

SEEDING SCHEDULE:
EMBANKMENT GRASS MIX: MEADOW MIX - EMS MIX
SEE: WWW.EMSGRASS.CO.UK OR SIMILAR

20% WILDFLOWERS -

1.6% ACHILLEA MILLEFOLIUM - YARROW
0.4% AGRIUM EUPATORIUM - AGRIUM
0.2% BETONICA OFFICINALIS - BETONY
2.4% CENTAUREA NIGRA - COMMON KNAWEED
0.2% DAUCUS CAROTA - WILD CARROT
1.2% GALIUM VERUM - LADY'S BEDSTRAW
1.4% KNAUTHIA ARVENSIS - FIELD SCABIOUS
0.4% LATHYRUS PRATENSIS - MEADOW VETCHLING
0.1% LEONTODON HISPIDUS - ROUGH HAWBIT
1.2% LEUCANTHEMUM VULGARE - OXEYE DAISY
0.2% LOTUS CORNICULATUS - BIRDFOOT TREFOIL
3.4% MALVA MOSCHATA - MUSK MALLOW
3% PLANTAGO LANCEOLATA - RIBWORT PLANTAIN
0.2% PRIMULA VERIS - COWSLIP
0.4% RANUNCULUS ACRIS - MEADOW BUTTERCUP
0.6% RANUNCULUS BULBOSUS - BULBIOUS BUTTERCUP
1.4% RHINANTHUS MINOR - YELLOW RATTLE
1% RUMEX ACETOSA - COMMON SORREL
0.3% SILENE VULGARIS - BLOODY CAMPION
0.4% VICIA CRACCA - TUFTED VETCH

80% GRASSES -

1.6% ANTHOXANTHUM ODO RATUM - SWEET VERNAL GRASS (W)
8% AGROSTIS CAPILLARIS - COMMON BENT
3.2% BRIZA MEDIA - QUAKING GRASS (W)
56% CYNOSURUS CRISTATUS - CRESTED DOGS TAIL
10.4% FESTUCA RUBRA - RED FESCUE
0.8% TRISTETUM FLAVESCENS - YELLOW OAT GRASS (W)

SEED IS BEST SOWN IN THE AUTUMN OR SPRING BUT CAN BE SOWN AT OTHER TIMES OF THE YEAR IF THERE IS SUFFICIENT WARMTH AND MOISTURE. THE SEED MUST BE SURFACE SOWN AND CAN BE APPLIED BY MACHINE OR BROADCAST BY HAND TO GET AN EVEN DISTRIBUTION AND AVOID RUNNING OUT. DIVIDE THE SEED INTO TWO OR MORE PARTS AND SOW IN OVERLAPPING SECTIONS. DO NOT INCORPORATE OR COVER THE SEED, BUT FIRM IN WITH A ROLL, OR BY TREADING, TO GIVE GOOD SOIL/SEED CONTACT.

SOWING TIME

SPRING: MARCH TO MAY
SUMMER: JUNE TO JULY, AVOIDING EXCESSIVELY HOT AND DRY CONDITIONS
LATE SUMMER/AUTUMN: AUGUST TO OCTOBER

SEED IS BEST SOWN IN THE AUTUMN OR SPRING BUT CAN BE SOWN AT OTHER TIMES OF THE YEAR IF THERE IS SUFFICIENT WARMTH AND MOISTURE. THE SEED MUST BE SURFACE SOWN AND CAN BE APPLIED BY MACHINE OR BROADCAST BY HAND. TO GET AN EVEN DISTRIBUTION AND AVOID RUNNING OUT, DIVIDE THE SEED INTO TWO OR MORE PARTS AND SOW IN OVERLAPPING SECTIONS. DO NOT INCORPORATE OR COVER THE SEED, BUT FIRM IN WITH A ROLL, OR BY TREADING, TO GIVE GOOD SOIL/SEED CONTACT.

Planting Schedule

Specimen Trees							
Abbreviation	Species	Common Name	Specification	Height	Girth	Number	
A ca	Acer campestre	Common Maple	2x Standard Clear Stem 175-200 : 4 brks : RB	250-300cm	8-10cm	6	
BET PUB	Betula pubescens	Downy Birch	2x Standard Clear Stem 175-200 : 3 brks : RB	250-300cm	8-10cm	6	
C be	Carpinus betulus	Common Hornbeam	2x Standard Clear Stem 175-200 : 3 brks : RB	250-300cm	8-10cm	6	
C sa	Castanea sativa	Sweet Chestnut	2x Standard Clear Stem 175-200 : 3 brks : RB	250-300cm	8-10cm	7	
Q r	Quercus robur	Common Oak	2x Standard Clear Stem 175-200 : 3 brks : RB	250-300cm	8-10cm	15	
T co	Tilia cordata	Small-leaved Lime	2x Standard Clear Stem 175-200 : 3 brks : RB	250-300cm	8-10cm	6	
							Total : 46

8 NO. L PER LONICERA PERICLYMENUM TO BE PLANTED AT THE BASE OF SPECIMEN TREES WEST OF ROUND WOOD, WITH SHRUB SHELTER IN OPEN GRASSLAND CONTEXT

Woodland Planting

Abbreviation	Species	Common Name	Specification	Height	Pot Size	Density	Percentage Contribution	Number
A ca	Acer campestre	Common Maple	1+1: Transplant - seed raised: B	80-100cm	2Ctr	20%		626
A gl	Alnus glutinosa	Common Alder	1+1: Transplant - seed raised: B	80-100cm	2Ctr	2%		65
B pub	Betula pubescens	Downy Birch	1+1: Transplant - seed raised: B	80-100cm	2Ctr	8%		262
C av	Corylus avellana	Common Hazel	1+2: Transplant - seed raised: Branched: 4 brks: B	80-100cm	2Ctr	30%		939
C mon	Crataegus monogyna	Common Hawthorn	1+2: Transplant - seed raised: B	80-100cm	2Ctr	7%		221
I a	Ilex aquifolium	Common Holly	Leader with Laterals: C	60-80cm	3L	2Ctr	5%	159
L per	Lonicera periclymenum	Common Honeysuckle	Caned: Several Shoots: 2 brks: C	80-80cm	2L	2Ctr	2%	65
M sy	Malus sylvestris	Common Crab Apple	1+2: Transplant - seed raised: B	80-100cm	2Ctr	4%		127
P av	Prunus avium	Wild Cherry	1+1: Transplant - seed raised: B	80-100cm	2Ctr	4%		127
Q r	Quercus robur	Common Oak	1+2: Transplant - seed raised: B	80-100cm	2Ctr	3%		97
R can	Rosa canina	Dog Rose	1+1: Transplant - seed raised: Branched: 3 brks: B	60-80cm	2Ctr	3%		97
S c	Salix caprea	Goat Willow	0/1: Cutting: Branched: 2 brks: B	80-100cm	2Ctr	3%		97
S auc	Sorbus aucuparia	Rowan	1+1: Transplant - seed raised: B	80-100cm	2Ctr	3%		97
V op	Viburnum opulus	Gelder Rose	1+2: Transplant - seed raised: Branched: 3 brks: B	80-100cm	2Ctr	6%		190
							Total : 100%	Total : 3159

Native Scrub Mix

Abbreviation	Species	Common Name	Specification	Height	Pot Size	Density	Percentage Contribution	Number
C av	Corylus avellana	Common Hazel	1+1: Transplant - seed raised: Branched: 2 brks: B	40-60cm	1.5Ctr	35%		190
C mon	Crataegus monogyna	Common Hawthorn	1+1: Transplant - seed raised: BR : 3 brks	60-80cm	1.5Ctr	20%		110
I a	Ilex aquifolium	Common Holly	Bushy : 3 brks	40-60cm	3L	1.5Ctr	10%	57
L vu	Ligustrum vulgare	Common Privet	Branched : 3 brks	40-60cm	2L	1.5Ctr	10%	57
L per	Lonicera periclymenum	Common Honeysuckle	Caned: Several Shoots: 2 brks: C	60-80cm	2L	1.5Ctr	15%	82
R ca	Rhamnus cathartica	Common Buckthorn	1+1: Transplant - seed raised: Leader with Laterals: 3 brks: B	60-80cm	1.5Ctr	10%		57
							Total : 100%	Total : 553

Native Hedgerow

Abbreviation	Species	Common Name	Specification	Height	Pot Size	Density	Percentage Contribution	Number
C av	Corylus avellana	Common Hazel	1+2: Transplant - seed raised: Branched: 4 brks: B	80-100cm		0.3Cr Double Staggered at 0.3m offset	30%	2318
C mon	Crataegus monogyna	Common Hawthorn	1+2: Transplant - seed raised: B	80-100cm		0.3Cr Double Staggered at 0.3m offset	20%	1546
I a	Ilex aquifolium	Common Holly	Leader with Laterals: C	40-60cm	3L	0.3Cr Double Staggered at 0.3m offset	20%	1546
LONPE	Lonicera periclymenum	European Honeysuckle	Caned :Several Shoots : 2 brks	60-80cm	2L	0.3Cr Double Staggered at 0.3m offset	15%	1161
R can	Rosa canina	Dog Rose	1+1: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Cr Double Staggered at 0.3m offset	15%	1161
							Total : 100%	Total : 7732

WILDFLOWERS - WETLAND & WATER EDGE
WWW.BARENBRUG.CO.UK OR SIMILAR

20% WILDFLOWERS -

0.4% ACHILLEA PTARMICA - SNEEZEWORT
1.8% ANGELICA SYLVESTRIS - WILD ANGELICA
0.2% CAREX PENDULA - PENDULOUS SEDGE
1.8% CENTAUREA NIGRA - COMMON KNAWEED
0.4% EUPATORIUM CANNABINUM - HEMP AGRIUM
1% FILIPENDULA ULMARIA - MEADOWSWEEP
0.6% GEUM RIVALE - WATER AVENS
0.4% HYPERICUM PERFORATUM - SQUARE STEMMED ST JOHN'S WORT
2.8% IRIS PSEUDACORUS - YELLOW IRIS
0.8% JUNCUS EFFUSUS - SOFT RUSH
0.8% JUNCUS INFLEXUS - HARD RUSH
0.6% LOTUS PEDUNCULATUS - GREATER BIRDFOOT TREFOIL
0.8% LEUCANTHEMUM VULGARE - OXEYE DAISY
0.4% SILENE FLOS-CUCULI - RAGGED ROBIN
0.4% LYCOPUS EUROPAEUS - GYPSY WORT
0.2% LYTHRUM SALICARIA - PURPLE LOOSESTRIPE
1.2% PRUNELLA VULGARIS - SELF HEAL
0.2% PULICARIA DYSENTERICA - FLEABANE
1.6% RANUNCULUS ACRIS - MEADOW BUTTERCUP
2% RHINANTHUS MINOR - YELLOW RATTLE
0.8% SILENE DIOICA - RED CAMPION
0.4% BETONICA OFFICINALIS - BETONY
0.6% VICIA CRACCA - TUFTED VETCH

80% GRASSES -

3.5% AGROSTIS CAPILLARIS - BROWNTOP BENT
1.4% ANTHOXANTHUM ODO RATUM - SWEET VERNAL GRASS
1.4% ALOPECURUS PRATENSIS - MEADOW FOXTAIL
12% FESTUCA RUBRA COMMUTATA - RED FESCUE
11.2% CYNOSURUS CRISTATUS - CRESTED DOGS TAIL
9% DESCHAMPSIA CESPIITOSA - TUFTED HAIRGRASS
21% FESTUCA RUBRA SPP. LITORALIS - BLENDER CREEPING RED FESCUE
21% FESTUCA BREVIPIRA - HARD FESCUE
3.5% PHLEUM BERTOLONII - SMALLER CATSTAIL - SMALL LEAF TIMOTHY

SOWING TIME

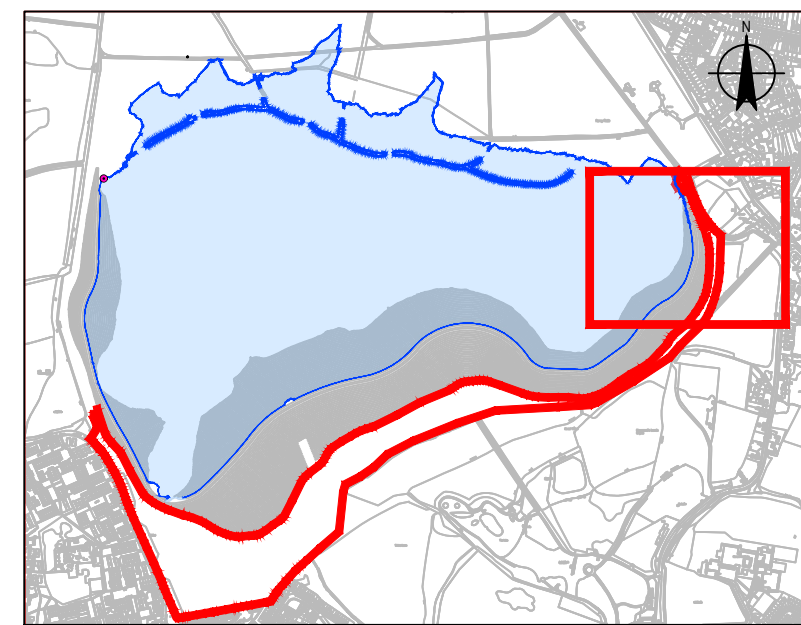
SPRING: MARCH TO MAY
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LATE SUMMER/AUTUMN: AUGUST TO OCTOBER

NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE (UNO).
- ALL LEVELS ARE IN METRES TO ORDNANCE DATUM UNO.
- TWL = TOP OF WATER LEVEL.
- THE DETAILS OF HARD AND SOFT LANDSCAPE DESIGN AS SHOWN ON THIS PLAN ARE SUBMITTED FOR RESERVED MATTERS APPROVAL. THE DETAILED PLANTING MIX, HARD LANDSCAPE MATERIALS SPECIFICATION AND THE DETAILED MANAGEMENT AND MAINTENANCE PROPOSALS FOR THE HARD AND SOFT LANDSCAPE DESIGN WILL BE SUBMITTED SUBSEQUENTLY FOR THE DISCHARGE OF CONDITION 28, WHERE THOSE DETAILS ARE DESCRIBED ON THESE PLANS THIS IS TO AID THE UNDERSTANDING OF THE RESERVED MATTERS PROPOSALS. THE DETAILS TO BE SUBMITTED UNDER CONDITION 28 WILL ACCORD WITH THAT SHOWN ON THESE PLANS UNLESS OTHERWISE AGREED BY THE LPAS.

- Key
- Phase 7 and 8 Reserved Matters Application boundary
 - 39.5 contour - top water level for main reservoir
 - Swelling
 - Vegetation to be retained
 - Recent woodland / tree planting
 - Specimen trees
 - Grassland to be retained
 - Recreational access
 - Specimen trees
 - Native scrub
 - 1.5m Native hedgerow
 - Wildflower seeding - EMS
 - Rush pasture
 - Wet grassland
 - SuDS basins
 - Reallocated Durants Stream corridor
 - Low flow channel (furrows)
 - Headwalls
 - Crest track
 - Maintenance / access tracks- compacted stone
 - Permissive path- compacted gravel surface with 20mm Whinstone dust
 - Stockproof fence
 - Gate
 - Contours
 - +38.2 Levels

Alter: Not to scale



REFERENCE DOCUMENTS AND DRAWINGS

PLEASE REFER TO THE BELOW PHASE 7 AND 8 DRAWINGS:
HTR-GHD-P8-RP-DR-T-0001: APPLICATION BOUNDARY
HTR-GHD-P8-RP-DR-T-0002: APPLICATION BOUNDARY IN RELATION TO CONSERVATION AREA
HTR-GHD-P8-RP-DR-T-0004: WESTERN SECTION
HTR-GHD-P8-RP-DR-T-0005: EASTERN SECTION
HTR-GHD-P8-RP-DR-T-0006-10: GENERAL ARRANGEMENT SHEETS 1-5
HTR-GHD-P8-RP-DR-T-0011: EXISTING LOCATION PLAN
HTR-GHD-P8-RP-DR-T-0012: RUSH PASTURE PLAN
HTR-GHD-P8-RP-DR-T-0013: RUSH PASTURE CROSS SECTIONS SHEET 1
HTR-GHD-P8-RP-DR-T-0014: RUSH PASTURE CROSS SECTIONS SHEET 2
HTR-GHD-P8-RP-DR-T-0015: RECREATIONAL ACCESS
HTR-GHD-P8-RP-DR-T-0016: REALIGNED REDDERS LANE CHANNEL CROSS SECTIONS
HTR-GHD-P8-RP-DR-T-0017: REALIGNED DURANTS STREAM CROSS SECTIONS

PD	FOR INFORMATION	SWG	TG	03/09/2026
PD	FOR INFORMATION	SWG	TG	01/09/2026
POT	FOR INFORMATION	SWG	TG	11/08/2026
Rev	Description	Checked	Approved	Date

Author: ST
Designer: ER
Drafting Check: SWG
Design Check: SWG

Telephone: Havant (023) 9249 9888
Fax: Havant (023) 9245 3632
Website: www.portsmouthwater.co.uk
Registered Office: PO Box 9 West Street
Havant Hampshire PO9 1LG
REGISTERED IN ENGLAND No. 2536455



Client: PORTSMOUTH WATER

Project: HAVANT THICKET RESERVOIR

Status: FOR INFORMATION

Drawing Title: PHASE 7 AND 8
REMAINING LANDSCAPE AREAS
GENERAL ARRANGEMENT
SHEET 5 OF 5

Status Code: S2
Size: A0
Revision: P03

Refer to HTR-GHD-P8-RP-DR-T-0009

0 5 10 15 20 25m
SCALE 1:500 AT ORIGINAL SIZE
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