

Project Name: Southern Cross Hyden land resources survey
Project Code: SCS **Site ID:** 0316 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mir Frahmmand
Date Desc.: 29/10/92
Map Ref.:
Northing/Long.: 6497287 AMG zone: 50
Easting/Lat.: 660310 Datum: AGD84
Locality:
Elevation: 370 metres
Rainfall: No Data
Runoff: No Data
Drainage: Well drained

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: No Data
Elem. Type: Plain
Slope: %
Pattern Type: Peneplain
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Firm

Erosion (wind);

Soil Classification

Australian Soil Classification:
 Calcic Subnatric Red Sodosol
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 Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation

Surface Coarse Fragments

Profile Morphology

0 - 0.1 m	Dark brown (7.5YR3/4-Moist); ; Loamy fine sand; ; Platy; Earthy fabric; Field pH 6.6 (pH meter);
0.1 - 0.4 m	Yellowish red (5YR4/6-Moist); ; Fine sandy clay loam; ; Polyhedral; ; Angular blocky; Earthy fabric; Field pH 9.4 (pH meter);
0.4 - 0.9 m	Brown (7.5YR4/4-Moist); ; 20-50% ; Fine sandy clay loam; ; Polyhedral; ; Calcareous, ; Soft segregations; ; Calcareous, ; Nodules; Soil matrix is Moderately calcareous; Field pH 9.9 (pH meter);
0.9 - 1.2 m	Grey (10YR6/1-Moist); ; 5YR4/6, 20-50% ; Fine sandy light clay; Massive grade of structure; Field pH 9.1 (pH meter);

Morphological Notes

GRAYISH COLOUR

Observation Notes

Site Notes

FD K:35cm-95cm-- Brown sandy loam/clay--Soil surface condition: soft to firm

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	5.5B 6.7H	2B	1.84A	0.76	0.36	0.05		4J	3.01D	1.25
0.1 - 0.4	7.5B 8.2H	18B	6.9E	4.2	0.5	0.97		15J	12.57D	6.47
0.4 - 0.9	8.5B	72B	2.91E	6.59	1	7.39		17J	17.89D	43.47

0.9 - 1.2	9.7H 8B 8.7H	170B	1.89E	6.75	1.11	8.51		18J	18.26D	47.28
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Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³			%	
0 - 0.1 6.3		0.48D		65B	0.035E						3
0.1 - 0.4 28.7	<2C	0.39D		51B	0.035E						6.3
0.4 - 0.9 40.7	18C	0.12D		41B	0.018E						6.7
0.9 - 1.2 45.3	<2C	0.07D		31B	0.018E						4.9

Laboratory Analyses Completed for this profile

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_CMRR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_K for soluble	salts Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG for soluble	salts Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CA pretreatment for	salts Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_K soluble salts	soluble salts Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15J_BASES	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a	and measured clay
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
18A1_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
19B_NR	Bicarbonate-extractable potassium (not recorded)
3_NR	Calcium Carbonate (CaCO ₃) - Not recorded
4_NR	Electrical conductivity or soluble salts - Not recorded
4B_AL_NR	pH of soil - Not recorded
4B1	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
6A1_UC	pH of 1:5 soil/0.01M calcium chloride extract - direct
7A1	Organic carbon (%) - Uncorrected Walkley and Black method
9A3	Total nitrogen - semimicro Kjeldahl, steam distillation
9B_NR	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
	Bicarbonate-extractable phosphorus (not recorded)

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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)