

# WYRE Making Space for Water - Hotspot List

## Appendix A - Flood Hot Spot List – March 2018

1 – Live flood issues. New comments in red				
Location of incident	Brief summary of the incident	Agreed action	Status	Update / Comments
Sunnyside Terrace, Preesall	<p>Sunnyside Terrace has suffered a number of flooding events which have included internal flooding to properties – the most recent event was 22 November 2017. LCC have obtained a grant to undertake capital works to reduce the risk of flooding.</p> <p>The MSfW Group is looking to undertake initial works to carry out works to Green Lane watercourse to ensure that there is a clear discharge point for excess flood water.</p>	<ul style="list-style-type: none"> <li>LCC to cut back willow tree in Green Lane watercourse to allow free flow in the watercourse.</li> <li>LCC to undertake desilting works to culvert under Cart Gate.</li> <li>LCC to undertake desilting works on Green Lane watercourse, including culvert under road. WBC to inform landowners adjacent to watercourse.</li> <li>LCC to consider other flood mitigation works once the discharge point is cleared.</li> <li>LCC / EA to inspect full length of Green Lane watercourse to its discharge point to River Wyre.</li> <li>EA to inspect and clear if necessary river outfall.</li> </ul>	Works planned to commence March 2018	<ul style="list-style-type: none"> <li>LCC have inspected culvert under Cart Gate and noted that it is 75% restricted and has root ingress.</li> </ul>
Meadow Avenue, Preesall	Watercourse to rear of Meadow Ave, Preesall in urgent need of cleaning and reinstatement. Watercourse takes surface water from Pilling Lane and estate around Meadow Ave.	<ul style="list-style-type: none"> <li>Undertake investigations</li> <li>Undertake appraisal to identify possible actions</li> <li>Possible Enforcement</li> </ul>	On-going	<ul style="list-style-type: none"> <li>LLFA (FRM Team) to investigate, potential enforcement action required.</li> <li>Inspected LCC/WC – WC to look at community payback as possible option to clear on a one-off basis.</li> <li>Still outstanding. WC to contact community payback and local residents.</li> </ul>
Pilling Lane, Preesall	Highway floods during heavy rainfall events. Road is only passable with care.	<ul style="list-style-type: none"> <li>Undertake investigations. Consider linkage to Meadow Ave.</li> <li>Undertake appraisal to identify possible actions</li> <li>Possible Enforcement</li> </ul>	On-going	<ul style="list-style-type: none"> <li>LLFA (FRM Team) to investigate, potential enforcement action required.</li> <li>Flooding presumed to be linked to Meadows Ave watercourse and to be considered as the same issue.</li> <li>Still outstanding – March 2018</li> </ul>
Regatta Point, Hambleton	Complaints re movement of river embankment causing damage to perimeter fencing	<ul style="list-style-type: none"> <li>Environment Agency to undertake investigations</li> </ul>	On-going	<ul style="list-style-type: none"> <li>EA visited site and arranged for works to be undertaken on the embankment. Currently expected to begin Oct 2017.</li> <li>Works planned for 12 December 2017</li> <li>Works delayed – expected to be completed by end of March 2018</li> </ul>
Lancaster Road, Preesall	<p>Flooding of fields and Lancaster Road. Road requires to be closed when flooded.</p> <p>Dyke are not draining, possibility of blockage under highway. Investigate if there is a blockage in the culvert.</p>	<ul style="list-style-type: none"> <li>Undertake preliminary investigations</li> <li>Undertake appraisal to identify possible actions</li> </ul>	On-going	<ul style="list-style-type: none"> <li>LLFA (FRM Team) undertook initial site investigation and met local residents on Tuesday 15 November.</li> <li>Dyke full and very limited flow. Maintenance cannot be undertaken on network of dykes until obstruction can be found and removed.</li> <li>FRM have undertaken an investigation in January 2017. Culvert under highway was cleaned out and jetted to remove silt build up. Further works are required as there is a capacity issue and the embankment is slipping into the ditch.</li> <li>HA has been made aware of their duties and will report on further action needed.</li> <li>Culvert now cleared. Works required to repair culvert end wall – LCC to undertake these summer 2017.</li> <li>No recent action – works still planned for 2017/18</li> <li>LCC to inspect to arrange works.</li> </ul>

Location of incident	Brief summary of the incident	Agreed action	Status	Update / Comments
Fordstone Road, Preesall	Complaint from resident of water under floor boards. UU investigated – suspected blocked/damaged private drain	<ul style="list-style-type: none"> <li>• Trash screen to be checked / cleared. Monitor any change.</li> </ul>	On-going	<ul style="list-style-type: none"> <li>• Trash screen to be checked / cleaned. Potential that pipe under properties has collapsed – private issue but UU may be able to advice.</li> <li>• No recent action – screen yet to be checked.</li> </ul>
Ravenswood Ave,	Reoccurrence of flooding to residential property during heavy rainfall.	<ul style="list-style-type: none"> <li>• EA to check and clear Horse Bridge Dyke watercourse.</li> <li>• UU to check local sewers</li> <li>• HA to check highway drainage</li> </ul>	Monitor	<ul style="list-style-type: none"> <li>• Reoccurrence of past flooding incident – suspected private drainage issue; EA, UU and HA to check systems and advice to be given to occupant.</li> <li>• UU has inspected systems and spoken with resident. EA yet to check watercourse.</li> <li>• EA have undertaken routine maintenance to Horsebridge Dyke watercourse. No issues noted.</li> </ul>
Normoss Road, Normoss	Flooding to residential property from surface water sewer.	<ul style="list-style-type: none"> <li>• LCC to inspect culverted watercourse under Normoss Road for blockages.</li> </ul>	On-going	<ul style="list-style-type: none"> <li>• UU has inspected assets and found no problem. Will monitor for any reoccurrence.</li> <li>• LCC to inspect culvert.</li> </ul>
Derby Crescent, Inskip	Surface water flooding to residential street. Foul and surface water misconnections in local drainage leading to foul in street	<ul style="list-style-type: none"> <li>• LCC / UU to investigate</li> </ul>	On-going	<ul style="list-style-type: none"> <li>• UU have inspected and report misconnection of highway drainage and local residential property. LCC to fix connection issues; UU to contact resident to resolve misconnection.</li> <li>• Resident has been advised and will undertake misconnection works.</li> <li>• LCC to resolve misconnection of highway drainage</li> </ul>

2 – Closed Cases				
Location of incident	Brief summary of the incident	Agreed action	Status	Action Taken
Churchtown	<p>58 properties flooded in and around Churchtown, including St. Helens C of E Primary School. Primary source of flooding from River Wyre, both upstream of Kirkland Bridge and downstream of the bridge through the sewage treatment works and through Hamilton House Farm. Some secondary flooding from Ainspool watercourse.</p> <p>Surface water flooding also appears to be a significant contributing factor.</p> <p>The majority of affected properties were on Ainspool Lane, Garstang Bypass Road, Garstang Road, and The Avenue (off Garstang Road).</p>	<ul style="list-style-type: none"> <li>• All RMA's to undertake data collection</li> <li>• Appraise current programmed works</li> <li>• Undertake preliminary investigations</li> <li>• Undertake appraisal to identify possible actions</li> <li>• Attend drop in session</li> <li>• Undertake Section 19 Investigation</li> <li>• Inspect assets with significant flood risk</li> <li>• Assist and support new Flood Action Group</li> </ul>	<p>Closed.</p> <p>Section 19 report for Aug 2016 outstanding</p>	<ul style="list-style-type: none"> <li>• HA - has undertaken gully cleansing / highway maintenance – COMPLETE.</li> <li>• HA - Further investigation has been undertaken on A6/A586 regarding side entry gullies - COMPLETE Capital bid has been made for funds to change how existing side entry gullies operate on A586 and A6 by M&amp;S/garage to allow improved drainage and increased attenuation. All gullies to be cleared.</li> <li>• LLFA - Stage 1 of the Section 19 Investigation published – COMPLETE</li> <li>• LLFA - bid for DEFRA Investment Programme to undertake SWMP level 3 has been submitted to the EA for approval - ONGOING</li> <li>• UU - modelling and inspection of assets complete and supports EA report that surcharging sewers was caused by river water entering the public sewer system - COMPLETE</li> <li>• EA - has undertaken inspection of their flood defence assets, with maintenance undertaken as required. Inspection of river banking undertaken by pest control officer.</li> <li>• EA - Work is programmed to top up the low spot on the embankment beside the UU pumping station during the summer (2017).</li> <li>• UU and HA have undertaken maintenance works as reasonably possible</li> <li>• ALL - attended flood roadshows and continued support to local community and meeting individual residents</li> <li>• Churchtown Flood Action Group formed.</li> <li>• WBC - updated Emergency Plans for Churchtown with assistance from FLAG</li> <li>• WBC - supporting flood resilience grant applications and implementation of measures.</li> </ul>
Garstang	<p>22 properties were flooded in Garstang on 5 December 2015. These include residential properties, a care home on the Moorings, a home for vulnerable adults and several businesses. The majority of affected properties were on Bridge Street.</p> <p>It appears that the main source of flooding was fluvial from the River Wyre.</p> <p>Residents have concerns that that they are not adequately protected by existing flood barriers.</p> <p>1 property was also flooded on the 26 December 2015.</p>	<ul style="list-style-type: none"> <li>• All RMA's to undertake data collection</li> <li>• Appraise current programmed works</li> <li>• Undertake preliminary investigations</li> <li>• Undertake appraisal to identify possible actions</li> <li>• Attend drop in session</li> <li>• Undertake Section 19 Investigation</li> <li>• Inspect assets with significant flood risk</li> <li>• Assist and support new Flood Action Group</li> </ul>	<p>Closed</p>	<ul style="list-style-type: none"> <li>• HA - has undertaken gully cleansing / highway maintenance</li> <li>• LLFA - Stage 1 of the Section 19 Investigation published. Inspection of ditch showed no obstruction.</li> <li>• UU - modelling and inspection of assets complete. Any surcharging from public sewers was due to the overland flooding entering the public sewers and outfalls being locked by high river levels</li> <li>• EA - has completed the rebuild of the River Brock embankment to the pre-December level.</li> <li>• EA - Upper &amp; Middle Wyre Catchment Study to be progressed and concluded.</li> <li>• St.Michaels Flood Action Group formed.</li> </ul>
St. Michaels, Moss Side Road	<p>Two farms flooded. EA mapping indicates that properties are adjacent to an area of high surface water flood risk</p>	<ul style="list-style-type: none"> <li>• Undertake preliminary investigations</li> <li>• Undertake appraisal to identify possible actions</li> <li>• Undertake Section 19 Investigation</li> <li>• Inspect assets with significant flood risk</li> </ul>	<p>Closed</p>	<ul style="list-style-type: none"> <li>• HA - has undertaken gully cleansing / highway maintenance. All defects are being repaired, including potholes and kerbing</li> <li>• LLFA - Stage 1 of the Section 19 Investigation published.</li> <li>• EA - maintenance undertaken on assets complete. Future works have been identified and programmed.</li> </ul>

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St. Michaels (Blackpool Road / Hall Lane)	27 properties flooded, including school and Memorial Hall Pumping operation that took up to a week to clear the water out of the area. As a consequence, the main road running through St Michaels-on-Wyre, the A586 Blackpool Road, had to be closed off for a number of days. The flooding in this area was mainly fluvial from the River Brock, following breach of the embankment. It is reported that the overflow from River Brock crossed farmland before flooding the properties.	<ul style="list-style-type: none"> <li>All RMA's to undertake data collection</li> <li>Appraise current programmed works</li> <li>Undertake preliminary investigations</li> <li>Undertake appraisal to identify possible actions</li> <li>Undertake Section 19 Investigation</li> <li>Inspect assets with significant flood risk</li> </ul>	Closed	<ul style="list-style-type: none"> <li>HA - has undertaken gully cleansing / highway maintenance</li> <li>LLFA - Stage 1 of the Section 19 Investigation published. Inspection of ditch showed no obstruction.</li> <li>UU - modelling and inspection of assets complete. Any surcharging from public sewers was due to the overland flooding entering the public sewers and outfalls being locked by high river levels</li> <li>EA - has completed the rebuild of the River Brock embankment to the pre-December level.</li> <li>EA - Upper &amp; Middle Wyre Catchment Study to be progressed and concluded.</li> <li>St.Michaels Flood Action Group formed.</li> </ul>
St. Michaels (Rawcliffe Road area)	5 residential properties in the Rawcliffe Road area flooded. The affected properties are at a moderate surface water flood risk, based on EA flood maps.	<ul style="list-style-type: none"> <li>All RMA's to undertake data collection</li> <li>Appraise current programmed works</li> <li>Undertake preliminary investigations</li> <li>Undertake appraisal to identify possible actions</li> <li>Undertake Section 19 Investigation</li> <li>Inspect assets with significant flood risk</li> </ul>	Closed	<ul style="list-style-type: none"> <li>HA - has undertaken gully cleansing / highway maintenance. No further action required at this time.</li> <li>LLFA - Stage 1 of the Section 19 Investigation published.</li> <li>UU - modelling and inspection of assets complete</li> <li>Recommendation - highway and surface water systems flow into main river, when water level is high system becomes locked.</li> <li>No engineering solution has been identified at this point so property level protection is recommended.</li> </ul>
Scorton/Forton - Cleveley Bridge Area	1 property affected by the 5th December 2015 flooding. The property lies within fluvial Flood Zone 3, adjacent to the River Wyre. There are some reports on highway flooding to the west of this location in Forton, however no internal flooding has been reported. 6 Caravans were also flooded at the Six Arches Caravan park approximately 1 km downstream of Oak House	<ul style="list-style-type: none"> <li>All RMA's to undertake data collection</li> <li>Appraise current programmed works</li> <li>Undertake preliminary investigations</li> <li>Undertake appraisal to identify possible actions</li> <li>Undertake Section 19 Investigation</li> <li>Inspect assets with significant flood risk</li> </ul>	Closed	<ul style="list-style-type: none"> <li>HA - has undertaken gully cleansing / highway maintenance.</li> <li>LLFA - Stage 1 of the Section 19 Investigation published. Inspection of ditch showed no obstruction. Residents are encouraged to consider installing property level flood resilience measures in order to further reduce the risk of flood water entering the property in the future.</li> <li>UU - no reports of any flooding caused by operational / capacity issues.</li> <li>EA - has undertaken inspection of flood banks with maintenance carried out as required.</li> </ul>
Middle Holly Cottages, Forton	Report of blocked dykes	<ul style="list-style-type: none"> <li>Undertake investigations</li> <li>Undertake appraisal to identify possible actions</li> <li>Inspect highway culvert</li> </ul>	Closed	<ul style="list-style-type: none"> <li>HA – to undertake investigation into upsizing the culvert under Middle Holly Lane. Capital funding 2017/2018 Scheme.</li> <li>LLFA FRM Team undertook site investigation on Tuesday 15 November 2016. Good flow in dyke. Maintenance on the east side of the dyke seems to be regularly undertaken. On the west side, more vegetation was present but not hindering the flow. The culverts under the A6 and Middle Holly Lane were free from any obstruction.</li> <li>Works to upgrade culvert to be undertaken by LCC</li> <li>LCC confirm that highway drainage is OK. Any further works are private – owners have been advised of their responsibilities.</li> </ul>
Grange Lane, Stalmine	Foul flooding of highway at junction of Grange Lane and Smithy Lane	<ul style="list-style-type: none"> <li>Undertake preliminary investigations</li> <li>Undertake appraisal to identify possible actions</li> </ul>	Closed	<ul style="list-style-type: none"> <li>UU have completed works and installed new manhole</li> <li>No further reports of flooding received.</li> </ul>
A6 / Gubberford Lane	Highway Authority report that the footway floods. Potential for LCC Capital Scheme, possible issues with access to properties so will require careful consideration.	<ul style="list-style-type: none"> <li>Undertake preliminary investigations</li> <li>Undertake appraisal to identify possible actions</li> </ul>	Closed	<ul style="list-style-type: none"> <li>HA - footway to be reconstructed and will take forward with LCC Asset Management Team.</li> <li>No works are currently planned for this area – continue to monitor.</li> </ul>

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Fleetwood Football Club	Potential blockages of surface water system causing issues to football club	<ul style="list-style-type: none"> <li>Flood Risk Management Team to investigate</li> </ul>	Closed	<ul style="list-style-type: none"> <li>Investigation shows that part of the surface water highway system is in need of repair / replacement.</li> <li>HA is undertaking this work as a matter of priority and will liaise with the football club stadium manager with updates.</li> <li>All pipework from Radcliffe Road to football ground have been cleared. Works complete</li> </ul>
Church Lane, Hambleton	Highway floods during heavy rainfall events. Road is only passable with care.	<ul style="list-style-type: none"> <li>Highway Authority 600 diameter stone culvert asset requires upgrading.</li> </ul>	Closed	<ul style="list-style-type: none"> <li>HA report that this work is now complete.</li> </ul>
Bull Park Lane, Hambleton	Highway floods during heavy rainfall events. Road is only passable with care.	<ul style="list-style-type: none"> <li>Highway Authority to undertake investigation</li> </ul>	Closed	<ul style="list-style-type: none"> <li>HA report that is has been inspected and routine maintenance to be undertaken which will include jetting of the systems.</li> </ul>
Smallwood Hey, Pilling	Reports of flooding in localised areas due to flat topography.	<ul style="list-style-type: none"> <li>Undertake preliminary investigations</li> <li>Undertake appraisal to identify possible actions</li> </ul>	Closed	<ul style="list-style-type: none"> <li>HA - the road is very flat and floods in certain areas. Order has been placed to jet gullies.</li> </ul>
Stricklands Lane, Stalmine	Highway floods during heavy rainfall events. Road is only passable with care.	<ul style="list-style-type: none"> <li>Undertake preliminary investigations</li> <li>Undertake appraisal to identify possible actions.</li> </ul>	Closed	<ul style="list-style-type: none"> <li>LLFA (FRM Team) to investigate, potential enforcement action required.</li> <li>HA – gullies have been jetted clean.</li> <li>HA – highway drainage pipes repaired</li> </ul>
Smithy Lane / Daggars Lane, Preesall	United Utilities report that flooding has occurred on the highway. United Utilities have undertaken dye testing and cannot trace the system.	<ul style="list-style-type: none"> <li>Highway Authority to undertake investigation</li> </ul>	Closed	<ul style="list-style-type: none"> <li>HA to investigate possible broken highway drain</li> <li>Broken surface water drain repaired</li> </ul>
Great Eccleston Village Square	Wyre Council report that flooding is occurring in the village square.	<ul style="list-style-type: none"> <li>Highway Authority to undertake investigation</li> </ul>	Closed	<ul style="list-style-type: none"> <li>HA have applied for highway closure to allow access – works planned to commence 7 Aug 2017.</li> <li>HA – Road gullies repaired.</li> </ul>
River Road, Thornton	Wyre Council report that there is flooding to the grounds and part of the touring caravan site. Possibility that there is issues with the highway drainage preventing discharge of surface water from site.	<ul style="list-style-type: none"> <li>Highway Authority to undertake investigation</li> </ul>	Closed	<ul style="list-style-type: none"> <li>HA – works commenced 25 May 2017 to reroute highway drainage.</li> <li>New highway drainage connection to Hillylaid Pool at Stanah PS</li> </ul>
Ratcliffe Wharf Lane, Forton	Highway drainage discharging on private property.	<ul style="list-style-type: none"> <li>Highway Authority to undertake investigation</li> </ul>	Closed	<ul style="list-style-type: none"> <li>HA visited site and offered to undertake works to remove flooding issue – local resident has declined works. HA to monitor for future flooding</li> <li>LCC not able to access private land – resident to repair</li> </ul>
Linden Avenue / Branksome Avenue, Thornton Cleveleys	Applicant reports that a lot of the gardens along Linden have laying water. The owner is extremely worried as he thinks he has water under the floor	<ul style="list-style-type: none"> <li>WBC - to investigate options to drain surface water with support from UU</li> </ul>	Closed	<ul style="list-style-type: none"> <li>WBC - Initial drainage works commenced in December 2016;</li> <li>Further ground works to be considered in summer 2017.</li> <li>Swale/bund swale construction to be extended to south-east corner of the site in Sept/Oct 2017 to include properties not previously covered.</li> <li>CCTV survey to be examined to determine whether a connection to the local surface water drain exists or can be installed (this would be as a last resort if the construction of swale/bund does not protect local properties)</li> <li>Works to extend swale/bund now completed, including minor change to land profile. How works perform to be monitored - no further works planned at this stage.</li> </ul>

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Home Field, Garstang	No internal flooding, however street/drives flooded 16 homes on Home Field. River Mead brook is behind them all. Brook has only been cleaned once that the applicant can remember. Concerns about it causing floods. Also drains couldn't take the water.	<ul style="list-style-type: none"> <li>• LLFA Flood Risk Management Team to undertake investigation</li> </ul>	Closed	<ul style="list-style-type: none"> <li>• HA - to undertake investigation and programme highway maintenance</li> <li>• LLFA FRM Team undertook site investigation on Tuesday 15 November 2016. Heavily overgrown watercourse, maintenance required which may alleviate flooding issue.</li> <li>• FRM to undertake land registry search and issue 1<sup>st</sup> stage enforcement letter.</li> <li>• Still outstanding May 2017 – LCC to look at enforcement</li> <li>• Still outstanding Sept 2017 – LCC to look at enforcement</li> <li>• HA have inspected and cleaned out piped watercourse; no further works planned.</li> </ul>
Sandy Lane, Hambleton	Reported by United Utilities that property flood during heavy rainfall events. Flooding to highway on Stoney Lane reported.	<ul style="list-style-type: none"> <li>• Undertake preliminary investigations</li> <li>• Undertake appraisal to identify possible actions</li> </ul>	Closed	<ul style="list-style-type: none"> <li>• UU - have undertaken inspection of assets, cleaned systems</li> <li>• HA - to programme an investigation and work with UU once information has been received from their inspection.</li> <li>• Gulley cleaned out – no further action required.</li> <li>• LCC to undertake repairs to gully at junction Stoney Lane / Carr Lane</li> <li>• HA have undertaken works to damaged highway gulley. No further action required.</li> </ul>
Carr Lane, Hambleton	Reports of manhole covers surcharging. Area flooded in 2012 and highway flooded in November 2016.	<ul style="list-style-type: none"> <li>• Undertake preliminary investigations</li> <li>• Undertake appraisal to identify possible actions</li> </ul>	Closed	<ul style="list-style-type: none"> <li>• HA has undertaken works to the highway which included lowering of gullies and re-profiling road to mitigate ponding within the highway.</li> <li>• HA report that residents have been updated.</li> <li>• HA to expose drain south of Carrisbrooke and undertake repair works summer 2017.</li> <li>• HA have repaired highway drain and pipe under A588. Noted that watercourse to west of highway in need of clearing.</li> </ul>
High Street, Garstang	Enquiry re surface water drainage to riverside property	<ul style="list-style-type: none"> <li>• LLFA to advise resident of responsibility</li> </ul>	Closed	<ul style="list-style-type: none"> <li>• Advice required only at this time.</li> </ul>
Cleverley Bank	Watercourse discharge to River Wyre on Cleveleys Bank Lane requires investigation works, including replacement of trash screen.	<ul style="list-style-type: none"> <li>• Undertake preliminary investigations</li> <li>• Undertake appraisal to identify possible actions</li> <li>• Replace culvert trash screen</li> </ul>	Closed	<ul style="list-style-type: none"> <li>• EA, LLFA, HA and WBC met to investigate works.</li> <li>• EA to undertake works to watercourse. Work to improve channel conveyance, tree trimming and topping up low spots in the embankment.</li> <li>• Works in progress. Trimming of trees and build-up of embankment completed.</li> <li>• Works on watercourse completed. EA to install new trash screen to watercourse by side of highway.</li> <li>• <b>Screen ready for installation. EA/LCC to discuss future maintenance responsibility.</b></li> </ul>
Kiln Lane / Sherbourne Road, Hambleton	Highway floods during heavy rainfall events. Road is only passable with care. Flooding to local residential properties. Flooded December 2015 and June 2016  Long-standing problem – LCC undertook extensive investigation in 2012/13 following flooding in September 2012.	<ul style="list-style-type: none"> <li>• UU to investigate foul drainage system.</li> </ul>	<b>Closed. No further action required. Flooding from November 2017 to be investigated separately.</b>	<ul style="list-style-type: none"> <li>• UU have installed an additional flap valve on the overflow from Kiln Lane pumping station to protect the wastewater network from backflow from Wardleys Creek at high tide.</li> <li>• No flooding during recent high tides. Continue to monitor.</li> <li>• Road flooded 22 November 2017 – to be investigated as part of Section 19 report.</li> </ul>