## Queensland Government Soil and Land Information Site Listing Report

# Project NWREC Site 4 Observation 1

SALI4320

Project description									
Project name:	North West Queensland Reconnaissance Study								
Project status: Data is from an active project and may be subject to change through additions/updates or further quality assessment processes									
Location: North West Queensland									
Site characteristics									
Date described:	Date described: 7/05/2008 Observation type: Relatively undisturbed soil core								
Site Type:	Free survey site	Observation class:	Class IIIb (core analytical suite)						
Slope (%):	0.5	Morphological type:	Flat						
Slope type	Estimate	Landform element:	Plain						
Geology:	Allaru Member: Claystone, siltstone, silty limestone	Landform pattern:	Plain						
Soil Name:	Not recorded	Substrate lithology:	Siltstone						
Runoff:	Not recorded	Depth to free water:	Not recorded						
Permeability:	Not recorded	Erosion:	No type recorded - old data only						
Drainage:	Not recorded	Microrelief type:	Zero or none						
Disturbance:	No effective disturbance	Proportion gilgai:	N/A						
Rock outcrop:	Not recorded	Vertical interval (m):	N/A						
Surface condition:	Self-mulching; Periodic cracking	Horizontal interval (m):	N/A						
Surface coarse fragments:	Very few (<2%), subrounded, silcrete, medium pebbles (6-20 mm)	Microrelief component sampled:	N/A						

	Site location									
Datum	Latitude (dd)	Longitude (dd)	Zone	Location accuracy (m)	Location measurement method					
GDA 94	-20.63010	141.36352	54	537873	7718746	Notroporded	Averaging CDC			
GDA 2020	-20.63010	141.36353	54	537874	7718748	Not recorded	Averaging GPS			

Soil classification										
Australian Soil Classification (ASC) Confidence ASC Technical Reference Buried GSG PP										
Epihypersodic, Self-mulching, Grey Vertosol; non-gravelly, fine, very fine, moderate.		Isbell (2002) The Australian Soil Classification Revised Edition	N/A	Grey clay	Ug5.22					

	Vegetation						
Community name Grassland with emergent shrubs							
Stratum	Species	Common name					
Mid 1.01-3.0 m	Atalaya hemiglauca	whitewood					
	Capparis lasiantha	nipan, splitjack					
	Ehretia saligna						
Lowest 0.26-0.5 m	Cenchrus ciliaris	buffel grass					
	Astrebla lappacea	curly mitchell grass					
	Salsola kali	soft roly-poly					

	Profile morphology										
No	Name	Upper depth (m)	depth (m)	Colour	Mottles	Textures	Structures	Coarse fragments	Segregations	Strengths	Bounds
1	A1	0		Dark greyish brown (10YR 4/2) moist		Light medium clay	Strong <2 mm Granular structure;	very few (<2%) subrounded silcrete medium pebbles (6- 20 mm);	No segregations;		clear
2	B21	0.1	0.3	Dark greyish brown (10YR 4/2) moist		Medium heavy clay	Weak 2-5 mm Subangular blocky structure;	very few (<2%) subrounded silcrete small pebbles (2-6 mm);	Very few (<2%) Fine (<2mm) Calcareous Soft segregations;		clear
3	B22	0.3	0.6	Dark greyish brown (10YR 4/2) moist		Heavy clay	Moderate 5-10 mm Lenticular structure;	very few (<2%) subrounded silcrete small pebbles (2-6 mm);	Very few (<2%) Fine (<2mm) Calcareous Soft segregations;		diffuse
4	B23	0.6	0.8	Dark grevish brown (10YR 4/2) moist		Heavy clay	Strong 2-5 mm Lenticular structure;		Very few (<2%) Fine (<2mm) Calcareous Soft segregations;		clear

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5	В3	0.8	0.85	Dark greyish brown (10YR 4/2) moist	, ,		few (2-10%) angular		
				(1011/4/2) IIIOISI			siltstone small pebbles (2-6 mm);	(<2%) Fine (<2mm) Calcareous Soft	
						•		segregations;	

	Notes						
Note level	ote level Horizon name Horizon no Note						
Site							

		Laborat	ory test results				
				Sample	1	2	3
				Upper depth (m)	0	0	0.2
				Lower depth (m)	0.1	0.1	0.3
Group	Method	Code	Units	Bulked Sample	Y	N	N
Profile General	pH - 1:5 water	4A1			8.6	8.6	9.2
	pH - 1:5 0.01M CaCl2	4B1			7.7	7.6	7.8
	EC - 1:5 water	3A1	dS/m		0.08	0.08	0.11
	CI - 1:5 water - automated	5A2	mg/kg		<20	<20	<20
	Water sol NO3 - automated	7B1	mg/kg		4	3	2
	OC - Dumas, infrared (pre-treatment)	6B3a	%		0.5	0.6	0.4
	Coarse sand (0.2-2.0 mm)	2Z2_CS	%			7	7
	Fine sand (0.02-0.2 mm)	2Z2_FS	%			28	28
	Silt (2-20 um)	2Z2_Silt	%			12	10
	Clay (<2 um)	2Z2_Clay	%			57	60
	PSA sum	2Z2_sum	%			104	105
	Moisture content - air-dry	2A1	%			6.8	8.2
	Moisture content - 15 bar	2E1	%			16.8	18.4
	Dispersion ratio R1 (silt+clay)	2Z1_R1				0.39	0.42
	Total S XRF	10A1	%			0.02	0.01
	Total P XRF	9A1	%			0.03	0.03
	Total K XRF	17A1	%			0.930	0.900
	Bulk Density (small core)	503.01a	g/cm3			0.862	1.158
Alcoholic Cations	Exch Ca - alcoh. NH4Cl, pH8.5, prewash	15C1_Ca	cmol_c/kg			40.30	40.60
	Exch Mg - alcoh. NH4Cl, pH8.5, prewash	15C1_Mg	cmol_c/kg			3.18	3.15
	Exch Na- alcoh. NH4Cl, pH8.5, prewash	15C1_Na	cmol_c/kg			0.26	1.00
	Exch K - alcoh. NH4Cl, pH8.5, prewash	15C1_K	cmol_c/kg			1.45	0.88
	CEC - alcoh. NH4Cl, pH8.5, prewash	15C1_CEC	cmol_c/kg			42	43
Other Cations	ESP (Exch. Na %)	15N1	%			0.6	2.3
Other Bulk	DTPA Extr Cu	12A1_Cu	mg/kg		0.6		
	DTPA Extr Fe	12A1_Fe	mg/kg		9.7		
	DTPA Extr Mn	12A1_Mn	mg/kg		9.7		
	DTPA Extr Zn	12A1_Zn	mg/kg		0.2		
	Extr K - HCI	18B1	cmol_c/kg		1.2		
	P-acid extr automated	9G2	mg/kg		93		
	P-bicarb extr. (Colwell P) - automated	9B2	mg/kg		13		
	CaPhos Extr S - ICPAES	10B3	mg/kg		1		
Other Analyses Completed	CaCl2 Extr B - ICPAES	12C2	mg/kg		0.4		

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Photo No: 16 Date: 7/05/2008

Title: NWREC Site 4 - Landscape

Desc:



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