

Infrastructure Case Study

Background

The Crossrail project will run 118 km from Maidenhead and Heathrow in the west, through new twin-bore 21 km tunnels under central London to Shenfield and Abbey Wood in the east. It will bring an additional 1.5 million people within 45 minutes commuting distance of London's key business districts. When Crossrail opens it will increase London's rail-based transport network capacity by 10%, supporting regeneration across the capital, helping to secure London's position as a world leading financial centre, and cutting journey times across the city.

Opportunity

Teams of dedicated construction workers will be working 24 hours a day to complete the tunnels for Europe's largest civil engineering project with thousands of others employed to upgrade the existing rail network and build major new stations along the central section of the route. The tunnels will weave their way between existing underground lines, sewers, utility tunnels and building foundations from station to station at depths of up to 36m. With all of this construction occurring local authorities have put in place strict planning conditions around noise and vibration.

Solution

Working with the main contractor on our section of the contract we are providing weekly noise and vibration monitoring at a number of sites that form part of the contract. To date we have dealt with 20 plus Section 61 applications and numerous variations, dispensations and derogations. Our s61 work has meant that there has been no interruption to the 24/7 operation at the various sites due to noise/vibration issues. On this project the contractor is monitoring the air quality themselves but we are involved with other projects where we are covering noise, vibration and dust issues.

