

Supplementary material

**Variations in wetland conditions within the Fitzroy Basin, north-eastern Australia:
a palaeoecological approach**

Johanna M. Hanson^{A,C,D}, Maria L. VanderGragt^B, Kevin J. Welsh^A and Patrick T. Moss^A

^ASchool of Earth and Environmental Sciences, University of Queensland, 280–284 Sir Fred Schonell Drive, Saint Lucia, Brisbane, Qld 4067, Australia.

^BDepartment of Environment and Science, Queensland Government, 41 Boggo Road, Dutton Park, Brisbane, Qld 4102, Australia.

^CSchool of Earth and Environment, University of Canterbury, 20 Kirkwood Avenue, Upper Riccarton, Christchurch 8041, New Zealand.

^DCorresponding author. Email: johanna.hanson@pg.canterbury.ac.nz

Table S1. Troels-Smith sediment description for Lake Mary North.

Level (cm)		Physical features					Components						Comments		
Upper	Lower	Darkness	Stratification	Elasticity	Dryness	Colour	Structure	Humidity	Upper boundary	Woody detritus	Herb detritus	Fine detritus		Iron oxides	Clay
0	5	2.5	0	0	4	10YR 6/3 Pale Brown	Fibrous	-	0	-	x	x	-	-	Modern root mass
5	10	2.5	1	0	3.5	10YR 3/1 Very Dark Grey	Fibrous	-	0	-	x	x	-	-	
10	15	3	1	4	3		Fibrous with increasing homogeneity	-	1	-	x	x	-	x	-
15	20	3	0	4	3	10YR 2/1 Black	More homogenous	-	1	-	x	x	x	x	-
20	25	4	5	3	2.5	10 YR 3/1 Very Dark Grey	Homogenous	-	0	x	x	x	-	x	-
25	30	4	0	4	2	10YR 2/1 Black	Homogenous	-	0	-	x	x	-	x	-
30	35	4	0	4	2		Homogenous	-	0	x	x	x	x	x	-
35	40	4	0	4	2.5		Homogenous	-	0	-	x	x	x	x	-
40	46	4	0	4	2.5		Homogenous	-	0	x	x	x	x	x	-

Table S2. Troels-Smith sediment description for Tualka.

Level (cm)		Physical features					Components								
Upper	Lower	Darkness	Stratification	Elasticity	Dryness	Colour	Structure	Humidity	Upper boundary	Woody detritus	Herb detritus	Fine detritus	Charcoal	Iron oxides	Clay
0	5	1	0	0	3	10YR 4/2 Dark Greyish Brown	homogenous	-	0	-	x	-	-	x	x
5	10	1	0	0	3		homogenous	-	0	-	x	x	x	x	x
10	15	1	0	0	3		homogenous	-	0	-	x	x	-	x	x
15	20	1	0	0	3		homogenous	-	0	-	-	x	x	x	x
20	25	1	0	1	3		homogenous	-	0	x	-	-	x	x	x
25	30	1	0	0	3		homogenous	-	0	-	-	-	x	x	x
30	35	1	0	0	3	10YR 4/1 Dark Grey	homogenous	-	0	-	-	-	x	x	x
35	40	1	0	0	3		homogenous	-	0	-	x	-	x	x	x
40	45	1	0	0	3		homogenous	-	0	x	-	x	x	x	x