

Loxwood – Long List of Options - 23/11/2017

Option Number	Location	Description of area / known historic flooding / potential flooding mechanism at location	Option Description	Effectiveness to reduce flood risk
1	PIP Yoga (north)	EA comment that surface water flows from north to properties south of the footpath. This differs to surface water flood mapping and DTM analysis	Raise footpath	Block surface water flow path to properties immediately south of the footpath. Potential increase risk to other properties if altering flow path.
2	Ford Close / Guildford Road	Culvert inlet blocked by logs. Resident was trying to remove these during a flood event. Maintenance issue causing risk of water backing up and flooding properties	Repair works and improved maintenance to reduce risk of blockage. Install trash screen at culvert or upstream to catch debris.	Improved conveyance, water able to drain during flood event. However, blockage could act as an informal flow control measure and so improved conveyance could increase flood risk downstream
3	Ford Close / Guildford Road	Culvert inlet blocked by logs. Resident was trying to remove these during a flood event. Maintenance issue causing risk of water backing up and flooding properties	Upsize culvert under road	Improved conveyance, reduced risk of blockage. Potential increase to flood risk downstream by improving conveyance
4	Pond upstream	Residents believe that the sluice is an issue at the pond upstream at 503755, 132963. Water built up and overtopped into road.	Wall/bund along road to hold back water on field next to pond - provide overflow storage area. Road would then act as spillway to channel and field downstream	potential to hold back water upstream, although Water Environment modelling indicated minimal reduction in flood risk in Loxwood due to upstream attenuation. This option would only address the local flooding mechanism.
5	Various		Natural Flood Risk Management measures - e.g. large debris in watercourse Slow down flow of water in upper catchment along key flow paths	Reduction in flow rate. However, WE modelling indicated minimal reduction in flood risk in Loxwood due to upstream attenuation
6	Wet Woodland		Formalise/expand existing wet woodland	Options should capture more water upstream, and slow down flow rate of surface water into Loxwood. Effectiveness is negligible but would contribute to the overall management of water with other upstream measures
7	Field south of Merryhills Lane	Surface water runs off field onto Spy Lane, then Pound Close and Pond Close	Farmer to plough field in different direction. Surface water run off from field slowed down	Slow down rate of surface water flow across field. Potential to hold back water on field.
8	Field south of Merryhills Lane	Surface water runs off field onto Spy Lane, then Pound Close and Pond Close	Change of land use - wet woodland	Slow down rate of surface water flow across field. Potential to hold back water on field.

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9	Field south of Merryhills Lane	Surface water runs off field onto Spy Lane, then Pound Close and Pond Close	Ditch and bund along southern and eastern boundaries of field to collect surface water run off and prevent it from spilling out onto Spy Lane.	Intercept surface water flow route, reduction in surface water flooding. Spillway location will need to be determined to control location and route of overflow from field
10	Field south of Merryhills Lane	Surface water runs off field onto Spy Lane, then Pound Close and Pond Close	Pond/storage area/bund in western corner of field	Surface water mapping shows flow path to the western corner of the field. A basin will capture water before its starts spilling out onto road
11	Pond Close		Upsize culvert and install trash screen	Improved conveyance and blockages can be cleared.
12	In-channel, various (location not shown on GIS layer)	Various in-channel structures in watercourse	remove all local structures in channel (e.g. weirs). Excludes access/roads	Improved conveyance
13	footpath between Pond Close and Oak Grove	water runs down footpath between Pond Close and Oak Grove	replace fencing to allow water to pass through	surface water able to drain away from area
14	Oak Grove (north-eastern end)	surface water runs down Oak Grove	Improve maintenance of existing highway gullies	unknown issue with existing gullies, and so effectiveness cannot be determined. General improvement of drainage if there is capacity in existing drainage network
15	Oak Grove (north-eastern end)	surface water runs down Oak Grove	Raised table/sleeping policeman to slow flow of surface water down Oak Grove	slow flow of surface water along Oak Grove but may not be that effective if there are high flows coming off from the field
16	Oak Grove (north-eastern end)	surface water runs down Oak Grove	raise existing wall around property with raised steps/flood gates. Create channel for surface water through gardens to the watercourse	Property is shown to be at risk of surface water flooding directly from the run off from the field to the north. Option will protect property. The channel/ditch will control the flow of water from the field, through gardens, to the river.

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17	Oak Grove (southwestern end)	properties close to watercourse. Bridges/in-channel structures/constricted watercourse. Fluvial flood risk	PLP for properties. Raise existing walls. Control flow of water out of the channel.	Properties protected
18	Oak Grove (southwestern end)	properties close to watercourse. Bridges/in-channel structures/constricted watercourse. Fluvial flood risk	upsized culverts	improved conveyance
19	Oak Grove (southwestern end)	properties close to watercourse. Bridges/in-channel structures/constricted watercourse. Fluvial flood risk	widen channel / maximise capacity	improved conveyance
20	Various - along watercourse (location not shown on GIS layer)	constricted channel	widen channel and maximise capacity of channel - remove channel walls, excavation works to lower land either side of channel, overflow channels, offline ponds, etc.	Additional capacity in watercourse, reduce flood risk. Water Environment modelling indicated that a wider channel would reduce flood depths
21	Nicholsfield	highway sewer surcharged causing flooding to road and school. Potential blockage	Southern Water to investigate as part of DAP. Potential blockage. Potential to seal manhole cover	
22	school	school field is generally boggy due to adjacent watercourse and surface water run off	maximise storage capacity on school field.	capture surface water runoff before draining to the watercourse, or generate more fluvial flood plain storage for the river.
23	Glebelands	surface water flow path	lower kerb, remove brick wall and tree on Glebelands junction. Create ditch eastwards from Glebelands along landownership boundaries to channel flow to river, away from properties	surface water channelled to watercourse
24	Open channel north of Station Road	area of open channel through private land, set back from properties.	improvement works to utilise as an attenuation area upstream of the Station Road culvert. Excavation works to create more storage capacity, meanders, bunds along southern end	reduced flood risk to properties on Burley Close.

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25	Station Road		upsized culvert so that water doesn't back up in upstream section.	improved conveyance
26	Station Road		high level overflow pipe	improved conveyance
27	Burley Close	surface water flood risk to front of properties	utilise grassed areas on junction of Burley Close as bio-retention areas / tree pits. Collect and store surface water before it gets to Burley Close	This may remove some water from the highway but it is dependant on the existing drainage and flow paths. Flooding to Burley Close may be largely due to fluvial flooding and not surface water from the highway
28	various		enforcement and education of riparian ownership responsibilities - repair works, removal of in-channel structures, etc.	
29	various		Gauging for better early warning of a flood event. Develop a community flood emergency plan. Gauges can be placed either side of the culverts to detect a change in water level to indicate that debris is building up at the trash screen (if installed)	
30	Properties identified as at flood risk	Fluvial and surface water flood risk	Property level protection to all 17 properties identified as at flood risk	Protection to individual properties
31	Burley Close	surface water flood risk to front of properties	Drainage channel across junction of Burley Close and Station Road to pick up surface water	intercept surface water before it gets to Burley Close. Limitation will be on existing drainage capacity and effectiveness of drainage channel
32	Guildford Road/ Field south of Merryhills Lane	surface water flow path on road	Highway ditch in verge (both sides of road) to pick up surface water flows on highway and control the flow path to the river	Controlled surface water flow to river

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33	Burley Close	fluvial flooding from watercourse to rear of properties	wall/bund to rear of properties on Burley Close to protect from fluvial flows	