



## CASE STUDY

# AIR QUALITY STRATEGY & COMPLIANCE DELIVERY FOR DUAL MIXED-USE SCHEMES IN SOUTHWARK

CLIENT: CONFIDENTIAL

LOCATION: LONDON

### Highlights:

- Rapid Compliance Delivery
- Integrated Air Modelling
- BREEAM-Aligned Support



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**Arthian**

## CONTEXT

Arthian was appointed to deliver a comprehensive Air Quality Assessment for two separate mixed-use developments in the London Borough of Southwark. Both sites sit within areas of elevated background pollution and were progressing under accelerated planning programmes, requiring a coordinated, policy-aligned technical response.



# THE CHALLENGE

The client faced a combination of **programme pressure, policy complexity, and environmental constraints**:

- **Tight planning deadlines** meant assessments needed to be completed quickly without compromising robustness.
- **Poor baseline air quality** across both locations increased the risk of non-compliance, design revisions, or additional modelling cycles.
- The developments were subject to **heightened scrutiny under the London Plan**, particularly **Policy SI 1**, requiring Air Quality Neutral outcomes and clear evidence of mitigation.
- The client also needed early clarity on how air quality considerations would interact with **wider sustainability targets**, including BREEAM UK New Construction (Residential).

Together, these factors created a high-pressure environment where delays or misalignment with policy could have jeopardised the planning trajectory.



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# THE SOLUTION

Arthian delivered a streamlined, multidisciplinary solution that met the client's deadlines while strengthening the overall planning position.

- Integrated modelling workflows combined multiple assessment stages, reducing duplication and accelerating delivery.
- Close collaboration with the design team ensured full-site modelling coverage, demonstrating compliance across all proposed uses.
- Leveraging our deep understanding of the London Plan, we ensured both schemes met Air Quality Neutral requirements and aligned with the expectations of Policy SI 1.
- A detailed Construction Dust Risk Assessment identified targeted mitigation measures to minimise construction-phase impacts.

Because the developments were targeting BREEAM UK New Construction (Residential), Arthian proactively expanded the scope of support to strengthen the client's sustainability strategy:

- Guidance on achieving Indoor Air Quality credits
- Early-stage input on Life Cycle Assessment
- Technical support for Flood Risk Assessment requirements

This integrated approach reduced future design risk, improved documentation readiness, and ensured the client benefitted from a cohesive, forward-looking environmental strategy.



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