

CAPABILITY STATEMENT

James Hall



Lead Consultant Land Capability & Soils

CONTACT DETAILS

0428 233 509

jhall@pinionadvisory.com

Suite 7/8 Greenhill Road
WAYVILLE SA 5034

QUALIFICATIONS

- Bachelor of Agricultural Science (soil science & economics)

PROFESSIONAL ASSOCIATIONS

- Soil Science Australia, President (past – SA Branch)

COMMITTEES OR BOARDS

- National Soil Action Plan Working Group, representing Australia's 54 NRM regions (past)
- National Committee on Soil & Terrain, Deputy Chair (past)
- [The Australian Soil Classification](#) Working Group

James is an experienced landscape and soil scientist and project manager, with deep expertise in soil and land capability assessment, soil data development, land-use evaluation, soil survey and mapping, and evidence-based land management.

Recognised as one of Australia's leading field-focused soil scientists, he has led and supported numerous natural resource management projects, working collaboratively across industries, community groups, and technical specialists.

James has contributed to policy, planning, and strategy at national, state, and regional levels. He is passionate about applying sound scientific principles to support sustainable land use and improve soil and landscape productivity and health.

Areas of expertise

- Soil science/land capability assessment
- Land resource assessment/soil survey & mapping
- Land-use potential modelling and mapping
- Land and soil information tailored to client needs
- 'Whole-of-landscape' integrated natural resource management
- Sustainable/regenerative agriculture
- Soil carbon/climate resilience/soil health
- Salinity/soil acidity/soil chemistry-nutrition/landscape-soil-plant water relationships
- Project-program management
- Extension/event organisation
- Publications

Professional experience (recent)

- Pinion Advisory – Lead Consultant, Land Capability & Soils, Jan 2025-present
- NT Government – Principal Land Resource Officer, 2023-24
- Landscape SA Limestone Coast – Program Leader, Sustainable Primary Production, 2021-22
- Landscape SA Hills & Fleurieu/Adelaide & Mt Lofty Ranges NRM – Sustainable Agriculture Lead (Central Hills), 2019-21

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Relevant projects

PROJECT	ROLE	CLIENT	YEAR/S DELIVERED
Regional Ecosystem & Landscape Mapping Program (REALM)	Soil Science Leader - initial phase of NT-wide integrated mapping of soil, landscapes & vegetation	NT Govt	2023-24
Irrigated soils	Soil-plant interactions extension	NT Farmers	2023-24
Soil Extension Project	Leader - \$2M statewide soil extension project covering SA's landscape board regions	Landscape SA	2021-22
Carbon Project	Program Leader - developing carbon information for land managers and regional roadmap	Landscape SA Limestone Coast	2021-22
Farming for the Future	Program Leader - developing an information hub for best practice land management	Landscape SA Limestone Coast	2021-22
Adaptive Agriculture climate resilience project	Project Manager - collaboration & grants for innovative industry projects	Landscape SA Limestone Coast	2021-22
<u>Natural predators of vineyard insect pests</u>	Project Manager, chief editor & designer - publication for vineyard managers to identify & support natural predators	Landscape SA Hills & Fleurieu	2019-21
'Wildlife for Wine' industry project	Project Leader (Central Hills) - supporting winegrowers to establish native vegetation to host predators of vineyard pests	AMLRNRM (Adelaide & Mt Lofty Ranges NRM)	2019-20
Supporting Sustainable Primary Production	Coordinator/co-designer (Central Hills) - industry grants program	AMLRNRM	2019-20
Regenerating Soil Health (soil carbon project)	Project Manager & soil scientist - assessing soil carbon in native vegetation & pasture systems	AMLRNRM	2019-20
Cudlee Creek Fire Recovery	Program support & membership of Agriculture & Land Management Sub-committee	Industry & Cudlee Creek Fire Recovery Committee	2020
Rural Land Management Advisory Group	Representing NRM on this industry-focused advisory group	Adelaide Hills Council	2019-21
Landholder Calendar of Events	Manager - monthly emailed events & information newsletter	AMLRNRM	2019-21
Climate Smart Farming Forum	Organising committee member and presenter on soil carbon	Resilient Hills & Coast	2021

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Land management courses for new landholders	Presenter on soils & farm planning/presenter & organiser Sustainable Pastures Course	AMLRNRM	2019-21
Field testing a novel polymer	Project Manager & soil scientist - testing amelioration effects on soil & water properties	CHT Australia	2017-19
Mallee dune seepage	Project coordinator & soil scientist - investigating causes of the mallee dune seepage issue	SA Murray-Darling Basin NRM	2014-17
Mt Lofty Ranges World Heritage Bid	Chair - Landscape Advisory Group	Local Councils	2012-17
Strategic development in Southern Mallee	Support for strategic regional development planning	Southern Mallee District Council	2014-15
Non-wetting soil in GRDC southern region	Developing mapping information for low-moderate rainfall zones of SA, Vic & NSW	CSIRO/GRDC	2014-15
Land use potential modelling & mapping	Co-developer: developing rules-based models for crop & pasture plant suitability	SA Govt	1997-2012
The Soils of Southern SA	Project Manager, editor, chief author & designer - landmark book development & publication	SA Govt	2004-09
South East Water Science Review	Development of forestry potential models & mapping (Radiata Pine & Blue Gum)	SA Govt	2007-09
Irrigation benchmarking	Benchmarking irrigated soil types and characteristics	South East NRM	2006-07
PIRSA Salinity Response Program	Consultant to salinity team and manager service-level agreement	SA Govt	2000-07
Soil Education & Training	'Soil pit field days' - limitations, potential & formation of local soil types discussed as well as wider catchment implications	Industry, Landcare, NRM, student groups	1993-present
Soil characterisation project	Co-leader/co-developer - chemical-physical characterisation of SA soils - link	SA Govt	1993-2012
State Land & Soil Mapping Program	Co-leader/co-developer - mapping land & soil attributes across SA - link	SA Govt	1991-2012
State Land & Soil Information Framework	Co-leader/co-developer - spatial & site datasets developed for SA	SA Govt	1991-2012