

Selecting a contractor (bioaerosol monitoring)

SELECTING A COMPETENT CONTRACTOR

Contractors should be selected on their knowledge and understanding of bioaerosols in the waste industry. It is worthwhile researching companies who have provided a similar service and can advise on practical controls as outlined in section 4 of [WISH INFO 23](#) (page 4, points a-h).

Contractor selection – key considerations

Contractors should have an environmental science/occupational health - based background and must be familiar with undertaking both personal and environmental monitoring samples for bioaerosol. They must understand requirements of both M9 (Environmental Monitoring of bioaerosols at regulated facilities) & MDHS 14/4 (General methods for sampling and gravimetric analysis of respirable, thoracic, and inhalable aerosols).

Competence

- ▶ Companies that have supported or worked with the waste sector would be beneficial to understanding the complexities of Bio-Aerosol monitoring inclusive of the differences between Environmental – Figure 2 & Personal Sampling – Figure 1.



Figure 1.



Figure 2.

Insurances

- ▶ Professional Indemnity Insurance
- ▶ Employers Liability Insurance
- ▶ Public Liability Insurance

Sampling and monitoring

- ▶ BS EN 13098 Workplace exposure. Measurement of airborne microorganisms and microbial compounds. General requirements.
- ▶ BS EN 14583 Workplace exposure. Volumetric bioaerosol sampling devices. General requirements for use and evaluation of performance
- ▶ MDHS 14/4 Gravimetric Sampling
- ▶ Endotoxins-British Standard, BS EN 14031: 2021 Workplace exposure — Quantitative measurement of airborne endotoxins (2021).
- ▶ Enumeration and reporting of viable microorganisms undertaken in accordance with BS EN ISO 8199:2007 and BS ISO 16000-17:2008.

Report requirements

Reports should generally consider:

- ▶ Non-Technical Summary of results obtained
- ▶ Introduction; (consisting of)
 - Site Information
 - Employees and Working Hours
 - Existing Controls
 - Employer & Employee Legal Responsibilities
 - Health Effects
- ▶ Monitoring Protocol
 - Sampling Procedure
- ▶ Results
- ▶ Discussions and Conclusions
- ▶ Recommendations
- ▶ Appendices of exposure limits and sampling data, including work diaries/daily activities