



SURFACE WATER DISPOSAL HIERARCHY CHECK LIST

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Project: **Jackets Lane – 10 and 12 combined site**

Job No. **4198**

Date: **Mar 18**

Ref	Hierarchy list	Operation	Justification
1.	Store rainwater for later use	Green roofs, water butts, and surface water harvesting	The planning requirements state no flat roofs and tiles to match existing vernacular thus green roofs not possible. Water butts have been used where possible. Harvesting is financially not viable for these houses.
2.	Use infiltration techniques, such as porous surfaces in non-clay areas	Soakaway and porous hard landscapes	The soil report confirms soft clay for 20m and states soakaways would not be effective for these sites. It is proposed to use only a geomembrane so some soakage can happen but it will be ignored for the design of the system.
3.	Attenuate rainwater in ponds or open water features for gradual release;	Gradual release by soakage, stream/river	As soakage is not possible and clay over 20m thick attenuation for gradual release to natural sources not possible. No natural features adjacent to site for over flow. Any open water features to collect water would need to be in public domain for maintenance and there is insufficient area to do this.
4.	Attenuate rainwater by storing in tanks or sealed water features for gradual release;	Gradual release to other source	Attenuation for gradual release is possible but release to natural source is not.
5.	Discharge rainwater direct to a watercourse;	Find water course	No natural water course found adjacent to site.
6.	Discharge rainwater to a surface water sewer/drain;	Connect to existing surface water system.	There is existing surface water drainage in the main cul-de-sac, Hurst Place. Invert levels for this is however higher than the land for the buildings and hardstanding thus pumps will be necessary. Surface water to be collected through porous surfaces to improve quality of water leaving site. Use standard 5 litre per second per hectare discharge rate normally accepted by water authority.
7.	Discharge rainwater to the combined sewer	N/A	
8.	Discharge rainwater to the foul sewer.	N/A	