



# YOUR TRUSTED SCIENTIFIC PARTNER

● AIR ● WATER ● SOIL ● FOOD

**FITZSCI.IE**



**FITZ**  
SCIENTIFIC

MONITORING & TESTING

THE **BEST** AT  
WHAT WE DO



As one of Ireland's leading independent laboratories, Fitz Scientific provide a trusted environmental and food monitoring and testing service. We are renowned for our world class expertise, unrivalled customer service and value for money.



Founded in 2000 by Geoff and Kate Fitzpatrick, our business - with its core team of loyal personnel - has established itself as a key partner for clients, helping them comply with their regulatory obligations through our rigorous environmental, food, and health & safety monitoring and testing offerings.



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## A People Driven Company

We have an outstanding team of scientists and technicians who are the best at what they do in their field.

While our services are grounded in science we believe that people are at the heart of everything we do. We are deeply cognisant of the importance of our work when it comes to the well-being of the local community and understand the challenges that organisations face.

We provide monitoring and testing services to government agencies, utility companies, health service providers, pharmaceuticals, food production and service companies.

We enable them to make critical operational decisions with timely and trusted data in a variety of formats.

## Approachable Partners

With quality communication an integral part of any partnership, our team of analysts are always available to discuss findings and provide direction to our clients.

Fitz Scientific works to bring added value to our clients through our approachability and excellent customer service. We present data in a format that is easy to understand, cutting through the noise to deliver key information through our

online portal. Our exceedance alert system gives clients peace of mind, knowing that we will be on hand to inform them of any critical findings.

We strive to reduce the burden on customers when it comes to monitoring and testing processes, thanks to our nationwide collection network, chain of custody formats, and provision of highly trained field sampling personnel.

## Trusted Partners

By developing successful long-term partnerships with our customers, we have continually improved our testing capabilities, with our most recent investments in automation allowing us to increase our capacity and develop new best in class methods, providing lower quantification limits and on time data.



# AIR

## STACK EMISSIONS MONITORING

We hold a very comprehensive range of accredited stack air monitoring methods, meeting ISO 17025 requirements and also the internationally recognised MCERTS (Monitoring Certification Scheme) requirements of the Environment Agency in the UK.

Our Level 2 qualified technicians will assist you in the development of a site specific protocol, which will meet all of your regulatory requirements, ensuring your monitoring is carried out to the highest possible standards.

## DUST MONITORING

For those managing a building site, landfill site or in an industry activity that has the potential to generate dust, our team can assist organisations in the development and implementations of a long-term dust management/monitoring plan.

Using the industry standard 30-day Bergerhoff dust measurement process, we provide dust monitoring equipment, sampling equipment, monitoring and testing services.

We can provide a range of dust monitoring services from general dust level to PM10 and PM 2.5 levels.

## AMBIENT AIR QUALITY

With air quality regarded by the WHO as the biggest environmental health risk, we can develop and implement a customised monitoring plan for every type of organisation.

Our range of ambient air quality services includes dust and odour monitoring, as well as the monitoring of a vast range of chemicals, such as nitrogen dioxide, nitrogen oxides, sulphur etc.

## LEED & WELL INDOOR AIR QUALITY

We provide Indoor Air Quality (IAQ) Monitoring to meet the requirements for LEED, WELL and BREEAM Building Assessments. Our team has an in-depth knowledge of each test parameter and can use a variety of sampling methods to complete each test.

Monitoring should take place before a building is occupied with the building ventilation system in operation.

## OUTDOOR NOISE MONITORING

Our Noise Monitoring Service meets the requirements of the EPA Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4) 2016.

We offer a wide range of noise survey services and produce reports suitable for submission to the EPA to demonstrate compliance or otherwise with licence conditions.



Fitz Scientific are market leaders in the provision of environmental air emissions monitoring sampling and analysis.

# Water

## DRINKING WATER ANALYSIS

We offer a full drinking water testing service for private wells, group water schemes and mains water supplies. All analysis is accredited to ISO17025 standards, giving you full confidence in the accuracy of your results.

For food businesses using water either directly in the production of food products or indirectly in cleaning or processing, we provide a complete testing service to help you comply with the associated regulations.

## TRADE EFFLUENT DISCHARGE

Should you require a Trade Effluent Discharge to Sewer Licence if you are discharging liquid waste to a council sewer, we offer a monitoring service to ensure your business is compliant with the conditions of this licence.

Our field technicians are experts in the taking of samples from trade effluent discharge points. A composite sampler hire service is available for self-install or our technicians can set this up on site. We can conduct 24 hour composite sampling or a flow and load survey customised to your own requirements.

## PROCESS WATER, SURFACE WATER AND GROUND WATER ANALYSIS

We provide a wide range of in-depth water sampling and monitoring services, carried out by our team of expert technicians. We possess a wealth of experience in sampling from boreholes, monitoring wells, lakes, rivers, transitional and coastal waters. Our results are trusted as part of water framework directive or EPA reporting requirements.

## PESTICIDE TESTING

Fitz Scientific offer a full range of accredited pesticide testing to ISO 17025 in drinking water, groundwater and surface water. In-house methods have been developed using the latest technical advances in liquid and gas chromatography.

Through our methods we can ensure a very high certainty on compound detection and very low limits of detection in the ranges of 1 to 30 ng/L ie parts per trillion detection levels.



Fitz Scientific provide a wide range of water monitoring and testing services. We have become the partner of choice to government agencies, local authorities, the pharmaceutical and healthcare industry.

# Soil

## LANDFILL WASTE ACCEPTANCE CRITERIA

Waste Acceptance Criteria testing is used to determine if material may be accepted at a disposal facility or landfill site. At our state-of-the-art facility in Drogheda Co. Louth we have the capacity to deal with high volumes of waste testing. By analysing the leachate – that is created from water passing through the waste material – we can test for harmful elements.

A certificate of analysis is produced detailing all of the results. The results are compared to established limits and the material is classed as inert, stable non-reactive or hazardous. In addition to WAC testing, a Hazardous Waste Classification service is available using the HazWasteOnline™ application.

## COMPOST ANALYSIS

We offer an extensive range of compost and waste analysis services, with over 10 years' experience in the analysis of composts, soils, sludge and other solid aggregates.

Our highly trained team offer an extensive range of metal analysis, nutrient analysis, micro and physical testing. We also provide AT4 and OUR (Oxygen uptake rate) analysis and Self Heating tests.

## AGRICULTURAL SOIL TESTING

We offer agricultural soil testing to meet the requirements of the Department of Agriculture in Ireland. To assist in the creation of your GLAS Nutrient Management Plan an independent soil analysis by an accredited laboratory is recommended.

Along with our soil testing service we also provide farmers with other services, such as water and sludge analysis, as well as forage, silage and tillage testing.



Fitz Scientific offer a range of soil monitoring and testing services. Both our laboratory analysts and field technicians on-site provide significant experience in soil testing and sampling respectively, hence we are one of the market leaders in the sector.

# Food

## SHELF LIFE TESTING

Our team at Fitz Scientific offer comprehensive shelf life testing for all stages of your product's lifespan. We can also provide a tailored consultation designed to answer your specific questions regarding product shelf life.

Analysis is usually carried out at the beginning, middle and end of the expected shelf life of the product. This enables confirmation of microbiological safety throughout the shelf life of the product. Our Certificate of Analysis provides you with test results and by using the FSAI Guidelines for the Interpretation of Results you can determine if the product is safe to eat at each stage of its shelf life.



## NUTRITION TESTING

We provide a range of nutritional testing including a full suite of vitamins and dietary supplements.

## MICROBIOLOGICAL TESTING

Routine microbiological testing is an essential part of the quality control system of any food business, from growing and packaging of raw materials to food production, manufacture and food retail outlets.

In our purpose built micro laboratory we test for a range of pathogens, hygiene indicator organisms and aerobic colony counts on food, environmental swabs and air plates.



Fitz Scientific provide microbiological testing for all stages of the food production chain. Our in house laboratory is accredited to ISO standard for a range of food tests.

# Occupational Health & Safety

## WORKPLACE NOISE MONITORING

Fitz Scientific has a dedicated, highly experienced team to undertake all manner of occupational noise surveys.

As a key component of the workplace safety statement, our noise survey includes assessment of broadband, 1/3 octave and tonal components in occupational noise sources, interpretation of results in accordance with the regulations and recommendations on the reduction of occupational noise levels.

## WORKPLACE AIR MONITORING

The law requires employers to carry out risk assessments on chemical agents in the workplace which may cause adverse health effects to their employees. To assist with this requirement, Fitz Scientific provides a complete workplace air monitoring service. We use current NIOSH & IOSH methods to sample for chemicals and dust in the work environment.

Following analysis of samples in our laboratory, a technical report is produced comparing the exposure against the relevant occupational exposure limits and recommendations for mitigating options.

## LEGIONELLA RISK ASSESSMENT

As a certified member of the Legionella Control Association we are well placed to assist you in controlling the legionella risk associated with your water systems.

Our services specifically include Legionella Risk Assessments of Hot & Cold Water Systems and Evaporative Cooling Towers in accordance with L8 Approved Code of Practice. We can also conduct routine sampling and analysis for legionella as part of your monitoring and control regime.

Our environmental scientists are regularly audited and assessed by the LCA for compliance with their Code of Conduct for Service Providers.



Fitz Scientific have a dedicated, highly experienced team to undertake all manner of occupational Health & Safety Testing.

### OTHER SERVICES INCLUDE:

- Boiler Combustion Efficiency
- Biological Q Rating
- Pipe Chlorination
- Bord Bia Water Test
- Landfill Monitoring
- Bund Integrity Testing
- Fuel Analysis
- Solvent Management Plan
- Vibration Monitoring
- IPPC Monitoring
- Swimming Pool Water



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