



Section 19 Flood Investigation Reports Action Plan

Document Control Sheet

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Broughton Section 19 Flood Investigation Report		
2023		
Stakeholder	Recommendations	Action / Current Status
Highways Authority	Review the frequency of gully cleansing in affected areas, for example on the Rowans.	We aim to clean all gullies on the public highway once every year, although some drains will be cleaned twice a year and on receipt of a severe weather warning, based on risk of flooding.
Highways Authority & Lead Local Flood Authority	Inspect the existing culvert inlet FCC Asset Ref No: AM0060. NGR: 333346, 363367 (Mold Road) on a frequent basis, remove debris as required.	The LLFA have secured a funding allocation from Welsh Government for the 2026/2027 financial year, to undertake improvement works to the trash screen associated with this culvert, subject to local landowner agreements.
Highways Authority & Lead Local Flood Authority	Undertake a CCTV condition survey of the Mold Road culvert to review the existing condition/siltation. Plan to take any remedial actions as required.	A condition survey will be completed in conjunction with the Mold Road trash screen works. The Cherry Dale system had CCTV in March 2026.
Lead Local Flood Authority	Communicate with local communities to raise awareness of property level flood resilience measures that can be implemented to help mitigate flood risk.	Ongoing collaboration with the Broughton & Bretton Flood Action Group. The most recent formal meeting was the 28 th November 2025.
Lead Local Flood Authority	Investigate implementing natural flood management upstream of the Mold Road culvert inlet FCC Asset Ref No: AM0060. NGR: 333346, 363367.	Natural flood management has been modelled for the for the Broughton catchment with funding allocation secured from Welsh Government for the 2026/27 financial year.
Dŵr Cymru Welsh Water	Review customer complaints and investigate the associated sections of public sewer system to remove any blockage / significant debris following the October 2023 event.	Ongoing.
North and Mid Wales Trunk Road Agent	Inspect the inlet of the A55 0060 C50 Broughton culvert on a frequent basis to ensure it is free of blockage / debris.	Checks and removal of debris from the trash screen is monthly. Any issues at this location can be reported to www.traffic.wales/flooding-and-drainage
North and Mid Wales Trunk	CCTV the A55 0120 C10 Pentrobin Culvert to ensure the culvert is free of blockage and any	Principal inspection undertaken in 2020 and general inspection undertaken in 2024. The NMWTRA do not report any blockage or debris

Road Agent	significant siltation. Take remedial action as required.	in the culvert. It is also possible to see from end of the culvert to the other. At present, an additional CCTV survey is not required. Debris removal is undertaken every 2 years as part of routine maintenance.
Broughton & Bretton Flood Action Group	Continue to engage with residents to help raise awareness of local issues surrounding flooding.	Ongoing.
Property Owners / Residents	Consider the implementation of property level flood resilience measures. These could include the installation of non-return valves to prevent ingress of floodwater on private drainage systems and installing flood barriers or flood doors.	www.thefloodhub.co.uk/pfr

Bretton Section 19 Flood Investigation Report

2023

Stakeholder	Recommendations	Action / Current Status
Highways Authority	Conduct a post event review of highway assets to ensure they are operational.	All highway assets were reviewed to be working and operational in the known locations. We aim to clean all gullies on the public highway once every year, although some drains will be cleaned twice a year and on receipt of a severe weather warning, based on risk of flooding.
Highways Authority	Review the maintenance schedule of highway assets in this area, ensuring regular maintenance is carried out at flooding hotspots.	Area hotspots are checked and monitored prior to any weather event and monitored throughout a flood event in line with Highway Drainage Policy.
Highways Authority	Consider the implementation of traffic management plans that can be put in place when a storm event is predicted, to prevent passing vehicles creating bow waves that exacerbate flooding.	Roads can be closed by FCC Highways Authority, Police and/or Fire & Rescue Teams.
Highways Authority & Lead Local Flood Authority	Investigate local capacity improvements to mitigate flood risk, including the use of highways assets.	An investigation was commissioned with external consultants, which was delivered to Welsh Government in March 2025. The report concluded that there is currently no further improvement works that would meet Welsh Government's funding criteria.
Lead Local Flood Authority & Natural Resources Wales	Communicate with local communities to raise awareness of property level flood resilience measures that can be implemented to help mitigate flood risk.	Ongoing collaboration with the Broughton & Bretton Flood Action Group. The most recent formal meeting was the 28 th November 2025.
Lead Local Flood Authority	Investigate the feasibility for a flood mitigation scheme to manage and reduce runoff entering the highways from adjacent land.	An investigation was commissioned with external consultants, which was delivered to Welsh Government in March 2025. The report concluded that there is currently no further improvement works that would meet Welsh Government's funding criteria.
Natural Resources	Ensure Main Rivers are inspected on a risk-based frequency and where appropriate and justifiable, a	NRW continues to carry out maintenance of main river watercourses and assets, on a risk-based approach. This involves

Wales	maintenance regime is documented and completed by an appropriate Risk Management Authority and/or Riparian Owner.	planned routine maintenance, as well as reactive work during the year. When high rainfall alarms trigger, NRW operational staff inspect and clear blocked trash screens and critical assets to help convey flood water. This service is 24/7 and all year round.
Dŵr Cymru Welsh Water	Review customer complaints and investigate the associated sections of public sewer system to remove any blockage / significant debris following the October 2023 event.	Ongoing.
Broughton & Bretton Flood Action Group	Continue to engage with residents to help raise awareness of local issues surrounding flooding.	Ongoing.
Property Owners / Residents	Sign up to the free signing up to the NRW Flood Warning System and consider the implementation of property level flood resilience measures. These could include the installation of non-return valves to prevent ingress of floodwater on private drainage systems and installing flood barriers or flood doors.	www.naturalresources.wales/flooding/sign-up-to-receive-flood-warnings www.thefloodhub.co.uk/pfr

Sandycroft Section 19 Flood Investigation Report

2023

Stakeholder	Recommendations	Action / Current Status
Highways Authority	Post event review of highway assets to ensure they are operational.	All highway assets were reviewed to be working and operational in the known locations. We aim to clean all gullies on the public highway once every year, although some drains will be cleaned twice a year and on receipt of a severe weather warning, based on risk of flooding.
Lead Local Flood Authority	Investigate the potential natural flood management in the upstream catchment as to attenuate flood flows.	An investigation was commissioned with external consultants, which was delivered to Welsh Government in March 2025. The report concluded that there is currently no further improvement works that would meet Welsh Government's funding criteria. Further discussion to be held on completion of Natural Resources Wales' work.
Highways Authority, Lead Local Flood Authority & Natural Resources Wales	Investigate local capacity improvements to mitigate flood risk, including the use of highways assets.	On behalf of Flintshire County Council, our contractors replaced/repairs six highway crossing culvert outfalls into Broughton Brook. These are located along Chester Road between Moor Lane and Manor Lane (Airbus) - the watercourse clearance works were extended to cover this 1.25km stretch. In addition to the completion of these works, non-return flap valves have been fitted.
Lead Local Flood Authority & Natural Resources Wales	Communicate with local communities to raise awareness of property level flood resilience measures that can be implemented to help mitigate flood risk.	Ongoing collaboration with Sandycroft Flood Action Group with a webpage set up to keep residents informed during the works - www.ymgynggori.cyfoethnaturiol.cymru/north-east-gogledd-ddwyrain/sandycroft-and-pentre-drain-flood-remediation-work Natural Resources Wales statement - "we would remind all residents who own land adjacent to a watercourse of their legal responsibilities for maintaining the bed and banks of the watercourse. This includes managing the trees and shrubs growing on the banks and ensuring water flows without obstruction or pollution. Banks should also be kept clear of anything that could cause an obstruction and increase flood risk. We encourage residents to report any instances of material being

		dumped into the watercourse or any concerns about blockages by contacting NRW on 0300 065 3000 or via our website: Natural Resources Wales / Report an incident."
Natural Resources Wales	Continue to survey and maintain the Main Rivers in the area (Pentre Drain North, Pentre Drain South and Broughton Brook) to ensure they are free flowing.	A significant amount of debris and material has been removed from this culverted watercourse. A reduction in local water levels has been observed following this work. NRW have liaised with colleagues at FCC and have now installed several trash screens at key locations to reduce the risk of material entering the culvert in the future. Complete survey of the open and culverted main river channels has been completed in Sandycroft. Consultants on behalf of Natural Resources Wales are currently drawing up the final detail, which will be shared with FCC when available.
Natural Resources Wales	Consider a capital scheme to improve the tidal outfall and flap valves.	This is being progressed as part of the next phase of the Sandycroft and Pentre scheme, but timescales have slipped, and construction is not likely until 2026/27 financial year at the earliest.
Natural Resources Wales	Investigate the feasibility of the implementation of pumping equipment either in a fixed pumping station or temporary sites to pump excessive storm flows away from areas at risk of flooding.	Resilience for pumping operations has been installed as a part of the recent local works.
Sandycroft Flood Action Group	Continue to engage with residents to help raise awareness of local issues surrounding flooding.	Ongoing.
Property Owners / Residents	Sign up to the free signing up to the NRW Flood Warning System and consider the implementation of property level flood resilience measures. These could include; the installation of non-return valves to prevent ingress of floodwater on private drainage systems and installing flood barriers or flood doors.	www.naturalresources.wales/flooding/sign-up-to-receive-flood-warnings www.thefloodhub.co.uk/pfr

Mold Hydraulically Linked Areas Section 19 Flood Investigation Report

2023

Stakeholder	Recommendations	Action / Current Status
Riparian Owners	Inspect the existing culvert inlet at Highfield Villas on a frequent basis and remove debris as required.	In 2026/27, the LLFA has worked with the riparian owner to seek Welsh Government funding allocation to replace and improve the existing trash screen. In 2025/26, the LLFA worked with riparian owners to secure Welsh Government funding to install a number of natural flood management features to slow the flow and catch debris.
Highways Authority	Post event undertake a CCTV condition survey of the Brook Street culvert confluence to ensure the culvert is free of blockage and any significant siltation. Take remedial action as required.	A condition survey has been undertaken with remedial works carried out, but additional investigation and condition surveys are needed due to the extent of the network infrastructure.
Highways Authority	Continue maintenance of highway drainage assets in high-risk areas. For example, at Brook Street and Ruthin Road.	All highway assets have regular scheduled maintenance. We aim to clean all gullies on the public highway once every year, although some drains will be cleaned twice a year and on receipt of a severe weather warning, based on risk of flooding.
Lead Local Flood Authority	Communicate with local communities to raise awareness of property level flood resilience measures that can be implemented to help mitigate flood risk.	Ongoing.
Lead Local Flood Authority	Investigate implementing natural flood management upstream of the areas impacted by flooding from ordinary watercourses / surface water, namely Fir Grove and Highfield Villas culvert inlets.	A Natural Flood Management (NFM) Grant from Welsh Government has been secured to undertake a project upstream of Ysgol Maes Garmon. The scheme was completed in October 2025.
Lead Local Flood Authority	Review condition of the ordinary watercourses and inform the riparian landowners if any issues are identified. FCC to use permissive duties and powers under the LDA and FWMA to allow flow	Ongoing – this is a part of the Lead Local Flood Authority's duties.

	via culvert entrances, watercourses and culverts are maintained to convey flows as intended.	
Natural Resources Wales	Ensure Main Rivers are inspected on a risk-based frequency and where appropriate and justifiable, a maintenance regime is documented and completed by an appropriate Risk Management Authority and/or Riparian Owner.	Ongoing - NRW continues to carry out maintenance of main river watercourses and assets, on a risk-based approach. This involves planned routine maintenance, as well as reactive work during the year. When high rainfall alarms trigger, NRW operational staff inspect and clear blocked trash screens and critical assets to help convey flood water. This service is 24/7 and all year round.
Dŵr Cymru Welsh Water	Review customer complaints and investigate the associated sections of public sewer system to remove any blockage / significant debris following the October 2023 event.	Ongoing.
Property Owners / Residents	Sign up to the free signing up to the NRW Flood Warning System and consider the implementation of property level flood resilience measures. These could include the installation of non-return valves to prevent ingress of floodwater on private drainage systems and installing flood barriers or flood doors.	www.naturalresources.wales/flooding/sign-up-to-receive-flood-warnings www.thefloodhub.co.uk/pfr

Mold Meadowside, Queens Park, Holland Cottages and Alyn Meadows Section 19 Flood Investigation Report

2023

Stakeholder	Recommendations	Action / Current Status
Highways Authority	Queens Park area - inspect the culverts beneath Cilnant, Parc Hendy and Clayton Road on a frequent basis and remove debris as required. Prepare and adopt Asset Management Plan for culvert maintenance.	Inspection is to be completed fortnightly in the winter, and monthly in the summer. Ad hoc inspections to be completed on receipt of weather warning/customer reports.
Highways Authority	Holland Cottages area - inspect the Black Brook arched bridge and upstream channel for debris and obstructions on a frequent basis and inform riparian landowners if any issues are identified.	The bridge has general inspections as well as principle inspections. On inspections any concerns over the watercourse's maintenance is passed onto the Lead Local Flood Authority to contact riparian landowners.
Highways Authority	Continue maintaining highway assets, especially in high-risk areas.	All highway assets have regular scheduled maintenance. We aim to clean all gullies on the public highway once every year, although some drains will be cleaned twice a year and on receipt of a severe weather warning, based on risk of flooding.
Lead Local Flood Authority	Meadowside area - review condition of the ordinary watercourses (culvert) and inform the riparian landowners if any issues are identified.	Completed.
Lead Local Flood Authority	Meadowside area - consider a scheme to formalise connectivity of runoff from the upstream catchment into the culverted section of watercourse.	An investigation with external consultants was commissioned and delivered to Welsh Government in March 2025.
Lead Local Flood Authority	Queens Park area - consider a scheme for replacement of the culvert inlet grilles with alternative wider grilles as to avoid impeding the flow of water.	An investigation with external consultants was commissioned and delivered to Welsh Government in March 2025.
Lead Local Flood Authority	Holland Cottages area - further investigation required to ascertain cause of flooding of the Black Brook watercourse around the Black	An investigation with external consultants was commissioned and delivered to Welsh Government in March 2025.

	Brook arched bridge.	
Lead Local Flood Authority	Communicate with local communities to raise awareness of property level flood resilience measures that can be implemented to help mitigate flood risk.	Ongoing.
Lead Local Flood Authority	Where budget allows, consider implementing flood management measures upstream of the areas impacted by flooding from ordinary watercourses / surface water.	An investigation with external consultants was commissioned and delivered to Welsh Government in March 2025.
Lead Local Flood Authority	FCC to use permissive duties and powers under the LDA and FWMA to allow free flow via culvert entrances, watercourses and culverts are maintained to convey flows as intended.	Ongoing.
Natural Resources Wales	Inspect and review the design, condition and suitability of the embankment defending land off Blackbrook Road (Holland Cottages) from flooding originating from the River Alyn to understand whether it is working as designed or if design standard was exceeded during Storm Babet. Additional works may be required.	Pending initiation - Review of asset performance to be included in future work packages for NRW. The River Alyn has been remodelled to reevaluate flood risk.
Natural Resources Wales	Ensure Main Rivers are inspected on a risk-based frequency and where appropriate and justifiable, a maintenance regime is documented and completed by an appropriate Risk Management Authority and/or Riparian Owner.	NRW continues to carry out maintenance of main river watercourses and assets, on a risk-based approach. This involves planned routine maintenance, as well as reactive work during the year. When high rainfall alarms trigger, NRW operational staff inspect and clear blocked trash screens and critical assets to help convey flood water. This service is 24/7 and all year round.
Dŵr Cymru Welsh Water	Review customer complaints and investigate the associated sections of public sewer system to remove any blockage / significant debris following the October 2023 event.	Ongoing.
Dŵr Cymru Welsh Water	Inspect the outfall arrangement of the public surface water sewer near Meadowside. Consider a formal connection to the culvert rather than discharge to land.	Ongoing.

Property Owners / Residents	Sign up to the free signing up to the NRW Flood Warning System and consider the implementation of property level flood resilience measures. These could include the installation of non-return valves to prevent ingress of floodwater on private drainage systems and installing flood barriers or flood doors.	www.naturalresources.wales/flooding/sign-up-to-receive-flood-warnings www.thefloodhub.co.uk/pfr
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Pontblyddyn Section 19 Flood Investigation Report

2023

Stakeholder	Recommendations	Action / Current Status
Highways Authority	Inspect the existing culvert inlet adjacent to Alyn Terrace, along the A541, Wrexham Road on a frequent basis and remove debris as required.	Inspection is to be completed fortnightly in the winter, and monthly in the summer. Ad hoc inspections to be completed on receipt of weather warning/customer reports.
Highways Authority	CCTV the A541, Wrexham Road culvert from the watercourse adjacent to Dingle House to the outfall at the River Alyn, to ensure the culvert is free of blockage and any significant siltation. Take remedial action as required.	Completed works on A541 opposite The Druid Inn, gullies and outlet cleaned out, with the installation of a new pipe between the gullies.
Highways Authority	Review frequency of gully cleansing in high-risk areas, for example on Alyn Terrace and Riverside Court.	We aim to clean all gullies on the public highway once every year, although some drains will be cleaned twice a year and on receipt of a severe weather warning, based on risk of flooding.
Highways Authority	Consider the implementation of traffic management plans that can be put in place when a storm event is predicted, to prevent passing vehicles creating bow waves that exacerbate flooding.	Roads can be closed by the Highways Authority, Police and/or Fire & Rescue Teams.
Lead Local Flood Authority	Communicate with local communities to raise awareness of property level flood resilience measures that can be implemented to help mitigate flood risk.	Ongoing.
Lead Local Flood Authority	Continue to manage the risk associated with local ordinary watercourses discussed in this report and inform the riparian landowners if any issues are identified.	Ongoing.
Lead Local Flood Authority	Investigate the benefits of natural flood management upstream of the A541, Wrexham Road culvert inlet, near Dingle House.	An expression of interest was submitted to Welsh Government in November 2025. Funding for a scheme in Pontblyddyn for the tributaries to the River Alyn was allocated for the 2026/27 financial

		year.
Natural Resources Wales	Ensure Main Rivers are inspected on a risk-based frequency and where appropriate and justifiable, a maintenance regime is documented and completed by an appropriate Risk Management Authority and/or Riparian Owner.	NRW continue to inspect all main river channels in and around Pontblyddyn on a risk-based regime. Any defects observed are raised in the asset management system and forwarded to relevant parties for action and/or information. There is currently a good working relationship between riparian landowners & their agent and NRW, and any defects, comments or concerns are received in a positive and productive manner.
Dŵr Cymru Welsh Water	Review customer complaints and investigate the associated sections of public sewer system to remove any blockage / significant debris following the October 2023 event. Establish if there were issues with the performance of the sewage pumping station Notably the system surrounding Hollands Terrace.	Ongoing.
Property Owners / Residents	Sign up to the free signing up to the NRW Flood Warning System and consider the implementation of property level flood resilience measures. These could include; the installation of non-return valves to prevent ingress of floodwater on private drainage systems and installing flood barriers or flood doors.	www.naturalresources.wales/flooding/sign-up-to-receive-flood-warnings www.thefloodhub.co.uk/pfr

Pontybodkin Section 19 Flood Investigation Report

2023

Stakeholder	Recommendations	Action / Current Status
Highways Authority	Inspect the existing culvert inlets along Byr Brook / Black Brook on a frequent basis and remove debris as required.	Inspection is to be completed fortnightly in the winter, and monthly in the summer. Ad hoc inspections to be completed on receipt of weather warning/customer reports.
Highways Authority	Undertake a CCTV condition survey of the culvert at the Scrap Metal Merchants yard. Take remedial action as required.	To be confirmed.
Highways Authority	Increase frequency of gully cleansing in affected areas, for example along Corwen Road.	We aim to clean all gullies on the public highway once every year, although some drains will be cleaned twice a year and up to four times a year on receipt of a severe weather warning, based on risk of flooding.
Lead Local Flood Authority	Communicate with local communities to raise awareness of flood resilience measures that can be implemented to help protect properties.	Ongoing.
Lead Local Flood Authority	Review condition of the ordinary watercourses discussed in this report and inform the riparian landowners if any issues are identified.	Ongoing.
Lead Local Flood Authority	Subject to funding, consider a scheme for flood management measures to aim to manage and reduce flood flows from Black Brook and Byr Brook.	Ongoing. Expression of interest was submitted to Welsh Government in 2024.
Dŵr Cymru Welsh Water	Review customer complaints and investigate the associated sections of public sewer system to remove any blockage / significant debris following the October 2023 event.	Ongoing.
Property Owners / Residents	Consider the implementation of property level flood resilience measures. These could include the installation of non-return valves to prevent ingress of floodwater on private drainage	www.naturalresources.wales/flooding/sign-up-to-receive-flood-warnings www.thefloodhub.co.uk/pfr

	systems and installing flood barriers or flood doors.	
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Oakenholt Section 19 Flood Investigation Report

2025

Stakeholder	Recommendations	Action / Current Status
Highways Authority & Lead Local Flood Authority	Identify the parties responsible for the ongoing maintenance of the culverts 1-4 identified on Figure 4 and communicate this with all interested parties to allow future issues to be reported and resolved.	Culvert 1: FCC (as Highways Authority) Culvert 2: Anwyl Homes Culvert 3: Anwyl Homes Culvert 4: Anwyl Homes
Highways Authority	Review the condition of 'Culvert 1' and maintain accordingly.	Completed (culvert desilted)
Lead Local Flood Authority	Contact landowners downstream to desilt open watercourse downstream of 'Culvert 1' outfall.	Completed.
All Riparian Owners	Review the maintenance regimes of the ordinary watercourse systems on site (both open watercourse and culverts).	Ongoing.
Anwyl Homes (Riparian Owner)	Continue working collaboratively on the land drainage and future SuDS for any further development of estate and undertake early engagement exercises for any new planning applications.	Ongoing.
Anwyl Homes (Riparian Owner)	Continue reviewing management boundaries and assets, clearly communicating with and updating residents and relevant authorities where appropriate.	Ongoing.
Residents	Consider forming a Flood Action Group to help prepare and manage future flood events.	N/A