

RHONDDA CYNON TAF COUNTY BOROUGH COUNCIL

COUNCIL

29th SEPTEMBER 2021

UPDATE ON FLOOD ALLEVIATION

REPORT OF GROUP DIRECTOR PROSPERITY DEVELOPMENT AND FRONTLINE SERVICES IN DISCUSSIONS WITH THE RELEVANT PORTFOLIO HOLDER CLLR MORGAN, LEADER OF THE COUNCIL.

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1. PURPOSE OF THE REPORT

1.1 This report provides members with an update on progress on Flood Alleviation measures and associated work on infrastructure since Storm Dennis.

2. **RECOMMENDATIONS**

It is recommended that Members:

2.1 Note the content of the report, the significant progress made to date and the extensive pipeline of alleviation, repair and enhancement work ahead.

3. BACKGROUND

- 3.1 This report follows the report to Council on 25th November 2020 and the report to Cabinet of 18th December 2020. Members will also be aware that on 22nd October 2020, Natural Resources Wales also published a series of reports on the flooding;
 - https://naturalresourceswales.gov.uk/february2020floods?lang=en
- 3.2 More specifically, the report to Cabinet of 18th December included a series of recommendations for which a summary update is provided at Appendix 1.
- 3.3 The extreme weather events of February 2020 caused wide ranging and extensive flooding with almost 1,500 properties internally flooded. Unprecedented damage was also caused to the civil infrastructure that sustains and supports our communities. In particular, damage to our transportation and drainage networks was extensive.

- 3.4 The Council has worked closely with Welsh Government and has secured a range of funding to both repair and replace damaged infrastructure and to continue our flood alleviation work to enhance flood assets. Funding has also been secured to address the coal spoil slip at Tylorstown tip and to undertake enhanced maintenance on tips across RCT.
- 3.5 During the 2020/21 Financial Year almost £15M of works were delivered in response to Storm Dennis, comprised as follows;
 - Almost £4.9M was secured through Resilient Roads Grant to enhance our highways network to increase resilience to flood events.
 - Over £3.5M was spent in delivering maintenance works to coal spoil tips across RCT and on the emergency works to the slip at Tylorstown.
 - Over £4M was spent on repairing damage to structures and drainage networks
 - Almost £2.3M was spent on new Flood Alleviation Schemes
- 3.6 During the 2021/22 Financial Year RCT expenditure in the areas set out above is anticipated to exceed £20M. This is in addition to the major programmes of capital investment established through the RCT Invest initiative and the annual grants for transport projects secured from Welsh Government.
- 3.7 The current situation relating to the programme of flood alleviation works and drainage repairs is set out at Appendix 2.
- 3.8 The current situation relating to repair works to damaged structures is set out at Appendix 3.
- 3.9 We continue to work closely with Welsh Government, the Coal Authority and the Tip Safety Task Force in managing tip safety in RCT and in establishing programmes of work to reduce risk.

4. EQUALITY AND DIVERSITY IMPLICATIONS / SOCIO-ECONOMIC DUTY

4.1 The report is for information only and to provide an update on activity following Storm Dennis. As a result, no Equality and Diversity impact assessment is required for the purpose of this report.

5. **CONSULTATION**

5.1 There are no consultation requirements relating directly to the report but the individual schemes will (or have) involve varying degrees of consultation.

6. FINANCIAL IMPLICATIONS

6.1 Delivery of the programme of works beyond 2021/22 is reliant on close working with Welsh Government and continued financial support to fully address all the damage caused by Storm Dennis. The Flood Alleviation work is subject to grant funding based on business case development and stage gated approvals. Resilient Roads Funding is an annual grant which has been established for 2 financial years and requests have been made to extend this grant into the future.

7. <u>LEGAL IMPLICATIONS OR LEGISLATION CONSIDERED</u>

7.1 The report provides an update on the Flood Alleviation and associated infrastructure works following Storm Dennis.

8. <u>LINKS TO THE CORPORATE AND NATIONAL PRIORITIES AND THE WELL-BEING OF FUTURE GENERATIONS ACT.</u>

8.1 This investment programme supports the Council's Corporate Plan Priority 'Places – Where people are proud to live, work and play'.

The work identified is critical to maintaining the fabric of our society and to protect our residents and businesses.

9. CONCLUSION

9.1 The events of Storm Dennis were devastating to the residents and businesses of RCT. This report highlights the physical work that is being undertaken to restore our infrastructure and to provide enhanced resilience in future storm events. The scale of damage will take several years to rectify with further works being identified on an ongoing basis as surveys and investigations continue across our extensive transport and drainage networks.

Appendix 1 Progress in response to Cabinet Recommendation of 18/12/20;

Recommendation	Related to;	Actions to date
1	Joint Working	The Council has established a Flood Board comprised of Welsh Government, NRW, DCWW and RCT with each party represented at senior level. Meetings are Chaired by the Leader of the Council and take place quarterly with updates from each party provided, activities are coordinated and roles and responsibilities are clearly understood.
2	High Level Review of Flood Risk	The FRM team has reviewed Flood Risk on the basis of the new Flood Risk Assessment Wales maps and the experience of Storm Dennis and is developing a number of Strategic Flood Alleviation schemes to address the strategic risks. These schemes will look at entire catchment areas and develop a set of strategic proposals to reduce flood risk in these areas.
3	Flood Support Team	These proposals were included in the report to Cabinet of 21 st September and also covered in this meeting of Council.
4	Self-help and local measures	These proposals were included in the report to Cabinet of 21 st September and also covered in this meeting of Council and involve the introduction of drainage by-laws, additional enforcement resources. A scheme of Property Level Protection measures has been rolled out to provide residents with flood gates and flood sacks to def3nd their properties against flooding.
5	Emergency Planning – community response	We have completed a draft plan and list of potential premises suitable and available for use as local Community Response Centres for consideration by SLT, prior to the start of more detailed negotiations.

6	Infrastructure Maintenance and Enhancement	Completed, ongoing and pipeline projects are set out in the appendices to this report.
7	Remote Monitoring and Links to the new Control Room	All existing camera and alarm systems have been linked up to the new Control Room at Ty Elai and can be monitored remotely in real-time. A package of additional cameras and alarms has been secured and this is in the process of being installed. This system will also include cameras to observe river flows.
8	Communications	The establishment of the Control Room will enable an integrated team to be established to respond to events and to provide effective communications.
9	Pluvial Drainage Teams	A Drainage Manager has been appointed to lead on Pluvial Drainage Maintenance with a team established in each depot. A long-term contract has been let to secure the full-time services of a dedicated Vactor machine together with specialist CCTV survey team to cleanse and survey our drainage networks. In addition, specialist gulley cleaning gangs were contracted to the Council over the summer to support an initiative where members of the public could submit requests to clear blocked gullies. This effectively clears a backlog enabling our existing crews to focus on scheduled maintenance.
10	Information for Flood Victims and S19 Reports	Three of nineteen S19 reports have been published. Two have been considered by Overview & Scrutiny. Others are progressing, several reports where Fluvial flooding is prevalent will be shared with NRW for comment and consideration in the coming weeks. An additional resource to support flood awareness is proposed in a separate report being considered by Council.
11	Environmental Strategy	Climate Change Cabinet Steering Group continues to make progress on the Climate Change Strategy with public engagement taking place through a wide ranging Climate Conversation – "Let's talk Climate Change RCT"

Appendix 2

Overview of FRM Projects being delivered by the Strategic Projects Service area – Sept 2021

Summary

Category	Number of Projects	Additional Since last Report	Construction Phase	Completed
Flood Risk Management - Major Schemes. (WG 2021/22 pipeline £2.85m)	12	N/A	2	0
Flood Risk Management – Schemes – SOC "in Development"	9		N/A	
Flood Risk Management - Small Schemes (<£150k) (2021/22)	12	N/A	3	4
Flood Risk Management - Small Schemes advanced preparation (For 2022/23)	0	N/A	N/A	0
Resilient Road 2021/22	20	N/A	2	3
Emergency Repairs >£10k (Storm Dennis/Christoph)	6	N/A	0	2
Total 2021/22 "live" Projects	59	N/A	7	9 (+)

Flood Risk Management - Major Schemes - Pipeline

Project	Brief Description	Benefits	Value	Current Status	Est Completion (pipeline)
Nant Gwawr (Phase 2)	Flood Alleviation Scheme	Increased standard of protection to Approx. 62 properties.	Not Known	Grant application required for OBC development	On WG Pipeline (£50k) - OBC 2021/22 2022/23
Oaklands Terrace, Cilfynydd	Flood Alleviation Scheme	Increased standard of protection to Approx. 78 properties	Not Known	Grant application required for OBC development	On WG Pipeline (£60k) - OBC 2021/22 2023/24
Park Lane Aberdare	Flood Alleviation Scheme using overland flow and natural attenuation areas.	Increased standard of protection to Approx. 31 properties	£530k	Substantially complete Landscaping to follow on Spring 2021	Spring 2020/21
Treorchy FAS - (Phase 1) Cemetery Road	Flood Alleviation Scheme. Phase 1 - diversion/upgrade of culverted watercourse	Increased standard of protection to Approx. 236 properties	£650-750k	BJC being developed. Preliminary Design ongoing VO Granted Delays on D&D Phase 1 - £300-400k.	On WG Pipeline (£750k)- Construction 2021/22
Treorchy FAS - (Phase 2) - Column Street	Flood Alleviation Scheme	Increased standard of protection to Approx. 236 properties	Not Known (£2-3m)	Application for Grant being prepared for FBC/D&D. Cost increased	On WG Pipeline (£100k)- D&D 2021/22 2022/23
Cwmaman Phase 2	Flood Alleviation Scheme Phase 2 - Reduction in peak flows through upper catchment management and traditional methods	Increased standard of protection to Approx. 20 properties	£300-400k	Application 3 Aug 21 for D&D costs. Still queries being dealt with from WG	On WG Pipeline (£400k)- Construction 2021/22

Project	Brief Description	Benefits	Value	Current Status	Est Completion (pipeline)
Glenboi Road – Mt Ash	Options to manage the highway drainage and exceedance flows from the ordinary watercourse.	Increased standard of protection to Approx. 24 properties	£1m -1.2m	Design and Development (Redstart) ongoing Detailed Design and Delays due to service diversions and issues with design. Tenders out. Dedicated Substation required (4 Months) Advanced works in Oct 21	On WG Pipeline (£850k) - Construction Winter 2021/22
Pentre FAS	Flood Alleviation Scheme	Increased standard of protection to Approx. 400 properties	£3-4m	OBC development (RPS) Being integrated with DCWW and NRW assists. Ongoing. Complex network being built Catchment check completed. Delays to modelling	On WG Pipeline (£353k) – D&D 2021/22 2022/23
Nant Ffrwd Culvert – Flood Routing	Flood Alleviation Scheme	Increased standard of protection to Approx. 18 properties	£300-400k	SOC being developed (Redstart) – May 2021 SOC Draft report received. Looking at some minor works in advance.	On WG Pipeline (£40k) – D&D 2021/22
Bronallt Terr – Phase 3	Flood Alleviation scheme – upland storage.	Increased standard of protection to Approx. 40 properties	£300-£400k	BJC submitted to WG (Est £300-350k) D&D grant received, GI completed "Landfill" materials hit. Could have serious consequences on the project. At least 1-2 months delay	On WG Pipeline (£250k) - Construction 2021/22

Project	Brief Description	Benefits	Value	Current Status	Est Completion (pipeline)
Property Flood Resilience (PFR)	"loan" of interim PFR measures.	Increased standard of protection to Approx. 230+ properties	£230k	Delivery Preparation – 347 letters sent out. Deadline 11 June 2021 for return. 18 Added after floods in Tylorstown Equipment due for delivery by end of Sept	2020/21 (new project (extension for 2021/22)
Pentre Road Inlet	New Inlet with 2 x overflow system and debris catcher	165 properties.	£400-500k	Ongoing delays due to rock and slow progress. Main inlet completed. Finishing works to periphery	Sept 2021/22

Flood Risk Management - Schemes - "in development" (not currently on WG Pipeline or allocated to funding stream)

Project	Brief Description	Benefits	Dev Money Req	Est Project Value	Current Status	Est Completion (pipeline)
Cardiff Road FAS (Aberaman)	Flood Alleviation scheme – upland storage and routing.		£5k	£300-400k	SOC development. Concept Design Completed.	NEW project for Pipeline. Likely 2022/23
Tuberville Road – FAS (Porth)	Flood Alleviation Scheme – overflow culverts and storage	May be difficult on Residential. Maybe need to map flooding. Maybe RRF as effects road	£10k	£200-350k	SOC development. Concept Design Completed.	NEW project for Pipeline/RRF. Likely 2022/23
Cefn Pennar Road - FAS	Upper catchment storage of flood water reducing peak flows to network	Currently system predicted to flood at 700m3.	£5k	£200-300k	SOC development. Concept Design completed.	NEW project for Pipeline. Likely 2022/23
Trehafod FAS	SW network capacity/Storage	Properties. Working in calibration with DCWW (pumping station)	£20-30k	£400-500k	SOC development.	NEW project for Pipeline. Likely 2022/23
Afon Cynon/Wellington St FAS	Upper Catchment Flood Storage by Ysguborwen House	Reduction in flows to Cynon via upland storage.	£10k	£100-200k	SOC development.	NEW project for Pipeline. Likely 2022/23
Cwmbach Canal FAS	Flow control on Canal, enhanced flood storage and upgrades for downstream watercourse	Need to quantify. TfW flooding (rail contribution?)	£10-20k	ТВА	Initial Concept/scope	NEW project for Pipeline. Likely 2022/23
Cwmbach Under pass	Additional pump capacity required	School route not flooded	£10k	£40-50k	Initial Concept/scope	NEW project likely Core RCT funding
Ferndale/Tylorstown	Flooding to Properties and commercial	9 residential 10+ commercial	£25k	ТВА	Asset Surveys underway and consultant proposal under review. 18 Residential offered interim PFR.	

Peat Bogs Restoration	NFM for peat bog restoration	£10k	Initial scoping and meetings being held with RCT countryside and	
			NRW	

Flood Risk Management - Small Schemes for (2021/22)

Project	Brief Description	Benefits	Value	Current Status	Est Completion
Mt Ash A4059 Upper catchment scour	Repair and armouring/improvement of the scoured sections of the Ordinary Watercourse Channel and debris control		£150,000	In construction	2021/22
Victor Street - inlet	Replacement and upgrade of inlet with overflow arrangement (if Possible). Channel upgrades/capacity.		£50,000	In construction, nearing completion	2021/22
Pentre (Volunteer St) FAS (Advanced Works - Lower Nant y Pentre culvert)	Installation of an exceedance flow path on the lower section of the Nant y Pentre culvert, with debris control and some attenuation.		£150,000	Detailed Design ongoing GI out to tender	2021/22
Heath Terrace	Repair and armouring of the scoured sections of the Ordinary Watercourse Channel and replacement of two number ordinary watercourse inlet headwalls and debris screens.		£150,000	Detailed Design under Review prior to Tender. Tender WC13/9/21	2021/22
Tyn-Y-Wern	Lining of a structurally weakened ordinary watercourse culvert and rebuild of several Manhole structures.		£125,000	Completed	2021/22
Standard View	Lining of a structurally weakened ordinary watercourse culvert and rebuild of several Manhole structures.		£100,000	Completed	2021/22
Cefn Pennar Road	Culvert Inlet Upgrade		£50,000	Completed	2021/22
Tirfounder Road, Cwmbach	Upgrade of the ordinary watercourse culvert inlet with an enlarged headwall and debris screen structure and repair to the channel scour		£100,000	Difficulties with access, preliminary design options/scope being developed. Likely to target Scour. Amey Appointed through SEWTAPS	2021/22

Project	Brief Description	Benefits	Value	Current Status	Est Completion
Nant Cae Dudwg	Repair and armouring of scoured sections of the ordinary watercourse channel and replacement of damaged debris screen and channel base		£75,000	Detailed Design under Review prior to Tender incl. of repairs	2021/22
Mostyn Street	Rebuild of Culvert Inlet with inclusion of a debris platform/catchpit. Replacement of culvert The works will also re-channel the ordinary watercourse channel upstream of inlet.		£125,000	Detailed Design under review. Tender Oct 21	2021/22
Cross Street	Upgrade works to a number of surface water outfall structures which will be supported by an outfall control device intended to support the relative free discharge of the surface water drainage infrastructure and avoid hydraulic locking.		£15,000	Within Structures contract. In construction	2021/22
Fernhill Inlet	Upgrade of existing inlet		£15,000	Completed	2021/22

Resilient Road 2021/22

Project	Brief Description	Work	Value	Current Status	Est Completion
Cwmbach Inst Estate, Canal Rd	Flood Alleviation Scheme using overland flow and flood routing to increase capacity in existing system.	Increased standard of protection to Approx. 69 properties	£300k	Construction Phase Delays due to services Increase in costs. Nearing completion of drainage works plus additional fencing.	Mid Oct 2021
A4059 Aberdare Bypass (CV1)	Improvements to the main culvert inlet to improve capacity and manage surface water flows from the highway	Design & Construction	£50k	Scoping	2021/22
Aberdare - Asda Roundabout (CV3)	Raising of the road by 200-400 mm to avoid flooding onto the highway (1km)	Construction	£750k	Completed	July 2021/22
Bronallt Terrace - Phase 3 (CV5)	Replacement of defective masonry culverted ordinary watercourse conveying through Bronallt Terrace highway	Construction	£180k	Completed	2021/22
A4061 Rhigos Road (CV6c)	Upsizing of culvert/overflow culvert to improve the capacity of the network to manage surface water flows from the highway	Construction	£650k	Current discussions ongoing with BT/WPD. Orders placed	2021/22
Abercynon - Mt Ash (CV8)	Further treatment works to the low point within the verge area required to add capacity and manage the low spot flooding.	Design & Construction	£125k	Investigation works ongoing Very complex and at least 2 buried	2021/22

				manholes 75% full of silt found on lines. Slow work.	
A4059 Hirwaun Road (CV9)	Upsizing of culvert to increase and improve capacity of highway drainage network	Design & Construction	£25k	Scoping Most work being carried out by A465 in next 12 months	2021/22

Project	Brief Description	Work	Value	Current Status	Est Completion
Bwllfa Road, Cwmdare (CV10)	Upgrade works to improve the capacity of the highway culvert network	Design & Construction	£75k	Scoping	2021/22
Cynon Valley Monitoring Stations	Further expansion of telemetry monitoring equipment to be installed at various locations across the Cynon valley	Construction	£30k	Installation commenced	Oct 2021/22
A4058 Tonypandy - Porth (RV3&4)	Remedial works to renew pipelines, investigate land drainage and increase gully connections to improve the capacity of the A4058 highway drainage network from Tonypandy to Porth	Construction	£100k	First phase completed on site 2nd phase in scoping	2021/22
A4119 Bypass Ynysgrug - Tonypandy - Coedely (RV7)	Upgrading the A4119 highway drainage to improve the capacity of the network	Construction	£100k	Scoping	2021/22
A4058 High Street, Treorchy (RV8)	Upgrades to the carrier line and improvement works to the highway drainage network	Design & Construction	£125k	DCWW determining capacity of PS. RCT to design system for Q100 +CC and then throttle to DCWW limit.	2021/22
A4058 Pentre Road (RV9)	Improvements to the highway drainage of surrounding streets to intercept the overland flow routes and alleviate flooding to the A4058	Design & Construction	£50k	Volunteer St - Design Pentre Rd – <u>Completed</u>	July 2021/22
A4061 Abertonllwyd Street (RV10)	Improvements to the highway drainage of surrounding streets to intercept the overland flow routes and alleviate flooding to the A4061	Design & Construction	£100k	Scoping	2021/22
B4278 Pontypridd Road (RV11)	Improvements to the highway drainage include the installation of additional gullies to improve the capacity of the B4278	Construction	£20k	Construction	2021/22
B4278 Cemetery Road, Porth (RV12)	Replacement of the existing highway drainage with a super gully/catchpit to improve the capacity of the drainage network	Construction	£25k	Construction	2021/22

Project	Brief Description	Work	Value	Current Status	Est Completion
A4093 Blackmill Road, Hendreforgan (RV13)	Increase the capacity of surface water drainage to the Blackmill Road	Design & Construction	£75k	Scoping	2021/22
Rhondda Valley Monitoring Stations	Further expansion of telemetry monitoring stations to be installed at various locations across the Rhondda valley	Construction	£30,000	Installation commenced	Oct 2021/22
B4278 Llwyncelyn Road (RV14)	Recovery works to stabilise the embankment and improve ground water drainage to avoid further flooding impacts to the highway	Design & Construction	£250,000	Structures Team	2021/22
Margaret Street, Pontygwaith (RV15)	Recovery works to stabilise the hillside and improve ground water drainage to avoid further flooding impacts to the highway	Design & Construction	£550,000	Structures Team	2021/22

<u>Flood Risk Management – Emergency Repairs (2021/22)</u>

Project	Brief Description	Benefits	Value	Current Status	Est Completion
Upper Allen St	Repair and armouring/improvement of the scoured sections of the Ordinary Watercourse Channel.		£60k	Completed	2021/22
Lower Allen St	Repair and armouring/improvement of the scoured sections of the culverted Ordinary Watercourse Channel		£20k	Completed	2021/22
Nant Y Frwd	Retaining Structure Temp Repairs		£30-50k	Scoping works	2021/22
Cwmbach – Tir founder fields outfall	Dredging existing ditches filled up due to storms.		£40k	To be completed as a VO to Cwmbach Phase 2 (Calibre), Quote agreed. Commencing late Sept 21	2021/22
Nant Cae Dudwg	Repairs to damage to debris catcher/reno mattresses	14 properties	£30k	To be tendered with small scale scheme.	2021/22
Hawthorn Terr	Repairs to flood wall (unknown ownership) at rear of properties	10-20 properties.	£130k	D&D awarded to Redstart. Access issues. Remaining scope Tender Oct 21	2021/22

Appendix 3

Storm Dennis

Lists all Storm Dennis projects and status with comment - note estimated **costs are under review** with the expectation that costs will escalate due to sharp rises in labour and material costs and availability

		Est			
Storm Dennis Schemes		£k	Status	Anticipated Year	Comments
Hopkinstown Wall	Pontypridd	40	Complete		
Sion St Wall	Pontypridd	70	Complete		
Berw Rd Wall	Pontypridd	40	Complete		Further inspection commissioned
Tramway Culvert	Aberdare	200	Complete		
Ynysangharad Park Cable Stay	Dontypridd	500	Complete		
Blaencwm River	Pontypridd	300	Temporary traffic	Ph1 20/21	Phase 2 on site
Wall	Blaencwm	150	mgt in situ	Ph2 21/22	Thase 2 on site
Penydarren				2021/22 to	Contract awarded – completion anticipated summer
Tramroad Bridge	Aberdare	500	Works stage	2022/23	2022
Ynyshir					On site
Community Route	Ynyshir	250	Design stage	2021/22	
Footbridge on					Ordered with EDS, FRAP in place. Work to be
FP72	Ynysybwl	15	Awarded	2021/22	completed by end of September.
Mill Farm			Commissioning		
Footbridge	Ynysybwl	25	stage	2021/22	
Gelligaled Park					In design, planned for tender in January
Bridge	Ystrad	250	Design stage	2022/23	
Nant Clydach					
Bridge	Ynysybwl	50	Design stage	2021/22	
Gelli Culvert	Gelli		Design stage	Depends on scope	Inspection undertaken

			Ph1 complete Ph 2 Design	Ph1 20/21 Ph2	Phase 2 in design stage – will be 2022/23
Pontypridd Rd Wall	Porth	70	stage	22/23	
Campbell Tce Culvert	Mountain Ash	150	Design stage	Emergency repairs completed	Final report updated and circulated.
Maindy St Bailey St Canning St	Ton Pentre	150	Emergency works complete	20/21 and 21/22	Scope of repairs to be developed
Feeder Pipe Bridge	Abercynon	300	Design ongoing	22/23	Meeting with SCAPE August 2021 to discuss project. Brief to be sent to SCAPE shortly.
Berw Rd Bridge	Pontypridd	100 0	Feasibility/ Design stage	21/22 22/23	Opened August 2021; Trial repairs from CRL awaiting Listed Building Consent.
Castle Inn Bridge	Treforest	400	Design stage	22/23	Detailed design progressing; awaiting NRW river model in order for Listed Building Consent to progress
Heol y Bwnsi Culvert	Upper Boat	50	Design stage		No further work needed
Tonypandy River Wall	Tonypandy	250	Design stage		Design progressing, works 2022/23
Nant Gelliwion Bridge	Pontypridd	200	Design stage		Brief commissioned
Tynybryn F/B & Culvert	Thomastown	200	Ph1 Complete Ph2 Design stage	Ph1 20/21 Ph2 22/23	Phase 2 will be 2022/23 - brief being drafted to send to SCAPE
Hopkinstown River Wall	Pontypridd	150	Design stage	22/23	No tenders returned – to be reviewed for 2022/23
Maerdy Mountain Landslip	Maerdy		Design stage	21/22 and 22/23	Works to wall summer holidays 2021/22 completed
Gyfeillion Wall	Hopkinstown		Design stage	22/23	
Mill Road Culvert	Ynysybwl		Design stage		Lining being considered
Llanwonno Road Culvert	Ynyshir				Repairs being taken forward by FRM/Strategic Projects

Miskin River			Scour repair complete 2021/22
Bridge	Pontyclun		·
Llanwonno river			Works complete 2021/22
Bridge	Ynyshir		
Maindy Arch			Works complete 2021/22
Bridge	Ynyshir		
Penrhiwceiber			Cut water repair
River Bridge	Penrhiwceiber		
Victoria Bridge			Works complete
Precinct	Pontypridd		
Merlin Bride	Pontypridd		Scour repairs complete
Cross Street			Works ongoing
Retaining wall	Ynyshir		
Blaennantygroes			Works complete
Culvert	Cwmbach		
Gelli Park River			Scour repairs/Replacement
Wall (RCT Owned)	Gelli	Inspection	
Treorchy River			Scour repairs
Walls (RCT Owned			
Riverside			
Terrace))	Treorchy	Inspection	
Brook St River			Repairs in Design Stage
Wall	Porth	Design stage	
Treferig House FB	Llantrisant	Design stage	Repairs in Design Stage
Maes-y-Ffynnon			Works planned for October 2021
FB	Graigwen	Design stage	
Afon Dare Culvert	Aberdare	Complete	Works complete for September 2021
Pantybrad			Works planned for October 2021
Footbridge	Llantrisant	Design stage	