Project Name: IVS
Project Code: IVS **Site ID:** P568 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (WA)

Site Information

Desc. By:	G.M. Dimmock	**Locality:**	South of main 'Torquata' Hill: 30M south of Sid 36:
Date Desc.:	01/05/68	**Elevation:**	No Data
Map Ref.:	Sheet No. : 2235 1:100000	**Rainfall:**	250
Northing/Long.:	116.801388888889	**Runoff:**	No Data
Easting/Lat.:	-31.3769444444445	**Drainage:**	No Data

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Soil pit, 0.9 m deep,Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	No Data
Morph. Type:	Flat	**Relief:**	No Data
Elem. Type:	Drainage depression	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

Australian Soil Classification:
Hyperbasic Regolithic Supracalcic Calcarosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Mapping Unit: N/A
Principal Profile Form: Gc1.22
Great Soil Group: N/A

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

k	0 - 0.1 m	Dark red (2.5YR3/6-Moist); Reddish brown (5YR4/4-Dry); ; Loam (Heavy); 2-10%, fine gravelly, 2-6mm, rounded, Substrate material, coarse fragments; Many (20 - 50 %), Calcareous, , Tubules; , Weakly cemented; Field pH 9 (pH meter); Common
k	0.1 - 0.2 m	Dark red (2.5YR3/6-Moist); Reddish brown (5YR4/4-Dry); ; Fine sandy clay loam; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.5 (pH meter); Few
k	0.2 - 0.3 m	Dark red (2.5YR3/6-Moist); Yellowish red (5YR4/6-Dry); ; Clay loam; 2-10%, angular, Gravel, coarse fragments; Many (20 - 50 %), Calcareous, , Nodules; , Weakly cemented; Field pH 9 (pH meter);
k	0.3 - 0.6 m	Reddish brown (5YR4/4-Moist); Reddish brown (5YR5/3-Dry); ; Light clay; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Many (20 - 50 %), Calcareous, , Nodules; Field pH 8.5 (pH meter);
k	0.6 - 0.9 m	Reddish brown (5YR5/4-Moist); Light reddish brown (5YR6/4-Dry); ; Medium clay; 10-20%, angular, Substrate material, coarse fragments; Many (20 - 50 %), Calcareous, , ; Field pH 9 (pH meter);

Morphological Notes

Observation Notes

0-90CM AL GV IS WEATHERED ULTRABASIC ROCK: 60-90CM ABUNDANT POWDERY CARBONATE (CARBONATE COATED GV ALSO):

Site Notes

ST. IVES

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	8.7A									
0.1 - 0.2	8.5A									
0.2 - 0.3	8.7A									
0.3 - 0.6	8.7A									
0.6 - 0.9	8.7A									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1	5A							3	5D	16	53	16
0.1 - 0.2	1A							3	1D	16	58	14
0.2 - 0.3	8A							13	8D	15	52	17
0.3 - 0.6	26A							26	26D	12	38	13
0.6 - 0.9	36A							34	36D	13	27	15

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.1										
0.1 - 0.2										
0.2 - 0.3										
0.3 - 0.6										
0.6 - 0.9										

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Laboratory Analyses Completed for this profile

19A1	Carbonates - rapid titration
2A1	Air-dry moisture content
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance