

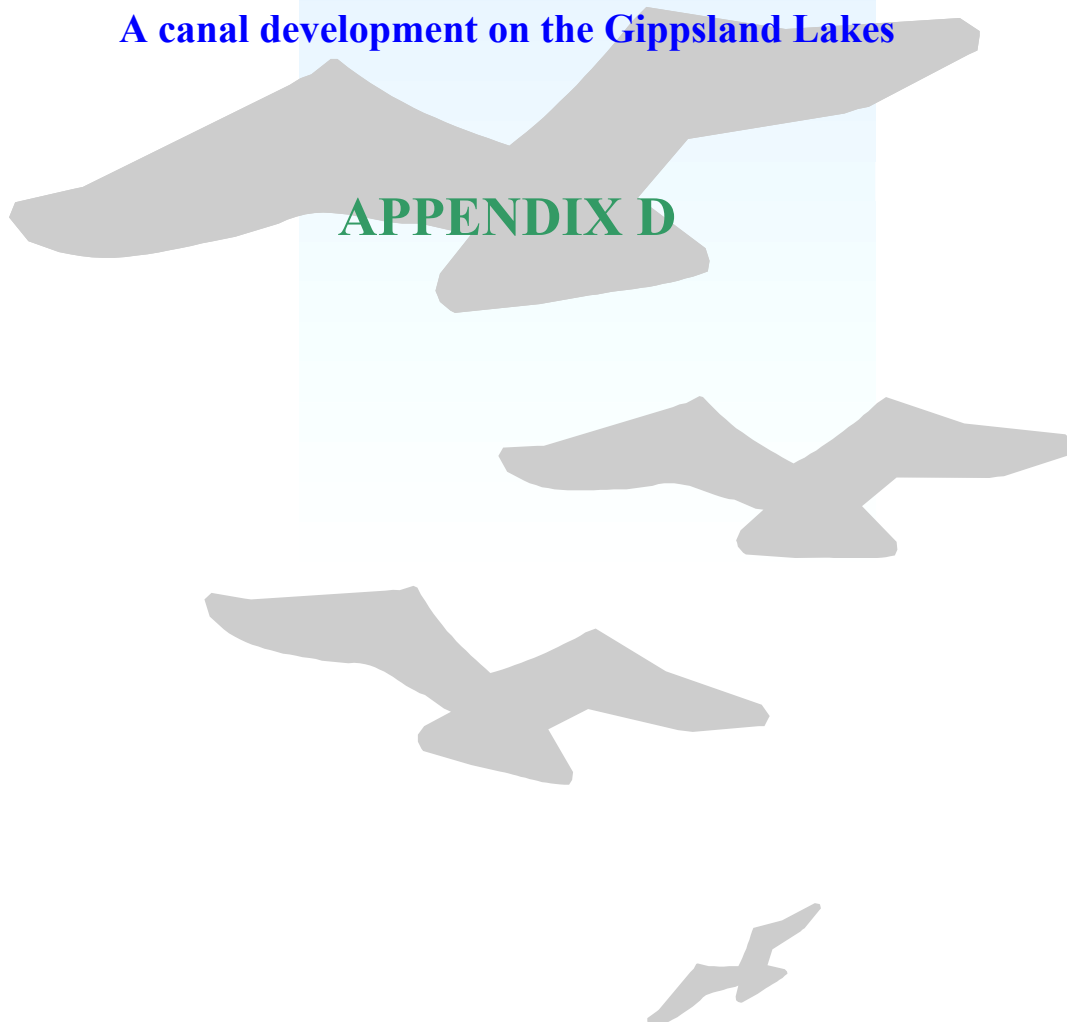


ENVIRONMENT EFFECTS STUDY

WELLINGTON WATERS

A canal development on the Gippsland Lakes

APPENDIX D



Project: Wellington Waters
 Location: TP1 and TP2
 Date: 6/11/02
 Meinhardt Rep. H Szabo

Project No. 22400

Sample Number	pH Test (1)	Organic matter present	AASS present	Reaction with Hydrogen peroxide (2)	Reaction comments	pHFOX (3)	pHFOX-pHF (4)	PASS present	Soil Description	Laboratory Analysis Required
TP1-01	5.15	YES	NO	L	No reaction, brown.	3.21	YES	NO	SILTY CLAY (PEAT), trace sand, black.	NO
TP1-02	6.45	NO	NO	L	Minor bubbles, light yellow	3.45	YES	NO	SAND, medium - fine grained, creamy brown, wet	NO
TP1-03	6.33	YES	NO	M - H	Fizzing, yellow / orange brown	2.21	YES	YES	SAND, light grey, wet	NO
TP1-04	9.36	YES	NO	H	Fizzing, yellow - brown	2.46	YES	YES	SANDY CLAY, grey - brown, trace orange, wet	YES
TP1-05	7.2	YES	NO	M	Fizzing, light yellow	5.18	YES	YES	SANDY CLAY, grey - green, wet	NO
TP1-06	8.5	NO	NO	H	Fizzing, yellow	7.11	YES	YES	SAND, trace clay, wet	NO
TP1-07	8.93	NO	NO	H	Fizzing, light yellow	7.1	YES	YES	SANDY CLAY - CLAYEY SAND, grey - green, wet	NO
TP1-08	8.95	NO	NO	H	Fizzing, yellow	7.44	YES	YES	SAND, trace clay, light grey, wet	NO
TP1-09	8.79	NO	NO	H	Fizzing, pale yellow	5.77	YES	YES	SAND, trace clay, green - grey, wet	YES
TP2-01	4.6	YES	NO	L	No reaction	2.53	YES	NO	SILTY CLAY (PEAT), dark brown, - black, moist	NO
TP2-02	4.65	NO	NO	L - M	Minor bubbles, yellow brown	2.32	YES	NO	SAND, light brown	NO
TP2-03	4.91	YES	NO	H	Fizzing, yellow	2.32	YES	YES	SAND, grey, wet	YES
TP2-04	4.97	YES	NO	M - H	Fizzing, grainy, yellow-brown	2.07	YES	YES	SAND, light brown, grey-brown, wet	NO

Note:

- (1) If pHF <= 4, = AASS
- (2) L = Low Reaction, M = Medium Reaction, H = High Reaction, X = Extreme Reaction
- (3) pHFOX < 3 + significant reaction = PASS (presence of sulfides)
- (4) If pHFOX < pHF = PASS

Project: Wellington Waters
 Location: TP3 and TP4
 Date: 6/11/02
 Meinhardt Rep. H Szabo

Project No.

22400

Sample Number	pH Test (1)	Organic matter present	AASS present	Reaction with Hydrogen peroxide (2)	Reaction comments	pHFOX (3)	pHFOX < pHF (4)	PASS present	Soil Description	Laboratory Analysis Required
TP3-01	4.41 YES	NO	NO	L	No reaction	2.73 YES	NO	NO	SANDY LOAM (PEAT), dark brown - black	NO
TP3-02	5.33 NO	NO	NO	L	Minor bubbles, brown	2.56 YES	NO	NO	SAND, white	NO
TP3-03	5.47 NO	NO	NO	L	Minor bubbles, brown	2.84 YES	NO	NO	SAND, light grey/brown, wet	NO
TP3-04	4.92 NO	NO	NO	L	Minor bubbles, dark brown	3.15 YES	NO	NO	SAND, light brown, wet	NO
TP3-05	5.5 NO	NO	NO	M	Bubbles, yellow brown	2.06 YES	YES	YES	SAND, brown, wet	NO
TP3-06	5.5 NO	NO	NO	M - H	Fizzing, light yellow-brown	2 YES	YES	YES	SAND, green-grey, wet	YES
TP3-07	5.45 NO	NO	NO	H	Fizzing, yellow-brown	2.01 YES	YES	YES	SAND, grey-brown, wet	NO
TP3-08	5.6 NO	NO	NO	H	Fizzing, yellow-brown	2.04 YES	YES	YES	SAND, grey-brown, wet	NO
TP3-09	6.42 NO	NO	NO	H	Fzling, brown	1.86 YES	YES	YES	SAND, fine grained, grey-brown, wet	YES
TP4-01	4.21 YES	NO	NO	L	Bubbled, black	2.21 YES	NO	NO	CLAY (PEAT), chocolate brown	NO
TP4-02	4.88 YES	NO	NO	L	Bubbles, brown	2.46 YES	NO	NO	SAND, light brown/grey brown	NO
TP4-03	7.65 YES	NO	NO	M - H	Fizzing, yellow-brown	2.34 YES	YES	YES	SANDY CLAY, grey-green, wet	YES
TP4-04	7.33 NO	NO	NO	M	Fizzing, grey-brown	7.53 NO	NO	NO	SANDY CLAY, light grey-green	NO
TP4-05	8.86 NO	NO	NO	M	Fizzing, light yellow brown	7.32 YES	YES	YES	SANDY CLAY, grey/green	NO
TP4-06	9.44 NO	NO	NO	H	Fizzing, light yellow brown	8.15 YES	YES	YES	CLAY, trace staining, yellow-brown	NO
TP4-07	9.47 NO	NO	NO	H	Fizzing, light yellow brown	8.44 YES	YES	YES	CLAY, light green/grey	NO
TP4-08	9.09 NO	NO	NO	H	Fizzing, yellow	7.58 YES	YES	YES	CLAY, light green/grey	YES
TP4-09	8.72 NO	NO	NO	M - H	Fizzing, creamy	6.03 YES	YES	YES	CLAYEY SAND, white, green-grey	NO

Note:

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- (4) If pHFOX < pHF = PASS

Project: Wellington Waters
 Location: TP5 and TP6
 Date: 7/11/02
 Meinhardt Rep. H Szabo

Project No. 22400

Sample Number	pH Test (1)	Organic matter present	AASS present	Reaction with Hydrogen peroxide (2)	Reaction comments	pHFOX (3)	pHFOX < pHF (4)	PASS present	Soil Description	Laboratory Analysis Required
TP5-01	5.3	YES	NO	L	Minor bubbles, brown	2.52	YES	NO	CLAY (PEAT), brown	NO
TP5-02	6.13	YES	NO	L	Minor bubbles, brown	2.26	YES	NO	SILTY CLAY, dark grey/black	NO
TP5-03	6.09	NO	NO	L	Minor bubbles, brown	2.1	YES	NO	SILTY CLAY / CLAYEY SAND, light brown	NO
TP5-04	6.24	NO	NO	L	Minor bubbles, brown	2.02	YES	NO	CLAYEY SAND, light brown	YES
TP5-05	4.45	NO	NO	M	Bubbling, brown	2.27	YES	NO	CLAYEY SAND, light brown	NO
TP5-06	4.74	NO	NO	M	Fizzing, light brown	2.24	YES	NO	SAND, light grey / brown	NO
TP5-07	6.3	NO	NO	M - H	Fizzing, light brown / yellow brown	2.17	YES	YES	SAND, light grey / brown	YES
TP5-08	4.74	NO	NO	M - H	Fizzing, yellow brown	2.05	YES	YES	SAND, grey - brown	NO
TP6-01	4.81	YES	NO	L	Minor bubbles, brown	3.39	YES	NO	SILTY CLAY (PEAT)	NO
TP6-02	4.88	NO	NO	L	Minor bubbles, light brown	2.51	YES	NO	SAND, light grey / brown	NO
TP6-03	5.19	YES	NO	L	Minor fizzing, light brown / yellow	2.16	YES	YES	SILTY CLAY, grey	YES
TP6-04	5.41	YES	NO	H	Fizzing, yellow - brown	2.25	YES	YES	SILTY CLAY, blue grey	NO
TP6-05	6.45	NO	NO	M	Fizzing, yellow - brown	3.01	YES	YES	SILTY CLAY, greenish grey	NO
TP6-06	7.05	NO	NO	M	Fizzing, yellow - brown	2.79	YES	YES	SAND, grey	YES
TP6-07	8.1	NO	NO	M	Fizzing, yellow - brown	7.23	YES	YES	SANDY CLAY, dark green / grey green	NO

Note:

- (1) If pHF <= 4, = AASS
- (2) L = Low Reaction, M = Medium Reaction, H = High Reaction, X = Extreme Reaction
- (3) pHFOX < 3 + significant reaction = PASS (presence of sulfides)
- (4) If pHFOX < pHF = PASS