

Highgate Chain

Pond	Dam	Spillway	Ecological mitigation and reinstatement
Stock Pond	Crest restoration by up to 500mm and a small bund created in the eastern corner..	New grass lined spillway at the western end of the dam, 21m wide at the base, with side slopes of 1:12. Two new 900mm overflow pipes to run parallel with the existing overflow pipe	Pond to be de-silted. New marginal planting on south west bank Japanese Knotweed to be managed. New tree and shrub planting Wetland scrapes and mini check dams will be created to catch sediment and channel the normal flow from Stock pond and the existing stream to the east of the pond into the Kenwood Ladies Bathing Pond. The path across the dam will be restored to its current finish of tar and chip.
Kenwood Ladies' Bathing Pond	Crest restoration by up to 300mm New concrete slab and facility to be built. Concrete slab to have the same footprint as existing.	New grass lined spillway at the western end, 19.4m wide at the base, with side slopes of 1:3. New 600mm diameter overflow pipe alongside the new spillway.	Pond to be de-silted 3 woody debris check dams and scrapes to be installed along inflow streams upstream to control sediment ingress and improve water quality of discharge to Kenwood Ladies' Bathing Pond. Screening of the western perimeter of the pond to be enhanced with new tree/scrub planting. Additional aquatic planting will also be installed in front of the spillway The path across the dam will be reinstated as currently.
Bird Sanctuary Pond	Crest restoration by up to 80mm.	No spillway but the slope downstream to the Model Boating Pond is to be smoothed and lined with a turf reinforcement mat. Relocation of the two overflow pipes	Additional channel (46m) to be dug to enhance wetland area. Development and extension of existing reed bed New wetland scrapes constructed along existing inflow stream to south-west arm to control sediment ingress and improve water quality of discharge to pond. The path across the dam will be restored with tar and chip dressing.
Model Boating Pond	Dam raised by 2.5m with a new earth embankment upstream of the existing dam. West bank excavated to win material to raise dam and to extend pond. Island created to preserve existing mature trees. A second borrow pit will provide material for the raised dam. This borrow pit is proposed for the top of the hill west of the Model Boating Pond. Borrow pits to be reinstated with silt from the de-silted ponds. Model Boating Pond is the main focus of works on the Highgate Chain	New upper grass lined spillway over the raised dam and lower grass lined spillway over the existing at the western end to retain existing mature trees on existing dam.	Partial de-silting New island to be formed around the preserved group of existing mature lime trees, London plane and English Oak, and linked to west bank with causeway. New marginal planting on west bank, upstream edge of raised dam and around new island. The eastern side will retain its hard edge to facilitate access to the water for model boating and for fishing. Fishing will also be facilitated by gaps in the planting. New trees will also be planted. New footpath on upstream face of the raised dam and along realigned west bank providing continuous access to pond edge. The path around the pond will be re-laid as hoggin, while the path which will be reinstated on the western side part way up the bank and the path across the dam will be tar and chip.
Men's Bathing Pond	Raising of the dam by 1m, using a sheet pile wall capped with English oak. Current leak in the dam to be repaired.	New grass lined spillway at existing ground level at the western end of dam, 25m wide.	2 check dams and a small reed bed created on existing inflow to north west corner to control sediment ingress and improve water quality of discharge to pond. Climbing plants either side of the sheet pile wall There are no changes to the finish of the paths.
Highgate No.1	Raising of the dam with a 1.25m high wall, using a sheet pile wall capped with English oak.	New grass lined spillway at the western end of the dam, 64m wide. Return wall along east side of spillway.	Extension of the existing reed beds along the north bank and new marginal planting on east bank. There are no changes to the finish of the paths.

Hampstead Chain

Pond	Dam	Spillway	Ecological mitigation and reinstatement
Vale of Health	Crest restoration up to 560mm achieved by 300mm of fill and 260mm kerb	New grass lined spillway at the western end where the dam is currently lower, 5m wide. Additional new overflow pipe, 500mm, to run parallel to the existing pipe.	Marginal planting on south-east bank. The footpath will be re-laid to match the current one. The existing fence will be retained
Viaduct	Crest restoration up to 200mm	New grass lined spillway at the eastern end, 4m wide, 1:12 slide slope. New overflow pipe 500mm diameter.	Pond to be de-silted. Marginal planting on the east bank below the Viaduct bridge The path will be reinstated as a compact aggregate self-binding gravel and will have a slight camber to improve drainage.
Catchpit	New flood storage provided by earth embankment dam, 5.6m high at the lowest point in the valley and 40m wide at the widest point. Crest of the dam approximately 100m long. Slopes 1:3 upstream and 1:4 downstream. Catchpit is the main focus of works on the Hampstead Chain.	Reinforced turf spillway along the whole crest of the dam. 750mm pipe under the dam to pass normal flows. Current pipe between Catchpit and the Mixed Pond to be removed to allow the natural stream to be restored. This will create a new wetland area. A cross point will be installed	A new mini catchpit incorporating reed bed filter systems upstream of the dam. Wetland scrapes and informal flow channels downstream of dam to control sediment ingress to Mixed Bathing. New trees to be planted south of the new dam Scrub to be planted on upstream face, downstream face to be turfed. The informal path across the dam will be grass reinforced with an open 3D grass reinforcement system.
Mixed Bathing	Dam raised by 1m within footprint of existing dam achieved by raising pond edge by 500mm with 500mm low bund along upstream face. 4m wide path reinstated on crest surface. Downstream slope of raised fill to be 1:3 and lined with reinforced turf to match existing slope, which will be lined with reinforced turf.	Spillway over the majority of the crest of the dam with 1:20 ramp either side of spillway to preserve existing mature trees. Existing overflow pipe extended further in to the pond.	Pond to be de-silted. New marginal planting on the north bank and along the upstream face of the dam. The path across the dam will be reinstated as presently with tar and chip.
Hampstead No. 2	Crest restoration with a 0.2m high edging	A new overflow at the western end formed with a precast concrete box culvert, 2.1m wide, with a drop inlet within the pond.	Marginal planting on the west bank. Culvert route and width redesigned so that the London Plane trees on the dam, visible from Mixed Bathing Pond are preserved. Platform designed to screen drop inlet Disabled fishing access to be provided along the dam The path across the dam will be reinstated as currently with tar and chip. New trees are being planted by the southwest corner of the pond.
Hampstead No. 1	No raising or restoration proposed.	New box culvert overflow through and over the embankment at eastern end of dam, Culvert to be buried with topsoil and located to retain existing mature London plane trees.	Marginal planting along south and east bank. Paths will remain as existing.