industrial and residential estates into which the surface profile gently descends. The standard of protection provided by the bank is considered equal to that of a hard defence and given its profile, is not disposed to potential breach.

4.05 Minimum crest elevations along the aforementioned length of bank are 5.20m ODN thereby affording 0.48m of freeboard above the 4.72m ODN peak flow level in the river channel as modelled for the Strategic Assessment. This is clearly well in excess of the precautionary derived 0.10m standard as considered necessary in the Strategic Assessment to secure the defence to the 1.0% criterion. Overtopping is therefore, not plausible.

Vernatts Drain and Sluice

4.06 Run-off from a considerable area of the Welland & Deepings IDB district is pumped into the Vernatts Drain at Pode Hole and during periods of "tide-lock" at its gravity outfall, the channel acts as a holding reservoir for this inflow. Its capacity is however, limited, and the Board advises that levels are closely monitored, and pumping controlled, to ensure the designed peak flow level of 3.88m ODN is not exceeded. The embankment crest of 4.30m ODN provides a typical freeboard against overtopping of 0.42m, which is marginally greater than the precautionary derived 0.40m minimum referred to in the Strategic Assessment.



Vernatts Drain – Right-hand Embankment