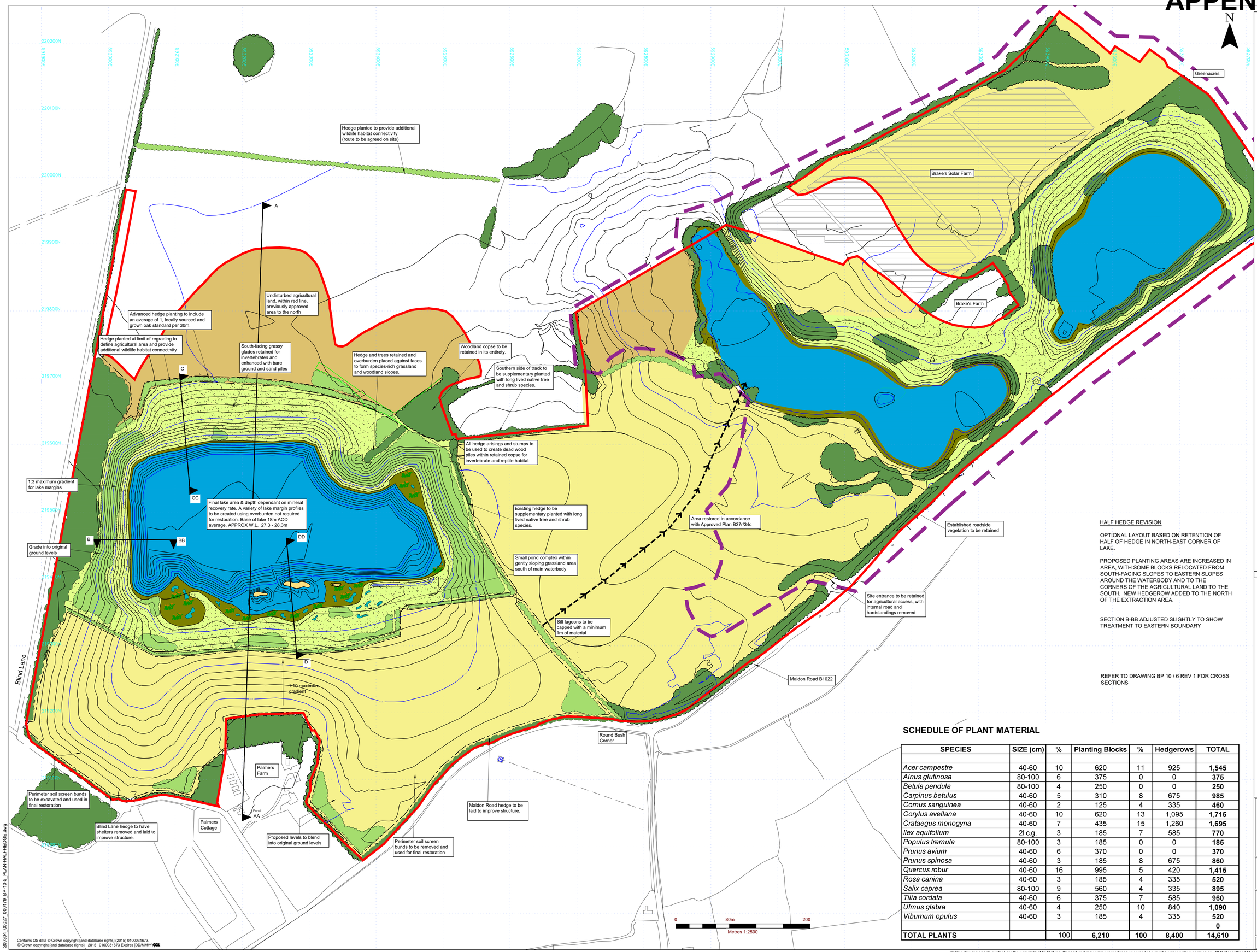
APPENDIX I



- This restoration concept plan outlines the anticipated likely final landform and land use for the western extension of Birch Quarry.
- The proposed restoration aims create the following:
  - 16 ha agricultural land
  - 8.6 ha open water and 1.2 ha reedbed
  - 5.9 ha wildflower grassland
  - 3.9 ha broadleaf woodland planting
  - 2,100m hedgerow planting
- All soil handling will be carried out in accordance with MAFF Best Practice Guidance for handling soils.
- Bulk backfill will be compacted for stability purposes but subsoil formation layer will be cross ripped to a minimum depth of 450mm to alleviate compaction.
- On completion of ripping of the formation subsoil layer, 300mm of topsoil will be either spread from soil stores or direct placed by low ground pressure dozer or excavator.
- Agricultural land will have field drains installed as necessary to provide satisfactory growing conditions.
- Agricultural land will be cropped using species e.g. spring barley, oil seed rape as agreed in the annual aftercare meeting and its attendees.
- All planting will be carried out using stock from Forestry Commission local provenance zone 405 in line with the planting schedule.
- Planting blocks will be planted in a random mix at 2.5m centres to achieve 1,600 plants per hectare.
- Hedgerows will be planted within at 4 plants per linear meter at 0.5m centres in 2 staggered rows, 0.5m apart.
- 80-100cm stock to be protected by 60cm clear plastic spirals supported by a 90cm, 12/14lb bamboo cane.
- 40-60cm stock to be protected by 60cm Tubex supported by a 90cmx32mmx32mm treated softwood stake.
- Planting blocks and hedges will be maintained for 5 years.
- Planting blocks will receive an application of glyphosate in spring in a 90cm diameter spot spray to control competing weeds. Noxious weeds will be controlled in summer by an application of a selective herbicide e.g. broadshot. In late summer, excessive grass growth may be strimmed. A beat up assessment will be carried out in winter with losses replaced.
- Hedges will receive an application of a winter residual herbicide e.g. kerb to control competing vegetation. Rabbit fences will be checked to ensure plant protection and a beat up assessment carried out each winter with losses replaced.
- Reed beds and wetland areas are to feature a complex of underwater channels, pools and scrapes to provide varied under water topography suitable for aquatic flora and fauna.
- Islands will be retained and dressed with sand to provide habitat for ground nesting birds.
- Areas of the lake margin will be left without reed beds to allow access for fishing if desired, these areas will be planted with willows to provide fish refugia.
- Reeds will be established using plug plants protected by Netlon rings.
- Wildflower grassland will be sown using an appropriate seed mix either locally sourced or 'off the peg' from a British native seed supplier e.g. Emorsgate depending upon availability and soil conditions.
- It is anticipated that grassland areas will receive no inputs in order to keep a low-fertilitystate.
- Mowing will be used to maintain the sward as necessary.

HALF HEDGE REVISION

OPTIONAL LAYOUT BASED ON RETENTION OF HALF OF HEDGE IN NORTH-EAST CORNER OF LAKE.

PROPOSED PLANTING AREAS ARE INCREASED IN AREA, WITH SOME BLOCKS RELOCATED FROM SOUTH-FACING SLOPES TO EASTERN SLOPES AROUND THE WATERBODY AND TO THE CORNERS OF THE AGRICULTURAL LAND TO THE SOUTH. NEW HEDGEROW ADDED TO THE NORTH OF THE EXTRACTION AREA.

SECTION B-BB ADJUSTED SLIGHTLY TO SHOW TREATMENT TO EASTERN BOUNDARY

REFER TO DRAWING BP 10 / 6 REV 1 FOR CROSS SECTIONS

LEGEND

- SITE BOUNDARY
- AS-BUILT AREA OF RESTORED LAND
- PROPOSED CONTOURS
- EXISTING AGRICULTURAL LAND
- RESTORED AGRICULTURAL LAND
- WILDFLOWER GRASSLAND
- WATER
- EXISTING VEGETATION
- PROPOSED VEGETATION
- PROPOSED ISLANDS
- REEDBED AND WETLAND HABITAT
- RABBIT FENCE AND FIELD GATE
- DITCH WITH GRAVEL FILTRATION TRENCH

SCHEDULE OF PLANT MATERIAL

SPECIES	SIZE (cm)	%	Planting Blocks	%	Hedgerows	TOTAL
Acer campestre	40-60	10	620	11	925	**1,545**
Alnus glutinosa	80-100	6	375	0	0	**375**
Betula pendula	80-100	4	250	0	0	**250**
Carpinus betulus	40-60	5	310	8	675	**985**
Cornus sanguinea	40-60	2	125	4	335	**460**
Corylus avellana	40-60	10	620	13	1,095	**1,715**
Crataegus monogyna	40-60	7	435	15	1,260	**1,695**
Ilex aquifolium	2l c.g.	3	185	7	585	**770**
Populus tremula	80-100	3	185	0	0	**185**
Prunus avium	40-60	6	370	0	0	**370**
Prunus spinosa	40-60	3	185	8	675	**860**
Quercus robur	40-60	16	995	5	420	**1,415**
Rosa canina	40-60	3	185	4	335	**520**
Salix caprea	80-100	9	560	4	335	**895**
Tilia cordata	40-60	6	375	7	585	**960**
Ulmus glabra	40-60	4	250	10	840	**1,090**
Viburnum opulus	40-60	3	185	4	335	**520**
						0
TOTAL PLANTS		100	**6,210**	**100**	**8,400**	**14,610**

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BP 10/5 - HALF HEDGE

Scale 1:2500 @ A1
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