



LONG-TERM MAINTENANCE SURFACE WATER MANAGEMENT PLAN FOR BARTON ROAD, BARLESTONE

Revision: First Issue (23/08/24)

Revision Notes:

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1.0 Maintenance

In addition to regular routine items, SUDS maintenance will need to be carried out, and may include pond de silting, usually carried out on a 10 – 15 year cycle. This can be an intrusive operation when carried out within housing areas. Prior to any planned de-silting or dredging, consultation will need to be undertaken with the water company and the local planning authority.

Before these operations are carried out, members of the public in the general area will need to be informed and those in the immediate vicinity will need to be notified in writing well in advance of commencement of works.

The dredging work will be carried out under the supervision of consulting engineers and to a pre-agreed method statement. In the event that the pond develops particular wild life interest then careful consideration will be given to the timing of this operation.

2.0 Water quality

The managing agent will be responsible for the removal of material deposited within the system during periodic de-silting and also the larger objects which will occasionally be dumped by members of the public. These latter items will need to be removed as part of the periodic litter inspection, as will material around the pond edges.

As the managing agent does not have responsibility for household pollution entering the pond, public liaison is required in an effort to minimize such incidents and the water regime within the pond will need to be kept under review in order to ensure the water quality.

In the unlikely event of severe pollution incidences, these will need to be dealt with on a one-off basis in close consultation with the Environment Agency, Severn Trent Water and the Local Authority. The managing agent will need to assist with any prosecutions which the regulatory authorities may wish to pursue where the individuals causing the pollution can be identified.

3.0 Ecology

As the pond matures, they will naturally develop ecological interest over time. A range of amphibians and invertebrates will gradually colonize. Members of the public will need to be discouraged from introducing any fish into the pond.

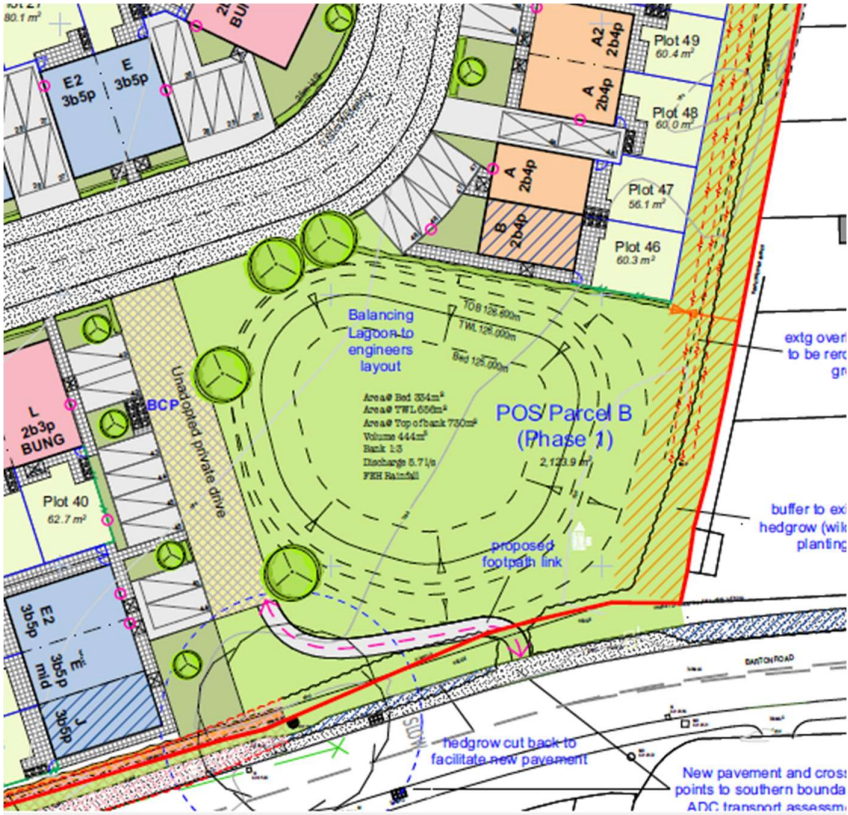
Water birds will also become established in time. As noted above, de-silting will be timed to avoid the nesting season, and to allow birds to return quickly.

4.0 Periodic review

The SUDS system will be subject to a 5 yearly review to establish whether the management objectives require revision.

5.0 Balancing lagoon

All surface water run-off is directed to the large balancing lagoon on the south eastern part of the site.



6.0 Balancing Lagoon Maintenance Activities & Frequency

Maintenance Category	Maintenance Activity	Comments	Frequency
Routine Maintenance	Litter and debris removal.	Litter & debris to be removed prior to any grass cutting activity (of perimeter areas) to minimize risk of shredding litter. Particular attention should be paid to inlet/outlet pipes and	Monthly.

		grilles (if in place).	
	Grass cutting: landscaped areas, spillways & access routes.	All cuttings to be removed from SUDS component.	Monthly (during growing season) or as required.
	Grass cutting: meadow grass.	All cuttings to be removed from SUDS component.	Half yearly (Spring before nesting season, and Autumn).
	Remove dead vegetation from pond edge.		1-3 years, or as required.
	Hand cut submerged and emergent aquatic plants (at a minimum of 0.1m above pond base; max 1/3 of pond surface).	Thinning of emergent barrier vegetation. Areas of tall emergent plants obscuring visual inspection (for safety) of the open water should be regularly trimmed.	As required.
	Cut & remove bank vegetation from waters edge to a minimum of 1m above water level.	To provide access to pond edge/emergent vegetation for maintenance and inspection.	Monthly (for first 3 years) then as required).
	Manage other vegetation and remove nuisance plants.	To include wetland plants in permanent pools. Weeding should be conducted by hand or use non-toxic and biodegradable weedkiller. Invasive species should be removed in accordance with best practice.	Monthly (at implementation) then as required.
	Tidy all dead growth before start of growing season.		Annually.
	Remove sediment from pre-treatment (if applicable).	When level reaches 50% of inspection chambers sump /	Annually or as required.

		forebay.	
	Ice warning safety signage.		To be erected at the end of September and removed at the end of March.
Infrequent Maintenance	Re-seed or replant areas of poor vegetation growth.		As required.
	Prune & trim trees and remove cuttings.	Where vegetation is planted as a barrier management of upward growth to encourage outward growth is necessary (after shrub seedlings are established).	As required.
	Remove sediment from forebay.	If pond is lined care should be taken to protect the liner; this may include digger buckets without teeth, etc. Care should be exercised to limit re-suspension of sediment into main pool.	.As required.
	Remove sediment from main body of large ponds when pool volume is reduced by 20%	Sediment level will be dependent upon presence & type of upstream SUDS, size and land use of catchment as well as local soil conditions. Refer to above point for pond liner.	>25 years usually, or as required.
Corrective Maintenance	Repair erosion or other damage.		As required.
	Re-alignment of rip-rap.		As required.
	Aerate pond when signs of eutrophication are detected.		
	Repair / rehabilitation of inlets, outlets and overflows.		As required.

Balancing Lagoon Inspection & Frequency

Inspection Activity	Comments	Frequency
Inspect structures for evidence of poor operation		Monthly.
Inspect banksides, structures, pipework etc for evidence of physical damage.		Monthly.
Inspect water body for signs of eutrophication.		Monthly (May – October).
Inspect inlets and pre-treatment components for silt accumulation.	Includes visual inspection of chamber (where present) & inspection of flow control.	Half yearly.
Check mechanical devices within chambers.	Includes cracking of seals on penstocks, testing Hydro-Brake by-pass door.	Half Yearly.
Safety signage and safety equipment inspection.	Ensure permanent and seasonal safety signs in place. Safety equipment should be inspected to ensure it is available and in good repair.	Monthly.