

Appendix C Hydraulic Models

Table C1: Existing studies within Wyre Forest District

| Watercourse | Reach covered | Data source | Type of data | Comments |
|-------------------------------|--|--|--|--|
| River Severn | Full coverage of the Severn through the District. Tributaries have not been modelled. | Supplied by the Environment Agency | <ul style="list-style-type: none"> • ISIS model | Flow and water levels for the 1 in 5, 10, 25, 50, 100 and 150 years. Model not supplied |
| River Stour (1993 ONDA Model) | Beyond limit of District (Wolverhampton) to approximate location of current FAS embankment | Supplied by the Environment Agency | <ul style="list-style-type: none"> • ONDA model • No digital data, locations of cross sections and maximum water levels in paper format. | Model constructed in 1993. Therefore old survey, pre-FAS and outdated hydrological method. Water levels for the 1 in 5, 10, 25, 50 and 100 years. |
| River Stour (Kidderminster) | Through Kidderminster to Stourport. | Supplied by the Environment Agency | <ul style="list-style-type: none"> • ISIS model | Flood levels are provided with and without FAS. Water levels for the 1 in 5, 10, 25, 50, 100 and 150 years. |
| River Stour (Stourport) | From the River Severn confluence through Stourport to Wilden Marshes. | Supplied by the Wyre Forest District Council | <ul style="list-style-type: none"> • ISIS model | Flood levels are provided for the following joint probability scenarios: <ul style="list-style-type: none"> • 1 in 50 year flows on the Stour and 100 year level on the Severn • 1 in 100 year flows on the Stour and 50 year level on the Severn • 1 in 100 year flows on the Stour and 100 year level on the Severn |