

Project Name: Soil Investigation of the Plateau and Associated Landforms from the Headwaters of the

Fish River

Project Code: FISHR_2010 **Site ID:** 30 **Observation ID:** 1

Agency Name: NT Natural Resources, Environment and the Arts

Site Information

Desc. By:

Date Desc.: 14/04/10

Map Ref.:

Northing/Long.: 130.514139

Easting/Lat.: -14.239694 Datum: GDA94

Locality:

Elevation: No Data

Rainfall: No Data

Runoff: Slow

Drainage: No Data

Geology

Exposure Type: No Data

Geol. Ref.: No Data

Conf. Sub. is Parent. Mat.: No Data

Substrate Material: No Data

Landform

Rel/Slope Class: No Data

Morph. Type: No Data

Elem. Type: Drainage depression

Slope: 2 %

Pattern Type: Alluvial plain

Relief: No Data

Slope Category: No Data

Aspect: No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:

Acidic Kandosolic Redoxic Hydrosol Medium Non-gravelly Silty Moderately deep

Mapping Unit: N/A

Principal Profile Form: N/A

ASC Confidence:

All necessary analytical data are available.

Great Soil Group: N/A

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A11 0 - 0.03 m Black (10YR2/1-Moist); ; Silty loam; Massive grade of structure; Earthy fabric; Field pH 4.7 (pH meter);

A12 0.03 - 0.1 m Black (10YR2/1-Moist); ; Silty loam; Massive grade of structure; Earthy fabric; Field pH 4.7 (pH meter);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations		Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg	K	Cmol (+)/kg	Acidity			%
0 - 0.03	4.4C 4.7A	0.103A	1.48H	1	0.18	0.09	1.81J			
0.03 - 0.1	4.4C 4.7A	0.016A	0.14H	0.16	0.12	0.05	1.94J			

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 - 0.03 20.3	3.57A	16J	0.26D	2	30.6A	37.4	11.8
0.03 - 0.1 18.6	2.88A	12J	0.16D	1	68G 35.2A	35.9	10.4
					71.1G		

Laboratory Analyses Completed for this profile

10D1	Potassium chloride - 40 sulfur (KCl-40)-S
12A1_CU	DTPA - extractable copper, zinc, manganese and iron
12A1_FE	DTPA - extractable copper, zinc, manganese and iron
12A1_MN	DTPA - extractable copper, zinc, manganese and iron
12A1_ZN	DTPA - extractable copper, zinc, manganese and iron
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
18A1	Bicarbonate-extractable potassium
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1	Organic carbon - Walkley and Black
7A5	Total nitrogen - high frequency induction furnace, thermal conductivity
9B1	Bicarbonate-extractable phosphorus - manual colour
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_S	Sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P10_GRAV	Gravel (%)