

Project Name: Geraldton land resources survey
Project Code: GTN **Site ID:** 1407 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

| | | | |
|------------------------|----------------------|-------------------|-------------------------|
| Desc. By: | Rogers, Gary | Locality: | |
| Date Desc.: | 20/02/91 | Elevation: | No Data |
| Map Ref.: | | Rainfall: | No Data |
| Northing/Long.: | 6844448 AMG zone: 50 | Runoff: | No Data |
| Easting/Lat.: | 360934 Datum: AGD84 | Drainage: | Moderately well drained |

Geology

| | | | |
|----------------------|----------|------------------------------------|---------|
| ExposureType: | Soil pit | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | No Data |

Land Form

| | | | |
|-------------------------|-----------------------------------|----------------------|---------|
| Rel/Slope Class: | Gently undulating plains <9m 1-3% | Pattern Type: | No Data |
|-------------------------|-----------------------------------|----------------------|---------|

| | | | |
|---------------------|--------------|------------------------|---------|
| Morph. Type: | Simple-slope | Relief: | No Data |
| Elem. Type: | No Data | Slope Category: | No Data |
| Slope: | 2 % | Aspect: | No Data |

Surface Soil Condition Hardsetting, Hardsetting

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|--------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Haplic Petrocalcic Red Kandosol | | Principal Profile Form: | Gn2.12 |
| ASC Confidence: | | Great Soil Group: | N/A |
| Confidence level not specified | | | |

Site Cultivation. Rainfed

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, angular, Quartz; 0-2%, medium gravelly, 6-20mm, , Granite

Profile

| | | |
|----|---------------|--|
| A1 | 0 - 0.08 m | Dark reddish brown (2.5YR3/4-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; |
| | | Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; |
| | | Field pH 6 (pH meter); Abrupt change to - |
| B2 | 0.08 - 0.17 m | Dark reddish brown (2.5YR3/4-Moist); ; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; |
| | | Strong consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; 2-10%, medium |
| | | gravelly, 6-20mm, angular, coarse fragments; Field pH 6 (pH meter); Abrupt change to - |
| CD | 0.17 - 0.24 m | ; Red-brown hardpan, Very strongly cemented, Massive; Soil matrix is Slightly calcareous; |

Morphological Notes

CD calcrete

Observation Notes

Site Notes

Shallow red earth over calcrete, widely scattered coarse fragments: angular qz 5-60mm 30%, angular gn 5-30cm
 2% Bulk 2.5yr 3/6 pH
 6.0 angular qz 5% 2-20mm

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Mg | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP |
|-------------|--------------|--------|-------|-----------------|-----------|-------------|----------------------|-----|-------|-----|
| m | | dS/m | | | | Cmol (+)/kg | | | | % |
| 0 - 0.08 | 5.6B 6.3H | 19B | 4.11H | 1.09 | 1.01 | 0.74 | <0.02J | | 6.95D | |
| 0 - 0.1 | 5.8B 6.4H | 10B | 4.65H | 1.2 | 0.91 | 0.2 | 0.02J | | 6.96D | |
| 0.08 - 0.17 | 5.8B 6.4H | 12B | 6.9H | 1.67 | 0.68 | 0.52 | 0.02J | | 9.77D | |

| Depth | CaCO3 | Organic C Clay | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size Analysis |
|-------------|-------|----------------|----------|---------|---------|---------|--------------|------------------------|
| m | % | % | mg/kg | % | % | % | Mg/m3 | GV CS FS Silt |
| 0 - 0.08 | | 0.6D | | | | | | 8.9 |
| 16.6 | | | | | | | | |
| 0 - 0.1 | | 0.51D | | | | | | 8.8 |
| 16.7 | | | | | | | | |
| 0.08 - 0.17 | | 0.44D | | | | | | 8.6 |
| 29.1 | | | | | | | | |

Laboratory Analyses Completed for this profile

| | |
|------------|---|
| 15_NR_BSa | Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available |
| 15_NR_CMRR | Exchangeable bases (Ca/Mg ratio) - Not recorded |
| 15E1_AL | Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts |
| 15E1_CA | Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts |
| 15E1_K | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts |
| 15E1_MG | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts |
| 15E1_MN | Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts |
| 15E1_NA | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts |
| 15J_BASES | Sum of Bases |
| 15N1_b | Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations |
| 18A1_NR | Bicarbonate-extractable potassium (not recorded) |
| 3_NR | Electrical conductivity or soluble salts - Not recorded |
| 4_NR | pH of soil - Not recorded |
| 4B_AL_NR | Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded |
| 4B1 | pH of 1:5 soil/0.01M calcium chloride extract - direct |
| 6A1_UC | Organic carbon (%) - Uncorrected Walkley and Black method |
| 9B_NR | Bicarbonate-extractable phosphorus (not recorded) |
| 9H1 | Anion storage capacity |
| P10_1m2m | 1000 to 2000u particle size analysis, (method not recorded) |
| P10_20_75 | 20 to 75u particle size analysis, (method not recorded) |
| P10_75_106 | 75 to 106u particle size analysis, (method not recorded) |
| P10_NR_C | Clay (%) - Not recorded |
| P10_NR_Saa | Sand (%) - Not recorded arithmetic difference, auto generated |
| P10_NR_Z | Silt (%) - Not recorded |
| P10106_150 | 106 to 150u particle size analysis, (method not recorded) |
| P10150_180 | 150 to 180u particle size analysis, (method not recorded) |
| P10180_300 | 180 to 300u particle size analysis, (method not recorded) |
| P10300_600 | 300 to 600u particle size analysis, (method not recorded) |
| P106001000 | 600 to 1000u particle size analysis, (method not recorded) |

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