

TPH & TRH

(TOTAL PETROLEUM AND TOTAL RECOVERABLE HYDROCARBONS)



The Australian Water Quality Centre (AWQC) is dedicated to ensuring and responding to the public health requirements relating to the provision of water and wastewater services for communities in Australia and across the world.

AWQC has developed in-house capabilities for the analysis of Total Petroleum and Total Recoverable Hydrocarbons (TPH and TRH).

Analysis of TPH and TRH by AWQC now means;

- performed at AWQC's high quality standard,
- the analyses are competitively priced,
- decreased Turn Around Times (TAT) especially for emergency samples,
- reduced Limits of Reporting (LOR).

TRH (Total Recoverable Hydrocarbons) analysis can be used as a nonspecific quantitative screening tool to determine the quantity of organic compounds in a water sample, including petroleum hydrocarbons. The method is limited to those organic compounds that can be extracted by solvent (dichloromethane) and detected by GC-FID (gas chromatography-flame ionisation detector).

— Specialist water services

Ensuring public health

TPH and TRH results represent a mixture of compounds without identification of the individual compounds. Any organic compounds detected are quantified against straight chain aliphatic hydrocarbon standards in one of four carbon number ranges (C6-C9, C10-C14, C15-C28 and C29-C36).

If identification of the organic compounds extracted is required then a GC-MS (gas chromatography-mass spectrometry) scan method is recommended.

The method is fully validated and has been accredited by NATA.

Limits of Reporting	
Compound	LOR (mg/L)
TRH C6-C9	10
TRH C10-C14	10
TRH C15-C28	10
TRH C29-C36	80
TPH C6-C9	10
TPH C10-C14	10
TPH C15-C28	10
TPH C29-C36	80



Sample Requirements:

- Glass bottle
- Minimum volume 500 mL
- No air gap essential
- Transport & store at 4°C

Available for environmental, surface, treated and sea water.

Call us on 1300 653 366
awqc.com.au

