



Hampshire County Council

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Direct Line	0370 779 8679	Your reference	APP/22/00681
Date	30 August 2022	Email	swm.consultee@hants.gov.uk

Dear Sir/Madam,

Application for approval of all Reserved Matters relating to Phase 1 (northern access route from Manor Lodge Road (B2149)) of the Havant Thicket Reservoir Project (Hybrid permission APP/20/00990) and approval of condition Nos: 2, 13, 20, 27, 28, 32, 36, 37, 38 and 39 also in relation to the northern access route at Havant Thicket, adjacent to Sir George Staunton Country Park, Middle Park Way, Havant (Application No. APP/22/00681)

Hampshire County Council as Lead Local Flood Authority has provided comments in relation to the above application in our role as statutory consultee on surface water drainage for major developments.

This response does not reflect the position of Hampshire County Council as the Highway Authority. If there is a potential for the drainage features to be offered for adoption, this will need to be discussed separately with Highways development planning as they might not be considered acceptable by the Highway Authority.

In order to assist applicants in providing the correct information to their Local Planning Authority for planning permission, Hampshire County Council has set out the information it requires to provide a substantive response at <https://www.hants.gov.uk/landplanningandenvironment/environment/flooding/planning>

The County Council has reviewed the following documents relating to the above application:

- **Atkins/ Drainage Management Plan (Phase 1- Northern Access Reserved Matters Application and Planning Conditions Hybrid**

*Director of Economy, Transport and Environment
Stuart Jarvis BSc DipTP FCIHT MRTPI*

**Consent APP/20/00990 & 51680/001)/ HTR-ATK-XX-ZZ-RP-Z-0004
Rev C03/ 01.07.22**

- **Atkins/ NORTHERN ACCESS DRAINAGE LAYOUT 1 of 3/ HTR-ATK-AR-ZZ-SK-D-0020 Rev C02 / 29.06.22**
- **Atkins/ NORTHERN ACCESS DRAINAGE LAYOUT 2 of 3/ HTR-ATK-AR-ZZ-SK-D-0019 Rev C02 / 29.06.22**
- **Atkins/ NORTHERN ACCESS DRAINAGE LAYOUT 3 of 3/ HTR-ATK-AR-ZZ-SK-D-0020 Rev C02 / 29.06.22**

This is the reserved matters application for the phase 1 access road. As the site is located in ancient woodland, the drainage is highly constrained to minimise the impact on tree roots and the woodland. It has not been possible to do infiltration testing and instead runoff have been minimised through the provision of cellweb to allow for permeable road construction. Roadside ditches with check dams are also being used and in one location a small basin. Impermeable asphalt surfacing is used on the southern section of the northern access route (chainage 1210-1407m). In this case the centre of the road is crowned, and flow is discharged to a small attenuation basin with a hydrobrake. In places, an oversized pipe with a hydrobrake is also used to attenuate flow. The simple Index Approach has been used to confirm that the water quality benefits have been met.

Please be aware that the comments below relate to the Lead Local Flood Authority drainage standard only and separate comments should be sort from Hampshire Highways as to whether the drainage proposals meet their standards.

In order for us to provide a substantive response, the following information is required:

- **Please confirm where the three sub-catchments discharge to.** Flow rate calculations have been provided for three sub-catchments. This shows that overall, the flow rates have been noticeably reduced. However, sub-catchment Phase 1 (chainage 1210-1407) to existing watercourse has an increase in flow rates. It is not clear where each of the sub-catchment drains to and therefore it is hard to determine whether these three sub-catchments drain to the same eventual location or whether they drain to different locations. If they drain to different locations then the increase in the one sub-catchment, will be increasing flood risk. If all three sub-catchments drain to one location, then there should be a net reduction in runoff. Please confirm, ideally via a single plan, where each sub-catchment discharges to.
- **Please clarify the discrepancy between the existing flow rates shown in section 3.6 of the drainage management plan and the greenfield runoff rates provided in the micro drainage calculations.** The drainage management plan shows 1 in 1 runoff off rates of each of the sub-catchments of 53.8 l/s, 58.7l/s and 3.7 l/s

respectively. Meanwhile, the micro drainage greenfield calculations for the entire route have a 1 in 1 year discharge rate of 0.6 l/s. Please explain the differences.

- **The micro drainage results have not modelled the 1 in 100 plus 40% scenario.** The 1 in 100-year micro drainage calculations (page 83 of the Drainage Management Plan) has not included the require 40% climate change allowance needed for stress testing the proposed system. Please update these results to include an allowance for climate change.
- **Performance concerns at HW10.** The Northern Drainage Access layout (3 of 3) at Headwall HW10 shows that the ditch to the west and east are draining towards each other and then having to turn at a 90-degree angle and flow through the adjacent culvert. We are concerned that this combination will behave as a hydraulic stop with very little flow being able to discharge through the culvert and floodwaters and silt building up in this location. Please confirm how this will be addressed to prevent a flood risk/maintenance liability.
- **Please confirm who will be undertaking maintenance of the drainage proposed.** The Drainage Management Plan states that the Environment Agency maintains Main River and the Lead Local Flood Authority maintains ordinary watercourses. This is incorrect. These are the enforcing bodies not the body responsible for maintenance. Please confirm who will be maintaining the ditches and other proposed drainage features? Is the drainage being adopted by Highways or will it be maintained by the landowner or another party? Please provide the general maintenance requirement for each difference type of drainage feature in accordance with our surface water checklist. <https://documents.hants.gov.uk/flood-water-management/SurfaceWaterChecklistGuidance.pdf>

We require this further information before we can make a decision on whether to recommend to the Local Planning Authority that planning permission is granted.

As a statutory consultee, the County Council has a duty to respond to consultations within **21 days**. The 21 day period will not begin until we have received sufficient information to enable us to provide a meaningful response.

Please ensure all data is sent to us via the relevant Local Planning Authority.

If you require additional guidance on providing the correct information, we recommend you use our **Surface Water Management Pre-application service** which will enable discussions with the reviewing engineer and scope out works that would address the points raised. For full details, please visit:

<https://www.hants.gov.uk/landplanningandenvironment/environment/flooding/planning> and click on [pre-application advice request form](#).

This response has been provided using the best knowledge and information submitted by the applicant as part of the planning application at the time of responding and is reliant on the accuracy of that information.

Yours faithfully,



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Web:

<https://www.hants.gov.uk/landplanningandenvironment/environment/flooding>

General guidance for the application

It is important to ensure that the long-term maintenance and responsibility for Sustainable Drainage Systems is agreed between the Local Planning Authority and the applicant before planning permission is granted. This should involve discussions with those adopting and/or maintaining the proposed systems, which could include the Highway Authority, Planning Authority, Parish Councils, Water Companies and private management companies.

For SuDS systems to be adopted by Hampshire Highways it is recommended that you visit the website at:

<https://www.hants.gov.uk/transport/developers/constructionstandards> for guidance on which drainage features would be suitable for adoption.

Where the proposals are connecting to an existing drainage system it is likely that the authorities responsible for maintaining those systems will have their own design requirements. These requirements will need to be reviewed and agreed as part of any surface water drainage scheme.

Works in relation to ordinary watercourses

PLEASE NOTE: *If the proposals include works to an ordinary watercourse, under the Land Drainage Act 1991, as amended by the Flood and Water Management Act 2010, prior consent from the Lead Local Flood Authority is required. **This consent is required as a separate permission to planning.***

Information on ordinary watercourse consenting can be found at the following link

<https://www.hants.gov.uk/landplanningandenvironment/environment/flooding/c/hangewatercourse>

It is strongly recommended that this information is reviewed before Land Drainage consent application is made.

*For guidance on providing the correct information, we recommend you use our **Ordinary Watercourse Consents Pre-application service** and help avoid delays occurring at the formal application stage. A Pre-application service for Ordinary Watercourse Consents is available, allowing consents to go through in a smoother, often more timely manner. For full information please visit:*

<https://www.hants.gov.uk/landplanningandenvironment/environment/flooding/c/hangewatercourse>