

Pacific Soil Laboratory Network (ASPAC)

Rob De Hayr, ASPAC Executive Committee



7th Meeting of the
**Global Soil
Laboratory
Network**
(GLOSOLAN)

GLOSOLAN
GLOBAL SOIL LABORATORY NETWORK

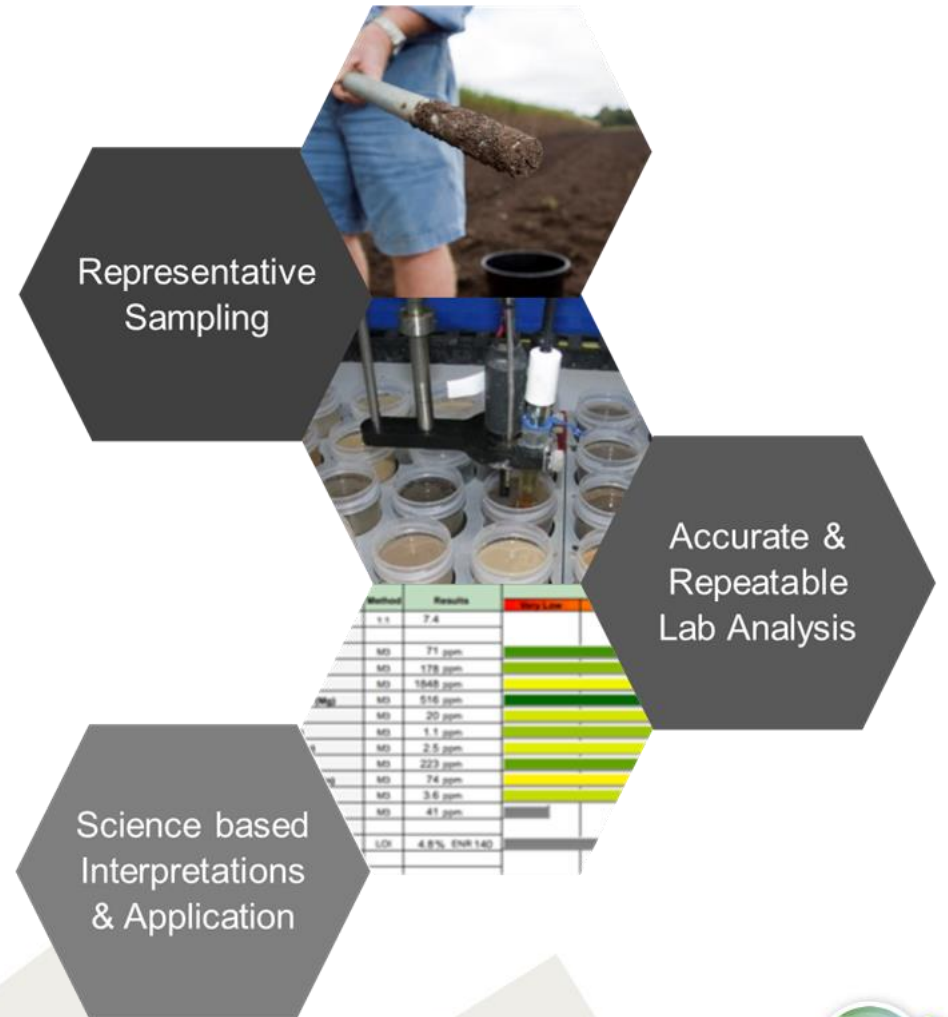




Australasian Soil and Plant Analysis Council (ASPAC)

- Incorporated not for profit international organisation, funded by membership fees since 1990. (Laboratories, individuals and students)
- Overseen by Executive Committee of Jurisdictional representatives
- Supported by part-time Executive Officer (paid)
- Subcommittees:
 - Laboratory Proficiency Committee
 - Methods Committee
 - Travel Awards Committee
 - Fertcare

<http://www.aspac-australasia.com/>



7th Meeting of the **Global Soil Laboratory Network (GLOSOLAN)** | 21-23 November 2023





Elected Executive

Chair & NSW Rep

Vice Chair & ACT Rep

Secretary & SA Rep

WA Rep

New Zealand Rep

Pacific Nations Rep

Victoria Rep

Qld Rep & GLOSOLAN

Newsletter Editor

Tasmania Rep & Treasurer Vacant

Graham Lancaster

Nell Peisley

Matthew Wheal

Chris Gendle

William Bodeker

Md. Abdul Kader

Paul Kennelly

Rob De Hayr

Stephanie Cameron



Membership

62 paid corporate members

18 paid individual members

15 sponsored members (Pacific and SEAsia)

3 student members

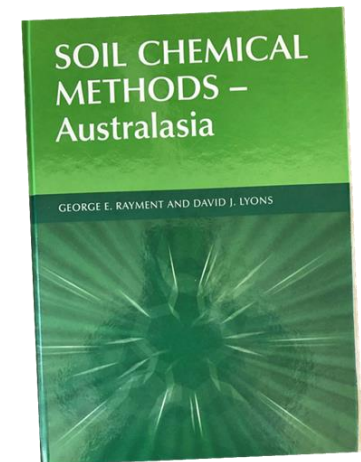
7th Meeting of the **Global Soil Laboratory Network (GLOSOLAN)** | 21-23 November 2023





Australasian Soil and Plant Analysis Council (ASPAC)

- ASPAC Executive & Annual General Meeting 25 October 2023
 - Revision of Methods book underway to be known as *Soil Chemical Methods – Australasia and Beyond* (will be published as an ebook)
 - Funding for redevelopment of ASPAC website agreed
 - Annual travel award to be targeted to Pacific Island participants to attend training workshops
- Soil & Plant analysis Workshop 26-27 October 2023





Soil & Plant analysis Workshop 26-27 October 2023

Topics included

- Requirements for
 - Carbon initiative projects – approved TC and TOC methods and need for ASPAC certification and accreditation
 - Treatment of soil samples for fire ants
 - New Acid Sulphate Soil guidelines
 - Instrument troubleshooting
 - QA/QC, method uncertainty and interpreting results
 - Instrumentation
 - ICPMS, MIR/NIR



7th Meeting of the **Global Soil Laboratory Network (GLOSOLAN)** | 21-23 November 2023



Pacific Soil Laboratory Workshop from 22nd June to 24th, Darwin

Facilitated by Australian Centre for International Agriculture Research

- the main issues and priorities regarding soil laboratories, soil information and data, and related capacity across all countries
- Many projects in the region working on soil management require local laboratory support
- inform the direction, partnerships and ambitions of the project led by Gigi woods in Soil Science Australia
- Structure proposed for the Pacific Soil Partnership to help coordination and increase visibility



Meeting of the **Global Soil Laboratory Network (GLOSOLAN)** | 21-23 November 2023



Australian Centre for International Agriculture Research



- Contracted Soil Science Australia project
 - Gigi Woods
- GAP analysis of the strengths and weaknesses in lab capabilities
- GAP analysis of the knowledge and skills of soils
- Developing a model for coordinated support in the Pacific, including support of a community of practice.
- Development of a pathway to sustainable delivery of analytical services through a regionally coordinated laboratory network
- Project website: <https://www.aciar.gov.au/project/slam-2022-181>



<https://www.soilscienceaustralia.org.au/>

7th Meeting of the **Global Soil Laboratory Network (GLOSOLAN)** | 21-23 November 2023



Coming Up

- 22 November - Soil Analysis, Pacific meeting facilitated by Lucrezia Caon (FAORAP)
- December 2024 - Combined Soil Science Australia, New Zealand Soil Science Conference Rotorua NZ

7th Meeting of the **Global Soil Laboratory Network (GLOSOLAN)** | 21-23 November 2023

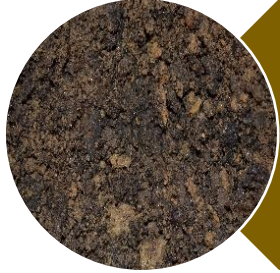




ASPAC PT – a Case Study

Rob De Hayr

Soil Testing Proficiency for almost 20 years



Approx. 50 tests certifiable



depending on test, 10-52 labs provided results



total of 65 labs, including Australia, New Zealand, all Pacific Islands and some SE Asian



ASPAC proficiency certification

- In SoilChek each laboratory tests 12 soil samples per year, consisting of 3 rounds of 4 samples each.
- The scoring system involves allocation of demerit points for each sample on the basis of the z-score result obtained from method specific statistical analysis.
- Method specific certification is given when a laboratory incurs no more than 4 demerit points for the 12 samples.



ASPAC proficiency certification



- For each test method:
- **2 demerit points** are allocated to a statistical **outlier** (ASPAC Score >2 at the first iteration), or if no result submitted.
- **1 demerit point** is allocated to a statistical **straggler** (ASPAC Score >2 at the second iteration).
- **A maximum of 3 demerit points are accrued per round**, so that no single poor performing round will incur a laboratory's certification failure.

<https://www.aspac-australasia.com/certified-labs>

ASPAC proficiency certification

ASPAC Laboratory Certifications

2022

Detailed Annual Reports (PDF format) for all Soil and Plant Proficiency Programs can be downloaded via the following links:

The ASPAC Inter-Lab Proficiency Program - References and Further Reading

Plant Analysis Annual Reports	Soil Analysis Annual Reports
Plant 2004-2005	Soil 2004-2005
Plant 2005-2006	Soil 2005-2006
Plant 2006-2007	Soil 2006-2007
Plant 2007-2008	Soil 2007-2008
Plant 2008-2009	Soil 2008-2009
Plant 2009-2010	Soil 2009-2010
Plant 2010-2011	Soil 2010-2011
Plant 2011-2012	Soil 2011-2012
Plant 2012-2013	Soil 2012-2013
Plant 2013-2014	Soil 2013-2014
Plant 2014-2015	Soil 2014-2015
Plant 2016	Soil 2016
Plant 2017	Soil 2017
Plant 2018	Soil 2018
Plant 2019	Soil 2019
Plant 2020	Soil 2020
Plant 2021	Soil 2021
Plant 2022	Soil 2022

Search by...



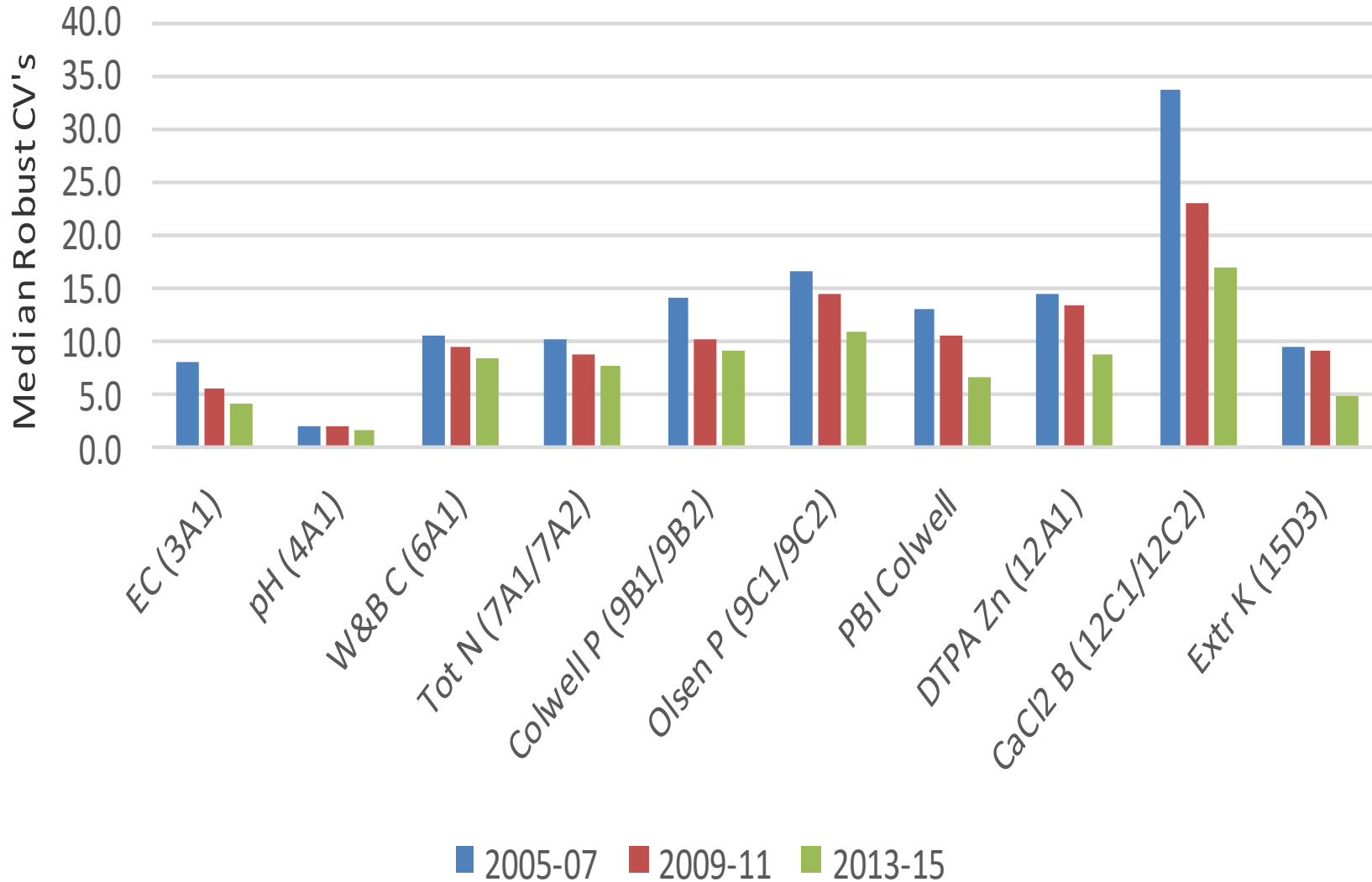
Analyte



Laboratory



Change in Lab Performance over Time (Soils)





Food and Agriculture
Organization of the
United Nations



GLOSOLAN
GLOBAL SOIL LABORATORY NETWORK

Thank you

