



TO BE READ IN CONJUNCTION
WITH FORD AIRFIELD FRA
AND DRAINAGE STRATEGY REPORT
BY JNP GROUP, REF C85228 / R001 E
DATED 14.02.20



Surface Water Drainage Proposal Checklist

Foreword

Before completing this checklist you are advised to read "Arun/Chichester District Council Supplementary Requirements for Surface Water Drainage Proposals".

The Surface Water Drainage Proposals Checklist is designed to clearly outline Arun/Chichester District Council's expectations and requirements for Surface Water Drainage Proposals and to expedite their review. This document should be used when completing Discharge of Conditions Applications or if the applicant wishes to avoid pre-commencement conditions relating to surface water drainage.

The Town and Country Planning Regulations now require pre-commencement conditions to have the prior agreement of the applicant regarding their wording and use. If an applicant wishes to avoid surface water drainage pre-commencement conditions they will need to submit detailed surface water drainage proposals in line with the Surface Water Drainage Proposal Checklist.

The below details are required to enable Arun/Chichester District Council to examine if proposals follow the hierarchy for sustainable drainage and if the design will adequately drain the site.

N.B. It will be difficult for Arun/Chichester District Council to undertake an appropriate and therefore timely assessment of your application if you answer "no" to any of the questions below, or if you fail to provide any of the information requested.

Checklist

Winter groundwater monitoring results included	Y/M YES - FRA APPENDIX E.
Winter infiltration test results included	Y/N AUG 2018 TESTS SHOW INFILTRATION ALONE IS NOT SUITABLE.
Period of winter groundwater monitoring	AUG 2018 TO JAN 2020
Maximum recorded groundwater level (AOD)	19-12-19 BH1 4.350m AOD
Date of infiltration testing	14/08/18 TO 17/08/18
Depth of infiltration testing	2.10m TO 2.80m BEGL
Minimum infiltration rate recorded (At location of infiltrating structure)	AT LOCATION SS = 4.76 x 10 ⁻⁶ m/s MOST TESTS FAILED TO ACHIEVE INFILTRATION.
Plan showing the location of winter groundwater monitoring and infiltration testing included	Y/N YES - FRA APPENDIX D & E.
Method of surface water disposal proposed (Delete as appropriate)	Infiltration / Attenuation with discharge to watercourse / Attenuation with discharge to surface water sewer / Attenuation with discharge to foul sewer
If infiltration is <u>not</u> to be used: Justification supplied	Y/M YES - FRA SECTION 10 & 11
If infiltration is proposed: half drain time for 10 year event + climate change allowance (hours)	NA.



AS INFILTRATION WAS ONLY
FEASIBLE IN PART OF THE
SITE AND INFILTRATION RATES
WERE SLOW IT IS CONSIDERED
THAT INFILTRATION COMPONENTS WHICH
ACHIEVE HALF DRAIN DOWN IN A REASONABLE



If infiltration is proposed: half drain time for 100 year event+ climate change allowance (hours)	TIMESCALE FOR 100 YR + CC EVENT CANNOT BE PROVIDED. IT IS PROPOSED TO CARRY OUT SHALLOW INFILTRATION TESTING AND WHERE POSSIBLE PROVIDE PERMEABLE PAVING WITH OVER FLOWS TO THE POSITIVE DRAINAGE SYSTEM		
If infiltration is proposed: lowest base level of infiltrating structure			
If attenuation is proposed: calculations of pre-development runoff rates included *	Y/N YES	Rate 38.4 l/s - RIVER ARUN 2.90 l/s - RYE BANK RIFE	
If attenuation is proposed: is proposed discharge rate less than or equal to pre-development rate?*	Y/N YES	Rate 38.4 l/s * - RIVER ARUN 4.0 l/s - RYE BANK RIFE	
Calculations included demonstrating that the 1 in 100 year plus climate change event can be accommodated on site**	Y/N YES - APPENDIX J FRA.		* = 2 NO. 2 L/S OUTFALLS.
If proposing an impermeable lined attenuation feature/s, calculations included demonstrating that resistance to floatation (due to groundwater levels) is achieved and catered for in the design	Y/N/Not applicable	BASE OF ATTENUATION BASINS ARE ABOVE WORST CASE MONITORED GWL (WINTER)	
If alterations or discharge to an ordinary watercourse is proposed: has Ordinary Watercourse Land Drainage Consent been sought?	Y/N NO.	OUTLINE PLANNING.	
Drainage layout plans included***	Y/N YES - FRA APPENDIX I		
Construction detail plans included****	Y/N OUTLINE PLANNING		
Exceedance flow route plans included (Not required for <5 properties)	Y/N/Not applicable YES - FRA APPENDIX K.		

*If developing brownfield sites, please provide fully detailed plans of the existing surface water drainage arrangements on site, including impermeable areas, gullies, outfalls, pipes & diameters, manholes, etc.

**If infiltration is proposed the following factor of safety should be applied to calculations (in accordance with CIRIA R156/ CIRIA C609)

Size of Area to be Drained	Consequences of failure					
	No damage or inconvenience		Minor inconvenience, e.g. surface water on car park		Damage to buildings or structures or roads.	
	Cv=1.0	Cv=0.75	Cv=1.0	Cv=0.75	Cv=1.0	Cv=0.75
<100 m ²	1.5	2	2	3	10	13
100m ² to 1000m ²	1.5	2	3	4	10	13
>1000m ²	1.5	2	5	6.5	10	13