



SOIL TEST REPORT

Client name: Annabelle Farmer

Farm name: Fairy Floss

Field name: Stick

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Paddock & Test Details

Location: Dalby, QLD

Soil Type: Black Cracking Clay

Previous Crop: Sorghum (harvested June 2025)

Planned Crop: Sorghum (planting October 2025)

Sampling Date: 16/07/2025



SOIL TEST REPORT

0-10 cm Depth

Nutrient	Result	Opt Range	Status	Comment
pH (Water)	8.2	6.0-7.5	High	Alkaline, may affect P/Zn.
EC (1:5)	0.15 dS/m	<0.4 dS/m	OK	Salinity not an issue.
Organic Carbon	1.17%	>1.0%	OK	Sufficient for structure & N supply.
Nitrate N	8.3 mg/kg	10-25 mg/kg	Low	Low, consider N input pre-sowing.
Ammonium N	1.9 mg/kg	1-4 mg/kg	OK	Normal.
Colwell P	46 mg/kg	25-40 mg/kg	OK	Well supplied, no extra P needed.
BSES P	900 mg/kg	>600 mg/kg	OK	Phosphate reserve very good.
Sulphur (KCl40)	2.6 mg/kg	8-15 mg/kg	Low	Sulphur low, consider S application.
Potassium (Avail.)	600 mg/kg	200-300 mg/kg	High	Well supplied, no K needed.
Calcium	25 cmol/kg	>5 cmol/kg	OK	Plenty of Ca for crop health.
Magnesium	16 cmol/kg	>2 cmol/kg	OK	Ample Mg, no concern.
Sodium (ESP)	3.9%	<6%	OK	No sodicity concern.
Zinc (DTPA)	0.89 mg/kg	0.5-1.0 mg/kg	OK	Adequate for sorghum.
Copper (DTPA)	1.1 mg/kg	0.3-0.7 mg/kg	OK	Sufficient.
Iron (DTPA)	25 mg/kg	>10 mg/kg	OK	Well supplied.
Manganese (DTPA)	8.3 mg/kg	>2 mg/kg	OK	Adequate.
Boron (Hot CaCl2)	1.1 mg/kg	0.5-1.5 mg/kg	OK	Adequate.

10-30 cm Depth

Nutrient	Result	Opt Range	Status	Comment
pH (Water)	8.7	6.0-7.5	High	Alkaline, may restrict nutrients.
EC (1:5)	0.24 dS/m	<0.4 dS/m	OK	Salinity not an issue.
Organic Carbon	1.16%	>0.5%	OK	Good for subsoil.
Nitrate N	4.7 mg/kg	5-20 mg/kg	Low	Low, subsoil N is limited.
Ammonium N	1.3 mg/kg	1-4 mg/kg	OK	Normal.
Colwell P	26 mg/kg	20-30 mg/kg	OK	Good for subsoil.
BSES P	870 mg/kg	>400 mg/kg	OK	Well supplied.
Sulphur (KCl40)	3.2 mg/kg	4-8 mg/kg	Low	Sulphur low.
Potassium (Avail.)	350 mg/kg	150-200 mg/kg	High	No K issues.
Calcium	27 cmol/kg	>4 cmol/kg	OK	Excellent level.
Magnesium	19 cmol/kg	>2 cmol/kg	OK	Ample Mg, no concern.
Sodium (ESP)	6.6%	<6%	OK	Approaching sodicity threshold.



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30-60 cm Depth

Nutrient	Result	Opt Range	Status	Comment
Nitrate N	3.4 mg/kg	5-15 mg/kg	Low	Low subsoil N reserve.
Ammonium N	1.5 mg/kg	1-4 mg/kg	OK	Normal.
Chloride	12 mg/kg	<150 mg/kg	OK	No salt risk.

60-90 cm Depth

Nutrient	Result	Opt Range	Status	Comment
Nitrate N	2.9 mg/kg	3-10 mg/kg	Low	Very limited subsoil N.
Ammonium N	1.1 mg/kg	1-3 mg/kg	OK	Normal.
Chloride	12 mg/kg	<150 mg/kg	OK	Well below risk.

Key Issues & Agronomic Summary

- Low N at all depths - plan for significant N fertiliser before or at planting.
- Sulphur is low (0-30 cm) - include S in your starter/basal blend.
- Alkaline pH - watch for P, Zn, Mn availability, but currently well supplied.
- No need for P, K, Ca, or micronutrient application at this stage.
- No salinity or sodicity risk.

Summary Recommendation

This black cracking clay at Dalby (Centre, Mt Leinster) is generally fertile, but the low soil N and S mean both will need to be supplied to avoid limiting yield in your upcoming sorghum. pH is a little alkaline but manageable. No need to apply extra P, K, Ca, or trace elements at this time. Monitor crop for early signs of S or micronutrient deficiency if conditions are wet or cool.

For further agronomic advice or a custom fertiliser plan, contact:

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