

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 0138 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

| | | | |
|------------------------|----------------------|-------------------|---------------------|
| Desc. By: | Tim Overheu | Locality: | |
| Date Desc.: | 12/03/93 | Elevation: | No Data |
| Map Ref.: | | Rainfall: | No Data |
| Northing/Long.: | 6320300 AMG zone: 50 | Runoff: | No Data |
| Easting/Lat.: | 785000 Datum: AGD84 | Drainage: | Imperfectly drained |

Geology

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|----------------------|----------|------------------------------------|---------|
| 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:** Plain

| | | | |
|---------------------|-------|------------------------|---------|
| Morph. Type: | Flat | Relief: | No Data |
| Elem. Type: | Plain | Slope Category: | No Data |
| Slope: | % | Aspect: | No Data |

Surface Soil Condition Loose

Erosion: (wind); (scald) (sheet) (rill) (mass) (gully)
(stbank) (tunnel)

Soil Classification

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|--|--------------------------------|--------------------------------|--------|
| Australian Soil Classification: | N/A | Mapping Unit: | N/A |
| ASC Confidence: | Confidence level not specified | Principal Profile Form: | Dy4.42 |
| | | Great Soil Group: | N/A |

Site Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

| | | |
|-------|-------------|--|
| Ap | 0 - 0.1 m | Dark grey (10YR4/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Water repellent; Field pH 7.3 (pH meter); |
| A21 | 0.1 - 0.3 m | Light grey (10YR7/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Field pH 8.3 (pH meter); |
| B21t | 0.3 - 1.3 m | Pale brown (10YR6/3-Moist); , 0-0% ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Strong grade of structure, 50-100 mm, Columnar; Smooth-ped fabric; Moderately moist; Firm consistence; Field pH 9.1 (pH meter); |
| B22tk | 1.3 - 1.6 m | Pale brown (10YR6/3-Moist); Mottles, 10YR44, 2-10% , 15-30mm, Prominent; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Sandy (grains prominent) fabric; Moderately moist; Very firm consistence; Field pH 6.4 (pH meter); |

Morphological Notes

Observation Notes

Site Notes

Sand over domed clay

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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 - 0.1 | 5.8B 6.6H | 5B | 3.02A | 0.35 | 0.06 | 0.02 | | 2J | 3.45D | 1.00 |
| 0.1 - 0.3 | 5.7B 6.7H | 1B | 0.35A | 0.12 | 0.03 | <0.02 | | <1J | 0.51D | |
| 0.3 - 1.3 | 7.9B 8.5H | 150B | 0.87E | 8.86 | 1.03 | 7.63 | | 19J | 18.39D | 40.16 |
| 1.3 - 1.6 | 4.8B 5.2H | 180B | 0.4H | 6.42 | 0.47 | 4.63 | 0.06J | | 11.92D | |

| 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 - 0.1 | | 0.92D | | 360B | 0.066E | | | |
| 2.6 | | | | | | | | 0.9 |
| 0.1 - 0.3 | | 0.12D | | 22B | 0.007E | | | 0.8 |
| 1.4 | | | | | | | | |
| 0.3 - 1.3 | <2C | 0.07D | | 18B | 0.006E | | | 1.7 |
| 46.3 | | | | | | | | |
| 1.3 - 1.6 | | 0.09D | | 18B | 0.005E | | | 4.3 |
| 49.7 | | | | | | | | |

Laboratory Analyses Completed for this profile

| | |
|------------------|---|
| 12C1 | Calcium chloride extractable boron - manual colour |
| 15_NR_BSa | Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available |
| 15_NR_CEC | CEC - meq per 100g of soil - Not recorded |
| 15_NR_CMR | Exchangeable bases (Ca/Mg ratio) - Not recorded |
| 15A1_CA | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment |
| for soluble | salts |
| 15A1_K | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment |
| for soluble | salts |
| 15A1_MG | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment |
| for soluble | salts |
| 15A1_NA | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment |
| for soluble | salts |
| 15C1_CA | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, |
| pretreatment for | soluble salts |
| 15C1_K | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for |
| soluble salts | |
| 15C1_MG | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for |
| soluble salts | |
| 15C1_NA | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for |
| soluble salts | |
| 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 |
| 15L1_a | Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using |
| Sum of Cations | and measured clay |
| 15N1_a | Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC |
| 15N1_b | Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations |
| 19B_NR | Calcium Carbonate (CaCO3) - Not recorded |
| 3_NR | Electrical conductivity or soluble salts - Not recorded |
| 4_NR | pH of soil - Not recorded |

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|------------|--|
| 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 |
| 7A1 | Total nitrogen - semimicro Kjeldahl, steam distillation |
| 9A3 | Total Phosphorus (ppm) - semimicro kjeldahl, automated colour |
| 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) |