

AST accredited for trace-level Pesticide and PAH analysis

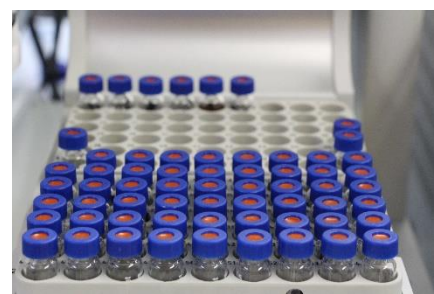
Analytical Services Tasmania has recently gained NATA accreditation for low-level analysis of PAHs and Pesticides in water and soil.

The new low-level PAH method can detect Benzo(a)pyrene to half the Australian Drinking Water Guideline value of 0.01µg/L, and most other PAHs to 0.01-0.02µg/L.

A total of 58 pesticides are targeted with the pesticide method, including organochlorine- and organophosphorous- pesticides, triazine herbicides, insecticides, and fungicides. The low-level pesticide methods tie in well with our recent purchase of a new LC-MS/MS instrument, which is also capable of detecting trace levels of pesticides (0.01-0.05µg/L). If we currently do not offer your target pesticide, please let us know as we are continually increasing the scope of our methods.

We will continue to offer the regular-level methods for those clients who wish to have continuity or don't require the low-level testing.

Method Reporting Limits	Water µg/L	Soil mg/kg
PAH	0.005 – 0.02	0.005-0.02
eg. Benzo(a)pyrene	0.005	0.005
Pesticides by GC-MS/MS	0.01-0.04	0.01-0.04
eg. DDT	0.01	0.01
Pesticides by LC-MS/MS	0.01-0.3	0.005-0.05
eg. MCPA	0.02	0.005



Water

1L amber glass bottle



Soil & Solids

250mL glass jar



If you would like to enquire about these services, please contact:

Tim Jordan
Section Head – Organic Chemistry
Ph. 03 6165 3314
tim.jordan@ast.tas.gov.au

Current list of pesticides analysed at AST

GC-MS/MS		LC-MS/MS
Aldrin	Endrin ketone	2,4,5-T
Alphacypermethrin	Ethion	2,4-D
Atrazine	Famphur	Atrazine
Azinphos-methyl	Fenitrothion	Boscalid
BHC-alpha	Fenthion	Chlorpyrifos
BHC-beta	Fluazifop-p-butyl	Clopyralid
BHC-delta	Haloxyfop-methyl	Deisopropylatrazine
BHC-gamma (Lindane)	Heptachlor	Desethylatrazine
Boscalid	Heptachlor epoxide	Dicamba
Bromophos-ethyl	Hexachlorobenzene	Haloxyfop-methyl
Carbaryl	Hexazinone	Hexazinone
cis-Chlordane	Malathion	MCPA
trans-Chlordane	Metalaxyl	Metalaxyl
Chlorothalonil	Methoxychlor	Metsulfuron-methyl
Chlorpyrifos	Metribuzin	Pendimethalin
Coumaphos	Oxyfluorfen	Picloram
Cyanazine	Parathion-ethyl	Prometryn
DDD-p,p-	Parathion-methyl	Simazine
DDE-p,p-	Pendimethalin	Sulfometuron-methyl
DDT-p,p-	Permethrin I+II	Terbacil
Diazinon	Phorate	Triclopyr
Dieldren	Pirimicarb	
Dimethoate	Propachlor	
Disulfoton	Propazine	Glyphosate
Endosulfan_I	Simazine	Glufosinate
Endosulfan_II	Sulfotep	AMPA
Endosulphan sulphate	Terbacil	
Endrin	Thionazin	
Endrin aldehyde	Trifluralin	

If your analyte of interest is not listed, please contact us as we are always looking to increase the scope of our methods.