



Case Study

Day Aggregates

Monitoring potential generation of dust particles from on-site processing activities.



Overview

A leading aggregates company has installed two Zephyr Air Quality Monitors at their aggregate recycling site located in the Greenwich Aggregates Zone, central London. Monitoring of the fence line is essential due to the potential generation of dust particles (PM10/2.5) from on-site processing activities.

Additionally, the site's location along the Angerstein Wharf of the River Thames results in varying wind conditions that can disperse these particles across the site. The Environmental Agency has mandated regular air quality monitoring and reporting due to the site's location within the Greenwich Air Quality Management Area.

The Challenge

Day Aggregates is situated in the Aggregates Zone, which also houses Day Group, Cemex, and Tarmac. Their site is located by the River Thames and is surrounded by local roadways, new residential developments, and commercial premises.

The Solution

EarthSense was commissioned to provide Zephyr® monitors, which were installed on the north and west sides of the site.

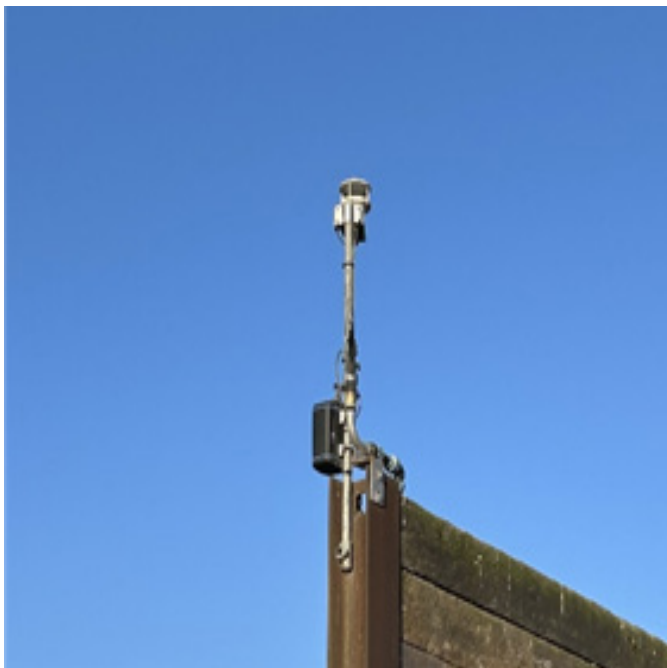
These monitors feature an active sampling mechanism that draws local air into its inlet and releases it back into the atmosphere after measuring air quality.

The Zephyr® monitors provided real-time measurements for PM10 and PM2.5, offering insights into their impact on air quality levels at the site.



The data collected by the Zephyr® monitors was automatically transmitted to EarthSense's MyAir® web application, allowing Day Aggregates to access, analyze, and download the air quality data.

MyAir® was utilised to ensure that air quality remained within acceptable limits, thereby reducing the risk of public exposure to harmful particles. Additionally, Day Aggregates was able to use the Zephyr data to inform dust reduction and suppression techniques on-site to control the emission of potential particles.



The Future

Day Aggregates plans to implement air quality monitoring across all their sites, including Avonmouth, Greenwich, Battersea, and Brentford. This will allow them to access the data remotely and provide reports to evidence the effectiveness of their environmental management and to satisfy the requirements of the Environment Agency.

Get in Touch

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Outcomes

The insights on PM10 and PM2.5 were used by Day Aggregates to generate monthly reports for the Environment Agency.



Long Term Benefits

The monitoring allowed Day Aggregates to demonstrate that the measures taken to control and minimise dust from their operations are effective in maintaining particulate levels within acceptable limits and that in the first six month monitoring period there were no exceedances of the National Air Quality Objectives at the site.