

Diagnostic Services

SportsTurf Consultants provides a comprehensive range of laboratory services, which are designed to meet the diverse requirements of the turf industry. These laboratory services can be used either to;

- solve specific turf problems before excessive damage to the turf surface occurs and costly remedial action needs to be undertaken
- or as part of a routine monitoring program of the turf environment to provide good healthy turf and to optimise all of the inputs needed to maintain turf.

Soil chemical analysis

- **pH and salts**
- **Basic Nutrients** (pH, salts, P, K, Ca, Mg, Na, CEC, Ca: Mg ratio, cation balances)
- **Full Nutrient Analysis** (as above + trace elements; S, Mn, Fe, Cu, Zn, B, Cl)
- **Full Nutrient (as above) plus Organic Content**



The image shows a circular inset of a 'SOIL ANALYSIS REPORT' form. The form has a header with the SportsTurf logo and contact information. Below the header is a grid with columns for various parameters such as pH, Salts, P, K, Ca, Mg, Na, CEC, and Organic Content. The grid contains numerical data and some cells are highlighted in green and pink.

Leaf tissue analysis

- **Complete Analysis** (total N, P, K, S, Ca, Mg, Na, Cl, Cu, Zn, Mn, Fe, B)

Water analysis

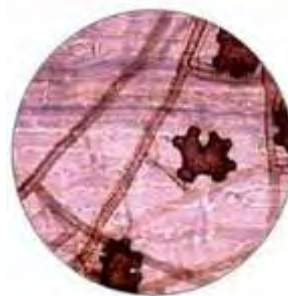
- **pH and salts**
- **Complete Analysis** (pH, salts, P, K, Ca, Mg, Na, CO₃, HCO₃, SO₄, Cl, Zn, Cu, Fe, Mn, B, SAR, hardness)

Soil physical analysis

- **Standard suitability** (pH, salts, particle distribution & drainage)
- **USGA suitability** (pH, salts, particle distribution, drainage, total porosity, aeration porosity, moisture content & bulk density)
- **Moisture Release Curve** (to determine optimum profile depth)
- **Bunker Sand Analysis** (pH, salts, particle distribution, drainage, angle repose, particle shape & ball penetration)
- **Cricket Wicket Analysis** (sand, silt, clay, cracking, shrinkage, pH & salts)

Biological Analysis

- **Disease, insect and weed identification with recommendations for control**
- **Nematode testing**



Other tests are available – contact us to discuss your requirements



Contact us for details



03 9574 9066

Sampling Instructions

It is vital that samples are taken correctly to ensure that the desired analysis proceeds accurately and without delay. Various tests require different types of samples:

- **pH, Salts and Nutrients:** Randomly collect 400g of cores to a depth of 75mm (3") at regular intervals over the whole area. One or two large cores are not adequate to give an accurate result.
- **Leaf Tissue:** Collect fresh clippings from the grass catcher (at least 500g) and place in a strong paper bag. Keep cool until dispatched.
- **Disease Assessment:** Take a sample 75-100mm (3-4") diameter and 50mm (2") deep from the edge of the damaged area. The sample should include affected and good turf. Wrap each sample tightly to prevent sand movement and clearly label. Refrigerate until dispatch by overnight post or Courier.
- **Nematode Assessment:** For sampling defined areas, collect 400g of small cores (75mm deep) from the edge of the affected areas to make one sample.

If the area tested is not well-defined, or if making a general check, take multiple cores from across affected areas to give a good representation of the nematode population across the area, not isolated populations.

Wrap each sample separately and clearly label. Refrigerate until dispatch by overnight post or Courier.

- **Water:** Prior to collecting sample allow the irrigation system or bore to run for 30 minutes. Collect the sample from the pump or sprinkler during operation. Rinse out a soft drink bottle and lid several times with the water to be tested. Fill the bottle completely and seal. Use tape around the cap to prevent leakage. At least 600ml is needed. Refrigerate until dispatch by overnight post or Courier.
- **Suitability Testing (includes drainage, particle distribution, porosity etc.):** Take 20-30 sub samples from around the heap (top, middle, inside). Combine into one sample & quarter if necessary to obtain the required size. Quartering involves spreading the mixed sample to an even depth, dividing into quarters, discarding two diagonal corners and re-mixing the remainder. If testing existing turf, take 15-20 large cores (2" plugs) from different locations within the sample area and combine to form one sample. Dispatch samples by normal post or Courier.

Sieve	300g	Moisture release	1kg
Drainage	1kg	Cricket Wicket	1.5kg
Suitability (pH, salt, sieve, drainage)	1kg	Bunker Test	2.5kg
USGA (pH, salts, sieve, drainage, porosity)	2kg		

Ensure all samples are well labelled with a waterproof marker and enclose submission sheet or an explanatory letter detailing sample location, situation, date taken, tests required, symptoms/problem and contact details.

**Send all samples to
Sportsturf Consultants 45 Westerfield Drive Notting Hill VIC 3168**

Servicing the Turf Industry

**Consultancy
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Specification & Supervision
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CAD Surveying**

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SportsTurf Consultants (Aust.) Pty Ltd

45 Westerfield Drive Notting Hill VIC 3168

Phone (03) 9574 9066 Fax (03) 9574 9072 email info@sportsturf.com.au



CHEMICAL ANALYSIS – Soil, Water & Leaf

Client / Club Name

Dealer (if applicable) Order Number

Contact Date

Phone Fax email

Sample Identification	Tests Required (use codes below)	Reason for Testing (eg. renovation, maintenance, problem solving etc.)

Any other information
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**Send all samples to
Sportsturf Consultants 45 Westerfield Drive Notting Hill VIC 3168**

Tests Available

(pH) pH and salts - soil

(B) Basic soil nutrients (pH, salts, P, K, Ca, Mg, Na, CEC, Ca: Mg ratio, cation balances)

(BT) Full soil nutrients (as above + trace elements (S, Mn, Fe, Cu, Zn, B, Cl))

(BTO) Full soil nutrients (as above) plus Organic Content

(pH) pH and salts - water

(W) Complete water (pH, salts, P, K, Ca, Mg, Na, CO₃, HCO₃, SO₄, Cl, Zn, Cu, Fe, Mn, B, SAR, & hardness)

(LT) Leaf tissue (Total N, P, K, S, Ca, Mg, Na, Cl, Cu, Zn, Mn, Fe, B)



SOIL PHYSICAL ANALYSIS

Client / Club Name

Dealer (if applicable)

Order Number

Contact

Date

Phone

Fax

email

Sample Identification	Tests Required (use codes below)	Reason for Testing (eg. construction, topdressing, problem solving etc.)

Any other information

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Send all samples to
Sportsturf Consultants 45 Westerfield Drive Notting Hill VIC 3168

Tests Available

(SS) Standard suitability (pH, salts, particle distribution & drainage)

(SU) USGA suitability (pH, salts, particle distribution, drainage, total & aeration porosity, moisture retention & bulk density)

(MR) Moisture Release Curve (to determine optimum profile depth)

(BS) Bunker Sand Analysis (pH, salts, particle distribution, drainage, angle of repose, particle shape & ball penetration)

(CW) Cricket Wicket Analysis (sand, silt, clay, cracking, shrinkage, pH & salts)

(pH) pH & salts

(D) Drainage

(PS) Particle size

SportsTurf Consultants (Aust.) Pty Ltd

45 Westerfield Drive Notting Hill VIC 3168 Phone (03) 9574 9066 Fax (03) 9574 9072
 www.sportsturf.com.au info@sportsturf.com.au



DISEASE & NEMATODE ANALYSIS

Client / Club Name

Dealer (if applicable)

Order Number

Contact

Date

Phone

Fax

email

TEST REQUIRED Nematode Analysis *number of samples*
 Disease Analysis *number of samples*

SYMPTOMS

Irregular Pattern Spots Rings Patch Other:

Size & Number % of area affected

Colour: Brown Yellow Black Reddish Other:

Type of area (green, oval etc.) Grass type

Date symptoms first observed Occurred before?

Weather prior to outbreak

Pesticides (& nematicides) applied in last 8 weeks (name & rate)

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Management practices & any other information

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**Send all samples by next-day post to
Sportsturf Consultants 45 Westerfield Drive Notting Hill VIC 3168**

Sampling information

Disease: Take 75mm (3") diameter plugs (100mm deep) from the outer edge of the affected area. Plugs should be 50:50 diseased and healthy. Wrap tightly in plastic and clearly label each sample.

Nematode: For defined areas collect 400g of small cores (75mm deep) from the edge of the affected area to make one sample. For undefined areas or if making a general check take multiple cores (400g) from across the area to provide a good representation of the nematode population. Wrap and clearly label each sample.

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