- namely, climate change adaptation recommendations, as related to sea level rise, and to ensure that the building's resilient design accounts for emergency response and business continuity plans. Workshopping sessions were held with the design team from schematic design and design development through to construction documentation to envision the various flood protection options presented, navigate alternatives, and ultimately select and implement viable floodproofing recommendations for the Wildflower Project to comply with applicable codes and project goals.

LOCATION

Queens, NY

CLIENT

Indigo River/Wildflower Ltd.

ROLE

Flood modeling, Vulnerability assessment, Cost/Benefit Analysis

SERVICES

Resilience Consulting

CONTRACT VALUE

\$15,000

CONTRACT TERM

2020

CONTRACT STATUS

Complete

REFERENCE

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