

# Powering Environmental Monitoring

## Ensuring Responsible and Sustainable Construction Projects



**TRACER**<sup>®</sup>  
HIGH PERFORMANCE BATTERIES



Vibration Monitoring Services (VMS), based in Sittingbourne, Kent, specialises in environmental monitoring for the construction and infrastructure sectors, with expertise in vibration, noise, and dust monitoring. With over 18 years of experience, their expert team provides reliable data to help

clients minimise environmental impact and comply with regulatory standards. Known for their professionalism and reliability, VMS offers peace of mind to clients by leveraging the latest innovations in monitoring technologies.

## The Challenge: Powering Equipment On Pre-Powered Construction Sites

Monitoring the environmental impact of demolition, construction, or piling work is crucial for ensuring responsible practices and minimising disruption to the surrounding area. Noise, dust, and vibrations can negatively affect nearby communities and infrastructure, making real-time monitoring critical for managing risks and maintaining compliance with regulations.

A significant challenge in these projects is the lack of power during early construction phases. With many sites in the pre-powered stage, a reliable, standalone power source is essential for continuous monitoring before, during, and after the project. This ensures consistent data collection throughout the process. Vibration Monitoring Services specialises in long-term environmental monitoring, managing projects that last from a month to several years.



## The Solution: Tracer Carry Case Kits

VMS was first introduced to Tracer Power when one of their noise monitoring systems arrived equipped with a Tracer battery. They quickly recognised the advantages of the lightweight lithium technology and the portability of the carry case form factor. Fifteen years later, the original battery remains in use—a testament to Tracer Power's durability.

As their projects grew in number and scope, VMS realised that a fleet of interchangeable Tracer Carry Case Kits was key to maintaining uninterrupted, reliable monitoring across various sites. These kits became integral to ensuring seamless data collection and expanding their services.

## Powering Noise Monitoring Equipment

Noise monitoring is essential for construction projects to comply with environmental regulations such as BS 5228 and the National Planning Policy Framework (NPPF). VMS uses Tracer Power's 80Ah Carry Case Kits to power their noise monitoring systems for up to 22 days, enabling 24/7 data collection without interruption.



**We've relied on Tracer batteries since 2009, and some of our original units are still in active rotation.**



**- Melissa Collins**

**Project Manager - Vibration Monitoring Services Ltd**

The lightweight, swappable lithium-ion batteries allow for seamless operation on pre-powered or remote sites. Depending on the project duration, VMS either replaces the batteries themselves or provides site managers with spare kits and instructions, ensuring easy and reliable management. Housed in IP67 weather-resistant cases, these batteries ensure compliance with noise regulations while helping construction companies minimise disruption and maintain a positive reputation.

## Powering Dust Monitoring Equipment

Dust monitoring is equally important for ensuring compliance with environmental regulations. It involves measuring particulate matter (PM1, PM2.5, and PM10) to assess air quality and its impact on nearby communities. Tracer Power's 170Ah Carry Case Kits are ideal for powering dust monitors, which require additional energy due to built-in heaters that analyse dust particles.

Depending on weather conditions, these batteries provide up to 15 days of continuous power, ensuring uninterrupted monitoring even in remote or pre-powered locations.

