

**RapStech**<sup>®</sup>

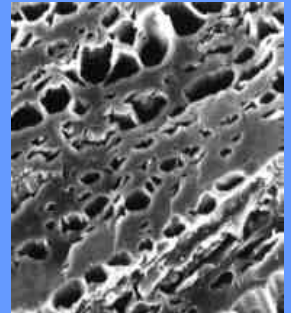
Granular Activated Carbon (GAC) Profiling

**Making the Most of Your  
Critical Assets**



## The Service

**WatStech has developed the capability to evaluate quality and performance of Granular Activated Carbon (GAC) used in water treatment.**



## The Solution

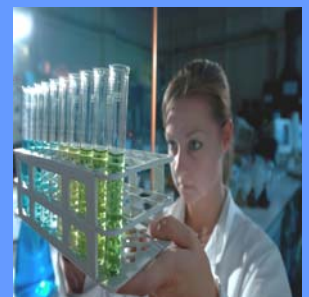
**RapStech<sup>®</sup> is a holistic approach to GAC evaluation.**

**This is a specially tailored analytical suite that can provide a critical evaluation of your GAC properties and performance.**



## The Support

**We provide independent, focused, and confidential support. Evaluations can be tailored to client's needs. WatStech offers 30 years combined water and wastewater experience.**



# Evaluating GAC Process Performance

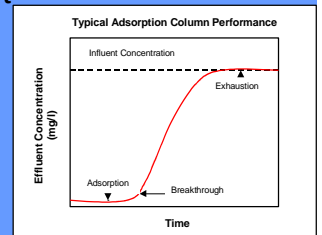
## RAPID SMALL SCALE COLUMN TESTING

Procedure specifically adapted for water treatment

Recognised methodology

Rapid turnaround of results

Performance optimisation



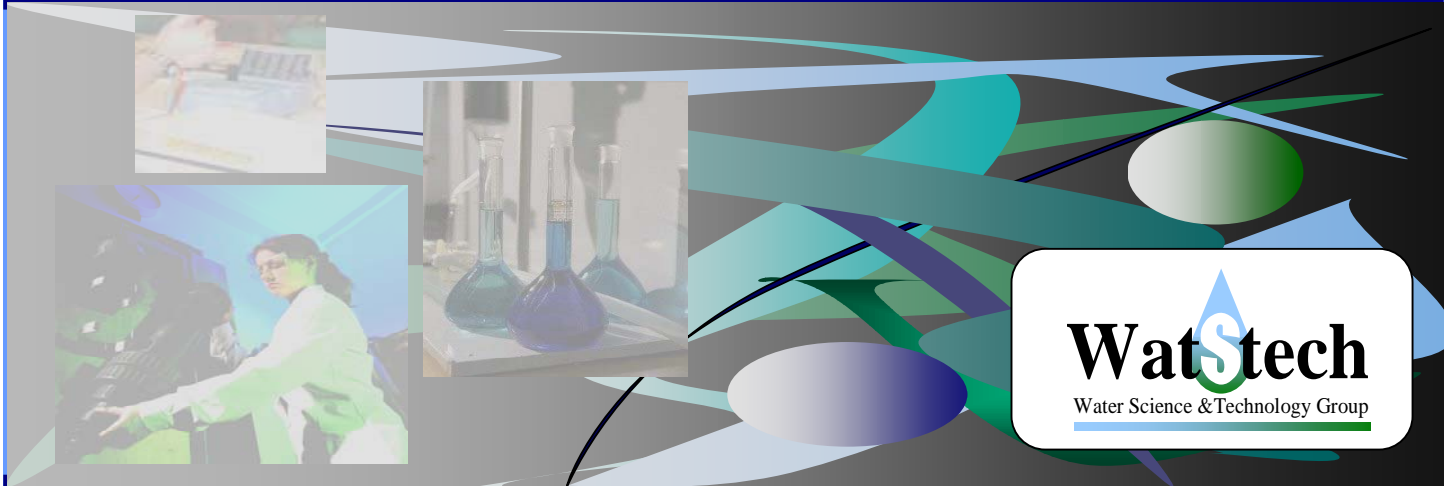
## FULL-SCALE PROCESS MONITORING

Core sampling and process performance monitoring

Backwash efficiency testing and optimisation

Acid washing to remove inorganic contamination

24 hour sampling service



**WatStech**  
Water Science & Technology Group

# Evaluating GAC Properties

## ADSORPTION CAPACITY

Iodine No.

Methylene Blue No.

Adsorption Isotherms

## SURFACE CHEMISTRY

Surface Functional Groups

FTIR or Titration Method

Potentiometric Titrations



**AND MORE....**

## METAL CONTAMINATION

Digestion and AA/ICP

X-Ray analysis

SEM-EDX

## POROSITY

Surface Area

Pore Volume

Micropore Volume

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