

2nd September, 2020

To: Whom it may concern

RE: PROPOSED BIOCHAR ANALYTICAL SUITES

Please see below some current and proposed analytical biochar suites to cover the requirements of the new ANZBI Biochar Code of Practice 2020.

SS-PACK-111 Biochar Totals Analysis

Includes Moisture Content, Ash Content; pH, EC (1:10 water); Total Nitrogen (TN), Total Carbon (TC), Total Organic Carbon (TOC), TC/TN Ratio, Organic Matter; Total Sodium, Potassium, Calcium, Magnesium, Phosphorus, Sulfur, Silicon, Cobalt, Molybdenum, Zinc, Manganese, Iron, Copper, Boron; Heavy Metals Silver, Arsenic, Lead, Chromium, Nickel, Cadmium, Mercury; Acid Neutralising Capacity (ANC). Note: 200 g of sample is required to complete testing.

Price \$200.00+GST

SS-PACK-149 Biochar Ultimate Analysis

Includes molar ratio of hydrogen to organic carbon.

Price \$200.00+GST

SS-PACK-150 Biochar Density and Ashing

Includes moisture with % ash and volatiles.

Price \$70.00+GST

SS-PACK-151 Biochar PCB's (<0.2 ppm) and PAH's (<0.4 ppm)

Price \$110.00+GST

SS-PACK-152 Biochar Full VOC and SVOC Scan

Includes PAH's as part of scan.

Price \$260.00+GST

SS-PACK-153 Biochar Heavy Metals

Includes Pb, Cd, Hg, As, Cu, Ni, Zn and Cr.

Price \$60.00+GST

SS-PACK-154 Biochar Dioxin / Furans (<17 ng/kg)

Price \$950.00+GST

SS-PACK-155 Biochar Particle Size Analysis - Dry Sieving

Dry sieving for fractions > 2 mm, 1-2 mm, 500 µm-1 mm, 250-500 µm, 125-250 µm, 63-125 µm, < 63 µm.

Price \$50.00+GST

SS-PACK-156 Biochar Surface Area (Total and External)

Price \$200.00+GST

SS-PACK-157 Biochar Germination and Worm Avoidance Test

Price \$80.00+GST

SS-SING-027 Silica -Total

Includes specialised NaOH high temperature fusion extraction of silicon.

Price \$120.00+GST

SS-PACK-032 Specific - TCLP Extractable (ICPMS)

Includes Copper, Lead, Cadmium, Zinc, Arsenic, Selenium, Iron, Manganese, Silver, Chromium, Nickel, Aluminium, Mercury.

Price \$90.00+GST

SS-SING-162 Chromium VI - Hexavalent

Speciation by a screening colourimetric technique which may be subject to matrix interference. Refer to separate analysis codes for speciation using HPLC-ICPMS analysis.

Price \$36.00+GST

SS-PACK-019 Nutrients - KCl Extractable

Includes Nitrate, Ammonium, Phosphate.

Price \$50.00+GST

SS-PACK-135 CEC-compulsive (true) - Cation-Exchange Capacity of soils (Sodium Acetate)

Includes CEC using USEPA SW-846 test method 9081 after pre-treatment for soluble salts.

Price \$100.00+GST

SS-PACK-136 Exchangeable Cations – 15E1 - CEC & AEC (no pre-treatment)

Includes exchangeable Sodium, Potassium, Calcium, Magnesium, compulsive Cation Exchange Capacity (CEC) and Anion Exchange Capacity (AEC) with no pre-treatment for soluble salts.

Price \$150.00+GST

SS-PACK-137 Exchangeable Cations – 15E2 - CEC & AEC (with pre-treatment)

Includes exchangeable Sodium, Potassium, Calcium, Magnesium, compulsive Cation Exchange Capacity (CEC) and Anion Exchange Capacity (AEC) with pre-treatment for soluble salts.

Price \$160.00+GST

SS-SING-216 PFAS in solids – standard level 28 suite with detection 0.5 µg/kg

Includes the analysis of per- and poly-fluoroalkyl substances (PFAS) in solids.

Price \$170.00+GST

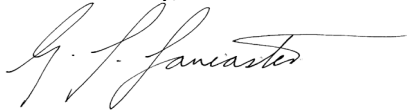
SS-PACK-143 Soil Testing for Biochar Application

Includes Moisture, pH, EC (1:5 water); Total Organic Carbon (TOC), Total Nitrogen (TN), TC/TN Ratio; Available Nitrogen (Nitrate); Soluble Chloride; Total Metals (Sb, As, Be, B, Cd, Co, Cu, Cr, Pb, Mn, Mo, Ni, Se, Sn, V, Zn, S, P, Hg); Soluble Cations (Ca, Mg, K, Na). Note: 300 g of sample is required to complete testing.

Price \$205.00+GST

Please contact the laboratory if you have any queries or feedback.

Yours faithfully,



Graham Lancaster,
Laboratory Manager