

Vernatts Drain and Sluice

- 4.7 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 nevertheless, not unlimited 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 right-hand embankment crest of 4.30m ODN provides a typical freeboard of 0.42m, which is marginally greater than the precautionary derived 0.40m minimum referred to in the Strategic Assessment. The well-maintained defence that has a 3.00m wide crest appears adequately proportioned and there is again no obvious reason to suspect that it is likely to succumb to breach.



**Vernatts Drain
Right-hand Embankment adjacent to
Sorrel Drive off Wygate Park**

- 4.8 The Vernatts Outfall Sluice, constructed circa 1873, incorporates three sets of pointing tidal doors that automatically facilitate the discharge of fluvial flows to the River Welland as permitted by relative water levels during the tidal cycle. For