

Appendix 5- SS3: Necessary Infrastructure for Strategic Sites

Abbreviations used in the table.

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|------------------------------------|---|---|--|---|--|
| HC - Herefordshire Council | IDP - Infrastructure Delivery Plan | CPO – Compulsory Purchase Order | EA – Environment Agency | NE – Natural England | DCWW – Dwr Cymru-Welsh Water |
| AMP – Asset Management Plan | NMP – Nutrient Management Plan | SAC – Special Area of Conservation | SUDS – Sustainable Urban Drainage | WwTW – Waste water treatment works | H&G Canal – Hereford and Gloucester Canal |

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| 1. | Hereford | Circa 3250 Note: In no order of preference this number includes those provided within Hereford Area Plan Hereford, | Hereford Relief Road | Southern Link and river crossing anticipated to be required by 2022. | HC | Check that CPO for the southern section is confirmed by 2016/7. Monitor construction of road. Monitoring of housing completions through | If there is no reasonable prospect of securing a CPO by the end of 2017 initially the timetable will be reviewed, therefore a plan review will be required to consider alternative delivery |

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| | | the 4 SUE's and background growth. | | | | AMR process. | arrangements. |
| 2. | Hereford | Circa 4800 Note: In no order of preference this number includes those provided within Hereford Area Plan Hereford, the 4 SUE's and background growth. | Hereford Relief Road | Relief road interconnecting with A49 north and south by 2027. | HC | Check that CPO for river crossing is confirmed by 2019/20. Monitor construction of the road. Monitoring of housing completions through AMR process. | If there is no reasonable prospect of securing timely end to end connection with the A49, initially the timetable will be reviewed, therefore a plan review will be required to consider alternative delivery arrangements. |

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| 3. | Hereford | Circa 2400 | Nutrient Management Plan (NMP) | 2020 | DCWW EA NE HC | Ongoing monitoring by the NMP Board. Monitoring of housing completions through AMR process. | The two Hereford Treatment Works have capacity to accept the growth within their current discharge licenses, and will in any event be subject to regular ongoing improvement through AMP's. Other actions to tackle diffuse pollution set out in the NMP are also likely to reduce phosphates. |
| 4. | Hereford | Circa 4550 Note: In no order of preference this number includes those | Upgraded capacity at 2x Wastewater Treatment Works (WwTW) | 2025 | DCWW (AMP regulatory investment) Requisition process can | Ongoing engagement with DCWW in the preparation of AMP's. Monitoring of housing completions through | Two (WwTW) serving Hereford Foul flows from the proposed growth can be accommodated, but further capacity will be |

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| | | provided within Hereford Area Plan Hereford, the 4 SUE's and background growth. | | | provide earlier delivery at developers cost. | AMR process. | needed in the later part of the CS period. Improvements would be subject to DCWW regulatory investment, but it may also be viable for developers to bring forward early upgrades prior to regulatory investment. Upgrading will be scheduled in AMP8 that covers the period (2025-30). |
| 5. | Hereford | Circa 4550 Note: In no order of preference this number includes those provided within | Water supply Upsizing (2x) trunk water mains | 2025 | DCWW (AMP regulatory investment) Requisition process if required | Ongoing engagement with DCWW in the preparation of AMP's. Monitoring of housing completions through AMR process. | Upgrading will be scheduled in AMP8 that covers the period (2025-30). |

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| | | Hereford Area Plan Hereford, the 4 SUE's and background growth. | | | earlier. | | |
| 6. | HD2 Hereford City Centre (urban village) | 0 | Link Road (Merton Meadow section) | 2016 | HC | Monitor construction of the road. Explore the earliest opportunity for concurrent activity road/ housing delivery. | Extant outline planning permission for circa 190 houses, on Merton Meadow. Once the link road is completed the Urban Village has capacity for 320 houses as a proportional share before cumulative impact dealt with in Serial 1 & 3 comes into effect in 2022. |
| | | | See Serial 1 & 3 | 2022 | HC | See Serial 1 & 3 | |

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| 7. | HD4 – Northern Urban Expansion (Holmer West) | Circa 300 As a proportional share before cumulative impact dealt with in Serial 1 and comes into effect in 2022. | See Serial 1 & 3 | 2022 | HC DCWW | See Serial 1 & 3 | Save for the issues identified there is no other anticipated significant external impediment to the timely provision of the required infrastructure by the developer, therefore the delivery of housing will be subject only to the completion rate of the development. |
| 8. | HD5 – Western Urban Expansion (Three Elms) | Circa 580 As a proportional share before cumulative impact dealt with in Serial 1 and 3 comes into effect | Hereford Relief Road | 2022 | HC | AMR monitoring of housing completions. | Save for the issues identified there is no anticipated significant external impediment to the timely provision of the required infrastructure by the developer; therefore the delivery of housing |

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| | | in 2022. | | | | | will be subject only to the completion rate of the development. |
| 9. | HD6 – Southern Urban Expansion (Lower Bullingham) | Circa 540 As a proportional share before cumulative impact dealt with in Serial 1 and 3 comes into effect in 2022. | See Serial 1 & 3 | 2022 | HC DCWW | See Serial 1 & 3 | |
| 10. | Bromyard | Circa 320 | Existing water supply network would require upsizing to accommodate full growth target. | 2025 | DCWW | Ongoing engagement with DCWW in the preparation of AMP's. Monitoring of housing completions through AMR process. | Water supply upgrading will be scheduled in AMP7 or 8 that covers the period (2020-30) dependant on the actual levels of growth experienced. Nutrient Management Plan – Assessment |

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| | | | | | | | <p>indicates that the growth can potentially be accepted. However, the resulting WwTW flow could be within 10% of its permit.</p> <p>Save for the issues identified there is no other anticipated significant external impediment to the timely provision of the required infrastructure by the developers; therefore the delivery of housing will be subject only to the completion rate of the developments.</p> |

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| 11. | BY2 – Hardwick Bank | Circa 250 | N/A There is no anticipated significant external impediment to the timely provision of the required infrastructure by the developer, therefore the delivery of housing will be subject only to the completion rate of the development. | N/A | Developer | AMR monitoring of housing completions. | The delivery of this strategic site will not be held back by the issues in Serial 10 as the cumulative impact on water supply occurs towards the end of the plan period by which time mitigation through the AMP will be in place. |
| 12. | Kington | Circa 50 | There is not enough capacity at the Kington WwTW to accommodate the level of overall | 2020 | DCWW | On adoption of the CS DCWW can make provision for upgrading the WwTW in AMP7/8 which will create capacity for the | Nutrient Management Plan – Assessment indicates that notwithstanding the lack of capacity in the WwTW the growth can |

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| | | | growth (200 units). | | | planned growth. | <p>be accepted within current discharge licence.</p> <p>Save for the issues identified there is no other anticipated significant external impediment to the timely provision of the required infrastructure by the developers, therefore the delivery of housing will be subject only to the completion rate of the developments.</p> |
| 13. | Ledbury | Circa 800 | <p>N/A</p> <p>There is no anticipated significant external</p> | N/A | Developer | AMR monitoring of housing completions. | |

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| | | | impediment to the timely provision of the required infrastructure by the individual developers, therefore the delivery of housing will be subject only to the completion rate of the development. | | | | |
| 14. | LB2 – Land north of the Viaduct | Circa 625 | N/A There is no anticipated significant external impediment to the timely provision of the required infrastructure by the developer, | N/A | Developer | AMR monitoring of housing completions. | |

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| 15. | Leominster | Circa 500 | Nutrient Management Plan | 2025 Note: Nutrient Management Plan suggests phosphate removal schemes could be deployed in AMP7 from 2020. | DCWW EA/NE HC | Ongoing monitoring by the NMP Board. Monitoring of housing completions through AMR process. | EA/NE confirms no significant implications in the first five years (2014-19) based on indicative trajectory. Phosphate modelling suggests that a limit of 0.1mg/l could be required to achieve good status (new phosphate target). Other NMP Actions may also at reduce phosphate levels. Water supply upgrading |

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| | | | Existing water supply network would require upsizing to accommodate full growth target. | 2025 | DCWW | Ongoing engagement with DCWW in the preparation of AMP's. | <p>will be scheduled in AMP7 or 8 that covers the period (2020-30) dependant on the actual levels of growth experienced.</p> <p>Save for the issues identified there is no other anticipated significant external impediment to the timely provision of the required infrastructure by the developers, therefore the delivery of housing will be subject only to the completion rate of the developments.</p> |

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| 16. | LO2 – Leominster urban extension | Subject to ongoing discussions about funding mechanism. | Southern link road | Developer will bring forward the road concurrent with housing development with the full link provided by 2025. | Developer | Continuing work with developers/landowners. AMR monitoring of housing completions. | Continue to explore funding opportunities with LEP, HCA and HC, as accelerated provision of the road infrastructure would be beneficial to rate of housing delivery and addressing issue of congestion and air quality on A44. |
| 17. | Ross-on-Wye | Circa 900 | N/A There is no anticipated significant external impediment to the timely provision of the required infrastructure by the individual developers, | N/A | Developers | AMR monitoring of housing completions. | Although within the Wye SAC catchment growth at Ross-on-Wye will not impact upon the Conservation Objectives of the SAC. Growth can be potentially accommodated within current flow limit but could be within 10% of |

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| | | | therefore the delivery of housing will be subject only to the completion rate of the development. | | | | permit limit. |
| 18. | RW2 – Land at Hildersley | Circa 200 | N/A There is no anticipated significant external impediment to the timely provision of the required infrastructure by the developer, therefore the delivery of housing will be subject only to the completion rate of | N/A | Developer | AMR monitoring of housing completions. | |

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| | | | the development. | | | | |
| 19. | Rural Areas | <p>Circa 5300</p> <p>Given limited number of works with capacity issues the targets over the period 2014-19 can be achieved.</p> | <p>Water quality</p> <p>Sixteen of the rural treatment works are likely to be able to accommodate growth target within existing licenses. Monitoring is likely to be required to ensure this position is confirmed.</p> <p>Four of the works do not have any surplus capacity to accept growth without prior</p> | <p>DCWW are committed to undertaking trials in AMP6 to test a range of possible options in order to determine the most appropriate option for removing phosphate and achieve the required target. Most likely timescale for intervention 2020-2025 (AMP7).</p> | <p>DCWW</p> <p>EA/NE</p> <p>HC</p> | <p>Ongoing monitoring by the NMP Board.</p> <p>On adoption of the CS DCWW can make provision for upgrading the WwTW in AMP7/8 which will create capacity for the planned growth.</p> <p>AMR monitoring of housing completions.</p> | |

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| | | | <p>investment.</p> <p>NMP actions will also aim to reduce phosphates in diffuse sources of pollution.</p> | | | | |
| | | | <p>Waste water requirements</p> <p>A number of the smaller WwTW require improvements in order to accommodate the growth proposed.</p> | <p>Improvement required in specific areas in forthcoming AMP periods. To ensure full delivery they should be secured in AMP 7/8 (by 2025).</p> | DCWW | <p>AMR monitoring of housing completions.</p> <p>On adoption of the CS DCWW can make provision for upgrading the WwTW in AMP7/8 which will create capacity for the planned growth.</p> | |