

Sydney Water Monitoring Services

Field sampling | Laboratory analysis
Hydrometric services | Sample design
Data analysis | Reporting

sampling
analysis
water
freshwater
wastewater
estuarine
marine
environmental
monitoring plans
data analysis
hydrometrics
gas testing
chemistry flow
virology biology
ecology parasitology
microbiology

Market leader

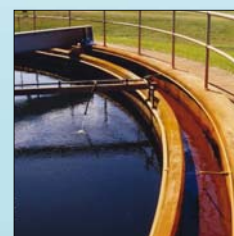
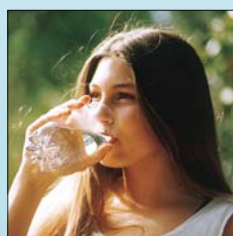
- Algal, parasitic, viral, microbiological and chemical testing
- Field sampling
- Gas testing
- Hydrometric measurement
- Monitoring plan design
- Data analysis and reporting

Experts in sampling and analysis

- Drinking water
- Waste water and solids
- Environmental waters and solids
- Marine water and sediment
- Marine and freshwater flora and fauna

NATA accredited laboratory

- Outstanding in quality
- Technologically advanced
- Excellent service



Analysis and services available

Laboratory analysis

Aerobic Spore Bacteria*

- Enumeration

Aldehydes and Ketones

Algal ASU

Algal Biovolume

Algal Count*

- Abundance

- Total and 6 dominant

Algal Identification*

Algal Toxins

Alkalinity

- Total, HCO₃,CO₃, OH

Aluminium*

Ammoniacal Nitrogen*

Antimony*

Arsenic*

Atenolol

Available Chlorine

Barium*

Bacteriophage (F Specific RNA)

Beach Grease*

Beryllium*

Biofilms

Bismuth*

Bisphenol A (and BADGE)

Blue Green Algae*

- Identification and enumeration

BOD*

Boron*

Bromate

Bromide

Cadmium*

Caffeine

Calcium*

Carbamazepine

Carbamate Scan (COO)

CCPP by calc

Chemical Oxygen Demand

Chloride*

Chlorine

- Free

- Residual

- Total

Chlorophyll*

Chromium*

*Clostridium perfringens**

Cobalt*

COD

Colour

- Apparent

- True

Conductivity*

Copper*

Cryptosporidium oocyst count*

Cryptosporidium infectivity*

Cyanide

Cyanobacteria Count*

Cylindrospermopsin

Diatoms*

- Identification and enumeration

Dilantin

Dissolved Oxygen

E. coli by MF, MPN*

Enterococci by MF, MPN*

Estradiol Beta

Estrone

Estril

Estuarine macroinvertebrates*

Ethoxylates

F Specific RNA Bacteriophage*

Faecal Coliforms (MF, MPN)*

Faecal Streptococci by (MF, MPN)*

Ferrous ion

Filterable Phosphorus*

Fixed Suspended Solids*

Fixed Solids (Water/Semisolids)

Fluoride (Water/Wastewater)*

Fluoxetine

Full Algal Count*

Geosmin

Giardia cyst count*

Haloacetic Acids

Hardness (as CaCO₃)*

HCB

Herbicides

Heterotrophic Plate Count*

- By Pour Plate @ 20°C, 22°C, 30°C,
35°C, 37°C, 55°C

- By Spread Plate @ 20°C, 35°C

Hydrogen Sulphide, unionised

Ibuprofen

Intertidal rock platform communities*

Iron*

Ketoprofen

Klebsiella by MF*

Lanthanum*

Lead*

Lime equivalent

Lithium*

Loss on ignition at 550°C

LSI

Macroinvertebrates*

(Freshwater, Estuarine, Marine)

- Identification, enumeration,

analysis and reporting

Magnesium*

Manganese*

Marine Invertebrates*

- Identification, enumeration,

analysis and reporting

Marine water analysis*

Mercury*

Mestranol

Metals (full range)

MIB

Microcystin

Moisture

Moisture content (Ca hypochlorite)

Molybdenum*

Naproxene

Nickel*

Nonylphenol Ethoxylate

Nitrate*

Nitrite*

Nitrosamines*

- NDMA, NMEA, NDEA etc

Nutrients* (suite of analyses)

Octylphenol Ethoxylate

Odour

Oil and Grease*

OC Pesticides + PCB's

OP Pesticides

Organic Carbon (Total and Dissolved)

Organochlorines

Organic Scan

Oxidised Nitrogen*

PAH Scan

Paraquat and Diquat

PCB

Personal Care Products Residuals

Pesticides

Petroleum Hydrocarbon

- Total

- Speciated

pH*

(water/wastewater/soils/sediments)

Phage

Phenols

- Alkyl (speciated)

- Chloro (speciated)

Phosphorus*

Polyaromatic Hydrocarbons

Phytoplankton*

- Identification and enumeration

Polychlorinated Biphenyls (see PCB)

Potassium*

*Pseudomonas aeruginosa**

Reactive Silica*

Rock platform assessment*

Salinity*

*Salmonella**

- In water and sediment

SAR

SDI - by calculation

Selenium*

Silica*

Silicon

Silver*

Six dominant Algal Count*

Sodium*

Soluble Reactive Phosphorus*

*Somatic Coliphage**

Strontium*

Sulphate*

Sulphite

Sulphides*

- Organic

- Inorganic

Sulphur

Suspended Solids*

SVI - by calculation

Taste and Odour Rating

TCEP

Temperature*

Thallium*

Thorium*

Tin*

Titanium*

TOA

NPOC*

TOC*

Total Dissolved Solids*

Total Coliforms by MF, MPN*

Total Coliforms (+ background count)*

Total Hardness*

Total Kjeldahl Nitrogen*

Total Nitrogen*

Total Organic Phosphorus & Nitrogen*

Total Petroleum Hydrocarbons

Total Phenols

Total Phosphorus*

Total Solids

- In water and solids

Toxins

Triclosan

Trihalomethanes

True Colour

Turbidity

Uranium*

UV Absorbing Org. @254nm

Vanadium*

Virus detection by PCR for

- Adenovirus

- Astrovirus

- Reovirus

- Enterovirus

- Hepatitis A

- Norovirus

- Reovirus

- Rotavirus

Virus detection by Tissue Culture

for Adeno, Reo and Entero

- Presence/absence

- Enumeration

Volatile Suspended Solids

Volatile Solids

- In H₂O,

- In solids:calc

Volatile Fatty Acids

Volatile Organic Compounds

Zinc*

Zooplankton*

- Identification, enumeration,

analysis and reporting

Field and Hydrometrics

Bathymetric surveying*

Chlorine (free, total)

Closed pipe flow measurement

Closed pipe flow metering

Conductivity

Electro fishing*

Flow and quality measurement

- Sewer, stormwater, stream flow

Hydrometric consulting and advice*

Instrument calibration

- Level, flow, water quality, gas

Meteorological

(Monitoring and Alarming)

Odour and gas monitoring

On-site water testing

pH

Redox potential

Sample collection*

(including auto sampler deployment)

Specialist gas testing

(for confined space entry)

Velocity profiling*

Water quality advice*

Sydney Water Monitoring Services

51 Hermitage Rd West Ryde 2114

PO Box 73 West Ryde NSW 2114

T 02 9800 6935

F 02 9800 6741

analyticalservices@sydneywater.com.au

www.sydneywater.com.au