

LIVING TURF

PLANT DISEASE ANALYSIS REPORT

Accession no.: 0000LT

Sample details: Two Couch samples were supplied from a cricket wicket at Kingsford Smith Oval for analysis.

Date received and condition of samples: The samples were received in good condition on the 14/12/05.

Observations and Results:

Laboratory Analysis

The infected areas on the turf sample provided has shown that turf density was poor. There were only a few live leaves present in the plug. Infected leaves were orange to brown in colour and possessed small distinct grey lesions on the leaves. Microscopic examination of the foliage has found moderate concentrations of *Fusarium* sp. present in plant foliage. *Fusarium* sp. was identified by the distinct crescent shaped spores possessing 2-3 distinct cells.

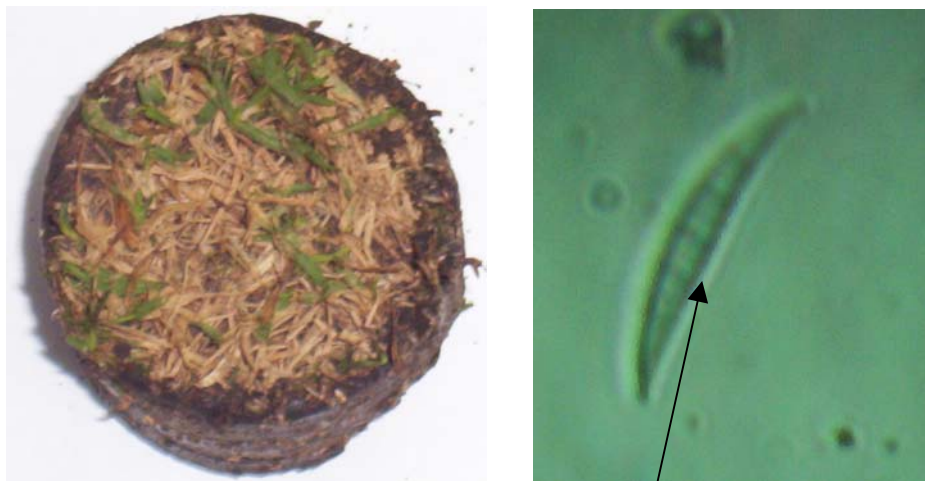


Fig 1, 2 & 3. *Fusarium* sp present in plant foliage



When examining the root system from the plug provided, it was apparent that the sample was in moderate health, with new white root development present in moderate concentrations. Microscopic examination found no major disease activity present.

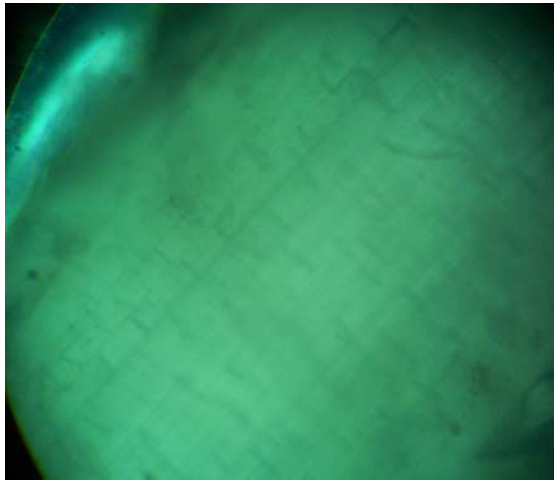


Fig 4. Healthy root cells present.

Interpretation and Conclusion:

Sample	Organism Present	% Infection	Area of Infection	Treatment Required
Kingsford Smith Oval	<i>Fusarium</i> sp	30	Leaf	No

From the investigation of the sample provided it is evident that *Fusarium* sp. is the major fungal pathogen apparent.

Remedial Recommendations

- Chemical control of *Fusarium* can be achieved via applications of Baycor at the rate of 5 L/ha. As all the spores were present in the foliage, apply the product in 400-600L of water per hectare and avoid further precipitation for 4-8 hours.