

# **Envirolab Services is NATA Accredited for PFAS in Biota**

#### **PFAS in Biota as Emerging Contaminants**

Perfluorinated and Polyfluorinated Alkylated Substances or "PFAS" are a group of synthetic compounds that have been produced commercially since the 1950s and have been identified in recent years as contaminants of concern due to their toxicity, persistent nature and mobility in the environment. The manufacture and use of some PFAS, including Perfluorooctane Sulphonate (PFOS) has been banned in many countries.

Bioaccumulation and biomagnification of PFAS compounds in both flora and fauna potentially occurs. Hence, Envirolab Services can now provide **NATA Accredited** testing for the broad biota class of testing.

Comprehensive validation was undertaken in a dozen unique biota matrices to cover fish and seafood; animal products (including meat and dairy products); fruit and vegetables. Various high end analytical techniques are utilised to minimise matrix effects associated with the analysis of biota.



#### **NATA Accredited for PFAS in Biota**



The National Association of Testing Authorities (NATA) is the authority that provides independent assurance of technical competence through a proven network of best practice industry experts for customers who require confidence in the delivery of their products and services.

As a leading laboratory, we are fully accredited and qualified to perform testing for PFAS in biota according to national standards

With **NATA Accreditation**, you have the confidence that you are partnering with a laboratory that will provide you with quality results. Contact us today to find out more.

### **Sampling Biota**

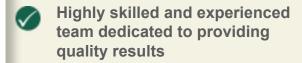
All samples should be accompanied by a corresponding Chain of Custody (COC).

However, given the complexity of certain biota, our team at Envirolab Services is keen to listen and assist you with all aspects of sampling and subsampling for PFAS analysis. For example, there might be circumstances where foliage analysis requires the inclusion of dust and / or soil particles. Perhaps the leaves themselves may only be relevant for your investigation?

Whatever the size of your project, wherever the location and whichever your requirements, we can provide you with extensive experience whilst meeting all relevant quality standards and subsampling protocols. That's why when it comes to providing support, we are the first choice for our clients.







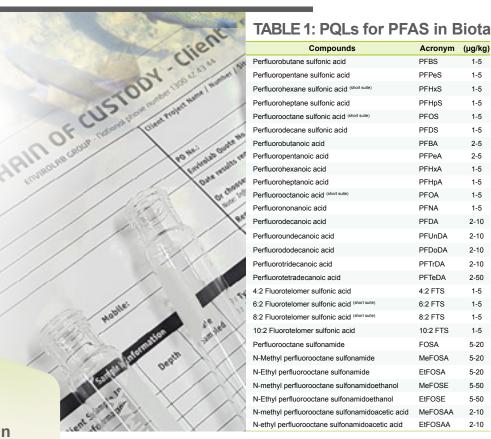
## Rapid turnaround times

Quality customer service is our prime objective. Our experience, together with state-of-the-art facilities ensure that you are provided with a fast turnaround of results.

Most important of all, you have a dedicated team. For further information, <u>Simon Mills</u>, <u>Phalak Inthakesone</u> and <u>Ashley Miller</u> are ready to answer questions and assist with your testing requirements.



#### Testing for PFAS in Biota at Envirolab Services



## Reporting and Interpretation of Results

The current available list of PFAS available at Envirolab Services are detailed above in **Table 1**.

The practical quantification limit (PQL) for more complex matrices (e.g. eggs / liver) require complex preparation steps, compared to the less complex matrices (fruit and vegetables / milk), which therefore, affect reporting limits. Ask us if there is a particular reporting limit(s) required for your project?

For further information, the links below provide proposed trigger points for PFAS and some guidance on sampling protocols.

#### References and Further Reading

Food Standards Australia New Zealand has proposed trigger points for investigation of PFOS, and PFHxS in various food commodities along with some higher values for PFOA: http://www.health.gov.au/internet/main/publishing.nsf/content/2200FE086D480353CA2580C900817CDC/\$File/Consoldiated-report-perflourianted-chemicals-food.pdf

 $FSANZ\ report\ on\ Edith\ River,\ Northern\ Territory\ 2013:\ https://dpir.nt.gov.au/\_data/assets/pdf\_\ file/0006/260187/TraceElementsNTFish.pdf$ 

Interim Guideline on the Assessment and Management of Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) Contaminated Sites Guidelines, Government of Western Australia Department of Environmental Regulation (Version: 2.1): https://www.der.wa.gov.au/images/documents/your-environment/contaminated-sites/guidelines/Guideline\_on\_Assessment\_and\_Management\_of\_PFAS\_v2.1.pdf

#### Contact your closest Envirolab laboratory today



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