

**Project Name:** Comprehensive resource assessment for forestry  
**Project Code:** CRA **Site ID:** 0019 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Henry Smolinski	<b>Locality:</b>	
<b>Date Desc.:</b>	19/03/97	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6361130 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	463304 Datum: AGD84	<b>Drainage:</b>	No Data

#### Geology

<b>ExposureType:</b>	Existing vertical exposure	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Valley flat	<b>Slope Category:</b>	No Data
<b>Slope:</b>	9 %	<b>Aspect:</b>	45 degrees

#### Surface Soil Condition

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Ferric Mottled-Subnatric Red Sodosol		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Confidence level not specified			

#### Site

#### Vegetation:

#### Surface Coarse

#### Profile

A11	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam, fine sandy; Smooth-ped fabric; 50-90%, fine
		gravelly, 2-6mm, Ironstone, coarse fragments; Field pH 6 (pH meter); Clear change to -
A12	0.1 - 0.5 m	Strong brown (7.5YR4/6-Moist); ; Sandy clay loam; Strong grade of structure, 2-5 mm,
	Granular; Rough-	ped fabric; 50-90%, fine gravelly, 2-6mm, Ironstone, coarse fragments; Field pH 7 (pH
	meter); Clear	change to -
B2	0.5 - 1 m	Yellowish red (5YR5/6-Moist); , 10YR68, 10-20% , 0-5mm, Distinct; , 2.5YR48, 2-10% , 0-
	5mm, Distinct;	Light medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped
	fabric; Field pH 7	(pH meter);

#### Morphological Notes

A12 LSCL is heavy

#### Observation Notes

#### Site Notes

Red and White clay at ?---!!!!NB: on 8/11/2000 I changed this soil from 462 (brown sandy earth) to 303 (loamy gravel)!!!!!!!!!!!!

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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 - 0.1	5.6B 6.4H	10B	27.76H	4.11	0.21	0.16	0.04J		32.24D	
0 - 0.1	5.6B 6.4H	10B	27.76H	4.11	0.21	0.16	0.04J		32.24D	
0.1 - 0.5	9.1B 7.2H	3B	8.66A	2.46	0.26	0.12			11.5D	
0.1 - 0.5	9.1B 7.2H	3B	8.66A	2.46	0.26	0.12			11.5D	
0.5 - 1	6.4B 7.3H	8B	1.33A	4.74	0.04	0.58			6.69D	
0.5 - 1	6.4B 7.3H	8B	1.33A	4.74	0.04	0.58			6.69D	

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 - 0.1		9.09D		350B	0.374E				6.6
0 - 0.1		9.09D		350B	0.374E				6.6
0.1 - 0.5		2.26D		100B	0.058E				12.4
0.1 - 0.5		2.26D		100B	0.058E				12.4
0.5 - 1		0.38D		48B	0.015E				16.1
0.5 - 1		0.38D		48B	0.015E				16.1

**Laboratory Analyses Completed for this profile**

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - 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
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,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 (Mn2+) 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
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
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

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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_gt2m	> 2mm 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)