NE RAILWAY

Repair 19m macadm joint and concrete edge to lake

New marginal planting areas to be created around new fishing platforms.

Cut back and excavate rhizomes of selected areas of Norfolk Reed to restrict further spread and open up 'windows' through the dense clumps. Habitat to be replaced around central isalnd. Remaining clumps of Norfolk Reed to be managed.

Create new marginal planting areas beside new fishing / viewing platforms and to enlarge existing islands.

Form perimeter marginal habitat areas, backfilled with silt from elsewhere in the lake and aggregate with varying water depths for variety of marginal plant species.
Edges to the marginal areas to have pre-planted coir rolls.
Typical pre-planted coir roll species mix:
Lesser Pond Sedge - Carex acutiformis
Blue Sedge - Carex flacca
Yellow flag Iris - Juncus effusus
Purple Loosestrife - Lythrum salicaria
Reed Canary Grass Phalaris arundinacea
All marginal areas to be planted with a mix of marginal species.
Planting to be protected using wire mesh fencing until established to prevent geese and duck damage to plants.

Inlet from river

Line of exisitng gabion baskets

RIVER DERWENT

New Norfolk reed beds around island

Outlet to river

Investigate methods of improving water quality and increasing oxygen levels -
- Bacteria to digest organic silt
- Solar powered pump

Carry out tree management on central island to increase air flow and light levels.
Create marginal areas with Norfolk Reed for bird nesting. This is to replace habitat lost at the northern edge of the lake and to restrict spread of reeds.

Exisitng marginal planting to be retained and incorporated into new beds.

Model boat zone
To be left clear

Repair footpath

Grub out conifer and laurel. Widen out bed to incorporate tree roots. Cultivate and improve soil, replant beds with ornamental shrubs and erect temporary fencing to protect until established.

Youth

Install interpretation boards around the lake.

New fishing / viewing platforms to be installed by others
Small platforms to be 1.5m.sq.
Long 'T' platforms to be 4m x 1.2m boardwalk with 1.5m.sq. ends.
Viewing platform to be 10m x 1.5m

Numbers of Canada Geese to be controlled by by undertaking 'egg-oiling' to prevent eggs hatching. License to be sought from Natural England.

Repair 36m concrete edge and raise joint between path and concrete to eliminate puddling.

Fix 13m timber sleeper upstand around concrete base.
Fix to steel brackets and leave gaps for drainage.
Include 2no. fixing eyes for model boat club.

Youth

Munio
Promoting climate change adaptation, risk prevention and management in the Lower Derwent
European Union
European Structural and Investment Funds

Derby City Council Communities and Place
Dir. C.Durrant

Scheme: Munio - Alvaston Park		Title: Lake improvement works
Scale: NTS @ A2	Date: Nov. 2017	
	Drawn by: A. Brown	Drawing. No. P5-7-2