

Ecology Response to F/22/93194 - Ageas Bowl Drainage 14/3/23

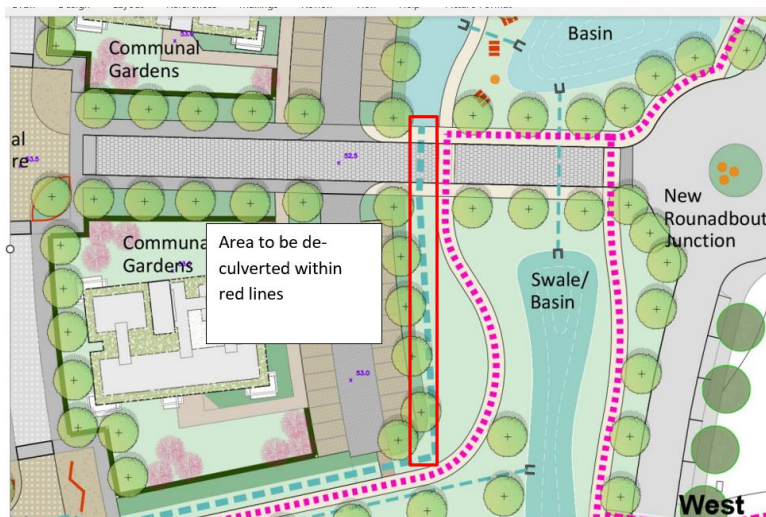
This response refers to Landscape Plan Area 5 (West) Sheet 5 of 6 rev 06 as shown below.



The diverted watercourse (thick dashed line) should be de-culverted as much as possible.

The area labelled Attenuation Pond should not be an attenuation pond. It is the watercourse, because the culverted Telegraph Brook flows into it when it exits the culvert. It should be profiled as a watercourse, and should be managed as a watercourse, with a low flow, two stage channel and not a trapezoidal channel.

The watercourse could be de-culverted south of where it is shown now, back to the right-angle bend. Eliminating the right-angle bend would also reduce the chances of blockages.



Most of area 5 is proposed to be drained by permeable paving, the swale/basin and the basin before discharge into the watercourse. This would provide 3 forms of filtration, of which 2 are naturalised.

The lakes within the golf course must provide another form of naturalised filtration for this water, the final level of treatment before it is discharged off site.

It is not clear which areas in this housing section (Area 5) are proposed to be drained by which features and where this runoff will enter the system. The thin dashed line starts just to the west of Orientation Square and flows into the Swale/Basin but it is not clear how and which drainage enters this path. The catchments need to be shown on this plan or on a simpler plan, because the compressed Appendix drainage documents are still too large, and I still cannot open them.

Surface water from all of the roads should drain through the permeable paving, the Swale/Basin and the Basin before draining into the main watercourse.

In this new plan, the old watercourse, labelled existing ditch, will not receive the main flow from Telegraph Brook. We need to know which areas are proposed to drain into to this ditch. The simple index approach needs to apply to any runoff before entering the ditch. This ditch cannot be managed as a swale, as it is shaded by the trees, which should be retained. Some water must enter this ditch so that it does not get starved of water and dry out. There was some discussion about the surface water drainage from the houses in area F and the apartment blocks draining into this ditch but it is not clear how this would work. What level of filtration would this watercourse with trees provide?

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Ecologists