

**Project Name:** Salmon Gums survey  
**Project Code:** SGS **Site ID:** 0004 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

<b>Desc. By:</b>	Brendan Nicholas	<b>Locality:</b>	
<b>Date Desc.:</b>	26/10/95	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6273827 AMG zone: 51	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	363056 Datum: AGD84	<b>Drainage:</b>	Imperfectly drained

**Geology**

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

**Landform**

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0.5 %	<b>Aspect:</b>	No Data

**Surface Soil Condition** Firm

**Erosion** (wind); (scald) (sheet) (wave) (rill) (mass)  
(gully) (stbank) (tunnel)

**Soil Classification**

<b>Australian Soil Classification:</b>	Eutrophic Mottled-Hypernatric Grey Sodosol	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	All necessary analytical data are available.	<b>Principal Profile Form:</b>	N/A
<b>Site Disturbance</b>	Cultivation. Rainfed	<b>Great Soil Group:</b>	N/A

**Vegetation**

**Surface Coarse Fragments**

**Profile Morphology**

0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Very weak consistence; Common (10 - 20 %), Ferruginous, Very coarse (20 - 60 mm), ; Clear, Smooth change to -
0.1 - 0.22 m	Dark greyish brown (10YR4/2-Moist); ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Very weak consistence; Common (10 - 20 %), Ferruginous, Very coarse (20 - 60 mm), ; Gradual, Smooth change to -
0.22 - 0.4 m	Brown (10YR5/3-Moist); ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Very weak consistence; Many (20 - 50 %), Ferruginous, Very coarse (20 - 60 mm), ; Gradual, Smooth change to -
0.4 - 0.63 m	Very pale brown (10YR7/4-Moist); , 10YR66, 10-20% , 5-15mm, Distinct; Clayey sand; Single grain grade of structure; Sandy (grains prominent) fabric; Firm consistence; Many (20 - 50 %), Ferruginous, Very coarse (20 - 60 mm), ; Fragipan, Weakly cemented, Massive; Clear, Smooth change to -
0.63 - 0.83 m	Light grey (2.5Y7/2-Moist); , 10YR68, 10-20% , 5-15mm, Distinct; Sandy clay loam; Massive grade of structure; Firm consistence; Gradual, Smooth change to -
0.83 - 1.2 m	Light grey (5Y7/2-Moist); , 10YR68, 10-20% , 5-15mm, Distinct; Clay loam; Massive grade of structure; Strong consistence; Gradual, Smooth change to -
1.2 - 1.5 m	White (5Y8/1-Moist); , 10YR68, 10-20% , 5-15mm, Distinct; Clay loam; Massive grade of structure; Smooth-ped fabric; Strong consistence; Gradual, Smooth change to -
1.5 - 1.8 m	; Light clay; Massive grade of structure; Smooth-ped fabric; Very strong consistence;

**Morphological Notes**

Clay skins

**Observation Notes**

**Site Notes**

Chem. & B.D. analysis. Marks water logging trial.

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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	4.9B 5.6H	18B	2.56H	0.76	0.16	0.4	0.07J		3.88D	
0.1 - 0.22	4.7B 5.4H	9B	0.82H	0.52	0.1	0.49			1.93D	
0.22 - 0.4	5.2B 6H	7B	0.86H	0.53	0.1	0.16	0.04J		1.65D	
0.4 - 0.63	5.6B 6.6H	11B	0.98A	1	0.18	0.59			2.75D	
0.63 - 0.83	6.2B 6.9H	49B	1.17A	2.65	0.78	1.83			6.43D	
0.83 - 1.2	7.1B 7.8H	67B	1.81A	4.42	1.16	3.64			11.03D	
1.2 - 1.5	7.5B 8.2H	100B	1.41E	2.81	0.71	3.1		8B	8.03D	38.75
1.5 - 1.8	7.7B 8.3H	110B	0.8E	2.02	0.39	1.94		5B	5.15D	38.80

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		2.04D		110B	0.156E			
1								
0.1 - 0.22		0.73D		58B	0.056E			
2.9								
0.22 - 0.4		0.33D		32B	0.026E			
6.7								
0.4 - 0.63		0.26D		26B	0.023E			
14								
0.63 - 0.83		0.17D		33B	0.016E			
35.5								
0.83 - 1.2		0.12D		36B	0.012E			
32.6								
1.2 - 1.5		0.05D		22B	0.006E			
42.5								
1.5 - 1.8		0.03D		12B	0.003E			
33.4								

**Laboratory Analyses Completed for this profile**

15\_NR\_AL Aluminium Cation - meq per 100g of soil - Not recorded  
 15\_NR\_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available  
 15\_NR\_CMR Exchangeable bases (Ca/Mg ratio) - Not recorded  
 15\_NR\_MN Exchangeable bases (Mn++) - 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

15C1_CEC	soluble salts
15C1_K	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	

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15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> , Mg <sup>2+</sup> , Na <sup>+</sup> , K <sup>+</sup> ) 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_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
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method 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)