ENVIRONMENTAL CONSULTING CASE STUDY

Merging Historical Preservation with Modern Communities

CHALLENGE

The Dublin Central project aimed to revitalise a 5.5-acre area in the north inner city while preserving its historical significance.

SOLUTION

AWN carried out the noise and vibration, air quality and climate change, human health and waste management impact assessments, along with a technical hydrology report supporting the submission.

RESULT

AWN's support helps all buildings at Dublin Central achieve BREEAM rating and no fossil fuels will be consumed directly on site, supporting Dublin City Council's clean-air policy.

APPLYING DATA GATHERING TO IMPROVE ACOUSTIC AND AIR QUALITY CONDITIONS

Hammerson's Dublin Central project is a large-scale regeneration planning submission over 5 phases for a 5.5-acre site in Dublin's north inner city. AWN Consulting, a Trinity Consultants team, provided their expertise in environmental and acoustic consultancy at the planning stage of the project. The masterplan development includes a mix of residential, commercial and cultural spaces and aims to revitalise the area while preserving its historical significance.

Working on the Environmental Impact Assessment Report (EIAR), AWN carried out the noise and vibration, air quality and climate change, human health and waste management impact assessments, along with a technical hydrology report supporting the submission. These inputs were crucial for understanding and mitigating potential impacts on the environment, surrounding communities and future occupants within the development itself.

The project timelines were complicated as a result of the COVID-19 pandemic, but AWN helped keep the project programme on track by gathering baseline data from site and calibrating it against published data and historical data gathered in the area. This allowed AWN to select suitable criteria thresholds to conduct the different disciplines impact construction and operational assessments.

From an acoustics perspective the Dublin Central project also required the integration of a Metrolink station on O'Connell Street and an assessment of the construction vibration impacts on the historically significant and protected structures along O'Connell Street, Henry Place, Moore Street and Moore Lane. In addition to mitigating the impact of construction noise and vibration, AWN also outlined the suitable sound insultation for the residential and commercial spaces within the development to create a comfortable internal noise level in a busy city.

The project is expected to generate significant economic benefits throughout the greater Dublin area. All buildings at Dublin Central will achieve the BREEAM rating and no fossil fuels will be consumed directly on site, supporting a clean-air policy championed by Dublin City Council.

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