

List of Symbols and Abbreviations

g/cm^3	Gram per centimetre cube
Mg/yr	Megagram per year
μm	Micrometer
$\mu\text{g/L}$	Microgram per litre
mg/L	milligram per litre
g/L	gram per litre
mg/g	milligram per gram
m^2/g	meter square per gram
ppb	part per billion
A°	Armstrong
nm	nanometer
m^2/g	meter square per gram
GPa	Gigapascal
K	Kelvin
$^\circ\text{C}$	degree of Celcius
mV	Milivolt
kV	Kilovolt
Cd	Cadmium

Hg	Mercury
Pb	Lead
Co	Cobalt
Hg ⁰	Elemental mercury
Hg ²⁺	Divalent mercury
Hg ^p	Particulate-bound mercury
q _{max}	maximum sorption capacity
WHO	World Health Organization
AHX	Aluminium heat exchanger
AMC	Amalgam corrosion
LME	Liquid metal embrittlement
MSA	Mercaptosuccinic acid
AC	Activated carbon
GAC	Granular activated carbon
PAC	Powdered activated carbon
AFM	Atomic Force Microscopy
TGA	Thermal Gravimetric Analysis
EDX	Energy Dispersive X-ray
SEM	Scanning Electron Microscopy

TEM	Transmission Electron Microscopy
BET	Brunauer, Emmitt, Teller
ICPMS	Inductive Coupled Plasma Mass Spectroscopy
CNTs	Carbon nanotubes
MWCNTs	Multiwalled Carbon Nanotubes
SWCNTs	Singlewalled carbon nanotubes
HGMF	High gradient magnetic filtration
DBD	Dielectric barrier discharge
CCVD	Catalytic Chemical Vapour Desposition
TPD	Temperature Program Desorption