

Sydney Water Monitoring Services™ Marine & Freshwater Ecology

Monitoring program design

Tailored to meet environmental licence compliance, conceptual framework and analysis to ANZECC 2000



Field collection

NATA ISO/IEC 17025 accredited field collection methods for biological and chemical samples in freshwater, estuarine and marine systems



Identification

NATA ISO/IEC 17025 accredited laboratory using 'state of the art' equipment and published taxonomic references to family, genus or species level



Invertebrate voucher collection

One of the largest, well maintained and expanding macroinvertebrate reference collections in the southern hemisphere



Analysis

Statistical analysis of temporal and spatial data. Calculation of SIGNAL and AUSRIVAS indices to infer freshwater stream health and determine potential impacts



Reporting

Licence compliance, data or full interpretive reporting tailored to customer requirements



Other analysis and services available

Anaerobic Spore Bacteria

- Enumeration
- Aldehydes and Ketones
- Algal ASU
- Algal Biovolume
- Algal Count
 - Abundance
 - Total and 6 dominant
- Algal Identification
- Algal Toxins
- Alkalinity
 - Total, HCO_3^- , CO_3^{2-} , 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
- Estrilol
- 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
- Glyphosate
- Haloacetic Acids
- Hardness (as CaCO_3)
- 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
- Organophosphorus pesticides
- Oxidised Nitrogen
- PAH Scan
- Paraquat and Diquat
- PCB
- Personal Care Products Residuals
- Pesticides
- Petroleum Hydrocarbon
 - Total
 - Speciated

pH

- (water/wastewater/soils/sediments)
- Phage
- Pharmaceutical/Estrogenic compounds
- 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
- Saxitoxins in freshwater
- 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 H_2O
 - In solids: calc
- Volatile Fatty Acids
- Volatile Organic Compounds
- Zinc
- Zooplankton
 - Identification, enumeration, analysis and reporting

For all enquiries
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WATER**

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