

Wet Woodland Mix (WW)				
Planted at 1.5m centres adjacent to realigned Budleigh Brook, planted at to 3m centres in plot adjacent to Little Bank breach.				
SPECIES	AGE/CONDITION	SIZE (cm)	GROUP SIZE	% of mix
OVERSTOREY SPP.				
<i>Alnus glutinosa</i>	1+1 bare root transplant	40-60	3 to 7	20.0%
<i>Salix fragilis</i>	0/1/2 bare root transplant	150-175	3 to 7	20.0%
<i>Salix alba</i>	0/1/2 bare root transplant	150-175	2 to 5	10.0%
UNDERSTOREY SPP.				
<i>Frangula alnus</i>	1+1 bare root t'plant	40-60	2 to 5	10.0%
<i>Salix caprea</i>	0/1 bare root t'plant	60-80	3 to 7	15.0%
<i>Salix cinerea</i>	0/1 bare root t'plant	60-80	3 to 7	15%
<i>Viburnum opulus</i>	1+1 bare root t'plant	40-60	2 to 5	10.0%

Mixed Broadleaf Woodland Mix (MBW)				
Planted at average of 1.8m centres				
SPECIES	AGE/CONDITION	SIZE (cm)	GROUP SIZE	% of mix
OVERSTOREY SPP.				
<i>Carpinus betulus</i>	1+1 bare root transplant	40-60	5 to 10	2.5%
<i>Quercus petraea</i>	1+1 bare root transplant	40-60	10 to 20	2.5%
<i>Quercus robur</i>	1+1 bare root transplant	40-60	10 to 20	5.0%
<i>Acer campestre</i>	1+1 bare root transplant	40-60	3 to 7	5.0%
<i>Betula pendula</i>	1+1 bare root transplant	40-60	3 to 7	2.5%
<i>Betula pubescens</i>	1+1 bare root transplant	40-60	3 to 7	2.5%
<i>Prunus avium</i>	1+1 bare root transplant	40-60	3 to 7	5.0%
<i>Sorbus aucuparia</i>	1+1 bare root transplant	40-60	3 to 7	5.0%
UNDERSTOREY SPP.				
<i>Corylus avellana</i>	1+1 bare root transplant	40-60	2 to 5	20.0%
<i>Crataegus monogyna</i>	1+1 bare root transplant	40-60	3 to 7	20.0%
<i>Ilex aquifolium</i>	1+1 bare root transplant	40-60	3 to 7	5.0%
<i>Ligustrum vulgare</i>	1+1 bare root transplant	40-60	2 to 5	10.0%
<i>Sambucus nigra</i>	1+1 bare root transplant	40-60	3 to 7	15.0%

Broadleaf Woodland Edge (BWE)				
Planted at average of 1.5m centres				
SPECIES	AGE/CONDITION	SIZE (cm)	GROUP SIZE	% of mix
<i>Acer campestre</i>	1+1 bare root transplant	40-60	5 to 10	5.0%
<i>Cornus sanguinea</i>	1+1 bare root transplant	40-60	10 to 20	5.0%
<i>Corylus avellana</i>	1+1 bare root transplant	40-60	10 to 20	20.0%
<i>Crataegus monogyna</i>	1+1 bare root transplant	40-60	10 to 20	20.0%
<i>Ligustrum vulgare</i>	1+1 bare root transplant	60-80	10 to 20	10.0%
<i>Malus sylvestris</i>	1+1 bare root transplant	40-60	5 to 10	5.0%
<i>Prunus avium</i>	1+1 bare root transplant	40-60	5 to 10	5.0%
<i>Rosa canina</i>	1+1 bare root transplant	40-60	10 to 20	10.0%
<i>Salix cinerea</i>	0/1 bare root transplant	60-80	5 to 10	5.0%
<i>Viburnum opulus</i>	1+1 bare root transplant	40-60	10 to 20	15.0%

Estuarine Scrub planting mix (ES)					
Species and sizes to be confirmed at detail design stage.					
SPECIES	FORM/AGE/CONDITION	Size	GROUP SIZE	Root Condition	% of mix
<i>Corylus avellana</i>	1+1 transplant	40 - 60	3 to 5	BR	15.0%
<i>Cytisus scoparius</i>	2L CG	40 - 60	3 to 5	BR	5.0%
<i>Hippophae rhamnoides</i>	1+1 transplant	40 - 60	3 to 5	BR	7.0%
<i>Ligustrum vulgare</i>	2L CG	40 - 60	4 to 5	BR	5.0%
<i>Prunus spinosa</i>	1+1 transplant	40 - 60	3 to 5	BR	20.0%
<i>Rosa rugosa</i>	2L CG	40 - 60	3 to 15	BR	5.0%
<i>Rubus fruticosus</i>	2L CG	40 - 60	3 to 15	BR	3.0%
<i>Salix cinerea</i>	1+1 transplant	40 - 60	3 to 15	BR	15.0%
<i>Sambucus nigra</i>	1+1 transplant	40 - 60	2 to 5	CG	10.0%
<i>Ulex europaeus</i>	2L CG	20-30	3 to 15	BR	15.0%

Native-species Hedgerow with hedgerow trees (NHT)				
Planted at 5 transplants per linear metre, 1 feathered tree per c. 10 linear metre.				
SPECIES	AGE/CONDITION	SIZE (cm)	GROUP SIZE	% of mix
<i>Acer campestre</i>	1+1 bare root t'plant	40-60	3 to 7	5.0%
<i>Cornus sanguinea</i>	1+1 bare root t'plant	40-60	3 to 7	5.0%
<i>Corylus avellana</i>	1+1 bare root t'plant	40-60	3 to 7	25.0%
<i>Crataegus monogyna</i>	1+1 bare root t'plant	40-60	3 to 7	30.0%
<i>Euonymus europaeus</i>	1+1 bare root t'plant	40-60	3 to 7	5.0%
<i>Ilex aquifolium</i>	3L CG	40-60	3 to 7	5.0%
<i>Malus sylvestris</i>	1+1 bare root t'plant	40-60	3 to 7	5.0%
<i>Prunus spinosa</i>	1+1 bare root t'plant	40-60	3 to 7	10.0%
<i>Rosa canina</i>	1+0 bare root t'plant	40-50	3 to 7	5.0%
<i>Viburnum opulus</i>	1+1 bare root t'plant	40-60	3 to 7	5.0%
<i>Carpinus betulus</i>	Feathered, 2x, bareroot	200-250	1 to 2	-
<i>Quercus robur</i>	Feathered, 2x, bareroot	200-250	1 to 2	-

Tree and Shrub Screening Planting mix (TSSP)						
Species and sizes to be confirmed at detail design stage.						
SPECIES	FORM/AGE/CONDITION	Times transplanted	HEIGHT (cm)	GROUP SIZE	Root Condition	% of mix
<i>Acer campestre</i>	Feathered	2x	175-200	3 to 5	BR	5.0%
<i>Betula pendula</i>	Feathered	2x	175-200	3 to 5	BR	5.0%
<i>Carpinus betulus</i>	Feathered	2x	175-200	3 to 5	BR	5.0%
<i>Quercus robur</i>	Feathered	2x	175-201	4 to 5	BR	3.0%
<i>Sorbus aria</i>	Feathered	2x	175-200	3 to 5	BR	7.0%
<i>Cornus sanguinea</i>	1+2 transplant	2x	60-80	3 to 15	BR	10.0%
<i>Corylus avellana</i>	1+2 transplant	2x	60-80	3 to 15	BR	10.0%
<i>Crataegus monogyna</i>	1+1 transplant	2x	100-125	3 to 15	BR	20.0%
<i>Ilex aquifolium</i>	3L CG	-	60-80	2 to 5	CG	10.0%
<i>Prunus spinosa</i>	1+2 transplant	2x	80-100	3 to 15	BR	10.0%
<i>Salix caprea</i>	0/2 transplant	-	125-150	2 to 5	BR	10.0%
<i>Viburnum opulus</i>	1+2 transplant	2x	60-80	2 to 5	BR	5.0%

Dry Meadow Mix (Type 'DM') - species-rich mix with soil stabilising function for embankments and meadow areas			
Use subject to availability of site-won low fertility soil			
Species		Numbers	
Common	Scientific	Composition (% by weight)	Kilograms of seed (per ha)
			70
Westerwolds ryegrass	<i>Lolium multiflorum</i>	28.6	20.0
Slender Creeping Red Fescue	<i>Festuca rubra spp. litoralis</i>	23.6	16.5
Chewings Fescue	<i>Festuca rubra spp.</i>	10.7	7.5
Crested Dogstail	<i>Cynosurus cristatus</i>	17.9	12.5
Common bent	<i>Agrostis capillaris</i>	3.6	2.5
Sweet vernal grass	<i>Anthoxanthum odoratum</i>	1.4	1.0
Yarrow	<i>Achillea millefolium</i>	1.4	1.0
Common knapweed	<i>Centaurea nigra</i>	1.4	1.0
Lady's bedstraw	<i>Galium verum</i>	1.4	1.0
Field scabious	<i>Knautia arvensis</i>	0.7	0.5
Rough hawkbit	<i>Leontodon hispidus</i>	0.7	0.5
Oxeye daisy	<i>Leucanthemum vulgare</i>	0.7	0.5
Birdsfoot trefoil	<i>Lotus corniculatus</i>	0.7	0.5
Ribwort plantain	<i>Plantago lanceolata</i>	1.4	1.0
Cowslip	<i>Primula veris</i>	0.7	0.5
Selfheal	<i>Prunella vulgaris</i>	0.7	0.5
Meadow buttercup	<i>Ranunculus acris</i>	0.7	0.5
Yellow rattle	<i>Rhinanthus minor</i>	0.7	0.5
Red campion	<i>Silene dioica</i>	0.7	0.5
Betony	<i>Stachys officinalis</i>	0.7	0.5
Devil's-bit scabious	<i>Succisa pratensis</i>	0.7	0.5
Tufted vetch	<i>Vicia cracca</i>	0.7	0.5
Total		100.0	70.0

Grass seed mix for embankments and other areas (EG mix)			
For use on moderate to fertile topsoil.			
Species		Numbers	
Common	Scientific	Composition (% by weight)	Kilograms of seed (per ha)
			500
Highland Bent	<i>Agrostis castellana</i>	5.0	25.0
Chewings fescue	<i>Festuca rubra ssp commutata</i>	20.0	100.0
Strong Creeping Red Fescue	<i>Festuca rubra spp. rubra</i>	60.0	300.0
Tall Fescue	<i>Festuca arundinacea</i>	15.0	75.0
Total		100.00	500.00

Grazing Grassland (Type 'GG') mix			
For reinstatement of working areas in retained pasture fields			
Species		Numbers	
Common	Scientific	Composition	Kilograms of
			40
Highland Bent	<i>Agrostis castellana</i>	3.0	1.2
Crested Dogstail	<i>Cynosurus cristatus</i>	9.0	3.6
Cocksfoot	<i>Dactylis glomerata</i>	9.0	3.6
Meadow Fescue	<i>Festuca pratensis</i>	12.0	4.8
Strong Creeping Red Fescue	<i>Festuca rubra</i>	12.0	4.8
Perennial rye grass	<i>Lolium perenne</i>	35.0	14.0
Smaller Cat's Tail	<i>Phleum bertolonii</i>	6.00	2.4
Smooth-stalked Meadow Grass	<i>Poa pratensis</i>	9.0	3.6
Red clover	<i>Trifolium pratense</i>	3.0	1.2
Small Leaved White Clover	<i>Trifolium repens</i>	2.0	0.8
Total		100.00	40.00

PO1	14/09/20	FOR PLANNING SUBMISSION	SM	PA	SM	TW
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

JACOBS
Apature, Pynes Hill Court, Pynes Hill, Exeter, EX2 5SP
Tel: +44 (0) 1392 268600 www.jacobs.com

Client: **Environment Agency** Project partners: **Devon County Council**
CLINTON DEVON ESTATES

Project: **LOWER OTTER RESTORATION PROJECT**

Drawing title: **LANDSCAPE INDICATIVE PLANTING AND SEEDING MIXES**

Drawing status: **S4**

Scale: AS SHOWN DO NOT SCALE
Jacobs No. 684492 Rev **P01**
Client no.

Drawing number: **ENV/MSW002045-CH2-000-000-DR-L-0019**

© Copyright 2020 Jacobs U.K. Limited. The concepts and information contained in this document are the property of Jacobs. Use or copying of this document in whole or in part without the written permission of Jacobs constitutes an infringement of copyright. Limitation: This drawing has been prepared on behalf of, and for the exclusive use of Jacobs' Client, and is subject to, and issued in accordance with the provisions of the contract between Jacobs and the Client. Jacobs accepts no liability or