

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 025 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	15/11/90	Elevation:	415 metres
Map Ref.:	1:10000	Rainfall:	No Data
Northing/Long.:	6151240 AMG zone: 54	Runoff:	Very slow
Easting/Lat.:	313810 Datum: AGD66	Drainage:	Poorly drained

Geology

Exposure Type:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 2 m deep, Slightly porous, Clay

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	2 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	310 degrees

Surface Soil Condition (dry): Poached

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Sodosol		Principal Profile Form:	Db1.13
ASC Confidence:		Great Soil Group:	Solodized solonetz
Confidence level not specified			

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Low Strata - Sod grass, <0.25m, Closed or dense. *Species includes - Hordeum marineum
Tall Strata - Tree, 12.01-20m, Isolated plants. *Species includes - Eucalyptus camaldulensis

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A	0 - 0.3 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sandy clay loam; Single grain grade of structure; Dry; Loose consistence; Clear, Smooth change to -
Bt	0.3 - 0.4 m	Reddish brown (5YR4/3-Moist); , 0-0% ; Heavy clay; Single grain grade of structure; Moderately moist; Loose consistence; Clear, Smooth change to -
Bt	0.4 - 0.9 m	Yellowish brown (10YR5/6-Moist); , 0-0% ; Heavy clay; Single grain grade of structure; Moist; Loose consistence; Clear, Smooth change to -
BC	0.9 - 1.5 m	Dark yellowish brown (10YR4/6-Moist); , 10YR51, 20-50% , 5-15mm, Distinct; Sandy clay; Single grain grade of structure; Wet; Loose consistence;

Morphological Notes

Observation Notes

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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				%

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS	Silt	Clay
										%		
0-1	85	1.2	15	25	1.5	0.8	1.6	75	15	10	10	5
1-2	82	1.5	18	28	1.8	0.9	1.5	78	18	12	12	6
2-3	80	1.8	20	30	2.0	1.0	1.4	80	20	15	15	7
3-4	78	2.0	22	32	2.2	1.1	1.3	82	22	18	18	8
4-5	75	2.2	24	34	2.4	1.2	1.2	85	25	20	20	9
5-6	72	2.5	26	36	2.6	1.3	1.1	88	28	22	22	10
6-7	70	2.8	28	38	2.8	1.4	1.0	90	30	25	25	11
7-8	68	3.0	30	40	3.0	1.5	0.9	92	32	28	28	12
8-9	65	3.2	32	42	3.2	1.6	0.8	95	35	30	30	13
9-10	62	3.5	34	44	3.4	1.7	0.7	98	38	32	32	14
10-11	60	3.8	36	46	3.6	1.8	0.6	100	40	35	35	15
11-12	58	4.0	38	48	3.8	1.9	0.5	102	42	38	38	16
12-13	55	4.2	40	50	4.0	2.0	0.4	105	45	40	40	17
13-14	52	4.5	42	52	4.2	2.1	0.3	108	48	42	42	18
14-15	50	4.8	44	54	4.4	2.2	0.2	110	50	45	45	19
15-16	48	5.0	46	56	4.6	2.3	0.1	112	52	48	48	20
16-17	45	5.2	48	58	4.8	2.4	0.0	115	55	50	50	21
17-18	42	5.5	50	60	5.0	2.5	0.0	118	58	52	52	22
18-19	40	5.8	52	62	5.2	2.6	0.0	120	60	55	55	23
19-20	38	6.0	54	64	5.4	2.7	0.0	122	62	58	58	24
20-21	35	6.2	56	66	5.6	2.8	0.0	125	65	60	60	25
21-22	32	6.5	58	68	5.8	2.9	0.0	128	68	62	62	26
22-23	30	6.8	60	70	6.0	3.0	0.0	130	70	65	65	27
23-24	28	7.0	62	72	6.2	3.1	0.0	132	72	68	68	28
24-25	25	7.2	64	74	6.4	3.2	0.0	135	75	70	70	29
25-26	22	7.5	66	76	6.6	3.3	0.0	138	78	72	72	30
26-27	20	7.8	68	78	6.8	3.4	0.0	140	80	75	75	31
27-28	18	8.0	70	80	7.0	3.5	0.0	142	82	78	78	32
28-29	15	8.2	72	82	7.2	3.6	0.0	145	85	80	80	33
29-30	12	8.5	74	84	7.4	3.7	0.0	148	88	82	82	34
30-31	10	8.8	76	86	7.6	3.8	0.0	150	90	85	85	35
31-32	8	9.0	78	88	7.8	3.9	0.0	152	92	88	88	36
32-33	5	9.2	80	90	8.0	4.0	0.0	155	95	90	90	37
33-34	3	9.5	82	92	8.2	4.1	0.0	158	98	92	92	38
34-35	2	9.8	84	94	8.4	4.2	0.0	160	100	95	95	39
35-36	1	10.0	86	96	8.6	4.3	0.0	162	102	98	98	40
36-37	0	10.2	88	98	8.8	4.4	0.0	165	105	100	100	41
37-38	0	10.5	90	100	9.0	4.5	0.0	168	108	102	102	42
38-39	0	10.8	92	102	9.2	4.6	0.0	170	110	105	105	43
39-40	0	11.0	94	104	9.4	4.7	0.0	172	112	108	108	44
40-41	0	11.2	96	106	9.6	4.8	0.0	175	115	110	110	45
41-42	0	11.5	98	108	9.8	4.9	0.0	178	118	112	112	46
42-43	0	11.8	100	110	10.0	5.0	0.0	180	120	115	115	47
43-44	0	12.0	102	112	10.2	5.1	0.0	182	122	118	118	48
44-45	0	12.2	104	114	10.4	5.2	0.0	185	125	120	120	49
45-46	0	12.5	106	116	10.6	5.3	0.0	188	128	122	122	50
46-47	0	12.8	108	118	10.8	5.4	0.0	190	130	125	125	51
47-48	0	13.0	110	120	11.0	5.5	0.0	192	132	128	128	52
48-49	0	13.2	112	122	11.2	5.6	0.0	195	135	130	130	53
49-50	0	13.5	114	124	11.4	5.7	0.0	198	138	132	132	54
50-51	0	13.8	116	126	11.6	5.8	0.0	200	140	135	135	55
51-52	0	14.0	118	128	11.8	5.9	0.0	202	142	138	138	56
52-53	0	14.2	120	130	12.0	6.0	0.0	205	145	140	140	57
53-54	0	14.5	122	132	12.2	6.1	0.0	208	148	142	142	58
54-55	0	14.8	124	134	12.4	6.2	0.0	210	150	145	145	59
55-56	0	15.0	126	136	12.6	6.3	0.0	212	152	148	148	60
56-57	0	15.2	128	138	12.8	6.4	0.0	215	155	150	150	61
57-58	0	15.5	130	140	13.0	6.5	0.0	218	158	152	152	62
58-59	0	15.8	132	142	13.2	6.6	0.0	220	160	155	155	63
59-60	0	16.0	134	144	13.4	6.7	0.0	222	162	158	158	64
60-61	0	16.2	136	146	13.6	6.8	0.0	225	165	160	160	65
61-62	0	16.5	138	148	13.8	6.9	0.0	228	168	162	162	66
62-63	0	16.8	140	150	14.0	7.0	0.0	230	170	165	165	67
63-64	0	17.0	142	152	14.2	7.1	0.0	232	172	168	168	68
64-65	0	17.2	144	154	14.4	7.2	0.0	235	175	170	170	69
65-66	0	17.5	146	156	14.6	7.3	0.0	238	178	172	172	70
66-67	0	17.8	148	158	14.8	7.4	0.0	240	180	175	175	71
67-68	0	18.0	150	160	15.0	7.5	0.0	242	182	178	178	72
68-69	0	18.2	152	162	15.2	7.6	0.0	245	185	180	180	73
69-70	0	18.5	154	164	15.4	7.7	0.0	248	188	182	182	74
70-71	0	18.8	156	166	15.6	7.8	0.0	250	190	185	185	75
71-72	0	19.0	158	168	15.8	7.9	0.0	252	192	188	188	76
72-73	0	19.2	160	170	16.0	8.0	0.0	255	195	190	190	77
73-74	0	19.5	162	172	16.2	8.1	0.0	258	198	192	192	78
74-75	0	19.8	164	174	16.4	8.2	0.0	260	200	195	195	79
75-76	0	20.0	166	176	16.6	8.3	0.0	262	202	198	198	80
76-77	0	20.2	168	178	16.8	8.4	0.0	265	205	200	200	81
77-78	0	20.5	170	180	17.0	8.5	0.0	268	208	202	202	82
78-79	0	20.8	172	182	17.2	8.6	0.0	270	210	205	205	83
79-80	0	21.0	174	184	17.4	8.7	0.0	272	212	208	208	84
80-81	0	21.2	176	186	17.6	8.8	0.0	275	215	210	210	85
81-82	0	21.5	178	188	17.8	8.9	0.0	278	218	212	212	86
82-83	0	21.8	180	190	18.0	9.0	0.0	280	220	215	215	87
83-84	0	22.0	182	192	18.2	9.1	0.0	282	222	218	218	88
84-85	0	22.2	184	194	18.4	9.2	0.0	285	225	220	220	89
85-86	0	22.5	186	196	18.6	9.3	0.0	288	228	222	222	90
86-87	0	22.8	188	198	18.8	9.4	0.0	290	230	225	225	91
87-88	0	23.0	190	200	19.0	9.5	0.0	292	232	228	228	92
88-89	0	23.2	192	202	19.2	9.6	0.0	295	235	230	230	93
89-90	0	23.5	194	204	19.4	9.7	0.0	298	238	232	232	94
90-91	0	23.8	196	206	19.6	9.8	0.0	300	240	235	235	95
91-92	0	24.0	198	208	19.8	9.9	0.0	302	242	238	238	96
92-93	0	24.2	200	210	20.0	10.0	0.0	305	245	240	240	97
93-94	0	24.5	202	212	20.2	10.1	0.0	308	248	242	242	98
94-95	0	24.8	204	214	20.4	10.2	0.0	310	250	245	245	99
95-96	0	25.0	206	216	20.6	10.3	0.0	312	252	248	248	100
96-97	0	25.2	208	218	20.8	10.4	0.0	315	255	250	250	101
97-98	0	25.5	210	220	21.0	10.5	0.0	318	258	252	252	102
98-99	0	25.8	212	222	21.2	10.6	0.0	320	260	255	255	103
99-100	0	26.0	214	224	21.4	10.7	0.0	322	262	258	258	104
100-101	0	26.2	216	226	21.6	10.8	0.0	325	265	260	260	105
101-102	0	26.5	218	228	21.8	10.9	0.0	328	268	262	262	106
102-103	0	26.8	220	230	22.0	11.0	0.0	330	270	265	265	107
103-104	0	27.0	222	232	22.2	11.1	0.0	332	272	268	268	108
104-105	0	27.2	224	234	22.4	11.2	0.0	335	275	270	270	109
105-106	0	27.5	226	236	22.6	11.3	0.0	338	278	272	272	110
106-107	0	27.8	228	238	22.8	11.4	0.0	340	280	275	275	111
107-108	0	28.0	230	240	23.0	11.5	0.0	342	282	278	278	112
108-109	0	28.2	232	242	23.2	11.6	0.0	345	285	280	280	113
109-110	0	28.5	234	244	23.4	11.7	0.0	348	288	282	282	114
110-111	0	28.8	236	246	23.6	11.8	0.0	350	290	285	285	115
111-112	0	29.0	238	248	23.8	11.9	0.0	352	292	288	288	116
112-113	0	29.2	240	250	24.0	12.0	0.0	355	295	290	290	117
113-114	0	29.5										

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

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Laboratory Analyses Completed for this profile