

Cambridge Waste Water Treatment Plant Relocation Project



Preliminary Environmental Information
NVC Survey Data **February 2022**

Woodland NVC									
Ecology ID (Number from map)				Location/Plot		W3			
Survey duration				Surveyor		Date		17 May 2021	
Weather Conditions		Warm, dry							
Broad habitat types present		Broad-leaved plantation woodland							
Site and vegetation description (Include notes on management/habitat condition) and any site constraints									
Entire woodland block consists of a semi-mature mixed plantation (around 30 years old), with both native and non-native trees.									
Quadrat Reference		1		2		3		4	
Quadrat Size ² (m x m)		6278 m2 (entire block)		2 x 2 m		2 x 2 m		2 x 2 m	
Co-ordinates									
Photo references ³									
Aspect		0		0		0		0	
Slope (°)		0		0		0		0	
Vegetation mean height and cover (%)		10m		90% 30cm		90%			
Species List (Latin Name)/Common Name		DOMIN VALUE							
GRASSES, RUSHES & SEDGES									
Poa trivialis				3					
Carex sylvatica									
TREES & SHRUBS									
Prunus avium		8							
Sambucus nigra		3							
Acer pseudoplatanus		5							
Pinus sylvestris		6							
Crataegus monogyna		2							
GROUND FLORA									
Glechoma hederacea				8					
Urtica dioica				4					
Ranunculus repens									
Galium aparine				3					
Conium maculatum									
Potentilla reptans									
Rumex sanguineus									
Viola odorata									
Rubus fruticosus agg.									
Viola hirta									
Myosotis arvensis				3					
Rosa canina agg.									
Cirsium arvense									
Tamus communis									
Veronica arvensis				3					
Cirsium vulgare				1					
Taraxacum sect. Ruderalia				1					
BRYOPHYTES & LICHENS									
Brachythecium rutabulum									

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Short herbaceous 2x2m; Tall and more open herb communities and woodland field layers 4x4m; species poor, very tall herbaceous or dense scrub 10x10m; sparse scrub, woodland canopy & understorey 50mx50m; streams and ditches 10m length of watercourse; hedgerows, shrub and tree lines 30m length.

Domin Score: 1<4% (few individuals), 2 <4% (several individuals), 3 <4% (many individuals), 4 (4-10%), 5 (11-25%), 6 (26-33%), 7 (34-50%), 8 (51-75%), 9 (76-90%), 10 (91-100%)

DAFOR: Dominant, Abundant, Frequent, Occassional, Rare.

Woodland NVC									
Ecology ID (Number from map)				Location/Plot		W2			
Survey duration				Surveyor		Date		17 May 2021	
Weather Conditions		Warm, dry							
Broad habitat types present		Broad-leaved semi-natural woodland							
Site and vegetation description (Include notes on management/habitat condition) and any site constraints									
Predominantly semi-natural woodland with some planted trees.									
Quadrat Reference		1		2		3		4	
Quadrat Size ² (m x m)		4887 m2 (entire block)		2 x 2 m		2 x 2 m		2 x 2 m	
Co-ordinates									
Photo references ³									
Aspect		0		0		0		0	
Slope (°)		0		0		0		0	
Vegetation mean height and cover (%)		10m		100%		30cm		95%	
Species List (Latin Name)/Common Name		DOMIN VALUE							
GRASSES, RUSHES & SEDGES									
Anisantha sterilis				6					
Poa trivialis									
Brachypodium sylvaticum									
Dactylis glomerata									
Arrhenatherum elatius									
Bromus hordeaceus									
TREES & SHRUBS									
Acer campestre		6							
Ulmus minor		8							
Sambucus nigra		4							
Fraxinus excelsior		5							
Prunus domestica		2							
Quercus robur		2							
Crataegus x media		2							
Tilia platyphyllos		1							
Fagus sylvatica		1							
Aesculus hippocastanum		1							
GROUND FLORA									
Urtica dioica		6							
Alliaria petiolata									
Glechoma hederacea		4							
Geum urbanum									
Arum maculatum		3							
Galium aparine		7							
Ruscus aculeatus									
Arctium minus									
Ballota nigra		3							
Rumex sanguinea									
Veronica hederifolia									
Lamium album									
Sonchus oleraceus									
Senecio vulgaris									

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<i>Stachys sylvatica</i>							R
<i>Cirsium vulgare</i>							R
<i>Hedera helix</i> ss.							R
<i>Ficaria verna</i> ssp. <i>verna</i>							R
BRYOPHYTES & LICHENS							
<i>Kindbergia praelonga</i>	1						O
<i>Barbula unguiculata</i>							O
<i>Brachythecium rutabulum</i>							O
Short herbaceous 2x2m; Tall and more open herb communities and woodland field layers 4x4m; species poor, very tall herbaceous or dense scrub 10x10m; sparse scrub, woodland canopy & understorey 50mx50m; streams and ditches 10m length of watercourse; hedgerows, shrub and tree lines 30m length. Domin Score: 1<4% (few individuals), 2 <4% (several individuals), 3 <4% (many individuals), 4 (4-10%), 5 (11-25%), 6 (26-33%), 7 (34-50%), 8 (51-75%), 9 (76-90%), 10 (91-100%) DAFOR: Dominant, Abundant, Frequent, Occassional, Rare.							

Woodland NVC									
Ecology ID (Number from map)				Location/Plot		W1			
Survey duration				Surveyor		Date		17 May 2021	
Weather Conditions		Warm, dry							
Broad habitat types present		Broad-leaved plantation woodland							
Site and vegetation description (Include notes on management/habitat condition) and any site constraints									
Most of the woodland block consisted of a semi-mature broad-leaved plantation (around 30 years old), with some more well established native trees on the plantation's margins.									
Quadrat Reference		1		2		3		4	
Quadrat Size ² (m x m)		1964 m2 (entire block)		2 x 2 m		2 x 2 m		2 x 2 m	
Co-ordinates									
Photo references ³									
Aspect		0		0		0		0	
Slope (°)		0		0		0		0	
Vegetation mean height and cover (%)		15m		100% 30cm		99%			
Species List (Latin Name)/Common Name		DOMIN VALUE							
GRASSES, RUSHES & SEDGES									
Brachypodium sylvaticum				6					
Anisantha sterilis				5					
Poa trivialis				2					
Elymus repens									
Dactylis glomerata									
TREES & SHRUBS									
Acer campestre		7							
Prunus avium		5							
Fraxinus excelsior		2							
Ulmus minor		3							
Quercus robur		2							
Prunus spinosa		2							
Sambucus nigra		2							
Crataegus monogyna		2							
Malus pumila		1							
GROUND FLORA									
Arum maculatum				3					
Geum urbanum				3					
Corylus avellana									
Ficaria verna ssp. verna				7					
Galium aparine				2					
Anthriscus sylvestris				5					
Viola odorata									
Glechoma hederacea				1					
Hedera helix ss.				2					
Rumex sanguinea				1					
Rubus fruticosus agg.									
Taraxacum sect. Ruderalia									
Urtica dioica									
Stachys sylvatica									
Lamium album									
Alliaria petiolata									

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Heracleum sphondylium							O
Ballota nigra							O
Veronica chamaedrys							O
Arctium minus							R
Viburnum opulus							R
Rosa canina agg.							R
Tamus communis							R
BRYOPHYTES & LICHENS							
Kindbergia praelonga							F
Fissidens taxifolius							F
Barbula unguiculata							O
Brachythecium rutabulum							O
Short herbaceous 2x2m; Tall and more open herb communities and woodland field layers 4x4m; species poor, very tall herbaceous or dense scrub 10x10m; sparse scrub, woodland canopy & understorey 50mx50m; streams and ditches 10m length of watercourse; hedgerows, shrub and tree lines 30m length. Domin Score: 1<4% (few individuals), 2 <4% (several individuals), 3 <4% (many individuals), 4 (4-10%), 5 (11-25%), 6 (26-33%), 7 (34-50%), 8 (51-75%), 9 (76-90%), 10 (91-100%) DAFOR: Dominant, Abundant, Frequent, Occassional, Rare.							

BRYOPHYTES & LICHENS							
<i>Brachythecium rutabulum</i>							o
Short herbaceous 2x2m; Tall and more open herb communities and woodland field layers 4x4m; species poor, very tall herbaceous or dense scrub 10x10m; sparse scrub, woodland canopy & understorey 50mx50m; streams and ditches 10m length of watercourse; hedgerows, shrub and tree lines 30m length. Domin Score: 1<4% (few individuals), 2 <4% (several individuals), 3 <4% (many individuals), 4 (4-10%), 5 (11-25%), 6 (26-33%), 7 (34-50%), 8 (51-75%), 9 (76-90%), 10 (91-100%) DAFOR: Dominant, Abundant, Frequent, Occassional, Rare.							

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NVC Floodplain Grazing

Preliminary Environmental Information 10

CWS NVC									
Ecology ID (Number from map)					Location/Plot		County Wildlife Site Non Disused Railway Section		
Survey duration					Surveyor	Oliver Glenister & James Rowland		Date	13 July 2021
Weather Conditions		Wet ground, no rain							
Broad habitat types present		Grassland							
Site and vegetation description (Include notes on management/habitat condition) and any site constraints									

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Tragopogon pratensis subsp. minor							O
Clinopodium vulgare							O
Agrimonia eupatoria							O
Rumex acetosa							O
Calystegia sepium							O
Stachys palustris							O
Vicia cracca							O
Cornus sanguinea ssp. sanguinea							O
Dipsacus fullonum							O
Galium verum							O
Potentilla reptans							O
Verbena officinalis							O
Bryonia dioica							O
Conium maculatum							O
Rumex obtusifolius							R
Geranium dissectum							R
BRYOPHYTES & LICHENS							
Didymodon fallax							
Oxyrrhynchium hians			4				
Short herbaceous 2x2m; Tall and more open herb communities and woodland field layers 4x4m; species poor, very tall herbaceous or dense scrub 10x10m; sparse scrub, woodland canopy & understorey 50mx50m; streams and ditches 10m length of watercourse; hedgerows, shrub and tree lines 30m length. Domin Score: 1<4% (few individuals), 2 <4% (several individuals), 3 <4% (many individuals), 4 (4-10%), 5 (11-25%), 6 (26-33%), 7 (34-50%), 8 (51-75%), 9 (76-90%), 10 (91-100%) DAFOR: Dominant, Abundant, Frequent, Occassional, Rare.							

Woodland NVC									
Ecology ID (Number from map)				Location/Plot		W2			
Survey duration				Surveyor		Date		17 May 2021	
Weather Conditions		Warm, dry							
Broad habitat types present		Broad-leaved semi-natural woodland							
Site and vegetation description (Include notes on management/habitat condition) and any site constraints									
Predominantly semi-natural woodland with some planted trees.									
Quadrat Reference		1		2		3		4	
Quadrat Size ² (m x m)		4887 m2 (entire block)		2 x 2 m		2 x 2 m		2 x 2 m	
Co-ordinates									
Photo references ³									
Aspect		0		0		0		0	
Slope (°)		0		0		0		0	
Vegetation mean height and cover (%)		10m		100%		30cm		95%	
Species List (Latin Name)/Common Name		DOMIN VALUE							
GRASSES, RUSHES & SEDGES									
Anisantha sterilis				6					
Poa trivialis									
Brachypodium sylvaticum									
Dactylis glomerata									
Arrhenatherum elatius									
Bromus hordeaceus									
TREES & SHRUBS									
Acer campestre		6							
Ulmus minor		8							
Sambucus nigra		4							
Fraxinus excelsior		5							
Prunus domestica		2							
Quercus robur		2							
Crataegus x media		2							
Tilia platyphyllos		1							
Fagus sylvatica		1							
Aesculus hippocastanum		1							
GROUND FLORA									
Urtica dioica		6							
Alliaria petiolata									
Glechoma hederacea		4							
Geum urbanum									
Arum maculatum		3							
Galium aparine		7							
Ruscus aculeatus									
Arctium minus									
Ballota nigra		3							
Rumex sanguinea									
Veronica hederifolia									
Lamium album									
Sonchus oleraceus									
Senecio vulgaris									

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Stachys sylvatica							R
Cirsium vulgare							R
Hedera helix ss.							R
Ficaria verna ssp. verna							R
BRYOPHYTES & LICHENS							
Kindbergia praelonga	1						O
Barbula unguiculata							O
Brachythecium rutabulum							O
Short herbaceous 2x2m; Tall and more open herb communities and woodland field layers 4x4m; species poor, very tall herbaceous or dense scrub 10x10m; sparse scrub, woodland canopy & understorey 50mx50m; streams and ditches 10m length of watercourse; hedgerows, shrub and tree lines 30m length. Domin Score: 1<4% (few individuals), 2 <4% (several individuals), 3 <4% (many individuals), 4 (4-10%), 5 (11-25%), 6 (26-33%), 7 (34-50%), 8 (51-75%), 9 (76-90%), 10 (91-100%) DAFOR: Dominant, Abundant, Frequent, Occassional, Rare.							

Grassland NVC									
Ecology ID (Number from map)				Location/Plot		G040 CWWTP			
Survey duration				Surveyor				Date	12 July 2021
Weather Conditions		Ground wet							
Broad habitat types present									
Site and vegetation description (Include notes on management/habitat condition) and any site constraints									
Grassland to east of river Cam									
Quadrat Reference		1		2		3		4	
Quadrat Size ² (m x m)		2 x 2 m		2 x 2 m		2 x 2 m		2 x 2 m	
Co-ordinates		TL 48402	61334	TL45434	61487	TL48343	61475		
Photo references ³									
Aspect		0		0		0		0	
Slope (°)		0		0		0		0	
Vegetation mean height and cover (%)		80cm	100%	100cm	100%	80cm	100%		
Species List (Latin Name)/Common Name		DOMIN VALUE							
GRASSES, RUSHES & SEDGES									
Arrhenatherum elatius		8				6			
Lolium perenne									
Phleum pratense									
Alopecurus pratensis						1			
Phleum bertolonii									
Dactylis glomerata						5			
Agrostis stolonifera			6						
Elymus repens		7				7			
Poa trivialis									
Carex hirta			6						
Juncus inflexus			3						
Carex otrubae									
Glyceria maxima									
Juncus articulatus									
Glyceria notata									
Holcus lanatus			4						
Schedonorus arundinaceus									
Phalaris arundinacea			1						
Deschampsia cespitosa									
Hordeum secalinum									
GROUND FLORA									
Urtica dioica		3				4			
Cirsium vulgare									
Rubus ulmifolius									
Plantago major									
Heracleum sphondylium									
Matricaria discoidea									
Scorzoneroides autumnalis									
Cirsium arvense		3				1			
Galium aparine		2				3			
Anthriscus sylvestris									

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<i>Epilobium hirsutum</i>							F
<i>Lactuca serriola</i>							O
<i>Rumex crispus</i>							O/LF
<i>Sonchus arvensis</i>							R
<i>Persicaria amphibia</i>			3				O/LF
<i>Ranunculus repens</i>			4				O/LF
<i>Rumex conglomeratus</i>							O/LF
<i>Nasturtium microphyllum</i>							O/LA
<i>Helosciadium nodiflorum</i>							R
<i>Equisetum palustre</i>							O
<i>Myosotis scorpioides</i>							O
<i>Trifolium fragiferum</i>							O
<i>Atriplex prostrata</i>							O
<i>Filipendula ulmaria</i>							R
<i>Calystegia sepium</i>							R
BRYOPHYTES & LICHENS							
Short herbaceous 2x2m; Tall and more open herb communities and woodland field layers 4x4m; species poor, very tall herbaceous or dense scrub 10x10m; sparse scrub, woodland canopy & understorey 50mx50m; streams and ditches 10m length of watercourse; hedgerows, shrub and tree lines 30m length. Domin Score: 1<4% (few individuals), 2 <4% (several individuals), 3 <4% (many individuals), 4 (4-10%), 5 (11-25%), 6 (26-33%), 7 (34-50%), 8 (51-75%), 9 (76-90%), 10 (91-100%) DAFOR: Dominant, Abundant, Frequent, Occassional, Rare.							

Disused Railway NVC										
Ecology ID (Number from map)					Location/Plot		disused railway			
Survey duration					Surveyor				Date	13 July 2021
Weather Conditions	ground wet no rain									
Broad habitat types present										
Site and vegetation description (Include notes on management/habitat condition) and any site constraints										
disused railway - mown with arisings not removed, edges unmown, some sections heavily overgrown with scrub										

NVC: Disused Railway

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Existing Cambridge WWTPPreliminary Environmental Information 1.8