

# eal Environmental Analysis Laboratory

Southern Cross University

## FULL ANALYTICAL SERVICES PRICE LIST

Edition 16.1.1

Refer to our website for additional section Price Lists

[www.scu.edu.au/eal](http://www.scu.edu.au/eal)



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## ANALYTICAL SERVICES

### Environmental Analysis Laboratory (EAL)

The Environmental Analysis Laboratory (EAL) in the Division of Research, Southern Cross University, is set up as a commercial, teaching and research facility. EAL specialises in a range of environmental testing services for waters, acid sulfate soils, agricultural soils, plants and effluent monitoring. EAL employs over 20 professional staff and utilises the following instruments: Perkin Elmer ICPOES 4300DV; ELAN DRC-e ICPMS; NexION 300D ICPMS; LECO CNS 2000; LECO TruMac CNS Analyser; CRS Analysers; Lachat FIA Nutrient Analysers; Smartchem Nutrient Analyser, Soxtherm Oils and Grease Analyser; Bruker XRD; Leica SEM with EDAX; Pan-analytical XRF; Sedigraph Laser Particle Size Analyser; Waters Ion Chromatography system; Shimadzu TOC/TC/TN Analyser; Thermo-Finnigan IRMS; NewWave Laser Ablation System with Agilent ICPMS; Mantech AutoMax 197 pH/EC Analyser etc.

Specialists in the School of Environment, Science and Engineering, Southern Cross GeoScience and the Division of Research can also provide complete sampling, data interpretation and report production services. This includes specialists in soil science, geology, geochemistry, plant & fisheries biology, palaeontology, hydrology, marine biology and ecology.

### Important Notes on Charges, Turnaround Times and Results

The following points apply to sample analysis:

- Sample specific quotes can be negotiated and customised at competitive rates on request.
- Payment is requested on delivery of samples (cash, eftpos, cheque payments accepted). Invoices are available to regular clients. Minimum charges apply.
- Sub-contracted analyses are sent to approved laboratories.
- On-site sample collection by qualified staff is available at a basic rate of \$110.00 +GST per hour.
- Turn around times for individual projects will vary depending on the size and complexity of the task, but most will be completed within five to ten working days of receiving samples.
- URGENT turn around times are available on request and only for selected tests. These incur 100% surcharge for 24 hour, 50% for two day and 25% for three day service.
- Results are supplied in Excel and PDF report format detailing the analytical results in relation to standard guidelines, where available.
- Sample Receipt Notices, Results and Invoices are supplied by email and may be posted or faxed if requested.

### Confidentiality and Quality Assurance

Confidentiality is an integral part of our quality assurance certification. Analytical results are kept confidential and no results will be released to a third party without client written consent.

Strict quality control procedures are applied to all chemical, physical and bacteriological analyses. This involves frequent use of replicates to monitor precision, and standard reference materials and blanks to monitor accuracy. The laboratory is also routinely involved in inter-laboratory comparisons and trials, including the Australian Standards National Low Level Nutrient Collaborative Trials (NLLNCT) program. EAL is a member of ASPAC (Australian Soil and Plant Analysis Council) which includes a regular Quality Assurance Program for soils and plants. EAL also assists in the formulation of suitable laboratory methods for acid sulfate soil analysis.

EAL is a NATA (National Association of Testing Authorities) accredited laboratory (Lab. Acc. No. 14960). EAL has accreditation on selected tests and is continually updating the number of tests directly accredited by NATA. Please refer to the final page for a list of NATA and ASPAC accredited procedures.

EAL uses many industry accepted method references as the base for NATA, ASPAC and other in-house methods of testing. These references include *Standard Methods for the Examination of Water and Wastewater* (APHA), *Australian Standards* (AS), *Acid Sulfate Soils Laboratory Methods Guidelines* (Ahern, McElnea, Sullivan) and *Soils Chemistry Methods - Australasia* (Rayment and Lyons).

## Instructions for Submitting Samples

### Collection Procedure for Water Samples

One to two litre sample in a clean plastic bottle is required. Rinse the bottle four times with the sample water before collection. Fill bottles to overflowing, then cap so that minimal air is trapped. For dam, creek or spring waters, take the sample at a ten to twenty centimeter depth and away from the bottom and sides. Tank waters can be collected at the tap or direct from the tank, depending on preference or access. Bores require pumping out for fifteen to twenty minutes prior to sample collection.

EAL can supply free of charge clean/sterile plastic bottles on request. Separate glass bottles are required for oils and grease or organics (pesticides, hydrocarbons, phenol, etc.) which are also provided by EAL. Please email [eal@scu.edu.au](mailto:eal@scu.edu.au) for bottle and esky orders.

### Collection Procedure for Soil Samples

Approximately 200 g of soil (a large handful), sealed in a plastic bag, is required fresh to the laboratory. In some cases samples should be stored cold (in an esky with ice) until delivery is possible.

Acid sulfate soils should be frozen on collection and delivered as such. EAL prefers one tightly packed 70 mL vial of soil. If Acid Volatile Sulfur (AVS) is required then an additional vial frozen immediately after collection is recommended. EAL can supply 70 mL vials on request, free of charge.

### Collection Procedure for Plant/Leaf Samples

Approximately 100 g of plant/leaf is required fresh to the laboratory in a paper bag. Smaller quantities (as low as 1g) is applicable as long as it is representative.

### Sample Delivery

Samples can be dropped off in person at EAL. The university gatehouse will provide directions; follow the green and white EAL signs posted around the university. Client parking is reserved below the laboratory client entrance.

Samples can also be sent by post or courier. TNT or TOLL are our preferred couriers, they can be contacted on 131 150 or 131 531, respectively. Please use the following delivery addresses:

#### COURIER ADDRESS:

**TO: SOUTHERN CROSS UNIVERSITY  
Environmental Analysis Laboratory (EAL)  
Ground floor, N Block, Military Road  
EAST LISMORE NSW 2480**

*EAL Contact No. 02 6620 3678 or  
Graham Lancaster Mob: 0419 984 088*

**NOTE: URGENT DELIVERY OF SAMPLES  
FOR TESTING**

#### POSTAL ADDRESS:

**TO: SOUTHERN CROSS UNIVERSITY  
Environmental Analysis Laboratory (EAL)  
PO BOX 157  
LISMORE NSW 2480**

*EAL Contact No. 02 6620 3678 or  
Graham Lancaster Mob: 0419 984 088*

**NOTE: URGENT DELIVERY OF SAMPLES  
FOR TESTING**

## Contact Details

Laboratory Section	Contact	Phone / Fax	Email
Administration	Reception	02 6620 3678 / 02 6620 3957	<a href="mailto:eal@scu.edu.au">eal@scu.edu.au</a>
Manager/Director	Graham Lancaster	0419 984 088	<a href="mailto:graham.lancaster@scu.edu.au">graham.lancaster@scu.edu.au</a>
Waters/QA	Jacob Daley	0437 016 018	<a href="mailto:jacob.daley@scu.edu.au">jacob.daley@scu.edu.au</a>
Agricultural	Kris Saville	0437 016 017	<a href="mailto:kris.saville@scu.edu.au">kris.saville@scu.edu.au</a>
ICP Analysis	Matt Pocock	0400 767 139	<a href="mailto:matt.pocock@scu.edu.au">matt.pocock@scu.edu.au</a>
Acid Sulfate/Physical	Nadia Toppler	0447 011 070	<a href="mailto:nadia.toppler@scu.edu.au">nadia.toppler@scu.edu.au</a>
Aust.Std Growing Media	Brian Smith	0437 016 091	<a href="mailto:brian.smith@scu.edu.au">brian.smith@scu.edu.au</a>

## WATERS

Standard Water, Wastewater, Extracts and Effluent Analysis

### DISCOUNTED TESTING PACKS

Metals as Total Available / Acid Soluble unless requested otherwise. All packs have preparation and digest/extract charge included

ITEM CODE	GENERAL (PACKS)	PRICE excl. GST	PRICE incl. GST
SW-PACK-016	<b>Acid Sulfate Waters</b> Includes pH, EC, Total Dissolved Salts (TDS) (calculation); Titratable Acidity; Dissolved Iron and Aluminium; Chloride, Sulfate, Chloride/Sulfate Ratio.	\$70.00	\$77.00
SW-PACK-021	<b>Aggressivity Assessment</b> Includes pH, EC, Total Dissolved Salts (TDS) (calculation), Resistivity (Calculation), Soluble Chloride, Sulfate.	\$45.00	\$49.50
SW-PACK-007	<b>Agricultural Stock Use</b> Includes pH, EC, Total Dissolved Salts (TDS) (calculation); Water Hardness; Total Alkalinity; Copper, Lead, Cadmium, Zinc, Arsenic, Selenium, Iron, Manganese, Silver, Chromium, Nickel, Aluminium, Mercury; Nitrate, Ammonium, Phosphate; Faecal Coliforms.	\$120.00	\$132.00
SW-PACK-041	<b>Aquaculture Monitoring Suite</b> Includes pH, Total Suspended Solids (TSS), Biochemical Oxygen Demand (BOD), Total Nitrogen (TN), Total Phosphorus (TP).	\$90.00	\$99.00
SW-PACK-001	<b>Bacteria</b> Includes Total Coliforms and E.Coli.	\$45.00	\$49.50
SW-PACK-064	<b>Bacteria (NATA Accredited)</b> Includes Total Coliforms and E.Coli.	\$60.00	\$66.00
SW-PACK-025	<b>Dust Analysis</b> As per Total Suspended Solids (TSS) and Method AS 3580.10.1.8.2.2-1991.	\$25.00	\$27.50
SW-PACK-022	<b>Dust Ashing Analysis</b> Includes Volatile Suspended Solids (VSS), Total Suspended Solids (TSS), Total Dissolved Solids (TDS).	\$65.00	\$71.50
SW-PACK-018	<b>Effluent Monitoring</b> Includes pH, Total Suspended Solids (TSS); Biochemical Oxygen Demand (BOD); Total Oils and Grease (TOG); Total Nitrogen (TN), Total Phosphorus (TP); Nitrate, Nitrite, Phosphate, Ammonium; Faecal Coliforms.	\$170.00	\$187.00
SW-PACK-012	<b>Environmental Monitoring 1a</b> Includes pH, EC, Total Dissolved Salts (TDS) (calculation); Total Suspended Solids (TSS); Nitrate, Nitrite, Phosphate, Ammonium; Total Nitrogen (TN), Total Phosphorus (TP).	\$90.00	\$99.00
SW-PACK-013	<b>Environmental Monitoring 1b (EPA Suite)</b> Includes pH, EC, Total Dissolved Salts (TDS) (calculation); Total Suspended Solids (TSS); Nitrate, Nitrite, Phosphate, Ammonium; Total Nitrogen and Total Phosphorus; Biochemical Oxygen Demand (BOD).	\$120.00	\$132.00
SW-PACK-017	<b>Environmental Monitoring 2</b> Includes pH, EC, Total Dissolved Salts (TDS) (calculation); Total Suspended Solids (TSS); Total Nitrogen and Total Phosphorus; Nitrate, Nitrite, Phosphate, Ammonium; Copper, Lead, Cadmium, Zinc, Arsenic, Selenium, Iron, Manganese, Silver, Chromium, Nickel, Aluminium, Mercury; Sodium, Potassium, Calcium, Magnesium, Sulfate, Chloride; Bicarbonate Alkalinity, Water Hardness (calculation); Sodium Absorption Ratio (SAR).	\$180.00	\$198.00
SW-PACK-058	<b>Gas Contamination Monitoring for Dissolved Gases</b> Includes Acetylene, Butane, Ethane, Ethene, Methane and Propane.	\$140.00	\$154.00

# Environmental Analysis Laboratory Price List - Edition: 16.1.1

Metals as Total Available / Acid Soluble unless requested otherwise. All packs have preparation and digest/extract charge included

ITEM CODE	GENERAL (PACKS) (CONT.)	PRICE excl. GST	PRICE incl. GST
SW-PACK-056	<b>Gas Contamination Water Quality Monitoring</b> Includes pH, EC, Total Dissolved Salts (TDS) (calculation), Total Alkalinity, Total Suspended Solids (TSS); Total Petroleum Hydrocarbons (TPH C10-C36), BTEX (Equivalent TPH C6-C9); Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver and Zinc.	\$160.00	\$176.00
SW-PACK-057	<b>Hydroponics Liquid Analysis</b> Includes pH, EC; Total Nitrogen (TN), Phosphorus (TP); Available Sodium, Potassium, Calcium, Magnesium, Sulfur, Chloride; Available Cobalt, Molybdenum, Zinc, Manganese, Iron, Copper, Boron.	\$90.00	\$99.00
SW-PACK-004	<b>Irrigation Suitability - Basic</b> Includes pH, EC, Total Dissolved Salts (TDS) (calculation), Iron and Manganese; Sodium, Potassium, Calcium, Magnesium, Sulfate, Chloride; Turbidity, Total Alkalinity, Water Hardness (calculation), Saturation Index; Sodium Absorption Ratio (SAR).	\$80.00	\$88.00
SW-PACK-005	<b>Irrigation Suitability - Comprehensive</b> Includes pH, EC, Total Dissolved Salts (TDS) (calculation), Water Hardness, Total Alkalinity, Turbidity, Total Coliforms and E.Coli Bacteria; Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Manganese, Nickel, Lead, Zinc; Nitrate, Ammonium, Phosphate; Sodium, Potassium, Calcium, Magnesium, Chloride, Sulfate, Sodium Absorption Ratio (SAR).	\$150.00	\$165.00
SW-PACK-008	<b>Langliers Index</b> Includes pH, Sodium, Calcium, Magnesium, Total Alkalinity. Used as a general indication of the potential for corrosion.	\$35.00	\$38.50
SW-PACK-026	<b>Liquid Fertiliser Analysis</b> Includes pH, EC, Total Dissolved Salts (TDS) (calculation), Specific Gravity; Total Nitrogen (TN), Phosphorus; Sodium, Potassium, Calcium, Magnesium, Sulfur; Silicon, Cobalt, Molybdenum, Zinc, Manganese, Iron, Copper, Boron.	\$130.00	\$143.00
SW-PACK-065	<b>Liquids Testing relating to Hair Analysis</b> Includes Antimony, Aluminium, Arsenic, Barium, Beryllium, Bismuth, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Sulfur, Thallium, Thorium, Uranium, Vanadium and Zinc.	\$80.00	\$88.00
SW-PACK-020	<b>Nutrients - Dissolved</b> Includes Nitrate, Nitrite, Phosphate, Ammonium.	\$45.00	\$49.50
SW-PACK-019	<b>Nutrients - Total</b> Includes Total Nitrogen (TN), Total Phosphorus (TP).	\$50.00	\$55.00
SW-PACK-042	<b>Petroleum Hydrocarbons</b> Includes Total Petroleum Hydrocarbons (TPH C10-C36), BTEX (Equivalent TPH C6-C9).	\$80.00	\$88.00
SW-PACK-023	<b>Renal RO Analysis</b> Includes pH, EC, Total Dissolved Salts (TDS) (calculation); Sodium, Potassium, Calcium, Magnesium, Chloride, Sulfate, Water Hardness (calculation), Nitrate, Nitrite, Phosphate, Ammonium; Fluoride, Barium; Available Metals (Copper, Lead, Cadmium, Zinc, Arsenic, Selenium, Iron, Manganese, Silver, Chromium, Nickel, Aluminium, Mercury).	\$130.00	\$143.00
SW-PACK-014	<b>Salts Suite</b> Includes pH, EC, Sodium, Potassium, Calcium, Magnesium, Sulfate, Chloride; Total Alkalinity, Water Hardness (calculation); Sodium Absorption Ratio (SAR).	\$70.00	\$77.00
SW-PACK-028	<b>Volatile Fatty Acids (VFA)</b> Includes Volatile Fatty Acids (VFA), pH, Alkalinity.	\$40.00	\$44.00
SW-PACK-015	<b>Wastewater Monitoring</b> Includes pH, Total Suspended Solids (TSS); Biochemical Oxygen Demand (BOD); Total Oils and Grease (TOG).	\$85.00	\$93.50

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Metals as Total Available / Acid Soluble unless requested otherwise. All packs have preparation and digest/extract charge included

ITEM CODE	GENERAL (PACKS) (CONT.)	PRICE excl. GST	PRICE incl. GST
SW-PACK-055	<b>Water Analysis - Basic</b> Includes pH, EC, Total Dissolved Salts (TDS) (calculation); Total Suspended Solids (TSS).	\$22.00	\$24.20
SW-PACK-002	<b>Water Quality - Basic</b> For drinking and domestic use. Includes pH, EC, Total Dissolved Salts (TDS) (calculation), Water Hardness, Total Alkalinity, Turbidity, Total Coliforms, E.Coli Bacteria.	\$70.00	\$77.00
SW-PACK-003	<b>Water Quality - Comprehensive</b> For drinking and domestic use. Includes pH, EC, Total Dissolved Salts (TDS) (calculation), Water Hardness, Total Alkalinity, Turbidity, Total Coliforms and E.Coli Bacteria; Nitrate; Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Manganese, Nickel, Lead, Zinc.	\$110.00	\$121.00

All packs have preparation and digest/extract charge included. Saline waters require (SW-PREP-006)

ITEM CODE	METALS AND SALTS (PACKS)	PRICE excl. GST	PRICE incl. GST
SW-PACK-031	<b>Basic Metals Scan - As Supplied (ICPMS)</b> Includes Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver and Zinc.	\$55.00	\$60.50
SW-PACK-040	<b>Basic Metals Scan - Dissolved (filtered then acidified) (ICPMS)</b> Refer to SW-PACK-031 for list of elements.	\$60.00	\$66.00
SW-PACK-029	<b>Basic Metals Scan - Total Available / Acid Soluble (acidified) (ICPMS)</b> Refer to SW-PACK-031 for list of elements.	\$60.00	\$66.00
SW-PACK-030	<b>Basic Metals Scan - Total Recoverable (digested with nitric acid) (ICPMS)</b> Refer to SW-PACK-031 for list of elements.	\$65.00	\$71.50
SW-PACK-043	<b>Extra Metals Scan - As Supplied (ICPMS)</b> Includes Antimony, Barium, Beryllium, Bismuth, Boron, Bromide, Cobalt, Lithium, Molybdenum, Silicon, Strontium, Thallium, Thorium, Uranium and Vanadium.	\$55.00	\$60.50
SW-PACK-044	<b>Extra Metals Scan - Dissolved (filtered then acidified) (ICPMS)</b> Refer to SW-PACK-043 for list of elements.	\$60.00	\$66.00
SW-PACK-045	<b>Extra Metals Scan - Total Available / Acid Soluble (acidified) (ICPMS)</b> Refer to SW-PACK-043 for list of elements.	\$60.00	\$66.00
SW-PACK-046	<b>Extra Metals Scan - Total Recoverable (digested with nitric acid) (ICPMS)</b> Refer to SW-PACK-043 for list of elements.	\$65.00	\$71.50
SW-PACK-060	<b>Saline Water Metals (Low Level) &gt;20mS/cm (As Supplied) (ICPMS)</b> Includes Basic (Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver and Zinc); Extra (Barium, Beryllium, Bismuth, Cobalt, Molybdenum, Thallium, Uranium and Vanadium).	\$80.00	\$88.00
SW-PACK-061	<b>Saline Water Metals (Low Level) &gt;20mS/cm (Dissolved) (ICPMS)</b> Refer to SW-PACK-060 for list of elements.	\$85.00	\$93.50
SW-PACK-062	<b>Saline Water Metals (Low Level) &gt;20mS/cm (Total Available / Acid Soluble) (ICPMS)</b> Refer to SW-PACK-060 for list of elements.	\$85.00	\$93.50
SW-PACK-063	<b>Saline Water Metals (Low Level) &gt;20mS/cm (Total Recoverable) (ICPMS)</b> Refer to SW-PACK-060 for list of elements.	\$90.00	\$99.00
SW-PACK-039	<b>Salts Scan - As Supplied (ICPMS)</b> Includes Calcium, Chloride, Magnesium, Potassium, Sodium and Sulfur.	\$45.00	\$49.50
SW-PACK-036	<b>Salts Scan - Dissolved (filtered then acidified) (ICPMS)</b> Refer to SW-PACK-039 for list of elements.	\$50.00	\$55.00
SW-PACK-037	<b>Salts Scan - Total Available / Acid Soluble (acidified) (ICPMS)</b> Refer to SW-PACK-039 for list of elements.	\$50.00	\$55.00

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All packs have preparation and digest/extract charge included. Saline waters require (SW-PREP-006)

ITEM CODE	METALS AND SALTS (PACKS) (CONT.)	PRICE excl. GST	PRICE incl. GST
SW-PACK-038	<b>Salts Scan - Total Recoverable (digested with nitric acid) (ICPMS)</b> Refer to SW-PACK-039 for list of elements.	\$55.00	\$60.50
SW-PACK-051	<b>Special - Metals and Salts Combo - As Supplied (ICPMS)</b> Includes Basic (Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver and Zinc); Extra (Antimony, Barium, Beryllium, Bismuth, Boron, Bromide, Cobalt, Lithium, Molybdenum, Silicon, Strontium, Thallium, Thorium, Uranium and Vanadium) and Salts (Calcium, Chloride, Magnesium, Potassium, Sodium and Sulfur).	\$120.00	\$132.00
SW-PACK-052	<b>Special - Metals and Salts Combo - Dissolved (filtered then acidified) (ICPMS)</b> Refer to SW-PACK-051 for list of elements.	\$125.00	\$137.50
SW-PACK-053	<b>Special - Metals and Salts Combo - Total Available / Acid Soluble (acidified) (ICPMS)</b> Refer to SW-PACK-051 for list of elements.	\$125.00	\$137.50
SW-PACK-054	<b>Special - Metals and Salts Combo - Total Recoverable (digested with nitric acid) (ICPMS)</b> Refer to SW-PACK-051 for list of elements.	\$130.00	\$143.00
SW-PACK-047	<b>Specific - Rare Earth - As Supplied (ICPMS)</b> Includes Cerium, Dysprosium, Erbium, Europium, Gadolinium, Holmium, Lanthanum, Lutetium, Neodymium, Praseodymium, Samarium, Scandium, Terbium, Thorium, Thulium, Uranium, Ytterbium and Yttrium.	\$75.00	\$82.50
SW-PACK-048	<b>Specific - Rare Earth - Dissolved (filtered then acidified) (ICPMS)</b> Refer to SW-PACK-047 for list of elements.	\$80.00	\$88.00
SW-PACK-049	<b>Specific - Rare Earth - Total Available / Acid Soluble (acidified) (ICPMS)</b> Refer to SW-PACK-047 for list of elements.	\$80.00	\$88.00
SW-PACK-050	<b>Specific - Rare Earth - Total Recoverable (digested with nitric acid) (ICPMS)</b> Refer to SW-PACK-047 for list of elements.	\$85.00	\$93.50

All packs have preparation and digest/extract charge included

ITEM CODE	PESTICIDES (PACKS)	PRICE excl. GST	PRICE incl. GST
SW-PACK-009	<b>Pesticide Screen 1a</b> Includes Organo-chlorines (OC), Organo-phosphates (OP).	\$70.00	\$77.00
SW-PACK-010	<b>Pesticide Screen 1b</b> Includes Organo-chlorines (OC), Organo-phosphates (OP) and Polychlorinated biphenyls (PCB).	\$90.00	\$99.00
SW-PACK-024	<b>Pesticide Screen 2a - Low Level</b> Includes Low Level Pesticide Analysis: Organo-chlorines (OC) and Organo-phosphates (OP).	\$170.00	\$187.00
SW-PACK-027	<b>Pesticide Screen 2b - Low Level</b> Includes Low Level Pesticide Analysis: Organo-chlorines (OC), Organo-phosphates (OP), Polychlorinated Biphenyls (PCB).	\$180.00	\$198.00
SW-PACK-059	<b>Pesticide Screen 3 - In Oil</b> Includes Organo-chlorines (OC), Organo-phosphates (OP). Note: 25 mL required	\$150.00	\$165.00



**SINGLES TESTING**

ITEM CODE	PREPARATIONS (SINGLES)	PRICE excl. GST	PRICE incl. GST
SW-PREP-005	<b>As Supplied - Research Samples/External Preparation</b>	\$0.00	\$0.00
SW-PREP-003	<b>Filtered/ Dissolved Metals</b> Immediate filtration through 0.45 µm filter followed by acidification with Nitric acid. It is particularly important where waters are high in suspended clay matter, where Iron and Aluminium may be present.	\$5.00	\$5.50
SW-PREP-006	<b>Saline Waters Instrument Setup (per sample)</b>	\$20.00	\$22.00
SW-PREP-002	<b>Total Available / Acid Soluble Metals</b> Acidification with Nitric acid. Used on nearly all environmental waters, acid sulfate waters, groundwater and surfacewaters (According to ANZECC guidelines). Also used for clean waters, drinking waters, when acidified in the field and when requested.	\$5.00	\$5.50
SW-PREP-001	<b>Total Recoverable Metals</b> Nitric Acid digest. Used on high sludge/solid waters, liquid fertilisers and when requested.	\$15.00	\$16.50

ITEM CODE	GENERAL (SINGLES)	PRICE excl. GST	PRICE incl. GST
SW-SING-031	<b>Acidity (Titratable)</b>	\$18.00	\$19.80
SW-SING-022	<b>Algae - Basic ID and Count by Microscopic Identification</b>	\$100.00	\$110.00
SW-SING-075	<b>Alkalinity - Bicarbonate</b>	\$18.00	\$19.80
SW-SING-076	<b>Alkalinity - Carbonate</b>	\$18.00	\$19.80
SW-SING-077	<b>Alkalinity - Total</b>	\$18.00	\$19.80
SW-SING-110	<b>Biochemical Oxygen Demand (BOD) - Dissolved</b>	\$45.00	\$49.50
SW-SING-012	<b>Biochemical Oxygen Demand (BOD) - Total</b>	\$45.00	\$49.50
SW-SING-078	<b>Carbon - Dissolved Organic (DOC)</b>	\$50.00	\$55.00
SW-SING-079	<b>Carbon - Total Organic (TOC)</b>	\$50.00	\$55.00
SW-SING-119	<b>Carbon - Total Organic (TOC) by LECO</b>	\$50.00	\$55.00
SW-SING-013	<b>Chemical Oxygen Demand (COD)</b>	\$45.00	\$49.50
SW-SING-080	<b>Chloride - Available</b>	\$18.00	\$19.80
SW-SING-081	<b>Chlorine - Free</b>	\$18.00	\$19.80
SW-SING-082	<b>Chlorine - Total Residual</b>	\$18.00	\$19.80
SW-SING-017	<b>Chlorophyll 'a' and Algal Biomass</b>	\$54.00	\$59.40
SW-SING-030	<b>Chromium VI - Hexavalent</b>	\$36.00	\$39.60
SW-SING-073	<b>Colour - Apparent</b>	\$14.00	\$15.40
SW-SING-074	<b>Colour - True</b>	\$14.00	\$15.40
SW-SING-056	<b>Conductivity - Electrical</b>	\$10.00	\$11.00
SW-SING-029	<b>Cyanide - Total</b>	\$50.00	\$55.00
SW-SING-083	<b>Fluoride</b>	\$20.00	\$22.00
SW-SING-116	<b>Glyphosate (Round Up)</b>	\$220.00	\$242.00
SW-SING-084	<b>Hardness</b>	\$18.00	\$19.80
SW-SING-027	<b>Iodine - Total</b>	\$60.00	\$66.00
SW-SING-085	<b>Moisture</b>	\$10.00	\$11.00
SW-SING-117	<b>Organotins (MBT, TBT, DBT)</b>	\$260.00	\$286.00
SW-SING-058	<b>Oxygen - Dissolved (DO)</b>	\$10.00	\$11.00

## Environmental Analysis Laboratory Price List - Edition: 16.1.1

ITEM CODE	GENERAL (SINGLES) (CONT.)	PRICE excl. GST	PRICE incl. GST
SW-SING-115	<b>Particle Size Analysis – Laser Mastersizer 2000</b> Includes total suspended solids using 0.45micron filter to quantify the fractions – laser particle size analysis full size range down to 0.1micron.	\$100.00	\$110.00
SW-SING-055	<b>pH</b>	\$10.00	\$11.00
SW-SING-054	<b>Phosphorus - Available Orthophosphate</b>	\$20.00	\$22.00
SW-SING-053	<b>Phosphorus - Total (TP)</b> Autoclave digestion and analysis by FIA.	\$30.00	\$33.00
SW-SING-059	<b>Redox</b>	\$10.00	\$11.00
SW-SING-057	<b>Salinity</b>	\$10.00	\$11.00
SW-SING-035	<b>Specific Gravity</b>	\$20.00	\$22.00
SW-SING-067	<b>Sulfide - Dissolved</b>	\$22.00	\$24.20
SW-SING-068	<b>Sulfide - Total</b>	\$22.00	\$24.20
SW-SING-100	<b>Sulfite - Dissolved</b>	\$22.00	\$24.20
SW-SING-101	<b>Sulfite - Total</b>	\$22.00	\$24.20
SW-SING-028	<b>Surfactant - MBAS</b>	\$50.00	\$55.00
SW-SING-021	<b>Tannin/Lignin</b>	\$60.00	\$66.00
SW-SING-060	<b>Temperature</b>	\$10.00	\$11.00
SW-SING-061	<b>Total Dissolved Salts (TDS) (calculation)</b>	\$10.00	\$11.00
SW-SING-034	<b>Total Dissolved Solids (TDS)</b> Includes filtering and TDS by evaporation.	\$20.00	\$22.00
SW-SING-011	<b>Total Oils and Grease (TOG) - Hexane extractable</b>	\$50.00	\$55.00
SW-SING-033	<b>Total Solids</b>	\$20.00	\$22.00
SW-SING-003	<b>Total Suspended Solids (TSS)</b>	\$20.00	\$22.00
SW-SING-069	<b>Turbidity</b>	\$12.00	\$13.20
SW-SING-070	<b>UV Absorbency</b>	\$25.00	\$27.50
SW-SING-072	<b>UV Transmission - Filtered</b>	\$25.00	\$27.50
SW-SING-071	<b>UV Transmission - Unfiltered</b>	\$25.00	\$27.50
SW-SING-019	<b>Volatile Fatty Acids (VFA)</b> Includes Volatile Fatty Acids (VFA), pH and Alkalinity.	\$50.00	\$55.00
SW-SING-005	<b>Volatile Suspended Solids (VSS)</b>	\$35.00	\$38.50

Price per element per sample: please select appropriate preparation

ITEM CODE	METALS AND SALTS (SINGLES)	PRICE excl. GST	PRICE incl. GST
SW-SING-102	<b>General Metals - As Supplied (external prep)</b> Aluminium, Antimony, Arsenic, Barium, Beryllium, Bismuth, Boron, Bromide, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silicon, Silver, Sodium, Strontium, Sulfur, Thallium, Thorium, Uranium, Vanadium or Zinc.	\$10.00	\$11.00
SW-SING-103	<b>General Metals - Dissolved</b> Refer to SW-SING-102	\$10.00	\$11.00
SW-SING-104	<b>General Metals - Total Available / Acid Soluble</b> Refer to SW-SING-102	\$10.00	\$11.00
SW-SING-105	<b>General Metals - Total Recoverable</b> Refer to SW-SING-102	\$10.00	\$11.00

# Environmental Analysis Laboratory Price List - Edition: 16.1.1

Price per element per sample: please select appropriate preparation

ITEM CODE	METALS AND SALTS (SINGLES) (CONT.)	PRICE excl. GST	PRICE incl. GST
SW-SING-106	<b>Non-Standard Metals - As Supplied</b> Cerium, Dysprosium, Erbium, Europium, Gadolinium, Gallium, Gold, Holmium, Lanthanum, Lutetium, Neodymium, Praseodymium, Rubidium, Samarium, Scandium, Terbium, Thulium, Tin, Titanium, Tungsten, Ytterbium or Yttrium.	\$15.00	\$16.50
SW-SING-107	<b>Non-Standard Metals - Dissolved</b> Refer to SW-SING-106	\$15.00	\$16.50
SW-SING-108	<b>Non-Standard Metals - Total Available/Acid Soluble</b> Refer to SW-SING-106	\$15.00	\$16.50
SW-SING-109	<b>Non-Standard Metals - Total Recoverable</b> Refer to SW-SING-106	\$15.00	\$16.50

ITEM CODE	MICROBIOLOGICAL (SINGLES)	PRICE excl. GST	PRICE incl. GST
SW-SING-039	<b>Bacteria - Faecal Coliforms</b>	\$35.00	\$38.50
SW-SING-040	<b>Bacteria - Total Coliforms</b>	\$35.00	\$38.50
SW-SING-041	<b>E.Coli - 24h Incubation</b>	\$40.00	\$44.00
SW-SING-042	<b>Enterococci</b>	\$45.00	\$49.50
SW-SING-036	<b>Legionella</b>	\$80.00	\$88.00
SW-SING-043	<b>Listeria</b>	\$45.00	\$49.50
SW-SING-044	<b>Pseudomonas</b>	\$45.00	\$49.50
SW-SING-045	<b>Salmonella</b>	\$45.00	\$49.50
SW-SING-046	<b>Total Plate Count</b>	\$45.00	\$49.50

ITEM CODE	NITROGEN (SINGLES)	PRICE excl. GST	PRICE incl. GST
SW-SING-047	<b>Ammonium</b>	\$20.00	\$22.00
SW-SING-048	<b>Nitrate</b>	\$20.00	\$22.00
SW-SING-049	<b>Nitrite</b>	\$20.00	\$22.00
SW-SING-050	<b>NOx</b>	\$20.00	\$22.00
SW-SING-051	<b>Total Kjeldahl Nitrogen</b>	\$22.00	\$24.20
SW-SING-052	<b>Total Nitrogen (TN)</b>	\$30.00	\$33.00
SW-SING-118	<b>Total Nitrogen by LECO</b>	\$30.00	\$33.00

ITEM CODE	ORGANICS (SINGLES)	PRICE excl. GST	PRICE incl. GST
SW-SING-062	<b>Hydrocarbons - BTEX (Equivalent to TPH C6-C9)</b>	\$50.00	\$55.00
SW-SING-008	<b>Hydrocarbons - Polycyclic Aromatic Hydrocarbons (PAH)</b>	\$65.00	\$71.50
SW-SING-063	<b>Hydrocarbons - Total Petroleum (TPH C10-C36)</b>	\$50.00	\$55.00
SW-SING-112	<b>Methane</b>	\$110.00	\$121.00
SW-SING-038	<b>Phenol - Total</b>	\$60.00	\$66.00
SW-SING-026	<b>Phenolics - Speciated Phenols</b>	\$90.00	\$99.00
SW-SING-111	<b>Semi-Volatile Organic Compounds (SVOC)</b> SVOC includes Phenols.	\$260.00	\$286.00
SW-SING-037	<b>Trihalomethanes (THM)</b>	\$60.00	\$66.00
SW-SING-095	<b>Volatile Halogenated Compounds (VHC)</b>	\$90.00	\$99.00

## Environmental Analysis Laboratory Price List - Edition: 16.1.1

ITEM CODE	ORGANICS (SINGLES) (CONT.)	PRICE excl. GST	PRICE incl. GST
SW-SING-094	<b>Volatile Organic Compounds (VOC)</b> VOC includes BTEX.	\$115.00	\$126.50

ITEM CODE	PESTICIDES AND HERBICIDES (SINGLES)	PRICE excl. GST	PRICE incl. GST
SW-SING-098	<b>Herbicides Phenoxy Acid</b>	\$170.00	\$187.00
SW-SING-064	<b>Organo-chlorines (OC)</b>	\$65.00	\$71.50
SW-SING-113	<b>Organo-chlorines (OC) - In Oil</b> Note: 25 mL required	\$120.00	\$132.00
SW-SING-096	<b>Organo-chlorines (OC) - Low Level</b>	\$160.00	\$176.00
SW-SING-065	<b>Organo-phosphates (OP)</b>	\$65.00	\$71.50
SW-SING-114	<b>Organo-phosphates (OP) - In Oil</b> Note: 25 mL required	\$120.00	\$132.00
SW-SING-097	<b>Organo-phosphates (OP) - Low Level</b>	\$160.00	\$176.00
SW-SING-066	<b>Polychlorinated Biphenyls (PCB)</b>	\$65.00	\$71.50
SW-SING-099	<b>Polychlorinated Biphenyls (PCB) - Low Level</b>	\$160.00	\$176.00

## SOLIDS

Sediment, Soil, Biosolid, Compost, Fertiliser, Plant, Rock and Other

### DISCOUNTED TESTING PACKS

All packs have preparation and digest/extract charge included

ITEM CODE	ACID SULFATE SOILS (PACKS)	PRICE excl. GST	PRICE incl. GST
AS-PACK-007	<b>Acid Sulfate Peroxide Screening</b> Includes moisture content, texture for ASS triggers, drying and ring mill grinding. Field based technique modified for lab use. Usually recommended for larger sample batches or when samples have a low likelihood of potential acid sulfate. Samples with pH drop > 1 unit between pH <sub>f</sub> and pH <sub>ox</sub> may require further investigation. All prepared samples are held in long-term storage.	\$20.00	\$22.00
AS-PACK-006	<b>Acid Sulfate Rock</b> Net Acid Producing Potential (NAPP) and Net Acid Generation (NAG), includes NAG pH, NAG (single addition peroxide acidity), Acid Neutralising Capacity (ANC) and Total Sulfur (Combined in NAPP equation).	\$90.00	\$99.00
AS-PACK-010	<b>Acid Sulfate Rock plus Chromium Reducible Sulfur</b> Net Acid Producing Potential (NAPP) and Net Acid Generation (NAG), includes NAG pH, NAG (single addition peroxide acidity), Acid Neutralising Capacity (ANC) and Chromium Reducible Sulfur (CRS) (Combined in NAPP equation).	\$110.00	\$121.00
AS-PACK-004	<b>AVS and CRS</b> Includes Acid Volatile Sulfur (AVS) and Reduced Inorganic Sulfur (SCR).	\$120.00	\$132.00
AS-PACK-001	<b>Chromium Suite - Basic</b> Includes Titratable Actual Acidity (TAA), Reduced Inorganic Sulfur (SCR) and liming rate calculations. Retained Acidity (SNAS) and Acid Neutralising Capacity (ANC) are recommended where pH < 4.5 and pH > 6.5 respectively to calculate net acidity and liming rate.	\$70.00	\$77.00
AS-PACK-008	<b>Chromium Suite - Complete</b> Includes Titratable Actual Acidity (TAA), Reduced Inorganic Sulfur (SCR), net acidity and liming rate calculations. Acid Neutralising Capacity (ANC) is included when pH > 6.5 and Retained Acidity (SNAS) is included when pH < 4.5.	\$90.00	\$99.00
AS-PACK-005	<b>SPOCAS Plus - Basic</b> This modified SPOCAS technique combines the benefits of the acid trail (TAA, TPA) with the accuracy of the CRS technique for potential sulfur. Ideal for accurate identification and faster turn around times. Includes Titratable Actual Acidity (TAA), Titratable Potential Acidity (TPA), Reduced Inorganic Sulfur (SCR). Retained Acidity (SNAS) and Acid Neutralising Capacity (ANC) are recommended where pH < 4.5 and pH > 6.5 respectively to calculate net acidity and liming rate.	\$100.00	\$110.00
AS-PACK-009	<b>SPOCAS Plus - Complete</b> This modified SPOCAS technique combines the benefits of the acid trail (TAA, TPA) with the accuracy of the CRS technique for potential sulfur. Ideal for accurate identification and faster turn around times. Includes Titratable Actual Acidity (TAA), Titratable Potential Acidity (TPA), Reduced Inorganic Sulfur (SCR). Retained Acidity (SNAS) and Acid Neutralising Capacity (ANC) are included where pH < 4.5 and pH > 6.5 respectively to calculate net acidity and liming rate.	\$120.00	\$132.00
AS-PACK-002	<b>SPOCAS Suite</b> Includes Titratable Actual Acidity (TAA), Titratable Potential Acidity (TPA), Total Sulfidic Acidity (TSA), Extractable and Oxidisable Sulfur, Magnesium and Calcium and liming rate calculation. Retained Acidity (SNAS) and Excess Acid Neutralising Capacity (ANC) are recommended in selected cases to calculate net acidity and liming rate.	\$130.00	\$143.00
AS-PACK-003	<b>TAA, TPA and TSA</b> Includes Titratable Actual Acidity (TAA), Titratable Potential Acidity (TPA) and Total Sulfidic Acidity (TSA).	\$70.00	\$77.00

# Environmental Analysis Laboratory Price List - Edition: 16.1.1

All packs have preparation and digest/extract charge included

ITEM CODE	AGRICULTURAL SOIL (PACKS)	PRICE excl. GST	PRICE incl. GST
RA-PACK-001	<b>Agricultural - Albrecht/Reams</b> Includes pH and EC (1:5 water); Available (Calcium, Magnesium, Potassium, Ammonium, Nitrate, Phosphate, Sulfur); Exchangeable (Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Cation Exchange Capacity); Bray I and II Phosphorus; Colwell Phosphorus; Available Micronutrients (Zinc, Manganese, Iron, Copper, Boron, Silicon); Total Carbon (TC), Total Nitrogen (TN), Organic Matter, TC/TN Ratio; Basic Colour, Basic Texture.	\$110.00	\$121.00
RA-PACK-011	<b>Agricultural - Albrecht/Reams plus Soil Fertility Report</b> Includes pH and EC (1:5 water); Available Calcium, Magnesium, Potassium, Ammonium, Nitrate, Phosphate, Sulfur; Exchangeable Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Cation Exchange Capacity; Bray I and II Phosphorus; Colwell Phosphorus; Available Micronutrients Zinc, Manganese, Iron, Copper, Boron, Silicon; Total Carbon (TC), Total Nitrogen (TN), Organic Matter, TC/TN Ratio; Basic Colour, Basic Texture; Soil Fertility Report.	\$140.00	\$154.00
RA-PACK-002	<b>Agricultural - Albrecht/Reams plus Totals</b> Includes pH and EC (1:5 water); Available (Calcium, Magnesium, Potassium, Ammonium, Nitrate, Phosphate, Sulfur); Exchangeable (Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Cation Exchange Capacity); Bray I and II Phosphorus; Colwell Phosphorus; Available Micronutrients (Zinc, Manganese, Iron, Copper, Boron, Silicon); Total Carbon (TC), Total Nitrogen (TN), Organic Matter, TC/TN Ratio; Basic Colour, Basic Texture; Totals (Sodium, Potassium, Calcium, Magnesium, Sulfur, Phosphorus, Silicon, Cobalt, Molybdenum, Selenium, Zinc, Manganese, Iron, Copper, Boron and Aluminium).	\$160.00	\$176.00
RA-PACK-003	<b>Agricultural - Albrecht/Reams plus Totals and Heavy Metals</b> Includes pH and EC (1:5 water); Available (Calcium, Magnesium, Potassium, Ammonium, Nitrate, Phosphate, Sulfur); Exchangeable (Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Cation Exchange Capacity); Bray I and II Phosphorus; Colwell Phosphorus; Available Micronutrients (Zinc, Manganese, Iron, Copper, Boron, Silicon); Total Carbon (TC), Total Nitrogen (TN), Organic Matter, TC/TN Ratio; Basic Colour, Basic Texture; Totals (Sodium, Potassium, Calcium, Magnesium, Sulfur, Phosphorus, Silicon, Cobalt, Molybdenum, Selenium, Zinc, Manganese, Iron, Copper, Boron and Aluminium); Heavy Metals (Silver, Arsenic, Lead, Chromium, Nickel, Cadmium, Mercury).	\$180.00	\$198.00
RA-PACK-004	<b>Agricultural - Basic 1</b> Includes pH and EC (1:5 water); Exchangeable Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Cation Exchange Capacity; Bray I Phosphorus; Total Carbon (TC), Total Nitrogen (TN), Organic Matter, Basic Colour, Basic Texture.	\$75.00	\$82.50
RA-PACK-013	<b>Agricultural - Basic 2</b> Includes pH and EC (1:5 water); Available Ammonium, Nitrate, Sulfur; Exchangeable Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Hydrogen, Cation Exchange Capacity; Bray I and II Phosphorus; Available Micronutrients Zinc, Manganese, Iron, Copper, Boron, Silicon; Basic Colour, Basic Texture.	\$90.00	\$99.00
RA-PACK-005	<b>Agricultural Reams Subsoil</b> Includes pH and EC (1:5 water); Chloride Estimate; Available Nitrate, Ammonium, Phosphate, Sulfur, Potassium, Calcium, Magnesium, Basic Colour, Basic Texture.	\$55.00	\$60.50
SS-PACK-052	<b>Deep Soil Nitrogen</b> Includes KCl extractable Nitrate and Ammonium.	\$25.00	\$27.50
NT-PACK-005	<b>Mehlich III Basic</b> Includes pH and EC (1:5 water); Chloride Estimate, Extractable Mehlich III Phosphorus, Sodium, Potassium, Calcium, Magnesium, Cation Exchange Capacity, Exchangeable Sodium Percentage.	\$55.00	\$60.50

# Environmental Analysis Laboratory Price List - Edition: 16.1.1

All packs have preparation and digest/extract charge included

ITEM CODE	AGRICULTURAL SOIL (PACKS) (CONT.)	PRICE excl. GST	PRICE incl. GST
NT-PACK-001	<b>Mehlich III Standard</b> Includes pH and EC (1:5 water); Available Calcium, Magnesium, Potassium, Ammonium, Nitrate, Phosphate, Sulfur; Mehlich III Extractable Sodium, Potassium, Calcium, Magnesium, Hydrogen/Aluminium (calculation) Cation Exchange Capacity; Mehlich III Extractable Phosphorus, Bray II Phosphorus; Total Nitrogen (TN), Total Carbon (TC), Organic Matter; Available Micronutrients Iron, Copper, Zinc, Manganese; Silicon; Boron; Paramagnetism; Basic Colour and Basic Texture.	\$100.00	\$110.00
NT-PACK-002	<b>Mehlich III Standard plus Nutri-Tech Report</b> Includes pH and EC (1:5 water); Available Calcium, Magnesium, Potassium, Ammonium, Nitrate, Phosphate, Sulfur; Mehlich III Extractable Sodium, Potassium, Calcium, Magnesium, Hydrogen/Aluminium (calculation) Cation Exchange Capacity; Mehlich III Extractable Phosphorus, Bray II Phosphorus; Total Nitrogen (TN), Total Carbon (TC), Organic Matter; Available Micronutrients Iron, Copper, Zinc, Manganese; Silicon; Boron; Paramagnetism; Basic Colour and Basic Texture.; Nutri-Tech Report.	\$130.00	\$143.00
RA-PACK-007	<b>Reef Wise Pack</b> Includes Colwell Phosphorus, Phosphorus Buffer Index (PBI), BSES Extractable Phosphorus, Organic Carbon (Walkley Black).	\$60.00	\$66.00
RA-PACK-009	<b>Total Acid Extractable Cobalt, Molybdenum, Selenium</b>	\$30.00	\$33.00
RA-PACK-012	<b>Total Acid Extractable Cobalt, Molybdenum, Selenium, Phosphorus</b>	\$40.00	\$44.00
RA-PACK-008	<b>Total Acid Extractable Elements</b> Includes Sodium, Potassium, Calcium, Magnesium, Sulfur, Phosphorus, Silicon, Cobalt, Molybdenum, Selenium, Zinc, Manganese, Iron, Copper, Boron, Aluminium.	\$50.00	\$55.00

All packs have preparation and digest/extract charge included

ITEM CODE	BIOSOLIDS (PACKS)	PRICE excl. GST	PRICE incl. GST
BS-PACK-001	<b>Contaminated Grade Assessment</b> Includes Total Dry Solids Concentration, Metals Analysis (Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Zinc); Low Level (Organo-chlorines Pesticides (OC), Polychlorinated biphenyls (PCB)).	\$230.00	\$253.00
BS-PACK-004	<b>Enteric Viruses Determination</b> Includes Reovirus, Enterovirus, Adenovirus (viruses per 4 g).	\$420.00	\$462.00
BS-PACK-002	<b>Nutrient Determination</b> Includes Total Nitrogen (TN), Total Kjeldahl Nitrogen (TKN) (calculation), Ammonium, Nitrate.	\$60.00	\$66.00
BS-PACK-005	<b>SOUR Test</b> Includes Moisture, Volatile Solids Concentration, Specific Oxygen Uptake Rate (SOUR) with an incubation of 20oC.	\$100.00	\$110.00
BS-PACK-003	<b>Stabilisation Confirmation</b> Includes Moisture, Microbial Assessment (Helminth Ova, E.Coli, Faecal Coliforms, and Salmonella sp.), Volatile Solids Concentration, Specific Oxygen Uptake Rate (SOUR).	\$200.00	\$220.00

All packs have preparation and digest/extract charge included

ITEM CODE	CARBON (PACKS)	PRICE excl. GST	PRICE incl. GST
SS-PACK-020	<b>Carbon Stability</b> Includes Total Carbon (TC), Labile Carbon.	\$50.00	\$55.00
SS-PACK-011	<b>LECO - Total Carbon and Total Nitrogen</b> Includes Total Carbon (TC) and Total Nitrogen (TN), Carbon/Nitrogen Ratio.	\$25.00	\$27.50

# Environmental Analysis Laboratory Price List - Edition: 16.1.1

All packs have preparation and digest/extract charge included

ITEM CODE	CARBON (PACKS) (CONT.)	PRICE excl. GST	PRICE incl. GST
SS-PACK-012	<b>LECO - Total Carbon, Total Nitrogen and Total Sulfur</b> Includes Total Carbon (TC) and Total Nitrogen (TN), Total Sulfur (TS), Carbon/Nitrogen Ratio.	\$35.00	\$38.50
SS-PACK-025	<b>Particulate and Humified Organic Carbon under 2011 CSIRO SCaRP Methodology</b> Includes Air drying at 40oC, 2mm Sieving, % of both fractions. Dispersion then sieving at 50uM. % solids recorded for both fractions. Ring mill grinding of both fractions. HCL- pretreatment (if required). Total Organic Carbon by LECO. As per 2011 SCaRP methodologies. Also TOC is calculated for <2mm fraction. Does not include assessment of resistant Organic Carbon (OC) by Nuclear Magnetic Resonance (NMR).	\$100.00	\$110.00
SS-PACK-024	<b>Total Organic Carbon (TOC) under 2011 CSIRO SCaRP Methodology</b> Includes Air drying at 40oC, 2mm Sieving, % of both fractions. Ring mill grinding <2mm fraction. HCL- pretreatment (if required). Total Organic Carbon by LECO. As per 2011 SCaRP methodologies.	\$40.00	\$44.00

ITEM CODE	COMPOST AND CONDITIONERS (PACKS)	PRICE excl. GST	PRICE incl. GST
CA-PACK-017	<b>Ammonium Acetate Extractable Macronutrients under AS3743</b> Includes Calcium, Magnesium, Sodium, Potassium, Phosphorus, Sulfur (1:1.5).	\$25.00	\$27.50
CA-PACK-001	<b>Compost Acid Extractable Nutrients</b> Includes Moisture, pH, EC; Total Nitrogen (TN), Total Carbon (TC); Sodium, Potassium, Calcium, Magnesium, Phosphorus, Sulfur, Silicon, Cobalt, Molybdenum, Zinc, Manganese, Iron, Copper, Boron.	\$100.00	\$110.00
CA-PACK-004	<b>Compost Available Nutrients (using soil methodology)</b> Includes Available (Calcium, Magnesium, Potassium, Ammonium, Nitrate, Phosphate, Sulfur); Exchangeable (Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Cation Exchange Capacity); Bray I and II Phosphorus; Colwell Phosphorus; Available Micronutrients (Zinc, Manganese, Iron, Copper, Boron, Silicon).	\$90.00	\$99.00
CA-PACK-011	<b>Compost plus Maturity Analysis under AS4454</b> Includes Moisture, pH, EC; Wettability; Total Nitrogen (TN), Total Organic Carbon (TOC), Carbon:Nitrogen; Nitrate, Ammonium, Phosphate, Ammonium:Nitrate; Particle Size > 5mm and < 16mm; Physical Contaminants - Glass, Metal, Rigid Plastics > 2mm, Light Plastics > 5mm, Stones and Clay > 5mm; Totals (Na, K, Ca, Mg, P, S, Fe, Mn, Zn, Cu, B, Hg, Pb, Ni, Cd, C, Se, As); Plant Propagules, Nitrogen Drawdown Index (NDI), Specific Oxygen Uptake Rate (SOUR), Bioassay, Low Level Pesticides (Organo-chlorines (OC), Polychlorinated Biphenyls (PCB)); Salmonella, Faecal Coliforms; Acid Neutralising Capacity (ANC) required if pH > 8.0. Note: 10 Litres of sample is required to complete testing.	\$600.00	\$660.00
CA-PACK-005	<b>Compost Soluble Nutrient Monitoring under AS4454</b> Includes Moisture, pH, EC; Nitrate, Ammonium, Phosphate, Ammonium:Nitrate.	\$60.00	\$66.00
CA-PACK-008	<b>Compost Water Soluble Nutrients</b> Includes Moisture; Nitrate, Ammonium; Chloride; Calcium, Magnesium, Sodium, Potassium, Phosphorus, Sulfur, Boron, Copper, Iron, Manganese, Zinc, Aluminium, Molybdenum and Cobalt.	\$90.00	\$99.00
CA-PACK-003	<b>Compost/ Mulch Analysis under AS4454</b> Includes Moisture, pH, EC; Wettability; Total Nitrogen (TN), Total Organic Carbon (TOC), Carbon:Nitrogen Ratio; Nitrate, Ammonium, Phosphate, Ammonium:Nitrate Ratio; Particle Size > 5mm and < 16mm; Physical Contaminants - Glass, Metal, Rigid Plastics > 2mm, Light Plastics > 5mm, Stones and Clay > 5mm; Totals (Na, K, Ca, Mg, P, S, Fe, Mn, Zn, Cu, B, Hg, Pb, Ni, Cd, C, Se, As); Plant Propagules, Low Level Pesticides (Organo-chlorines (OC), Polychlorinated Biphenyls (PCB)); Salmonella, Faecal Coliforms; Acid Neutralising Capacity (ANC) required if pH > 8.0. Note: 10 Litres of sample is required to complete testing.	\$450.00	\$495.00



## Environmental Analysis Laboratory Price List - Edition: 16.1.1

ITEM CODE	COMPOST AND CONDITIONERS (PACKS) (CONT.)	PRICE excl. GST	PRICE incl. GST
CA-PACK-018	<b>DTPA Extractable Micronutrients under AS3743</b> Includes Iron, Copper, Zinc, Manganese (1:1.5).	\$25.00	\$27.50
CA-PACK-013	<b>LECO - Total Carbon, Total Nitrogen under AS4454/AS3743/AS4419</b> Includes Total Carbon (TC) and Total Nitrogen (TN), Carbon/Nitrogen Ratio.	\$25.00	\$27.50
CA-PACK-012	<b>Maturity Analysis under AS4454</b> Includes Moisture; Ammonium, Nitrate, Ammonium:Nitrate Ratio, Plant Propagules, Nitrogen Drawdown Index (NDI), Specific Oxygen Uptake Rate (SOUR), Bioassay; Salmonella, Faecal Coliforms. Note: 5 Litres of sample is required to complete testing.	\$300.00	\$330.00
CA-PACK-015	<b>Nutrients - Water Extractable under AS3743</b> Includes Nitrate, Ammonium (1:1.5 H2O).	\$40.00	\$44.00
CA-PACK-014	<b>Nutrients - Water Extractable under AS4454/AS4419</b> Includes Moisture, Nitrate, Phosphate, Ammonium (1:5 H2O).	\$50.00	\$55.00
CA-PACK-016	<b>pH and EC under AS3743</b> Includes pH and EC (1:1.5 water).	\$30.00	\$33.00
CA-PACK-010	<b>pH and EC under AS4454/AS4419</b> Includes moisture, pH and EC (1:5 water).	\$40.00	\$44.00
CA-PACK-007	<b>Potting Mix and Growing Media - Premium under AS3743</b> Includes pH, EC, Chloride, Sodium, Calcium, Magnesium, Potassium, Phosphate, Nitrate, Ammonium, Sulfate, Iron, Copper, Manganese, Zinc, Boron, Air-Filled Porosity (AFP), Water Holding Capacity (WHC), Wettability, Plant Growth Bioassay (Toxicity Index), Nitrogen Drawdown Index (NDI). Note: 10 Litres of sample is required to complete testing.	\$300.00	\$330.00
CA-PACK-006	<b>Potting Mix and Growing Media - Regular under AS3743</b> Includes pH, EC, Chloride, Sodium, Calcium, Magnesium, Potassium, Ammonium, Iron, Copper, Manganese, Zinc, Boron, Air-Filled Porosity (AFP), Water Holding Capacity (WHC), Wettability, Plant Growth Bioassay (Toxicity Index), Nitrogen Drawdown Index (NDI). Note: 10 Litres of sample is required to complete testing.	\$275.00	\$302.50
SS-PACK-035	<b>SOUR Test</b> Includes Moisture, Volatile Solids Concentration, Specific Oxygen Uptake Rate (SOUR) with an incubation of 20oC.	\$100.00	\$110.00

All packs have preparation and digest/extract charge included

ITEM CODE	CONTAMINATION (PACKS)	PRICE excl. GST	PRICE incl. GST
SS-PACK-005	<b>Contaminated Site Assessment 1a</b> Includes Basic Texture; Copper, Lead, Cadmium, Zinc, Arsenic, Selenium, Iron, Manganese, Silver, Chromium, Nickel, Aluminium, Mercury, Boron, Cobalt, Beryllium; Pesticides (Organo-chlorines (OC), Organo-phosphates (OP)).	\$130.00	\$143.00
SS-PACK-006	<b>Contaminated Site Assessment 1b</b> Includes Basic Texture; Copper, Lead, Cadmium, Zinc, Arsenic, Selenium, Iron, Manganese, Silver, Chromium, Nickel, Aluminium, Mercury, Boron, Cobalt, Beryllium; Pesticides (Organo-chlorines (OC), Organo-phosphates (OP), Polychlorinated Biphenyls (PCB)).	\$150.00	\$165.00
SS-PACK-007	<b>Contaminated Site Assessment 2</b> Includes Basic Texture; Arsenic, Lead; Pesticides (Organo-chlorines (OC), Organo-phosphates (OP)).	\$100.00	\$110.00
SS-PACK-008	<b>Contaminated Site Assessment 3</b> Includes Basic Texture; Copper, Lead, Cadmium, Zinc, Arsenic, Selenium, Iron, Manganese, Silver, Chromium, Nickel, Aluminium, Mercury, Boron, Cobalt, Beryllium; Pesticides (Organo-chlorines (OC)).	\$120.00	\$132.00

# Environmental Analysis Laboratory Price List - Edition: 16.1.1

All packs have preparation and digest/extract charge included

ITEM CODE	CONTAMINATION (PACKS) (CONT.)	PRICE excl. GST	PRICE incl. GST
SS-PACK-051	<b>Excavated Natural Material (ENM) Classification 2013</b> Includes pH, EC (water 1:5); Foreign Material; Copper, Lead, Cadmium, Zinc, Arsenic, Chromium, Nickel, Mercury; Polycyclic Aromatic Hydrocarbons (PAH); Total Petroleum Hydrocarbons (C10-C36), BTEX (C6-C9).	\$260.00	\$286.00
SS-PACK-042	<b>Health Investigation Level (HIL) Soil Assessment</b> Includes Copper, Lead, Cadmium, Zinc, Arsenic, Chromium, Nickel, Mercury, Beryllium, Boron, Cobalt; Polycyclic Aromatic Hydrocarbons (PAH), Total Petroleum Hydrocarbons (TPH), BTEX Hydrocarbons; Pesticides (Organo-chlorines (OC)); Total Phenols; Total Cyanide.	\$350.00	\$385.00
SS-PACK-013	<b>Pesticide Screen 1a</b> Includes Organo-chlorines (OC), Organo-phosphates (OP).	\$80.00	\$88.00
SS-PACK-014	<b>Pesticide Screen 1b</b> Includes Organo-chlorines (OC), Organo-phosphates (OP), Polychlorinated Biphenyls (PCB).	\$100.00	\$110.00
SS-PACK-055	<b>Pesticide Screen 2a - Low Level</b> Includes Low Level Pesticide Analysis: Organo-chlorines (OC) and Polychlorinated Biphenyls (PCB).	\$120.00	\$132.00
SS-PACK-056	<b>Pesticide Screen 2b - Low Level</b> Includes Low Level Pesticide Analysis: Organo-chlorines (OC), Organo-phosphates (OP), Polychlorinated Biphenyls (PCB).	\$130.00	\$143.00
SS-PACK-017	<b>Petroleum Compounds Assessment 1a</b> Includes Total Petroleum Hydrocarbons (TPHC10-C36), BTEX (equivalent to TPHC6- C9).	\$90.00	\$99.00
SS-PACK-018	<b>Petroleum Compounds Assessment 1b</b> Includes Total Petroleum Hydrocarbons (TPHC10-C36), BTEX (equivalent to TPHC6- C9), Speciated Total Petroleum Hydrocarbons (aromatic and aliphatic).	\$280.00	\$308.00
SS-PACK-023	<b>Recovered Aggregate Exemption 2010</b> Includes EC; Mercury, Cadmium, Lead, Arsenic, Chromium, Copper, Nickel, Zinc; Fraction % (metal, plaster, rubber, plastic, paper, cloth, paint, wood, other vegetable matter).	\$110.00	\$121.00

All samples incur a fertiliser handling charge (SS-PREP-014)

ITEM CODE	FERTILISER (PACKS)	PRICE excl. GST	PRICE incl. GST
FA-PACK-001	<b>Fertiliser Analysis - Total Acid Extractable Nutrients</b> Includes Moisture, pH, EC, Total Nitrogen (TN), Total Carbon (TC); Sodium, Potassium, Calcium, Magnesium, Phosphorus, Sulfur, Silicon, Cobalt, Molybdenum, Zinc, Manganese, Iron, Copper, Boron.	\$120.00	\$132.00
FA-PACK-005	<b>Fertiliser Soluble Phosphorus</b> Includes Total Soluble Phosphorus, Water Soluble Phosphorus, 2 % Citrate Soluble Phosphorus.	\$70.00	\$77.00
SS-PACK-048	<b>Gypsum Assessment</b> Includes Calcium, Magnesium and Sulfate.	\$50.00	\$55.00
SS-PACK-049	<b>Lime Assessment</b> Includes Calcium, Magnesium, neutralising value and acid neutralising capacity (ANC).	\$60.00	\$66.00

All packs have preparation and digest/extract charge included

ITEM CODE	PLANT, LEAF AND CUTICLE (PACKS)	PRICE excl. GST	PRICE incl. GST
PA-PACK-001	<b>Plant Testing</b> Includes Total Nitrogen (TN), Total Carbon (TC), Total Sulfur (TS); Sodium, Potassium, Calcium, Magnesium, Phosphorus, Silicon, Cobalt, Molybdenum, Zinc, Manganese, Iron, Copper, Boron.	\$50.00	\$55.00

# Environmental Analysis Laboratory Price List - Edition: 16.1.1

All packs have preparation and digest/extract charge included

ITEM CODE	PLANT, LEAF AND CUTICLE (PACKS) (CONT.)	PRICE excl. GST	PRICE incl. GST
PA-PACK-004	<b>Plant Testing with Leaf Washing</b> Includes Total Nitrogen (TN), Total Carbon (TC), Total Sulfur (TS); Sodium, Potassium, Calcium, Magnesium, Phosphorus, Silicon, Cobalt, Molybdenum, Zinc, Manganese, Iron, Copper, Boron, Leaf Washing.	\$55.00	\$60.50
PA-PACK-002	<b>Plant Testing with Report</b> Includes Total Nitrogen (TN), Total Carbon (TC), Total Sulfur (TS); Sodium, Potassium, Calcium, Magnesium, Phosphorus, Silicon, Cobalt, Molybdenum, Zinc, Manganese, Iron, Copper, Boron; Fertility Report.	\$85.00	\$93.50
NP-PACK-001	<b>Plant Therapy Analysis with Nutri-Tech Report</b> Includes Total Nitrogen (TN), Total Carbon (TC), Total Sulfur (TS); Sodium, Potassium, Calcium, Magnesium, Phosphorus, Silicon, Cobalt, Molybdenum, Zinc, Manganese, Iron, Copper, Boron; Nutri-Tech Report.	\$55.00	\$60.50
PA-PACK-006	<b>Routine Sap Analysis</b> Includes pH, EC, Moisture, Brix; Nitrate, Ammonium; Chloride; Calcium, Magnesium, Sodium, Potassium, Phosphorus, Sulfur, Boron, Copper, Iron, Manganese, Zinc, Aluminium, Molybdenum and Cobalt. Data Only (no interpretation).	\$62.00	\$68.20
PA-PACK-005	<b>Soluble Nitrogen Testing</b> Includes Nitrate and Ammonium.	\$25.00	\$27.50

All packs have preparation and digest/extract charge included

ITEM CODE	METALS AND SALTS (PACKS)	PRICE excl. GST	PRICE incl. GST
SS-PACK-004	<b>Basic Metals Scan - Total Acid Extractable (ICPMS)</b> Includes Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver and Zinc.	\$70.00	\$77.00
SS-PACK-043	<b>Extra Metals Scan - Total Acid Extractable (ICPMS)</b> Includes Antimony, Barium, Beryllium, Bismuth, Boron, Cobalt, Lithium, Molybdenum, Silicon, Strontium, Thallium, Thorium, Uranium and Vanadium.	\$70.00	\$77.00
SS-PACK-044	<b>Salts Scan - Total Acid Extractable (ICPMS)</b> Includes Calcium, Magnesium, Potassium, Sodium and Sulfur.	\$55.00	\$60.50
SS-PACK-046	<b>Special - Metals and Salts Combo - Total Acid Extractable (ICPMS)</b> Includes Basic (Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver and Zinc); Extra (Antimony, Barium, Beryllium, Bismuth, Boron, Cobalt, Lithium, Molybdenum, Silicon, Strontium, Thallium, Thorium, Uranium and Vanadium) and Salts ( Calcium, Magnesium, Potassium, Sodium and Sulfur).	\$170.00	\$187.00
SS-PACK-031	<b>Specific - Rare Earth - Total Acid Extractable (ICPMS)</b> Includes Cerium, Dysprosium, Erbium, Europium, Gadolinium, Holmium, Lanthanum, Lutetium, Neodymium, Praseodymium, Samarium, Scandium, Terbium, Thorium, Thulium, Uranium, Ytterbium and Yttrium.	\$95.00	\$104.50
SS-PACK-032	<b>Specific - TCLP Extractable (ICPMS)</b> Includes Copper, Lead, Cadmium, Zinc, Arsenic, Selenium, Iron, Manganese, Silver, Chromium, Nickel, Aluminium, Mercury.	\$90.00	\$99.00
SS-PACK-045	<b>Total Acid Extractable - Heavy Metals (ICPMS)</b> Includes Lead, Cadmium, Arsenic, Nickel, Aluminium, Mercury, Chromium, Silver, Selenium.	\$50.00	\$55.00

All packs have preparation and digest/extract charge included

ITEM CODE	GENERAL (PACKS)	PRICE excl. GST	PRICE incl. GST
SS-PACK-015	<b>Aggressivity Assessment</b> Includes moisture, basic texture, pH, EC, Resistivity (calculation), Soluble Chloride, Sulfate.	\$70.00	\$77.00

# Environmental Analysis Laboratory Price List - Edition: 16.1.1

All packs have preparation and digest/extract charge included

ITEM CODE	GENERAL (PACKS) (CONT.)	PRICE excl. GST	PRICE incl. GST
SS-PACK-054	<b>Chip Tray Incubation</b> Includes pH and description before and after 8 weeks incubation.	\$20.00	\$22.00
SS-PACK-053	<b>Concrete Quality Analysis</b> Includes Chloride and Sulfate.	\$80.00	\$88.00
SS-PACK-034	<b>DTPA Extractable Micronutrients</b> Includes Iron, Copper, Zinc, Manganese.	\$40.00	\$44.00
SS-PACK-028	<b>Exchangeable Acidity - 1M KCl - (15G1)</b> Includes Exchangeable Aluminium, Hydrogen.	\$20.00	\$22.00
SS-PACK-061	<b>Exchangeable Cations - (Silver Thiourea Method)</b> Includes Extractable Sodium, Potassium, Calcium, Magnesium, Exchangeable Sodium Percentage, Cation Exchange Capacity.	\$40.00	\$44.00
SS-PACK-029	<b>Exchangeable Cations - 1M NH<sub>4</sub>Cl - (15A3) - Adjusted for Soluble Sodium at &gt; 0.3 g</b> Includes Extractable Sodium, Potassium, Calcium, Magnesium, Exchangeable Sodium Percentage, Cation Exchange Capacity, Chloride Estimate.	\$55.00	\$60.50
SS-PACK-026	<b>Exchangeable Cations - 1M NH<sub>4</sub>OAc - (15D1) - Pretreatment</b> Includes Extractable Sodium, Potassium, Calcium, Magnesium, Exchangeable Sodium Percentage, Cation Exchange Capacity. Includes pretreatment.	\$50.00	\$55.00
SS-PACK-027	<b>Exchangeable Cations - Alcoholic 1M NH<sub>4</sub>Cl - (15C1)</b> Includes Extractable Sodium, Potassium, Calcium, Magnesium, Exchangeable Sodium Percentage, Cation Exchange Capacity. Includes column pretreatment.	\$70.00	\$77.00
SS-PACK-041	<b>Exchangeable Cations - Ammonium Acetate - (15D3) No Pretreatment</b> Includes Extractable Sodium, Potassium, Calcium, Magnesium, Exchangeable Sodium Percentage, Cation Exchange Capacity.	\$40.00	\$44.00
SS-PACK-001	<b>Exchangeable Cations - Ammonium Acetate - (15D3) No Pretreatment plus Acidity</b> Includes Extractable Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Exchangeable Sodium Percentage, Cation Exchange Capacity.	\$50.00	\$55.00
SS-PACK-050	<b>Hair Tissue Mineral Analysis (HTMA)</b> Includes Antimony, Aluminium, Arsenic, Barium, Beryllium, Bismuth, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Sulfur, Thallium, Thorium, Uranium, Vanadium and Zinc. Data only (no interpretation), Nitric Acid digest, minimum of 0.5g of hair required which is equivalent to one heaped tablespoon. Collect from nape as close as possible to scalp as this reflects new growth. Provide sample double bagged to avoid contamination when opened at the laboratory.	\$80.00	\$88.00
SS-PACK-011	<b>LECO - Total Carbon and Total Nitrogen</b> Includes Total Carbon (TC) and Total Nitrogen (TN), Carbon/Nitrogen Ratio.	\$25.00	\$27.50
SS-PACK-012	<b>LECO - Total Carbon, Total Nitrogen and Total Sulfur</b> Includes Total Carbon (TC) and Total Nitrogen (TN), Total Sulfur (TS), Carbon/Nitrogen Ratio.	\$35.00	\$38.50
SS-PACK-057	<b>Low Density/Organic Soil Test under AS4419-2003</b> Includes Moisture, pH, EC; Wettability; Bulk Density; Nitrogen Drawdown Index (NDI); Toxicity; Permeability; Organic Matter; Ammonium, Phosphate; Large Particles; Heavy Metals (Zinc, Copper, Mercury, Lead, Nickel, Cadmium, Chromium, Selenium, Arsenic); Low Level Pesticides (Organo-chlorines (OC), Polychlorinated Biphenyls (PCB)). Note: 3 Litres of sample is required to complete testing.	\$450.00	\$495.00
SS-PACK-037	<b>Mehlich III - Exchangeable Cations and Micronutrients</b> Includes Mehlich III Extractable Sodium, Potassium, Calcium, Magnesium, Phosphorus, Sulfur, Aluminium, Iron, Copper, Zinc, Manganese, Boron.	\$60.00	\$66.00
SS-PACK-036	<b>Mehlich III Exchangeable Cations</b> Includes Mehlich III Extractable Sodium, Potassium, Calcium, Magnesium, Phosphorus.	\$40.00	\$44.00

# Environmental Analysis Laboratory Price List - Edition: 16.1.1

All packs have preparation and digest/extract charge included

ITEM CODE	GENERAL (PACKS) (CONT.)	PRICE excl. GST	PRICE incl. GST
SS-PACK-038	<b>Micro-nutrient Extract by CaCl<sub>2</sub></b> Includes Plant available Boron, Silica.	\$20.00	\$22.00
SS-PACK-062	<b>MRTS16 - Form C Topsoil Testing</b> Includes Bulk Density; Organic Matter; Wettability; pH & EC (H <sub>2</sub> O, 1:5); Texture; Permeability; Extr. (Phosphorus, Sulfur); Soluble Chloride; Large Particles; Exch. (Calcium, Magnesium, Sodium, Potassium, Aluminium, ECEC, Calcium:Magnesium Ratio); Dispersion (Emerson Class); Water Repellence Class; Slaking Class; Clouding (Dispersion) Class; Plant Propagules (Imported Topsoil Only). Note: 5 Litres of sample is required to complete testing.	\$300.00	\$330.00
SS-PACK-063	<b>MRTS16 - Form E Subsoil Testing</b> Includes Wettability; pH & EC (H <sub>2</sub> O, 1:5); Texture; Extr. (Sulfur); Soluble Chloride; Exch. (Calcium, Magnesium, Sodium, Potassium, Aluminium, ECEC, Calcium:Magnesium Ratio); Water Repellence Class; Slaking Class; Clouding (Dispersion) Class. Note: 2 Litres of sample is required to complete testing.	\$180.00	\$198.00
SS-PACK-058	<b>Natural/Soil Blend Soil Test under AS4419-2003</b> Includes Moisture, pH, EC; Texture; Wettability; Bulk Density; Nitrogen Drawdown Index (NDI); Toxicity; Permeability; Dispersibility; Organic Matter; Phosphate; Large Particles; Heavy Metals (Zinc, Copper, Mercury, Lead, Nickel, Cadmium, Chromium, Selenium, Arsenic); Low Level Pesticides (Organo-chlorines (OC), Polychlorinated Biphenyls (PCB)). Note: 5 Litres of sample is required to complete testing.	\$480.00	\$528.00
SS-PACK-019	<b>Nutrients - KCl Extractable</b> Includes Nitrate, Phosphate, Ammonium.	\$50.00	\$55.00
SS-PACK-033	<b>Nutrients - Water Extractable</b> Includes Nitrate, Phosphate, Ammonium.	\$50.00	\$55.00
SS-PACK-059	<b>Pathogens</b> Includes Ecoli, Faecal Coliforms, Salmonella.	\$100.00	\$110.00
SS-PACK-010	<b>pH and EC</b> Includes soil pH and EC (1:5 water).	\$25.00	\$27.50
SS-PACK-003	<b>Septic Disposal Soil Assessment</b> Includes moisture, pH(CaCl <sub>2</sub> ), EC, Total Dissolved Salts (TDS) (calculation); Exchangeable Sodium, Potassium, Calcium, Magnesium, Aluminium, Hydrogen, Exchangeable Sodium Percentage, Cation Exchange Capacity; Phosphorus Sorption Capacity; Modified Emerson Aggregate Test (MEAT).	\$160.00	\$176.00
SS-PACK-064	<b>Solids Testing relating to Hair Analysis</b> Includes Antimony, Aluminium, Arsenic, Barium, Beryllium, Bismuth, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Sulfur, Thallium, Thorium, Uranium, Vanadium and Zinc.	\$90.00	\$99.00
SS-PACK-035	<b>SOUR Test</b> Includes Moisture, Volatile Solids Concentration, Specific Oxygen Uptake Rate (SOUR) with an incubation of 20oC.	\$100.00	\$110.00

## SINGLES TESTING

ITEM CODE	PREPARATIONS (SINGLES)	PRICE excl. GST	PRICE incl. GST
SS-PREP-010	<b>Acid Sulfate Soil - Sample Preparation - Required for all samples.</b> Includes moisture content, texture for ASS triggers, drying and ring mill grinding. Required for ALL samples analysed on a dry weight basis. All prepared samples are held in long-term storage.	\$10.00	\$11.00
SS-PREP-014	<b>Fertiliser Handling Charge</b>	\$50.00	\$55.00
SS-PREP-002	<b>Hotblock Digest</b> Includes total Aqua-Regia or Nitric Acid digestion of solid samples.	\$10.00	\$11.00
SS-PREP-013	<b>International Quarantine Handling Charge</b>	\$40.00	\$44.00
SS-PREP-003	<b>Leaching</b> Includes 1:10 solid/water leaching with filtration.	\$6.00	\$6.60
SS-PREP-009	<b>Leaf Washing</b> Please advise with samples.	\$5.00	\$5.50
SS-PREP-008	<b>Microwave Digest</b>	\$15.00	\$16.50
SS-PREP-001	<b>Sample Preparation</b> Includes drying and ring mill grinding.	\$10.00	\$11.00
SS-PREP-012	<b>Sample Storage of Dry Sample</b> Includes drying, ring mill grinding then storage.	\$10.00	\$11.00
SS-PREP-004	<b>Soil Compositing</b> EAL can composite samples and store the individual samples for at least 2 months to allow for individual testing if required. Charge per individual sample used in the composite.	\$4.00	\$4.40
SS-PREP-005	<b>TCLP Extractions</b> Toxicity Characteristic Leaching Procedure.	\$45.00	\$49.50
SS-PREP-007	<b>TOTAL Dry Weight</b> Used for Bulk Density calculations	\$6.00	\$6.60

ITEM CODE	GENERAL (SINGLES)	PRICE excl. GST	PRICE incl. GST
SS-SING-120	<b>Air-filled Porosity (AFP) under AS3743</b> Note: 2 Litres of sample is required to complete testing.	\$25.00	\$27.50
SS-SING-149	<b>Arsenic - Total</b> Includes sample preparation / acid digest and analysis by ICPMS.	\$30.00	\$33.00
SS-SING-063	<b>Asbestos Identification (Not Quantifiable)</b> Identification in building material, soil, compost and dust.	\$70.00	\$77.00
SS-SING-161	<b>Asbestos Identification and Quantification in Soil</b> Identification and quantification in soil (using AS4964-2004 or WA/NEPM) (% ACM, % Friable).	\$80.00	\$88.00
SS-SING-021	<b>Ash Content by Combustion</b>	\$20.00	\$22.00
SS-SING-155	<b>Ash Content by Combustion - Routine and Acid Insoluble</b> Includes standard Ash content by combustion then treatment of filter with hydrochloric acid and re-ashing.	\$35.00	\$38.50
SS-SING-134	<b>Boron - CaCl Available</b>	\$16.00	\$17.60
SS-SING-160	<b>Brix Reading</b>	\$10.00	\$11.00
SS-SING-183	<b>Bulk Density under AS4419</b>	\$20.00	\$22.00
SS-SING-139	<b>Bulk density under AS4454/AS3743</b>	\$20.00	\$22.00
SS-SING-038	<b>Chloride - Soluble</b>	\$15.00	\$16.50

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ITEM CODE	GENERAL (SINGLES) (CONT.)	PRICE excl. GST	PRICE incl. GST
SS-SING-173	<b>Chloride (1:1.5 H<sub>2</sub>O) under AS3743</b> Includes soluble chloride.	\$30.00	\$33.00
SS-SING-172	<b>Chloride (1:5 H<sub>2</sub>O) under AS4454/AS4419</b> Includes moisture, soluble chloride.	\$30.00	\$33.00
SS-SING-162	<b>Chromium VI - Hexavalent</b>	\$36.00	\$39.60
SS-SING-129	<b>Colour - Basic</b>	\$5.00	\$5.50
SS-SING-127	<b>Contamination Foreign Material Fraction Percentage</b> Includes Fraction % (metal, plaster, rubber, plastic, paper, cloth, paint, wood, other vegetable matter).	\$30.00	\$33.00
SS-SING-153	<b>Cyanide - Free</b>	\$45.00	\$49.50
SS-SING-148	<b>Cyanide - Total</b>	\$60.00	\$66.00
SS-SING-167	<b>Dispersability under AS4419</b>	\$40.00	\$44.00
SS-SING-181	<b>EC (1:1.5 H<sub>2</sub>O) under AS3743</b> Includes EC (1:1.5 H <sub>2</sub> O).	\$14.00	\$15.40
SS-SING-064	<b>EC (1:5 H<sub>2</sub>O)</b>	\$12.50	\$13.75
SS-SING-180	<b>EC (1:5 H<sub>2</sub>O) under AS4454/AS4419</b> Includes moisture, EC (1:5 H <sub>2</sub> O).	\$24.00	\$26.40
SS-SING-025	<b>Emerson Aggregate (EAT)</b>	\$40.00	\$44.00
SS-SING-085	<b>Emerson Dispersion Index</b>	\$20.00	\$22.00
SS-SING-071	<b>Fertility Report - Independent Soil /Leaf Report Preparation</b>	\$30.00	\$33.00
SS-SING-067	<b>Fluoride - Extractable</b>	\$30.00	\$33.00
SS-SING-147	<b>Fluoride - Total by fusion</b>	\$70.00	\$77.00
SS-SING-130	<b>Germination Potential</b> Used on fresh soils and composts. Germination is observed over a two week period. Note: 2 Litres of sample is required to complete testing.	\$50.00	\$55.00
SS-SING-157	<b>Glyphosate (Round Up)</b>	\$220.00	\$242.00
SS-SING-011	<b>Grain Size Analysis 1a - Sieving</b> Wet or dry sieving for fractions >2mm, 1mm - 2mm, 500µm - 1mm, 250 - 500µm, 125 - 250µm, 63 - 125µm, <63µm	\$35.00	\$38.50
SS-SING-012	<b>Grain Size Analysis 1b - Hydrometer</b> Particle size of sediments and soils by hydrometer for fractions >2mm, > 50µm, > 20µm, 2 - 20µm, < 2micron.	\$60.00	\$66.00
SS-SING-022	<b>Iodine - NaOH Extraction</b>	\$70.00	\$77.00
SS-SING-150	<b>Lead - Total</b> Includes sample preparation / acid digest and analysis by ICPMS.	\$30.00	\$33.00
SS-SING-015	<b>Modified Emerson Aggregate (MEAT)</b>	\$40.00	\$44.00
SS-SING-001	<b>Moisture - (105oC Oven)</b>	\$10.00	\$11.00
SS-SING-013	<b>Moisture Curve - Moisture Holding Capacity</b> Requires field bulk density and includes Hydrometer Particle Size Analysis to produce a theoretical Soil Moisture Curve and results of Moisture Holding Capacity.	\$110.00	\$121.00
SS-SING-068	<b>Neutralising Value</b> Includes Acid Neutralising Capacity - Carbonate.	\$30.00	\$33.00
SS-SING-188	<b>Nitrogen Drawdown Index (NDI) under AS3743</b> Note: 3 Litres of sample is required to complete testing.	\$95.00	\$104.50
SS-SING-119	<b>Nitrogen Drawdown Index (NDI) under AS4454/AS4419</b> Note: 3 Litres of sample is required to complete testing.	\$95.00	\$104.50
SS-SING-138	<b>Organic Matter</b> Includes Total Organic Carbon and organic matter by calculation.	\$20.00	\$22.00

# Environmental Analysis Laboratory Price List - Edition: 16.1.1

ITEM CODE	GENERAL (SINGLES) (CONT.)	PRICE excl. GST	PRICE incl. GST
SS-SING-159	<b>Organotins (MBT, TBT, DBT)</b>	\$260.00	\$286.00
SS-SING-070	<b>Paint Analysis for Lead</b>	\$30.00	\$33.00
SS-SING-069	<b>Paramagnetism</b>	\$10.00	\$11.00
SS-SING-146	<b>Particle Size Analysis – Laser Mastersizer 2000</b> Includes dry or wet sieving at 1 and 2mm followed by peroxide and calgon treatment as required – laser particle size analysis full size range down to 0.1micron.	\$80.00	\$88.00
SS-SING-123	<b>Particle Size Grading under AS4454</b> Includes percentage mass retained on 5mm and 16mm sieve. Note: 5 Litres of sample is required to complete testing.	\$30.00	\$33.00
SS-SING-184	<b>Particles Size Grading - Large particles under AS4419</b> Includes percentage mass retained on 10mm, 20mm, 50mm and 75mm sieve. Note: 5 Litres of sample is required to complete testing.	\$40.00	\$44.00
SS-SING-156	<b>Permeability under AS4419</b>	\$95.00	\$104.50
SS-SING-179	<b>pH (1:1.5 H2O) under AS3743</b> Includes pH (1:1.5 H2O).	\$14.00	\$15.40
SS-SING-066	<b>pH (1:5 CaCl2)</b>	\$12.50	\$13.75
SS-SING-065	<b>pH (1:5 H2O)</b>	\$12.50	\$13.75
SS-SING-178	<b>pH (1:5 H2O) under AS4454/AS4419</b> Includes moisture, pH (1:5 H2O).	\$24.00	\$26.40
SS-SING-166	<b>Phoshate (1:1.5 H2O) under AS3743</b> Incudes extractable phosphate.	\$30.00	\$33.00
SS-SING-165	<b>Phoshate (1:5 H2O) under AS4454/AS4419</b> Incudes moisture, extractable phosphate.	\$30.00	\$33.00
SS-SING-145	<b>Plant Growth Test (Bioassay) - TMECC 05.05-B</b> In-vitro germination and root elongation. Note: 1L of sample is required to complete testing.	\$50.00	\$55.00
SS-SING-014	<b>Plant Growth Test (Bioassay) - Toxicity</b> Used on fresh soils and composts. Seedling emergence and relative root growth. Note: 1L of sample is required to complete testing.	\$50.00	\$55.00
SS-SING-190	<b>Plant Growth Test (Bioassay) under AS3743/AS4419</b> Used on fresh soils and composts. Seedling emergence and relative root growth. Note: 1L of sample is required to complete testing.	\$50.00	\$55.00
SS-SING-189	<b>Plant Growth Test (Bioassay) under AS4454</b> Used on fresh soils and composts. Seedling emergence and relative root growth. Note: 1L of sample is required to complete testing.	\$50.00	\$55.00
SS-SING-083	<b>Potassium - BSES Nitric</b>	\$22.50	\$24.75
SS-SING-076	<b>Potassium - Colwell</b>	\$15.00	\$16.50
SS-SING-136	<b>Protein (Crude)</b> Includes Total Nitrogen (TN) and Crude Protein (Calculation).	\$30.00	\$33.00
SS-SING-131	<b>Redox Potential</b>	\$12.00	\$13.20
SS-SING-028	<b>Scanning Electron Microscopy (SEM) - Base Price</b> Includes sample preparation and equipment setup. Analysis price dependant upon application.	\$200.00	\$220.00
SS-SING-080	<b>Silicon - BSES Acid Soluble</b>	\$22.00	\$24.20
SS-SING-078	<b>Silicon - BSES Available</b>	\$22.00	\$24.20
SS-SING-135	<b>Silicon - CaCl Available</b>	\$16.00	\$17.60
SS-SING-081	<b>Sulfur - KCl-40</b>	\$22.00	\$24.20
SS-SING-082	<b>Sulfur - MCP</b>	\$22.00	\$24.20
SS-SING-128	<b>Texture - Basic</b>	\$10.00	\$11.00



## Environmental Analysis Laboratory Price List - Edition: 16.1.1

ITEM CODE	GENERAL (SINGLES) (CONT.)	PRICE excl. GST	PRICE incl. GST
SS-SING-086	<b>Texture - Full (Isbell 2002)</b>	\$15.00	\$16.50
SS-SING-164	<b>Texture - Full under AS4419</b>	\$15.00	\$16.50
SS-SING-144	<b>Total Sulfur by LECO</b>	\$25.00	\$27.50
SS-SING-137	<b>Viable Plant Propagules under AS4454/AS3743</b> Note: 5 Litres of sample required to complete testing.	\$50.00	\$55.00
SS-SING-122	<b>Visual Contaminants under AS4454</b> Applies to composts from agricultural or source separated organics. Includes contamination with glass, metal, rigid plastics, stones, lumps of clay, light flexible, film plastics. Note: 5 Litres of sample is required to complete testing.	\$40.00	\$44.00
SS-SING-121	<b>Water Holding Capacity (WHC) under AS3743</b> Note: 2 Litres of sample is required to complete testing.	\$20.00	\$22.00
SS-SING-182	<b>Wettability under AS4419</b>	\$20.00	\$22.00
SS-SING-072	<b>Wettability under AS4454/AS3743</b>	\$20.00	\$22.00
SS-SING-010	<b>X-ray Diffraction Identification (XRD)</b> Includes identification of minerals and mineral assemblages. Price dependent upon application and sample amounts. Price does NOT include clay identification.	\$150.00	\$165.00
SS-SING-031	<b>X-ray Fluorescence (XRF)</b> Includes total elemental concentration of elements with atomic weight greater than Oxygen. Price dependent upon application and sample amounts. Price includes Total Carbon and Total Nitrogen by LECO.	\$90.00	\$99.00
SS-SING-079	<b>Zinc - BSES HCl</b>	\$17.50	\$19.25

All samples require Sample Preparation (SS-PREP-010) unless otherwise indicated

ITEM CODE	ACID SULFATE SOIL (SINGLES)	PRICE excl. GST	PRICE incl. GST
SS-SING-090	<b>Acid Neutralising Capacity (ANC)</b> Used to calculate net acidity where pHKCl > 6.5 and SCR < texture dependent trigger.	\$30.00	\$33.00
SS-SING-089	<b>Acid Volatile Sulfur (AVS)</b> All samples should be frozen on collection and transported on ice.	\$50.00	\$55.00
SS-SING-099	<b>Calcium - KCl Extractable</b> Calcium concentration after Titratable Actual Acidity (TAA) Analysis.	\$10.00	\$11.00
SS-SING-088	<b>Chromium Reducible Sulfur (CRS)</b> This method tests Reduced Inorganic Sulfur (SCR) and is not subject to interferences by sulfate minerals and organic matter.	\$50.00	\$55.00
SS-SING-092	<b>Excess Acid Neutralising Capacity (ANCe)</b> Excess Acid Neutralising Capacity (ANCe) for SPOCAS. If TPA pH > 6.5.	\$20.00	\$22.00
SS-SING-100	<b>Magnesium - KCl Extractable</b> Magnesium concentration after Titratable Actual Acidity (TAA) Analysis.	\$10.00	\$11.00
SS-SING-102	<b>Net Acid Generation</b> Used to determine the Net Acid Generation (NAG) of rocks.	\$40.00	\$44.00
SS-SING-163	<b>Oxidisable Sulfur according to AS4969.12</b>	\$50.00	\$55.00
SS-SING-101	<b>pH and Sulfate (1:1 extract)</b> Used for classification of soils as actual acid sulfate.	\$30.00	\$33.00
SS-SING-093	<b>Retained Acidity (SNAS)</b> Used where pHKCl < 4.5.	\$30.00	\$33.00
SS-SING-098	<b>Sulfur - KCl Extractable</b> Sulfur concentration after Titratable Actual Acidity (TAA) Analysis.	\$10.00	\$11.00
SS-SING-097	<b>TAA and SKCl</b> Titratable Actual Acidity (TAA) and SKCl concentration.	\$35.00	\$38.50

# Environmental Analysis Laboratory Price List - Edition: 16.1.1

All samples require Sample Preparation (SS-PREP-010) unless otherwise indicated

ITEM CODE	ACID SULFATE SOIL (SINGLES) (CONT.)	PRICE excl. GST	PRICE incl. GST
SS-SING-095	<b>Titrateable Actual Acidity (TAA)</b> Titrateable Actual Acidity (TAA) to pH 6.5; includes pHKCl.	\$30.00	\$33.00
SS-SING-094	<b>Titrateable Potential Acidity (TPA)</b> Titrateable Potential Acidity (TPA) to pH 6.5; includes pHox.	\$40.00	\$44.00
SS-SING-096	<b>Total Oxidisable Sulfur (TOS)</b> Analysis by combustion (LECO).	\$25.00	\$27.50

All samples require Sample Preparation (SS-PREP-001)

ITEM CODE	CARBON (SINGLES)	PRICE excl. GST	PRICE incl. GST
SS-SING-059	<b>Inorganic (Carbonate) Carbon by LECO</b> Includes Total Carbon (TC), Total Organic Carbon (TOC).	\$45.00	\$49.50
SS-SING-125	<b>Inorganic Carbon by Acid Neutralising Capacity (ANC)</b>	\$30.00	\$33.00
SS-SING-018	<b>Labile Carbon</b>	\$17.50	\$19.25
SS-SING-062	<b>Organic Carbon by Walkley Black</b>	\$30.00	\$33.00
SS-SING-177	<b>Organic Matter under AS4454/AS3743/AS4419</b> Includes moisture correction, Total Organic Carbon (TOC), Organic Matter by calculation.	\$25.00	\$27.50
SS-SING-175	<b>Total Carbon (LECO) under AS4454/AS3743/AS4419</b> Includes moisture correction, Total Carbon (TC).	\$20.00	\$22.00
SS-SING-060	<b>Total Carbon by LECO</b>	\$20.00	\$22.00
SS-SING-176	<b>Total Organic Carbon (LECO) under AS4454/AS3743/AS4419</b> Includes moisture correction, Total Organic Carbon (TOC).	\$25.00	\$27.50
SS-SING-061	<b>Total Organic Carbon by LECO</b>	\$25.00	\$27.50

All samples require Sample Preparation (SS-PREP-001) and Acid Digest (SS-PREP-002)

ITEM CODE	METALS AND SALTS (SINGLES)	PRICE excl. GST	PRICE incl. GST
SS-SING-132	<b>General Metals - Total Acid Extractable ICPMS</b> Aluminium, Antimony, Arsenic, Barium, Beryllium, Bismuth, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silicon, Silver, Sodium, Strontium, Sulfur, Thallium, Thorium, Uranium, Vanadium or Zinc.	\$10.00	\$11.00
SS-SING-133	<b>Non-Standard Metals - Total Acid Extractable ICPMS</b> Cerium, Dysprosium, Erbium, Europium, Gadolinium, Gallium, Gold, Holmium, Lanthanum, Lutetium, Neodymium, Praseodymium, Rubidium, Samarium, Scandium, Terbium, Thulium, Tin, Titanium, Tungsten, Ytterbium or Yttrium.	\$15.00	\$16.50
SS-SING-024	<b>Specific Metals - TCLP Extractable ICPMS</b> Copper, Lead, Cadmium, Zinc, Arsenic, Iron, Manganese, Silver, Chromium, Nickel, Aluminium or Mercury.	\$15.00	\$16.50

ITEM CODE	MICROBIOLOGICAL (SINGLES)	PRICE excl. GST	PRICE incl. GST
SS-SING-047	<b>Aerobic Plate Count</b>	\$40.00	\$44.00
SS-SING-044	<b>E.Coli</b>	\$40.00	\$44.00
SS-SING-043	<b>Faecal Coliforms</b>	\$40.00	\$44.00
SS-SING-046	<b>Listeria</b>	\$40.00	\$44.00
SS-SING-154	<b>Phytophthora and Pythium</b>	\$220.00	\$242.00

# Environmental Analysis Laboratory Price List - Edition: 16.1.1

ITEM CODE	MICROBIOLOGICAL (SINGLES) (CONT.)	PRICE excl. GST	PRICE incl. GST
SS-SING-045	Salmonella	\$60.00	\$66.00

All samples require Sample Preparation (SS-PREP-001)

ITEM CODE	NITROGEN (SINGLES)	PRICE excl. GST	PRICE incl. GST
SS-SING-048	Ammonium	\$30.00	\$33.00
SS-SING-169	Ammonium (1:1.5 H <sub>2</sub> O) under AS3743 Includes extractable ammonium.	\$30.00	\$33.00
SS-SING-168	Ammonium (1:5 H <sub>2</sub> O) under AS4454/AS4419 Includes moisture, extractable ammonium.	\$30.00	\$33.00
SS-SING-049	Nitrate	\$30.00	\$33.00
SS-SING-171	Nitrate (1:1.5 H <sub>2</sub> O) under AS3743 Includes extractable nitrate.	\$30.00	\$33.00
SS-SING-170	Nitrate (1:5 H <sub>2</sub> O) under AS4454/AS4419 Includes moisture, extractable nitrate.	\$30.00	\$33.00
SS-SING-174	Total Nitrogen (LECO) under AS4454/AS3743/AS4419 Includes moisture correction, Total Nitrogen (TN).	\$20.00	\$22.00
SS-SING-050	Total Nitrogen by LECO	\$20.00	\$22.00

ITEM CODE	ORGANICS (SINGLES)	PRICE excl. GST	PRICE incl. GST
SS-SING-051	Hydrocarbons - BTEX - equivalent to TPH(C6-C9)	\$50.00	\$55.00
SS-SING-020	Hydrocarbons - Polycyclic Aromatic (PAH)	\$65.00	\$71.50
SS-SING-023	Hydrocarbons - Total Petroleum - Speciated Includes Speciated TPH (aromatic or aliphatic).	\$200.00	\$220.00
SS-SING-052	Hydrocarbons - Total Petroleum - TPH (C10-C36)	\$50.00	\$55.00
SS-SING-142	Phenol - Total	\$60.00	\$66.00
SS-SING-029	Phenolics - speciated phenols	\$90.00	\$99.00
SS-SING-126	Volatile Halogenated Compounds (VHC)	\$80.00	\$88.00
SS-SING-026	Volatile Organic Compounds (VOC)	\$115.00	\$126.50

ITEM CODE	PESTICIDES (SINGLES)	PRICE excl. GST	PRICE incl. GST
SS-SING-158	Herbicides Phenoxy Acid	\$200.00	\$220.00
SS-SING-053	Organo-chlorines (OC) (Detection Limit - 0.1 ppm)	\$65.00	\$71.50
SS-SING-056	Organo-chlorines (OC) - Low Level (Detection Limit - 0.01 ppm)	\$100.00	\$110.00
SS-SING-054	Organo-phosphates (OP) (Detection Limit - 0.1 ppm)	\$65.00	\$71.50
SS-SING-057	Organo-phosphates (OP) - Low Level (Detection Limit - 0.01 ppm)	\$100.00	\$110.00
SS-SING-055	Polychlorinated Biphenyls (PCB) (Detection Limit - 0.1 ppm)	\$65.00	\$71.50
SS-SING-058	Polychlorinated Biphenyls (PCB) - Low Level (Detection Limit - 0.01 ppm)	\$100.00	\$110.00
SS-SING-140	Synthetic Pyrethroids	\$120.00	\$132.00

All samples require Sample Preparation (SS-PREP-001)

ITEM CODE	PHOSPHORUS (SINGLES)	PRICE excl. GST	PRICE incl. GST
SS-SING-042	Phosphorus - Available by 1M KCl extract	\$22.00	\$24.20
SS-SING-041	Phosphorus - Available by Morgan extract	\$22.00	\$24.20

# Environmental Analysis Laboratory Price List - Edition: 16.1.1

All samples require Sample Preparation (SS-PREP-001)

ITEM CODE	PHOSPHORUS (SINGLES) (CONT.)	PRICE excl. GST	PRICE incl. GST
SS-SING-035	<b>Phosphorus - Bray 1</b> Plant available in acid soils	\$15.00	\$16.50
SS-SING-036	<b>Phosphorus - Bray 2</b> Plant available and acid soluble forms	\$15.00	\$16.50
SS-SING-040	<b>Phosphorus - BSES Acid Soluble</b>	\$15.00	\$16.50
SS-SING-033	<b>Phosphorus - Colwell</b> Measure quantity of phosphorus in alkaline soils	\$15.00	\$16.50
SS-SING-143	<b>Phosphorus - DGT</b>	\$25.00	\$27.50
SS-SING-034	<b>Phosphorus - Olsen</b> Measure intensity of phosphorus	\$15.00	\$16.50
SS-SING-032	<b>Phosphorus - Total Acid Extractable (includes prep)</b>	\$30.00	\$33.00
SS-SING-037	<b>Phosphorus Buffer Index (PBI)</b>	\$17.50	\$19.25
SS-SING-084	<b>Phosphorus Buffer Index (PBI) Colwell Corrected</b> Includes Phosphorus Buffer Index (PBI) and is corrected using Colwell Phosphorus.	\$30.00	\$33.00
SS-SING-087	<b>Phosphorus Sorption (as mg P/kg – basic as per PBI)</b>	\$22.00	\$24.20
SS-SING-039	<b>Phosphorus Sorption Capacity</b> Includes 1 day preliminary trial, 7 day sorption capacity trial (Ryden and Pratt, 1980), Insitu Phosphorous, and calculations.	\$80.00	\$88.00
SS-SING-191	<b>Phosphorus Sorption Curve for MEDLI</b> Modelling (5 concentrations of Phosphorus)	\$60.00	\$66.00

ITEM CODE	STABLE ISOTOPES (SINGLES)	PRICE excl. GST	PRICE incl. GST
SS-SING-118	<b>Biomarker and Specific Compounds</b> delta13C and delta15N analysis. Price dependent upon application and sample amounts.	\$0.00	\$0.00
SS-SING-116	<b>Carbon Dioxide</b> Without pre-concentration.	\$45.00	\$49.50
SS-SING-111	<b>Carbon Suite</b> T13C/T113C/DO13C in non-saline waters. Saline waters are quoted on request.	\$65.00	\$71.50
SS-SING-110	<b>Disolved Inorganic Carbon (DIC)/ Disolved Organic Carbon (DOC)</b> In non-saline waters.	\$50.00	\$55.00
SS-SING-114	<b>Dissolved Gas Analysis</b> N2/Ar non-isotope ratio measurement.	\$40.00	\$44.00
SS-SING-112	<b>Dissolved Nitrogen</b> Dissolved N2 - ratio masses 29/28 and 30/28.	\$75.00	\$82.50
SS-SING-113	<b>Dissolved Nitrous Oxide</b>	\$125.00	\$137.50
SS-SING-105	<b>Dual Analysis of Carbon and Nitrogen</b> delta13C/ delta15N (dual analysis) including %C and %N. Charge includes acidification and sample preparation.	\$50.00	\$55.00
SS-SING-108	<b>Filters delta13C / delta15N</b> Filters delta13C/delta15N (25 mm or smaller GFF quartz preferred) (charge per analyte, sample preparation included).	\$65.00	\$71.50
SS-SING-115	<b>Hydrocarbons</b> Hydrocarbons (C1-C5). Cost per analyte.	\$40.00	\$44.00
SS-SING-117	<b>Nitrogen Gas</b> Without pre-concentration.	\$45.00	\$49.50

## Environmental Analysis Laboratory Price List - Edition: 16.1.1

ITEM CODE	STABLE ISOTOPES (SINGLES) (CONT.)	PRICE excl. GST	PRICE incl. GST
SS-SING-103	<b>Solid Phase Carbon</b> delta13C including %C of solid phase samples (un-acidified).	\$40.00	\$44.00
SS-SING-104	<b>Solid Phase Nitrogen</b> delta15N including %N of solid phase samples.	\$40.00	\$44.00
SS-SING-109	<b>Total Inorganic Carbon (TIC)/ Total Organic Carbon (TOC)</b> In non-saline waters.	\$50.00	\$55.00



**NATA ACCREDITED TESTS**  
(Lab Acc. No. 14960)

ID	Tests	Reference	Issue Date
S1	Soil pH and Conductivity	In-house (re Rayment & Lyons 3A1,4A1)	Jul, 2003
S4a	Total C, N, S by Dumas	In-house	Sep, 2013
S14	Acid Neutralising Capacity	In-house (re QASSIT Manual 19A2)	May, 2005
S15b	Total Organic Carbon in Soil by Dumas	In-house	Sep, 2013
S16-B	Titrateable Actual Acidity	In-house (re QASSIT Manual 23)	May, 2005
S20	Chromium Reducible Sulfur	In-house (re QASSIT Manual 22B)	May, 2005
S21	Acid Sulfate Peroxide Screening	In-house	May, 2005
S38	Lead in Paint	In-house	Sep, 2011
W1	Turbidity	In-house	Sep, 2011
W4	Total N/Total P (Lachat)	In-house (re APHA 4500 P-H N-C)	Mar, 2000
W6	Nitrite in Waters (Lachat)	APHA 4500 NO3-I	Jul, 2003
W7	Nitrate in Waters (Lachat)	APHA 4500 NO3-F	Jul, 2003
W8	Ortho-Phosphate in Waters (Lachat)	APHA 4500 P-G	Jun, 2003
W9	Ammonia in Waters (Lachat)	APHA 4500 NH3-H	Jul, 2003
W25	Total Suspended Solids	APHA 2540-D	Jul, 2003
W26	BOD in Waters & Wastewaters	APHA 5210-B	Jul, 2003
W28a	Total Oils & Grease Automated	APHA 5520-D	Jan, 2003
W31	Water pH & Conductivity	APHA 4500-H & 2510-B	Jun, 2003
W32	ICPMS Metals Analysis in Soils & Waters (Al,Sb,As,Ba,Be,Bi,B,Cd,Ca,Cr,Co,Cu,Fe,Pb,Li,Mg, Mn,Hg,Mo,Ni,P,K,Se,Ag,Na,Sr,S,Tl,Th,Sn,U,V,Zn)	In-house (re APHA 3125)	Sep, 2011
W32a	Trace Metals in Saline Water	In-house (re APHA 3125)	Aug, 2013
W33	Soluble Chloride as Chloride in Waters	In-house (by ICPMS)	Oct, 2013



**ASPAC TESTS**  
(for Plant and Soil)

Tests	Reference
Soil pH	Rayment & Lyons 4A1, 4B1, 4B2
Soil Conductivity	Rayment & Lyons 3A1
Bray 1, Colwell, Olsen Phosphorus	Rayment & Lyons 9E2, 9B2, 9C2
Total Phosphorus	Rayment & Lyons 17C1
Exchangeable Cations - Ca,Mg,K,Na	Rayment & Lyons 15D3
Exchangeable Cations - H,Al	Rayment & Lyons 15G1
DTPA - Fe,Cu,Zn,Mn	Rayment & Lyons 12A1
Total Carbon and Nitrogen	Rayment & Lyons 6B2b, 7A5
Nitrate/Ammonium	Rayment & Lyons 7C2
Soluble Chloride	Rayment & Lyons 5A2
Extractable Boron	Rayment & Lyons 12C2
Extractable Sulfur	Rayment & Lyons 10D1
Phosphorus Buffer Index	Rayment & Lyons 9I2b
Ca,Mg,K,Na,Fe,Cu,Zn,Mn,P,S,Al,B	Rayment & Lyons 18F1
Soluble Chloride	ASPAC Method Code BB-32
Ca,Mg,P,K,Na,Si,B,S	ASPAC Method Code AE-24
C,N,S	ASPAC Method Code CA-37
Cd,Co,Fe,Pb,Mn,Mo,Se,Zn	ASPAC Method Code AE-24

**Note: See EAL website under 'About' for current scope of accreditation for NATA and ASPAC**