

## Engineers Comments Regarding Surface Water Drainage

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                   |
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| <b>Application Reference:</b>   | LU/185/25/DOC                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Reviewer Reference:</b> | ADC/EXT2/D2134/83 |
| <b>Planning Officer:</b>        | Silvie Steiningerova                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Date of Review:</b>     | 14/01/2026        |
| <b>Site Name:</b>               | Land West of Holly Drive Littlehampton                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                   |
| <b>Application Description:</b> | Approval of details reserved by condition imposed under LU/47/11/ relating to condition 10-surface water drainage, 11-watercourses and culverts maintenance, 12-flows to watercourses and 13-foul drainage (see LU/184/25/DOC for approval of details reserved by condition imposed under LU/47/11/ relating to conditions 21-Ecological Management Plan, 22-Construction Method Statement, 23-details of construction compound and 26-Roads Construction Programme). |                            |                   |
| <b>Assessment Number:</b>       | 1 of 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                   |

| Policy and Guidance Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
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| <p>Arun District Council Surface Water Drainage Guidance (including design checklists) - <a href="https://www.arun.gov.uk/surfacewater">https://www.arun.gov.uk/surfacewater</a></p> <p>Land Drainage Consent – <a href="https://www.westsussex.gov.uk/fire-emergencies-and-crime/dealing-with-extreme-weather/flooding/flood-risk-management/ordinary-watercourse-land-drainage-consent/">https://www.westsussex.gov.uk/fire-emergencies-and-crime/dealing-with-extreme-weather/flooding/flood-risk-management/ordinary-watercourse-land-drainage-consent/</a></p> <p>Arun District Council Land Drainage Byelaws - <a href="https://www.arun.gov.uk/byelaws/">https://www.arun.gov.uk/byelaws/</a></p> <p>Arun District Council surface water pre-commencement conditions - <a href="https://www.arun.gov.uk/planning-pre-commencement-conditions">https://www.arun.gov.uk/planning-pre-commencement-conditions</a></p> <p>The National Standards for SuDS - <a href="https://www.gov.uk/government/publications/national-standards-for-sustainable-drainage-systems/national-standards-for-sustainable-drainage-systems-suds">https://www.gov.uk/government/publications/national-standards-for-sustainable-drainage-systems/national-standards-for-sustainable-drainage-systems-suds</a></p> <p>The SuDs Manual [C753] by CIRIA</p> |  |

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| <b>Response</b> | <p>Condition 10 - Surface water drainage: <b>Further information required</b></p> <p>Condition 11 – Watercourses and culverts maintenance: <b>No objection</b></p> <p>Condition 12 – Flows to watercourses: <b>No objection</b></p> <p>Condition 13 – Maintenance: <b>Objection</b></p> |
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| References                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <p>The NPPF states that when determining any planning application, local planning authorities should ensure that flood risk is not increased elsewhere (paragraph 181, 182 and 187e). The PPG guides local planning authorities to refer to 'Sustainable drainage systems: non-statutory technical standards' [NsTS] and detailed industry guidance like The SuDS Manual [C753] by CIRIA to guide decisions about the design, maintenance, and operation of sustainable drainage systems for non-major development.</p> <p>The NsTS have been superseded by the National Standards for Sustainable Drainage Systems [NsSfS] from 19 June 2025.</p> |

This consultation has been primarily informed by the NSfS and The SuDS Manual.

## Summary

This summary highlights if critical items aligning with each of the standards have been met. Critical items are highlighted in **bold** on our surface water drainage design checklist (linked above). A failure to address these will result in an **objection** to any application to discharge a surface water drainage design condition.

If any of these items are inadequately addressed by the submission, then their correction may result in a redesign of the surface water drainage scheme. A redesign is likely to have site wide implications such as the potential for storage structures to increase in volume or plan area, or the provision of other important infrastructure to satisfy the NSfS set out below.

All relevant items on the checklist are expected to be met before an application to discharge an application to discharge a SuDS design condition is supported.

Our response and requirements are elaborated upon or condensed within an attached comment tracker where necessary. If a comment tracker is provided a designer is encouraged to refer to this and respond to comments to aid further review. Please request a .docx version of this document to by email to [land.drainage@arun.gov.uk](mailto:land.drainage@arun.gov.uk) if needed.

| Standard                                                                          | Assessment   | Response            |
|-----------------------------------------------------------------------------------|--------------|---------------------|
| 1. Runoff destination                                                             | Compliant    | <b>No objection</b> |
| 2. Interception drainage                                                          | Compliant    | <b>No objection</b> |
| 3. Extreme Rainfall and Flooding                                                  | Insufficient | <b>Objection</b>    |
| 4. Water Quality                                                                  | Compliant    | <b>No objection</b> |
| 5. Amenity                                                                        | Insufficient | <b>Objection</b>    |
| 6. Biodiversity                                                                   | Insufficient | <b>Objection</b>    |
| 7. Construction, operation, maintenance, decommissioning and structural integrity | Insufficient | <b>Objection</b>    |

## Reviewed Plans

The following documents have been submitted and reviewed to inform this consultation with reference to surface water drainage:

- GENERAL DRAINAGE LAYOUT 519.1.VCE.0500 REV2
- DRAINAGE LAYOUT SHEET 1 OF 2 519.1.VCE.0501 REV2
- DRAINAGE LAYOUT SHEET 2 OF 2 519.1.VCE.0502 REV2
- PRIVATE DRAINAGE CONSTRUCTION DETAILS SHEET 1 OF 2 519.1.VCE.0505 REV2
- PRIVATE DRAINAGE CONSTRUCTION DETAILS SHEET 2 OF 2 519.1.VCE.0506 REV2
- HIGHWAYS DRAINAGE LONGITUDINAL SECTIONS AND MANHOLE SCHEDULE 519.1.VCE.0511 REV1
- Construction Method Statement Rev 02
- CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP) AUGUST 2025

-CONSTRUCTION METHOD STATEMENT FOR THE SOUTHERN ALLOTMENTS DEVELOPMENT  
 -COVER LETTER  
 -DRAINAGE CALCULATIONS  
 -GEOTECHNICAL INVESTIGATION REPORT  
 -Geotechnical Design Report (rev 02)  
 -OVERALL DRAINAGE LAYOUT 519.1.VCE.0500 T3  
 -DRAINAGE LAYOUT SHEET 1 OF 2 519.1.VCE.0501 T3  
 -DRAINAGE LAYOUT SHEET 2 OF 2 519.1.VCE.0502 T3  
 -DRAINAGE CONSTRUCTION DETAILS (SHEET 1 OF 2) 519.1.VCE.0505 T2  
 -DRAINAGE CONSTRUCTION DETAILS (SHEET 2 OF 2) 519.1.VCE.0506 T3  
 -LONGITUDINAL SECTIONS AND MANHOLE SCHEDULE 519.1.VCE.0511.T2  
 -IMPERMEABLE AREAS LAYOUT 519.1.VCE.0521 T1  
 -GULLY CATCHMENT AREAS 519.1.VCE.0522 T1  
 -EXISTING EXCEEDANCE FLOW ROUTES 519.1.VCE.0531 T1  
 - PROPOSED EXCEEDANCE FLOW ROUTES 519.1.VCE.0532.T1  
 - OVERALL EXTERNAL LEVELS LAYOUT 519.1.VCE.0600.T2  
 -EXTERNAL LEVELS LAYOUT SHEET 1 OF 2 519.1.VCE.0601.T2  
 -EXTERNAL LEVELS LAYOUT SHEET 2 OF 2 519.1.VCE.0602.T2  
 -PRIVATE HIGHWAY CONSTRUCTION DETAILS 519.1.VCE.0701.T3  
 -OVERALL EXTERNAL WORKS LAYOUT 519.1.VCE.0710.T3  
 -EXTERNAL WORKS LAYOUT SHEET 1 OF 2 519.1.VCE.0711.T3  
 -EXTERNAL WORKS LAYOUT SHEET 2 OF 2 519.1.VCE.0712.T3  
 -AquaCell Core-R Product Data sheet  
 -Gully Spacing Calculations  
 -Network 1-v2 - Approval Results -100yr  
 -Network 1-v2 - Approval Results -10yr  
 -Network 1-v2 - Approval Results -30yr  
 -Network 1-v2  
 -FLOOD RISK ASSESSMENT FRA  
 -TECHNICAL NOTE  
 -DRAINAGE STRATEGY REPORT REV F

#### Condition wording

Condition 10 is worded as follows:

*"No development shall begin until a fully detailed surface water drainage scheme for that phase of the development, based on sustainable drainage principles and designed in accordance with the SUDS strategy for the whole development, has been submitted to and approved in writing by the Local Planning Authority. It should be demonstrated how each detailed scheme will contribute to delivering, and link into, the surface water drainage strategy for the site as a whole.*

*- The SUDS shall be designed to attenuate the 1 in 100 year storm event (plus climate change allowance of 30% in accordance with DEFRA's National Standards for Sustainable Drainage Systems).*

*- No infiltration of surface water drainage shall occur within ground affected by contamination unless suitable remediation is undertaken.*

*- Each detailed scheme should include a timetable for its implementation; and provide a management and maintenance plan in the form of a site specific Maintenance Manual for the SUDS system for the lifetime of*

*the development. This shall include the arrangements for adoption by any public authority or statutory undertaker or details of the financial management of the scheme throughout its lifetime.*

*Elements of the scheme serving any particular phase shall subsequently be implemented in accordance with the approved details (unless otherwise agreed with the Local Planning Authority) prior to the occupation of any dwellings in that phase and no building in that phase of the development shall be occupied until the surface water drainage scheme has been fully implemented in accordance with the approved details.*

*Reason: To ensure that the proposed development is satisfactorily drained to prevent the increased risk of flooding, and improve and protect water quality, habitat and amenity, and ensure future maintenance of these in accordance with national guidance and policies GEN7, GEN9 of the Arun District Local Plan."*

Condition 11 is worded as follows:

*"The development shall not commence until such time that arrangements for the future access to and maintenance of any watercourse or culvert (piped watercourse) crossing or abutting the site has been submitted and approved in writing by the Local Planning Authority.*

*No construction is permitted, which will restrict current and future land owners from undertaking their riparian maintenance responsibilities of any watercourse on or adjacent to the site.*

*Reason: To ensure that the proposed development is satisfactorily drained to prevent the increased risk of flooding, and improve and protect water quality, habitat and amenity, and ensure future maintenance of these in accordance with national guidance and policies GEN7, GEN9 of the Arun District Local Plan."*

Condition 12 is worded as follows:

*"The development shall not commence until formal consent has been approved in writing from the Local Planning Authority for the discharge of any flows to watercourses, or the culverting, diversion, infilling or obstruction of any watercourse on the site.*

*Reason: To ensure that the proposed development is satisfactorily drained to prevent the increased risk of flooding, and improve and protect water quality, habitat and amenity, and ensure future maintenance of these in accordance with national guidance and policies GEN7, GEN9 of the Arun District Local Plan."*

Condition 13 is worded as follows:

*"Before each phase or sub phase of the development hereby permitted is commenced details of a proposed foul drainage system shall be submitted to and approved in writing by the Local Planning Authority (including details of its siting, design and subsequent management/maintenance, if appropriate) and no dwelling in that phase of development shall be occupied until works for the disposal of sewage have been fully implemented in accordance with the approved details.*

*Reason: To ensure adequate infrastructure is provided to enable the scheme to be satisfactorily drained. The site lies on the Upper Chalk, a Principal Aquifer and requires protection against contamination from any proposed development in accordance with national guidance and Policy GEN26 of the Arun District Local Plan."*

#### Consultation comments to the planning officer

1. Please see the attached comment tracker for detailed comments relating to the submission.

#### Drainage Impact on Other Planning Matters

This application has been assessed with regards to surface water drainage design only, together with land drainage aspects if deemed necessary.

Other planning matters occasionally effect the surface water drainage design. If plans relating to other matters have been assessed for their impact on the proposed drainage, then it must not be assumed that they have been assessed for any other purpose. The planning officer is advised to check for conflicts with any existing approved plans and to consult any relevant consultees as appropriate.

It has been identified that the following consultees may have comments about the plans that have been submitted and reviewed for this application:

- ☐ Landscaping officer (proposed trees and landscaping)
- ☐ Tree officer (existing trees)
- ☐ Environment Agency (main rivers and fluvial/tidal flood risk, River Arun internal drainage board, groundwater source protection zones)
- ☐ Southern Water (foul drainage and surface water disposal to public sewer network/groundwater source protection zones)
- ☐ Portsmouth Water (groundwater source protection zones)
- ☐ Lead local flood authority (all other sources of flooding and ordinary watercourses)
- ☐ Other: Specify .....
- ☐ None

|                                                                                                         |                                                                                                                        |
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| <b>Application Reference:</b> LU/185/25/DOC<br><b>Site Name:</b> Land West of Holly Drive Littlehampton | <b>Initial Issue Date:</b> 13.01.2026<br><b>Issue Date:</b> 13.01.2026<br><b>Reviewer Reference:</b> ADC/EXT2/D2134/83 |
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**Summary and Recommendation:**

Condition 10: **Further information required**  
 Condition 11: **No objection**  
 Condition 12: **No objection**  
 Condition 13: **Objection**

*Please note: Any DOC application should only have a maximum of two consultation responses. If this is the second response for an open application and there are still comments outstanding, then please object to the application.*

|                             | ADC Drainage Comments                                                                                                                                                                                                                                                                                   | Designer Response                                                                                                                                                   | ADC Drainage Comments |  |  |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--|--|
| <b>Date:</b>                | <b>29/10/2025</b>                                                                                                                                                                                                                                                                                       | <b>26/11/2025</b>                                                                                                                                                   | <b>14/01/2026</b>     |  |  |
| <b>Condition Number: 10</b> |                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                     |                       |  |  |
| Comment Number              |                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                     |                       |  |  |
| 1                           | Firstly, there is some uncertainty we are in receipt of all relevant information from the DOC application as it appears that other historic information for other planning applications has not been provided. The applicant must ensure ALL relevant information is provided for each new application. | Please refer to the Peter Brett Associates LLP Flood Risk Assessment (Ref: 21491/002 Rev. B) and the WYG Drainage Strategy (Ref: A044029 Rev. 5, dated 10.02.2011). | Comment closed.       |  |  |

|   |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                           |  |  |
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|   | Please provide a copy of the FRA report and subsequent drainage strategy and/or design.                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                           |  |  |
| 2 | <p>Please indicate how the national standards for SuDS are going to be met and delivered within the proposed scale and layout of the site.</p> <p>Where departures from these standards may be necessary these must be highlighted and requested. A request for a departure does not mean that it will be supported or agreed.</p> | Please refer to the Peter Brett Associates LLP Flood Risk Assessment (Ref: 21491/002 Rev. B) and the WYG Drainage Strategy (Ref: A044029 Rev. 5, dated 10.02.2011).                                                                                                                                                                                               | <p>Both documents quoted out date national standards. Whilst earlier data is correct at the time of writing the technical note relative to this application shall be updated as per the previous comment.</p> <p>Comment outstanding.</p> |  |  |
| 3 | Please provide a site plan / topographic survey detailing the historic overland flow routing.                                                                                                                                                                                                                                      | Please refer to drawing 519.1.VCE.0531 for existing exceedance flow routes.                                                                                                                                                                                                                                                                                       | Comment closed.                                                                                                                                                                                                                           |  |  |
| 4 | Please provide a site plan / levels design detailing the post completion overland flow routing.                                                                                                                                                                                                                                    | <p>Please refer to drawing 519.1.VCE.0532 for proposed exceedance flow routes.</p> <p>As with the existing situation surface water will be held within the site – either diverted into the attenuation crate via the storm network or ponding at surface level. Each allotment bed will naturally trap surface water by the mounding of topsoil and planting.</p> | Comment closed.                                                                                                                                                                                                                           |  |  |

|   |                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                       |  |  |
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| 5 | Please provide calculations for QBAR and confirm that the cumulative discharge rate is representative of the developed areas that are being positively drained.                                                                                                                | <p>Please refer to the enclosed HR Wallingford Greenfield runoff rate estimation.</p> <p>The contributory areas used in the Causeway flow simulation correspond to those annotated on the impermeable areas layout drawing <b>519.1.VCE.0521</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>Wallingford outputs were not supplied (although causeway output is ok), however the area tally on drawing 519 is acknowledged with drainage to the ground base on geotechnical testing.</p> <p>Comment closed.</p> |  |  |
| 6 | Please provide a copy of your final hydrological/geotechnical assessment report inclusive of groundwater monitoring. Whilst the design makes some reference to a LEAP report, please provide suitable evidence to demonstrate the seasonal peak and freeboard to the soakaway. | <p>There have been several rounds of Site Investigation, including; Idom Merebrook in 2014 &amp; 2015, CCGI in 2016, and LEAP in 2020. Peter Brett Associates' Geotechnical Design Report 35944/3500 R002 provides a useful summary. A copy is included in this submission.</p> <p>PDF page 28 of PBA's report provides the intrusive investigation positions. Of these 11no. are within the Southern Allotments; 5no. window samples to 5m depth (MWS30 to 32, and WS308 and 310), 5no. boreholes to 40m depth (BH16, 22, 307, 308, 309), and a trial pit TP307 to 4.5m. There are further positions immediately adjacent within the Lyminster Bypass.</p> <p>Within the Southern Allotments Chalk was found between 2.7m and 5.6m below existing ground</p> | <p>Comment closed.</p>                                                                                                                                                                                                |  |  |

|                            |                                                                                                                                                                                 | <p>level. In the vicinity of the proposed soakaway the depth to chalk is circa 4.5m (<b>3.0m AOD</b>).</p> <p>Monitoring indicates a Groundwater level of 0.8m AOD, but in Section 1.4.4 PBA recommend using a level of <b>1.0m AOD</b> for design purposes.</p> <p>Hence the proposed design has a <b>2m freeboard</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                   |                         |  |  |                            |                                                         |                                                                                   |          |     |   |    |                   |     |   |    |           |     |   |    |                 |  |  |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------|--|--|----------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|----------|-----|---|----|-------------------|-----|---|----|-----------|-----|---|----|-----------------|--|--|
| 7                          | Further to the above please provide evidence of compliant BRE365 infiltration testing.                                                                                          | <p>Section 4.7 of CCGE report <i>GE15530/GIR/EN/JUL16</i> provides a summary of 12no. BRE 365 tests at 3m depth. The results were; <b>1.1 x 10-5</b> to 9.1 x 10-6.</p> <p>All tests founded in River Terrace Deposits within the main site, whereas we will discharge directly into Chalk. Hence, the results represent a worst case. For this reason we have selected the higher rate for design purposes.</p>                                                                                                                                                                                                                                                                                                                                                    | Comment closed.                                                                   |                         |  |  |                            |                                                         |                                                                                   |          |     |   |    |                   |     |   |    |           |     |   |    |                 |  |  |
| 8                          | Please qualify drainage design methodology i.e. BRE365/CIRIA and application of safety factors to inform the design rates. Current value of 2 does not align with any guidance. | <p>The positively drained area for the development is <b>825m²</b>. The safety factor has been amended to <b>3</b> in line with Table 4.6 of the CIRA R156.</p> <p>Table 4.6 Factor of safety, <i>F</i>, for use in hydraulic design</p> <table><tr><th rowspan="2">Size of area to be drained</th><th colspan="3">Consequences of failure</th></tr><tr><th>No damage or inconvenience</th><th>Minor inconvenience, e.g., surface water on car parking</th><th>Damage to buildings or structures or major inconvenience, e.g., flooding of roads</th></tr><tr><td>&lt; 100 m²</td><td>1.5</td><td>2</td><td>10</td></tr><tr><td>100 m² to 1000 m²</td><td>1.5</td><td>3</td><td>10</td></tr><tr><td>&gt; 1000 m²</td><td>1.5</td><td>5</td><td>10</td></tr></table> | Size of area to be drained                                                        | Consequences of failure |  |  | No damage or inconvenience | Minor inconvenience, e.g., surface water on car parking | Damage to buildings or structures or major inconvenience, e.g., flooding of roads | < 100 m² | 1.5 | 2 | 10 | 100 m² to 1000 m² | 1.5 | 3 | 10 | > 1000 m² | 1.5 | 5 | 10 | Comment closed. |  |  |
| Size of area to be drained | Consequences of failure                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                   |                         |  |  |                            |                                                         |                                                                                   |          |     |   |    |                   |     |   |    |           |     |   |    |                 |  |  |
|                            | No damage or inconvenience                                                                                                                                                      | Minor inconvenience, e.g., surface water on car parking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Damage to buildings or structures or major inconvenience, e.g., flooding of roads |                         |  |  |                            |                                                         |                                                                                   |          |     |   |    |                   |     |   |    |           |     |   |    |                 |  |  |
| < 100 m²                   | 1.5                                                                                                                                                                             | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10                                                                                |                         |  |  |                            |                                                         |                                                                                   |          |     |   |    |                   |     |   |    |           |     |   |    |                 |  |  |
| 100 m² to 1000 m²          | 1.5                                                                                                                                                                             | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10                                                                                |                         |  |  |                            |                                                         |                                                                                   |          |     |   |    |                   |     |   |    |           |     |   |    |                 |  |  |
| > 1000 m²                  | 1.5                                                                                                                                                                             | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10                                                                                |                         |  |  |                            |                                                         |                                                                                   |          |     |   |    |                   |     |   |    |           |     |   |    |                 |  |  |
| 9                          | The 1D model must include a supporting plan to denote                                                                                                                           | Please refer to drawing: <b>519.1.VCE.0500 - 0502</b> for node and link labels.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Comment closed.                                                                   |                         |  |  |                            |                                                         |                                                                                   |          |     |   |    |                   |     |   |    |           |     |   |    |                 |  |  |

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|    | all nodes/links or cascade approach.                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                    |                                                                                                                                                                                                                              |  |  |
| 10 | The 1D model must use a CV=1 for both summer and winter events.                                                                                                                                                                                                                                                                                 | The summer and winter CV values have been set at <b>0.75</b> and <b>0.84</b> , respectively, in accordance with the approved WYG Drainage Strategy (Ref: A044029 Rev.5, dated 10.02.2011), as shown in Appendix E. | Not accepted, please refer to WSCC/ADC requirements. Please note earlier reports and criteria therein are not approved, therefore the 1D modelling must comply with current criteria where CV=1.<br><br>Comment outstanding. |  |  |
| 11 | Drain down time is set to 240min and must be corrected.<br><br>Please summarise the half drain down time to 50% for each storage feature for 24hr period.<br><br>This shall be illustrated for 10yr, 30yr, 100yr.<br><br>Please note that current standards minimum compliance is required for at least the 30 yr + CC (40%) storm. However, as | For the half drain time of the soakaway, please refer to <b>Network1-v2 – Approval Results</b> for the 10-year, 30-year, and 100-year storm events.                                                                | The results are accepted, however must be updated for comment 10.<br><br>Comment outstanding.                                                                                                                                |  |  |

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|    | the scale and layout of the site was agreed prior to this guidance being published we will honour the previous minimum requirement of half drain of the 10yr+CC (45%) storm within 24 hours if necessary. |                                                                                                                                                                                                                                                                           |                 |  |  |
| 12 | Cellular storage criteria does not match drainage plan and details sheet 2 size. This must also correlate with the supplier product being specified.                                                      | The cellular storage detail shown on drawing <b>519.1.VCE.0506</b> and the domestic drainage layout on drawing <b>519.1.VCE.0501</b> are consistent with the accompanying drainage calculations. The specified size accords with the manufacturer's data sheets provided. | Comment closed. |  |  |
| 13 | Construction details sheet 1 shows a type B manhole which is not used, please remove any details not relevant to the scheme.                                                                              | Catchpit Manhole <b>S1</b> has been specified as a <b>Type B</b> manhole with a <b>500mm</b> deep sump.                                                                                                                                                                   | Comment closed. |  |  |
| 14 | Please include a standard detail for the PCC ring catchpit and qualify the base sump depth.                                                                                                               | Please refer to drawing: <b>519.1.VCE.0505</b> for details of the <b>Type B</b> manhole with a <b>500mm</b> deep sump.                                                                                                                                                    | Comment closed. |  |  |
| 15 | Drawing 511 illustrates the longitudinal sections, however the S1 section does not show the sump or connection to the soakaway.                                                                           | Please refer to drawing <b>519.1.VCE.0511 T2</b> . Sump added to longitudinal section and soakaway connection annotated.                                                                                                                                                  | Comment closed. |  |  |

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| 16 | Please review if one catchpit is sufficient and qualify CIRIA treatment compliance.<br>What measures will be taken to intercept oils, hydrocarbons etc.                            | Please refer to <b>VCE-007-1004-R-001</b> – Technical Note regarding the assessment of surface water runoff quality.                                                                                                                                                                                                              | Comment closed. |  |  |
| 17 | Please provide a supporting drawing to demonstrate the elevation design, low points, crossfall and exceedance flows.                                                               | Please refer to item 4.                                                                                                                                                                                                                                                                                                           | Comment closed. |  |  |
| 18 | Please provide a supporting drawing to identify the catchment area cited in the calculations and relevant gully design/spacing.                                                    | Please refer to drawing <b>519.1.VCE.0521</b> for the impermeable areas layout, drawing <b>519.1.VCE.0522</b> for the gully catchment areas layout, and Gully Spacing Calculations.pdf.                                                                                                                                           | Comment closed. |  |  |
| 19 | Construction details sheet 1 shows yard gullies with B125 grade covers which may not be suitable at this location.                                                                 | Please refer to drawing <b>519.1.VCE.0506 T3</b> , where the gully cover grade has been updated to <b>D400</b> to match the specification on the domestic drainage layouts.                                                                                                                                                       | Comment closed. |  |  |
| 20 | Construction details sheet 1 describes the cellular soakaway as a trench which is not accurate.<br><br>The backfill material is not accurate and may be insufficient for vehicular | Please refer to drawing <b>519.1.VCE.0506 T3</b> . The reference to “Trench” has been removed and backfill material options have been added. A note has also been included stating: <i>“Soakaway base to be located within the chalk layer and design is based on an infiltration rate of <math>1 \times 10^{-5}</math> m/s.”</i> | Comment closed. |  |  |

|                             |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                   |                                                                                                                                                                        |  |  |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|                             | loading. Please update and where necessary provide further plan drawings to verify surface finishes (pavements & landscaped areas).<br><br>The plan advises the soakaway base must penetrate certain layers however this is not qualified on this detail. |                                                                                                                                                                                                                   |                                                                                                                                                                        |  |  |
| 21                          | Additional surface collection features may be necessary to mitigate the risk of runoff entering the Public Highway and visa vera.                                                                                                                         | Please refer to drawing <b>519.1.VCE.0500 T3</b> . A linear drainage channel with a <b>D400</b> grate has been added at the limit of adoption to prevent private runoff from discharging onto the public highway. | This detail will need to be agreed via WSCC highways where a bespoke detail may be require to ensure the EF edging surround is not compromised.<br><br>Comment closed. |  |  |
| <b>Condition Number: 11</b> |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                   |                                                                                                                                                                        |  |  |
| Comment Number              |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                   |                                                                                                                                                                        |  |  |
| 1.                          | No comments/not applicable.                                                                                                                                                                                                                               |                                                                                                                                                                                                                   |                                                                                                                                                                        |  |  |
|                             |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                   |                                                                                                                                                                        |  |  |
|                             |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                   |                                                                                                                                                                        |  |  |
| <b>Condition Number: 12</b> |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                   |                                                                                                                                                                        |  |  |
| Comment Number              |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                   |                                                                                                                                                                        |  |  |
| 1.                          | No comments/not applicable.                                                                                                                                                                                                                               |                                                                                                                                                                                                                   |                                                                                                                                                                        |  |  |

| Condition Number: 13 |                                 |  |  |  |
|----------------------|---------------------------------|--|--|--|
| Comment Number       |                                 |  |  |  |
| 1.                   | No maintenance report supplied. |  |  |  |

If a designer would like a .docx version of this document to aid administration of responses, please request this by email to [land.drainage@arun.gov.uk](mailto:land.drainage@arun.gov.uk).

PL- Consultation- Engineers response

Arun District Council, Civic Centre, Maltravers Rd  
Littlehampton, West Sussex, BN17 5LF  
[www.arun.gov.uk](http://www.arun.gov.uk)

To register to receive notification of planning applications in your area please go to  
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**Our priorities...**

|                                                                                                                               |                                                                                                                                              |                                                                                                                                        |                                                                                                                                    |                                                                                                                     |                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Improving the wellbeing of Arun</b> | <br><b>Delivering the right homes in the right places</b> | <br><b>Supporting our environment to support us</b> | <br><b>Fulfilling Arun's economic potential</b> | <br><b>Our core foundations</b> | <br> |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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**From:** Paul Cann <Paul.Cann@arun.gov.uk>

**Sent:** 14 January 2026 09:45

**To:** Planning.Responses <Planning.Responses@arun.gov.uk>

**Cc:** Land Drainage <Land.Drainage@arun.gov.uk>; Silvie Steiningerova <Silvie.Steiningerova@arun.gov.uk>

**Subject:** RE: Planning Re-Consultation on: LU/185/25/DOC

Please find enclosed our consultants response.

Regards

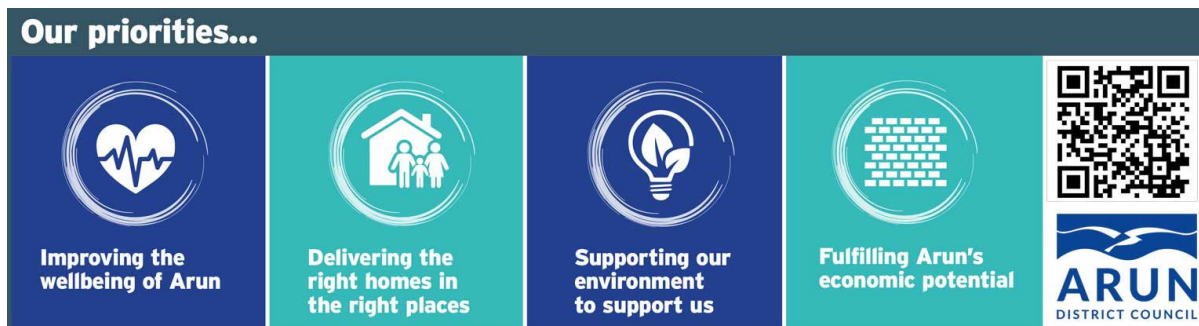
**Paul Cann**

**Principal Drainage Engineer**, Coastal Engineers and Flood Prevention

**T:** 01903 737819

E: [paul.cann@arun.gov.uk](mailto:paul.cann@arun.gov.uk)

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**From:** Planning.Responses <[Planning.Responses@arun.gov.uk](mailto:Planning.Responses@arun.gov.uk)>  
**Sent:** 26 November 2025 11:48  
**To:** Land Drainage <[Land.Drainage@arun.gov.uk](mailto:Land.Drainage@arun.gov.uk)>  
**Subject:** Planning Re-Consultation on: LU/185/25/DOC

To: **Engineers (Drainage)**

## NOTIFICATION FROM ARUN DISTRICT COUNCIL

### TOWN AND COUNTRY PLANNING ACT 1990

**Application No:** LU/185/25/DOC  
**Registered:** 4th September 2025  
**Site Address:** Land West of Holly Drive Littlehampton  
**Grid Reference:** 503134 103701  
**Category:** Discharge of Condi  
**Description of Works:** Approval of details reserved by condition imposed under LU/47/11/ relating to condition 10-surface water drainage, 11-watercourses and culverts maintenance, 12-flows to watercourses and 13-foul drainage (see LU/184/25/DOC for approval of details reserved by condition imposed under LU/47/11/ relating to conditions 21-Ecological Management Plan, 22-Construction Method Statement, 23-details of construction compound and 26-Roads Construction Programme).

I am able to inform you that I have received an amendment to the above application dated 20th November 2025 relating to: Additional drainage plans

If you should wish to make further representations as a result of this amendment, please make any further comment by **10th December 2025**.

[Click here to view the application, documents and make further comments](#)

**Please be aware that any comments you may make will be available on our website so please do not insert personal details or signatures on your reply.**

Yours sincerely

Silvie Steiningerova

Planning Case Officer-Arun District Council

Telephone: 01903 737702

Email: [silvie.steiningerova@arun.gov.uk](mailto:silvie.steiningerova@arun.gov.uk)

PLRECON\_DOC (ODB) 2020