

Project Name: Southern Cross Hyden land resources survey
Project Code: SCS **Site ID:** 1277 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mir Frahmmand	Locality:
Date Desc.: 30/09/94	Elevation: No Data
Map Ref.:	Rainfall: No Data
Northing/Long.: 6346546 AMG zone: 50	Runoff: No Data
Easting/Lat.: 746363 Datum: AGD84	Drainage: No Data

Geology

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

Landform

Rel/Slope Class: No Data	Pattern Type: Peneplain
Morph. Type: No Data	Relief: No Data
Elem. Type: Hillslope	Slope Category: No Data
Slope: 4 %	Aspect: 45 degrees

Surface Soil Condition Soft

Erosion

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Epihypersodic Pedal Hypercalcic Calcarosol Thick Clayey Moderately deep	Principal Profile Form: N/A
ASC Confidence:	Great Soil Group: N/A
Confidence level not specified	

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1c	0 - 0.08 m	Dark brown (10YR3/3-Moist); ; Loamy sand; , Granular; Dry; Very weak consistence; Soil matrix is
		Slightly calcareous; Water repellent; Field pH 6.9 (pH meter); Clear change to -
A2c	0.08 - 0.2 m	Brown (10YR4/3-Moist); ; Fine sandy loam; Moderate grade of structure, Granular; Dry;
Very weak		consistence; Soil matrix is Moderately calcareous; Field pH 6.4 (pH meter); Gradual change to -
B1c	0.2 - 0.3 m	Dark yellowish brown (10YR4/4-Moist); ; Fine sandy clay loam; Weak grade of structure,
Polyhedral;		Rough-ped fabric; Dry; Very weak consistence; Soil matrix is Highly calcareous; Field pH 7.7 (pH
		meter); Diffuse change to -
B2c	0.3 - 0.45 m	Yellowish brown (10YR5/4-Moist); , 10YR81, 2-10% ; Silty clay loam; Moderate grade of
structure,		Polyhedral; Rough-ped fabric; Moderately moist; Very weak consistence; Few (2 - 10 %),
Calcareous,		Medium (2 -6 mm), Soft segregations; Soil matrix is Highly calcareous; Field pH 8 (pH
meter); Gradual		change to -
B22c	0.45 - 0.55 m	Brownish yellow (10YR6/6-Moist); , 5Y62; Moderate grade of structure, Polyhedral;
Rough-ped fabric;		Moderately moist; , Calcareous, Extremely coarse (> 60 mm), Soft segregations; Soil
matrix is Highly		calcareous; Field pH 8 (pH meter); Gradual change to -
B23c	0.55 - 0.65 m	Light yellowish brown (10YR6/4-Moist); , 5Y63; Sandy light clay; Moderate grade of
structure,		Polyhedral; Rough-ped fabric; Moderately moist; Very weak consistence; 2-10%, medium
gravelly, 6-		20mm, rounded, coarse fragments; , Calcareous, Extremely coarse (> 60 mm), Soft
segregations; Soil		matrix is Highly calcareous; Field pH 8.3 (pH meter); Clear change to -
Ck	0.65 - m	Very pale brown (10YR7/4-Moist); ;

Morphological Notes**Observation Notes****Site Notes**

Fine crust, fine cracks. FDK top - bottom. Sampled from A1c - B23c

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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	7.2B 7.9H	25B	6.3A	2.6	0.88	0.57			10.35D	
0.08 - 0.2	6.9B 7.3H	100B	8.6A	4.8	0.99	0.95			15.34D	
0.2 - 0.3	8.1B 8.4H	260B	10E	6.9	1.6	2.4		20B	20.9D	12.00
0.3 - 0.45	8.3B 8.6H	320B	9.1E	7.4	2.2	3.6		19B	22.3D	18.95
0.45 - 0.55	8.4B 8.8H	340B	5.7E	7	2.2	3.7		18B	18.6D	20.56
0.55 - 0.65	8.4B 8.8H	340B	5.3E	6.3	2.3	4.2		17B	18.1D	24.71

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.08	<2C	1.25D		58B	0.074E			6.1
9.7								
0.08 - 0.2		0.98D		47B	0.062E			7
21								
0.2 - 0.3	4C	0.96D		47B	0.072E			7.3
37.4								
0.3 - 0.45	8C	0.69D		49B	0.06E			10
45.2								
0.45 - 0.55	14C	0.5D		46B	0.04E			11
40.5								
0.55 - 0.65	18C	0.44D		43B	0.031E			10.6
36								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_CEC	Exchangeable bases (CEC) - 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_CEC	CEC - 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	
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 (CaCO ₃) - Not recorded

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3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - 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)