

Project Name: Southern Cross Hyden land resources survey
Project Code: SCS **Site ID:** 0311 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mir Frahmmand
Date Desc.: 28/10/92
Map Ref.:
Northing/Long.: 6507807 AMG zone: 50
Easting/Lat.: 653293 Datum: AGD84
Locality:
Elevation: 335 metres
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

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

Landform

Rel/Slope Class: No Data
Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: 1 %
Pattern Type: Peneplain
Relief: No Data
Slope Category: No Data
Aspect: 315 degrees

Surface Soil Condition Firm

Erosion

Soil Classification

Australian Soil Classification:
 Ferric-Acidic Mesotrophic Brown Kandosol
ASC Confidence:
 No analytical data and little or no knowledge of this soil.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

0 - 0.08 m	Dark yellowish brown (10YR4/4-Moist); ; Fine sandy loam; Field pH 6.6 (pH meter);
0.08 - 0.35 m	Yellowish brown (10YR5/8-Moist); ; Fine sandy loam; 2-10%, fine gravelly, 2-6mm,
subangular,	Ironstone, coarse fragments; Field pH 5.5 (pH meter);
0.35 - 0.6 m	Yellowish brown (10YR5/8-Moist); ; Fine sandy loam; 20-50%, medium gravelly, 6-20mm,
subrounded,	Ironstone, coarse fragments; Field pH 5 (pH meter);
0.6 - 1 m	Yellowish brown (10YR5/6-Moist); ; Sandy clay loam; 50-90%, fine gravelly, 2-6mm,
subangular,	Ironstone, coarse fragments; , Ferruginous, Medium (2 -6 mm), Soft segregations; Field
pH 5.3 (pH	meter);

Morphological Notes

MOTTLED ZONE

Observation Notes

Site Notes

Day rd--Catchment group soil pit--Brown yellowish gradational sandy loam--Yellow gravelly sandplain--Tammar

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable	Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg	K	Cmol (+)/kg	Acidity			%
0 - 0.08	4.6B 5.5H	9B	1.13H	0.36	0.6	0.1	0.13J		2.19D	

0.08 - 0.35	3.9B 4.3H	6B	0.52H	0.22	0.18	0.05	0.7J	0.97D
0.35 - 0.6	4.8B 5.2H	8B	1.34H	0.92	0.02	0.18	0.03J	2.46D

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.08 11.1		0.57D		80B	0.043E			3
0.08 - 0.35 15.9		0.16D		33B	0.023E			2.5
0.35 - 0.6 17.7		0.1D		33B	0.018E			2.9

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) 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
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
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)