Project Name: Project Code: Agency Name	REG Site ID:		Observation ID:	1			
Site Information	on						
Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	G.G. Murtha 04/09/79 Sheet No. : 8162 1:100000 146.0833333333333 -17.68333333333333	Locality: Elevation: Rainfall: Runoff: Drainage:	10 metres 0 No runoff Poorly drained				
<u>Geology</u> ExposureType: Geol. Ref.:	Soil pit QA	Conf. Sub. is Pare Substrate Materia					
Land Form Rel/Slope Class Morph. Type: Elem. Type: Slope:	: Level plain <9m <1% Flat Swamp 0 %	Pattern Type: Relief: Slope Category: Aspect:	Alluvial plain 0 metres Level 0 degrees				
Surface Soil C	ondition (dry): Soft						
Erosion:							
Soil Classifica	tion						
ASC Confidence All necessary an	mosolic Oxyaquic Hydrosol	Princi Great	ing Unit: ipal Profile Form: Soil Group:	N/A Gn3.91 No suitable group			
Vegetation:	- Fragmanta, Na autora ana	roo frogmonto					
	e Fragments: No surface coal	rse tragments					
Profile Morpho A11 0-0.1 r	n Dark greyish brown (10)			structure, 5-10 mm, ndant, fine (1-2mm) roots;			
A12 0.1 - 0.2		Dark greyish brown (10YR4/2-Moist); ; Clay loam (Heavy); Strong grade of structure, 5-10 mm, Subangular blocky; Wet; Moderately plastic; Normal plasticity; Many, very fine (0-1mm) roots; Gradual change to -					
B21 0.2 - 0.3				tructure, 5-10 mm, mon, very fine (0-1mm) roots;			
B22 0.3 - 0.6	6 m Dark grey (5Y4/1-Moist) Moderately plastic; Norr			Subangular blocky; Wet;			
B23 0.6 - 0.9	9 m Dark grey (10YR4/1-Mo Wet; Moderately plastic;		y; Strong grade of s	tructure, Subangular blocky;			
Morphologica	Notes						

**Observation Notes** 

Site Notes

COWLEY

Project Name:	Regional				
Project Code:	REG	Site ID:	T270	Observation ID:	1
Agency Name:	CSIRO Divi	ision of Soils (C	(LD)		

## Laboratory Test Results:

Depth	рН	1:5 EC EX Ca	kchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Mg	n	Cmol (				%
0 - 0.1	4.5A	0.316A 1.7H	3.83	0.36	0.7	3.7F	6.1A 25.3C	10.3F	11.48 2.77
0.1 - 0.2	4.8A	0.233A 1.18H	3.5	0.27	0.76	3.3F	5.9A 20C	9F	12.88 3.80
0.2 - 0.3	5A	0.21A 1.13H	3.2	0.25	0.8	2.4F	5.5A 14.3C	7.8F	14.55 5.59
0.3 - 0.6	5.3A	0.126A 0.93H	3.59	0.27	0.7	2.2F	5.6A 12.2C	7.7F	12.50 5.74
0.6 - 0.9	5.3A	0.12A				2.2F	13.9C		

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size	Analysis	5
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.1		6.39D	78B	0.095A	0.39A	2.06A		0	6A	5	42	47
0.1 - 0.2		4.21D	65B		0.26A			0	ЗA	7	34	56
0.2 - 0.3		2.84D	70B		0.17A			0	4A	13	35	48
0.3 - 0.6		1.98D	59B		0.11A			0	ЗA	11	36	51
0.6 - 0.9				0.027A		0.98A		0	6A	14	30	50

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat	
m		Sat.	0.05 Bar		0.5 Bar /g - m3/m3		5 Bar	15 Bar	mm/h	mm/h



## Project Name:RegionalProject Code:REGSite ID:T270Agency Name:CSIRO Division of Soils (QLD)

## Observation ID: 1

## Laboratory Analyses Completed for this profile

10A1 15A2_CEC 15D1_CEC 15E1_CA 15E1_K 15E1_K	Total sulfur - X-ray fluorescence Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA 15G_C	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
17A1	Total potassium - X-ray fluorescence
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl, automated colour
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
MIN_EC	Exchange Capacity - Minerology
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_Z	Silt (%) - Coventry and Fett pipette method
P10_GRAV	Gravel (%)
XRD_C_Ch2	Chloritized 2:1 minerals - X-Ray Diffraction
XRD_C_Gb	Gibbsite - X-Ray Diffraction
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_K2O	K2O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_Ka	Kaolin - X-Ray Diffraction