

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, 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
 Estriol
 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 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
 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/Estrogonic compounds
 Phenols
 - Alkyl (speciated)
 - Chloro (speciated)
 Phosphorus
 Polyaromatic Hydrocarbons
 Phytoplankton
 - Identification and enumeration
 Polychlorinated Biphenyls (see PCB)
 Potassium
Pseudomonas aeruginosa
 Reactive Silica
 Rock surface 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
 - 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

For all enquiries
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**Sydney
 WATER**

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