

Appendix C - Leeds Local Flood Risk Management Strategy - List of Measures (Updated October 2020)

| ID | Priority/ Current Phase | Scheduled phase Completion Date | Measure | Whole Scheme Estimated Cost | Location (if applicable) | Progress/Comments (reference other sources of information) |
|--|---|---------------------------------|--|-----------------------------|---|--|
| SCHEMES & FEASIBILITY STUDIES | | | | | | |
| S37 | HIGH - Construction | 2023 | Leeds Flood Alleviation Scheme Phase 2, River Aire City Centre to Upper Catchment | £125.8m | River Aire - City Centre to Upper Catchment | Phase 2 of the Leeds FAS, looking at solutions across the whole catchment upstream of Leeds that will reduce flood risk to the city along the river Aire. Modelling and feasibility work largely complete, Outline Business Case submitted to the EA and Treasury Jan 2018. Moving in to more detailed design in 2018 with construction starting late 2018 early 2019, advanced works have taken place on some 'quick win' items and works at Stourton about to start as is a programme of advanced maintenance and stewardship. |
| S16 | HIGH - Construction completed | 2023 | Farnley Wood Beck Flood Alleviation Scheme | £1.017m | Cottingley | Flood risk to residential areas, developer contribution secured of 300k. Scheme progressed in 2022 to remove culvert and increase capacity, protecting 15 properties. Completed February 2023 |
| S29 | HIGH - Construction completed | 2022/23 | Queen Street Culvert | 44k | Allerton Bywater | In extreme storm a culvert overtops and spills out across the public right of way next to St Aidens Nature Reserve. Section 106 Agreement monies utilised. Growbags instead of a concrete headwall which will green up and naturalise over time and reduced the cost and the carbon footprint of the scheme. Some tree planting in March 2023 completed the scheme. |
| S18 | HIGH - Design/ Construction | 2023/24 | Sheepscar Beck Asset Remediation Work | £1m | Sheepscar | Scheme is to carry out repair works to assets along Sheepscar Beck through the city centre and provide protection of business. Scoping and design of required refurbishment underway with tender and onsite in 2023. |
| S10 | HIGH - Design/ Construction | 2023/24 | Thorner Beck Flood Alleviation Scheme and Natural Flood Management | £1.220m | Thorner | Flood risk from Thorner Beck. Funding secured for a study to develop flood storage upstream of the village |
| S17 | HIGH - Optioneering | 2023 | Wortley Beck Flood Alleviation Scheme | £9m | Wortley Beck | Flooding to residential area and outer ring road. Work in partnership with the EA to develop a detailed flood alleviation scheme that integrates with all sources of flooding. Business case expected late 2022 |
| S22 | HIGH - Optioneering | 2023 | Meanwood Beck Flood Alleviation Scheme | £4.465m | Meanwood Beck | Flood risk from Meanwood Beck to residential properties and businesses. Local levy funding secured to carry out investigation into options for a flood alleviation scheme here. Investigation has identified potential flood storage areas for further investigation and initial design. |
| S39 | HIGH - Feasibility Manager: Jonathan Moxon Author: | 2023 | Wharfedale Flooded Communities Study | £322k | Collingham, Linton, Wetherby, Thorp Arch | Linked to wider catchment partnership work with the Environment Agency, further modelling work currently being assessed, building on the public engagement undertaken in Summer 2021. |

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| S12 | HIGH - Feasibility | 2032 | Potternewton Surface Water Flood Alleviation Scheme | £807k | Potternewton | Surface water flooding to residential properties, Potternewton Park and Newton Road. Funding secured for study here, exploring other funding options including Yorkshire Water to undertake a scheme. |
| S31 | MEDIUM - Feasibility | 2023 | Lin Dyke Catchment Assessment - Upper and Middle catchments | £370k | Garforth & Kippax | Continuation of work included in Section 19 Report, regarding flooding of the SE Leeds area in August 2014 and 2015. Further modeling undertaken and results under evaluation. Funding options have been explored but as yet no economically viable scheme has been identified. However we continue to explore options. |
| S30 | MEDIUM - Feasibility | 2023 | Wyke Beck Catchment Assessment Phase 2 | £680k | Communities along Wyke Beck | Continuation of work carried out by both LCC & EA. This has now progressed in to a catchment wide approach. Exploring resourcing options to take this forward. |
| S11 | LOW - Pre Outline Business Case | 2023 | Guseley Surface Water Flood Alleviation Scheme | £250k | Guseley | Surface water flooding to properties in Guseley. Levy funding secured to support ongoing study into flood risk and options to address this undertaken. CCTV survey has been undertaken and is currently being assessed for options. |
| S21 | Ongoing | - | LCC Significant Maintenance | | Across the District | Continuation of regular maintenance of Watercourses and Hot-Spots |

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| COMPLETED SCHEMES AND FEASIBILITY STUDIES - SINCE 2011 | | | | | | |
|--|------------|------|--|---------|--------------------------------|---|
| S6 | Completed | 2021 | Micklethorn (Pit Lane) Flood Embankment | £1.100k | Micklethorn | Scheme completed January 2021 |
| S38 | Completed | 2021 | Otley Flood Alleviation Scheme | £2.5m | Otley | Detailed design completed, planning permission granted and conditions discharged. Funding has been confirmed and work is planned to start on site in March 2021. Linked to wider catchment partnership work and Wharfedale Flooded communities study |
| S15 | Completed | 2020 | Killingbeck Meadows Flood Alleviation Scheme | £3m | Halton Moor | Flooding to residential and commercial areas from Wyke Beck. Accelerated scheme due to combining the benefits of releasing development sites (11 housing sites and land within the Enterprise Zone and providing green infrastructure improvements to a Local Nature reserve as well as providing flood risk reduction, the completed scheme will become a registered flood storage area under the Reservoirs Act. This forms part of a joint Wyke Beck Programme delivering housing growth from Brownfield land and Local Nature reserve and green space improvements. |
| S32 | Completed | 2020 | Hawthorn Terrace Flood Alleviation Scheme | £100k | West Garforth | Initial scheme completed, but further defects with existing assets and connected infrastructure identified so further works needed and being designed |
| S20 | Superseded | 2020 | Investigate the interaction between the Leeds and Liverpool Canal and the River Aire. | £10k | River Aire and Liverpool Canal | This study should identify the potential for managing this interaction to ensure that flood risk is managed effectively. This measure is listed in the Aire Catchment Flood Risk Management Plan for the Leeds Policy Unit - to be progressed by 2030. - this has now been included in the scope of Phase 2 of |
| S31 | Completed | 2019 | Lin Dyke Catchment Assessment - Upper and Middle catchments | £1.25m | Garforth & Kippax | Continuation of work included in Section 19 Report, regarding flooding of the SE Leeds area in August 2014 and 2015, design works are continuing to be progressed as schemes are identified |
| S14 | Completed | 2017 | Carry out flood warning feasibility studies for Wortley Beck and Meanwood Beck and implement findings. | £10k | Wortley Beck and Meanwood Beck | This measure is listed in the Aire Catchment Flood Risk Management Plan |
| S3 | Completed | 2017 | Leeds Flood Alleviation Scheme Phase 1, River Aire City Centre | £50.6m | River Aire - City Centre | Scheme Completed |
| S8 | Completed | 2017 | Cotton Mill Beck Culvert, Valley Road | N/A | Morley | Scheme passed to network rail |

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| S35 | Completed | 2018 | Westfields, Allerton Bywater | £502K | Allerton Bywater | Scheme Completed |
| S34 | Completed | 2017 | Glebelands Recreation Ground | £100k | Garforth | Scheme Completed |
| S36 | Completed | 2017 | Barley Hill Recreation Ground (Phase 2) | £100k | West Garforth | Scheme Completed |
| S2 | Completed | 2017 | Ramsden Street, Kippax, Flood Alleviation Scheme - (Local Levy & FDGiA) | £305k | Kippax | Scheme Completed |
| S1 | Completed | 2014 | Lowther Road, Garforth - Culvert Improvements | £220k | Garforth | Scheme Completed |
| S4 | Completed | 2014 | Wellhouse Drive Flood Alleviation Scheme | £50k | Gledhow | Scheme Completed |
| S7 | Completed | 2014 | Culvert Headwall Repair Scheme - (Local Levy) | £50k | Otley | Scheme Completed |
| S28 | Completed | 2013 | Oakdene, Watercourse Improvements | £20k | Swillington | Scheme Completed |
| S27 | Completed | 2012 | Barley Hill Recreation Ground - (Local Levy) | £75k | West Garforth | Scheme Completed |
| S22 | Completed | 2011 | Flood Alleviation Scheme - Leeds Road (Allerton Bywater) pumping station (local levy) | £30k | Allerton Bywater | Scheme Completed |
| S23 | Completed | 2011 | Newton Road property protection and resilience scheme | £20k | Newton Road, Potternewton | Scheme Installed |
| S24 | Completed | 2011 | Lower Wortley - property protection and resilience scheme | £20k | Lower Wortley | Scheme Installed |

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| S25 | Completed | 2011 | Church Lane, Bardsey - property protection and resilience scheme | £20k | Bardsey | Scheme Installed |
| S26 | Completed | 2011 | Dean Park Drive, Drighlington - property protection and resilience scheme | £20k | Drighlington | Scheme Installed |

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