

Appendix F: Wetland Plot Sheets

(Template source: Clarkson *et. al.*, 2004)

Table 3: Wetland Plot Sheet

Wetland name: *Railway Wetland* Date: *08/5/12* Plot no: *1*
 Plot size (2m x 2m default): *4m²* Altitude: *20m* GPS/GR:
 Field leader: *John Turner* Structure: *Reedland* Composition: *Typha*

Canopy (bird's eye view)			Subcanopy			Groundcover		
Species ¹ (or Substrate)	%	H	Species	%	H	Species	%	H
<i>Typha orientalis</i>	70	3m	<i>Galium trichotomum</i>	25	70			
			<i>Juncus pauciflorus</i>	30	1.00			
			<i>Holcus lanatus</i> *	50	60			
			<i>Ranunculus repens</i> *	21	20			
			<i>Hydrocotyle procumbens</i>	10	50			

¹ % = % cover; total canopy % cover = 100%; H = maximum height in m; indicate introduced species by *

Additional species in vicinity in same vegetation type: *Lotus sp.*, *Ulex europaeus*,
Mercurialis, *Baccharis*.

Comments:

Indicator (use plot data only)	%	Score 0-5 ²	Specify & Comment
Canopy: % cover introduced species	0	5	
Understorey: % cover introduced spp ³	40	3	
Total species: % number introduced spp	33	3	
Total species: overall stress/dieback	NA	5	
Total plot condition index /20	NA	16/20	

² 5=0%: none, 4=1-24%: very low, 3=25-49%: low, 2=50-75%: medium, 1=76-99%: high, 0=100%: very high

³ Add subcanopy and groundcover % cover for introduced species

Field measurements:

Water table cm	5	Water conductivity uS (if present)	<i>N/A measured</i>
Water pH (if present)	<i>N/A measured</i>	von Post peat decomposition index	<i>N/A</i>

Soil core laboratory analysis (2 soil core subsamples):

Water content % dry weight	19.6	Total C %	16
Bulk Density ρ_m g/mL	0.63	Total N %	1.01
pH	5.5	Total P mg/kg	587
Conductivity μS mS/cm	0.18		

Foliage laboratory analysis (leaf/culm sample of dominant canopy species):

Species	2.1	%N	0.19	%P
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Table 3: Wetland Plot Sheet

Wetland name: *Railway Wetland* Date: *08/6/12* Plot no: *2*
 Plot size (2m x 2m default): *4 m²* Altitude: *20m* GPS/GR:
 Field leader: *John Lerner* Structure: *Rushland* Composition: *Isopleps*

Canopy (bird's eye view)			Subcanopy			Groundcover		
Species ¹ (or Substrate)	%	H	Species	%	H	Species	%	H
			<i>Juncus effusus</i> *	10	.70	<i>Isoplepis prolifera</i>	90	.40
						<i>Rumex repens</i> *	10	.10
						<i>Galium t. lobum</i>	10	.10
						<i>Lotus pedunculatus</i> *	3	.20
						<i>Martha x piperita</i> *	1	.30
						<i>Molucis lanatus</i> *	3	.30
						<i>Hydrocotyle</i>		
						<i>Pterocarpm</i>	1	.10

¹% = % cover: total canopy % cover = 100%; H = maximum height in m; indicate introduced species by *

Additional species in vicinity in same vegetation type: *Typha orientalis*, *Cerastium arvense*, *Apium nodiflorum*, *Spirodela punctata*.

Comments:

Indicator (use plot data only)	%	Score 0-5 ²	Specify & Comment
Canopy: % cover introduced species	100	0	
Understorey: % cover introduced spp ³	00	4	
Total species: % number introduced spp	62	2	
Total species: overall stress/dieback	NA	3	<i>Grazing by sheep.</i>
Total plot condition index /20	NA	9/20	

²5=0%: none, 4=1-24%: very low, 3=25-49%: low, 2=50-75%: medium, 1=76-99%: high, 0=100%: very high

³Add subcanopy and groundcover % cover for introduced species

Field measurements:

Water table cm	<i>3</i>	Water conductivity uS (if present)	<i>Not measured</i>
Water pH (if present)	<i>Not measured</i>	von Post peat decomposition index	<i>N/A</i>

Soil core laboratory analysis (2 soil core subsamples):

Water content % dry weight	<i>6.9</i>	Total C %	<i>29.2</i>
Bulk Density T/m ³ g/mL	<i>0.32</i>	Total N %	<i>1.81</i>
pH	<i>5.5</i>	Total P mg/kg	<i>973</i>
Conductivity uS	<i>Not measured</i>		

Foliage laboratory analysis (leaf/culm sample of dominant canopy species):

Species	<i>1.3</i>	%N	<i>0.10</i>	%P
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Table 3: Wetland Plot Sheet

Wetland name: *Railway Wetland* Date: *08/09/12* Plot no: *3*
 Plot size (2m x 2m default): *4m²* Altitude: *20m* GPS/GR:
 Field leader: *John Turner* Structure: *Reedland* Composition: *Isolepis*

Canopy (bird's eye view)			Subcanopy			Groundcover		
Species ¹ (or Substrate)	%	H	Species	%	H	Species	%	H
<i>Ilymus orientalis</i>	10	2.5	<i>Isolepis prolifera</i>	90	.90			
			<i>Nolus lanatus</i> *	1	.40			
			<i>Ranunculus repens</i> *	1	.30			
			<i>Lotus pedunculatus</i> *	1	.30			
			<i>Gadina trilobum</i>	2	.40			
			<i>Epilobium ciliatum</i> *	3	.90			
			<i>Artemisia nodiflora</i>	5	.40			

¹ % = % cover: total canopy % cover = 100%; H = maximum height in m; indicate introduced species by *

Additional species in vicinity in same vegetation type:

Panicum gracilis (LA), *Ulex europaeus** (0), *Cyperus rostratus*
 Comments: *Carex secta* (R), *Pteridium esculentum*, *Eucalyptus**, *Artemisia**

Indicator (use plot data only)	%	Score 0-5 ²	Specify & Comment
Canopy: % cover introduced species	0	5	
Understorey: % cover introduced spp ³	10	4	
Total species: % number introduced spp	75	2	
Total species: overall stress/dieback	NA	5	
Total plot condition index /20	NA	16/20	

² 5=0%: none, 4=1-24%: very low, 3=25-49%: low, 2=50-75%: medium, 1=76-99%: high, 0=100%: very high
³ Add subcanopy and groundcover % cover for introduced species

Field measurements:

Water table cm	<i>0</i>	Water conductivity uS (if present)	<i>Not measured</i>
Water pH (if present)	<i>Not measured</i>	von Post peat decomposition index	

Soil core laboratory analysis (2 soil core subsamples):

Water content % dry weight	<i>11.50</i>	Total C %	<i>24.2</i>
Bulk Density $\frac{M}{m^3}$ g/mL	<i>0.48</i>	Total N %	<i>1.68</i>
pH	<i>5.60</i>	Total P mg/kg	<i>734</i>
Conductivity $\frac{uS}{cm}$	<i>0.17</i>		

Foliage laboratory analysis (leaf/culm sample of dominant canopy species):

Species	<i>1.3</i>	%N	<i>0.13</i>	%P	
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Table 3: Wetland Plot Sheet

Wetland name: *Railway Wetland* Date: *08/05/12* Plot no: *4*
 Plot size (2m x 2m default): *4m²* Altitude: *20m* GPS/GR:
 Field leader: *John Turner* Structure: *Reedland* Composition: *Eleocharis*

Canopy (bird's eye view)			Subcanopy			Groundcover		
Species ¹ (or Substrate)	%	H	Species	%	H	Species	%	H
<i>Typha orientalis</i>	3	3m	<i>Eleocharis acuta</i>	90	.90			
			<i>Ptilidium ciliatum</i> *	10	.70			
			<i>Galium tetradium</i>	30	.50			
			<i>Hydrocotyle peltata</i>	20	.50			
			<i>Salix pedunculata</i> *	3	.50			
			<i>Deschm. minus</i>	2	1.20			
			<i>Spin. nodiflorum</i> *	10	.90			
			<i>Lythrum salicaria</i> *	20	.80			

¹% = % cover: total canopy % cover = 100%; H = maximum height in m; indicate introduced species by *

Additional species in vicinity in same vegetation type:

Salix cinerea, *Salix fragilis*, *Coralyria acuticulis*, *Juncus effusus*,
Ulex europaeus, *Carex nigra*, *Festuca arundinacea*.
 Comments:

Indicator (use plot data only)	%	Score 0-5 ²	Specify & Comment
Canopy: % cover introduced species	0	5	
Understorey: % cover introduced spp ³	30	3	
Total species: % number introduced spp	4/4	3	
Total species: overall stress/dieback	NA	5	
Total plot condition index /20	NA	16/20	

²5=0%: none, 4=1-24%: very low, 3=25-49%: low, 2=50-75%: medium, 1=76-99%: high, 0=100%: very high

³Add subcanopy and groundcover % cover for introduced species

Field measurements:

Water table cm	0	Water conductivity uS (if present)	Not measured
Water pH (if present)	Not measured	von Post peat decomposition index	N/A

Soil core laboratory analysis (2 soil core subsamples):

Water content % dry weight	5.7	Total C %	37.90
Bulk Density T/m ³ g/mL	0.23	Total N %	2.38
pH	5.6	Total P mg/kg	868
Conductivity uS	Not measured		

Foliage laboratory analysis (leaf/culm sample of dominant canopy species):

Species	2.3	%N	0.18	%P	
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