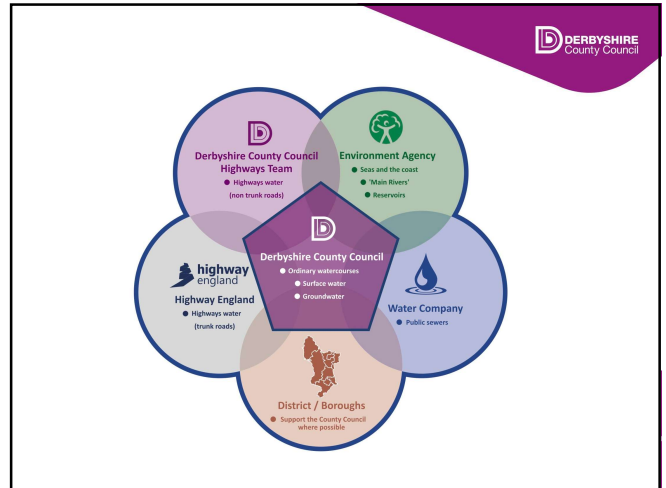


DERBYSHIRE
County Council

Parish Forum 15th October 2024 Flood Risk Management

Richard Ward – Senior Project Engineer (Derbyshire County Council)

1



2

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THE 'LEAD LOCAL FLOOD AUTHORITY' (Floods and Water Management Act 2010)

Key responsibilities as an LLFA

- Develop, maintain apply and monitor a local flood risk management Strategy.
- Duty to Investigate "local" flooding incidents.
- Duty to maintain a register of assets, which have a significant effect on flood risk.
- Statutory consultee for surface water drainage matters, for major Development.
- Power to consent works on ordinary watercourses.
- Power to designate structures or features that affect flood risk
- Promote and deliver flood mitigation schemes

3

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Flood Guidance Statement Thursday 19th October 2023

First Tactical Command Group (Silver Command) held on 19th October 2023

- DCC
- Environment Agency
- Water Companies
- Met Office
- Districts/Boroughs
- Emergency Services
- National Grid
- Highways England

4

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Record Rainfall

- Unprecedented rainfall from Storm Babet
- Overall 3rd wettest 3-day period on record in England and Wales (since 1891)
- Record rainfall in Midlands: 67.2mm from 18-20 October 2023
- Large areas in the Midlands received more rain in 4 days than the whole months average rainfall

5

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Record River Levels

Location of gauge	River	Oct-23	Feb-22	Nov-19	Nov-00	Jun-07	Dec-65
Trent Catchment							
Yorkshire Bridge	Derwent	2.62	2.21	2.304	2.291		
Milham Bridge	Derwent	2.28	4.41	4.04	4.004		
Chatsworth	Derwent	4.75	5	4.124	4.707		
Matlock	Derwent	4.17	4.6	4.791	4.62		5.1
Derby St Marys	Derwent	3.53	3.2	3.349	3.192		
Church Wille	Derwent	2.22	2.46	2.511	2.515		
Boford in the Water	Wye	1.33		1.11	1.06		
Kingfield Park	Amber	2.25	1.45	2.76	2.72	2.86	
Buffield	Scotterbourne	2.13	1.38	1.90	1.73	1.45	
Smithy Houses	Bottle Brook	1.90	1.18	1.27	1.23	1.45	
Pinxton	Frewash	2.64	1.44	1.70	1.91	2.52	
Shipley Gate	Frewash	3.23	3.05	3.05	3.04	3.08	
Sandlance	Frewash	2.69		1.98	1.60	2.10	
Don Catchment							
Chesterfield	Hipper	2.78	1.01	1.18	2.51	2.76	
Chesterfield - Park Road Bridge	Hipper	2.93	1.42	2.00		2.80	
Chesterfield - St Augustines	Rothe	3.10	1.79	2.19		2.99	
Tapton Bridge	Rothe	3.42	2.05	2.63		3.09	
Whittington	Rothe	4.76		4.93	3.37	4.26	
Robrite	Holme Brook	1.59	1.05	1.25		1.26	
Calow Lane	Slow Brook	1.41	1.07	1.24		1.39	

6



7



8



9

Response

- Multi-Agency Response to the event. (TCG/SCG running for 6 days)
- 56 Flood Warnings issued and 3 Severe Flood Warnings.
- Significant Impacts across Derbyshire, with a total of 1675 properties/business's flooded internally, along with over 70 road closures.
- Major incident declared in Derbyshire on the 20th October 2024.
- 6 rest centres set up across the County.
- DCC had over 100 staff involved in the ground response during the course of Storm Babet – closing roads, inspecting structures, delivering sandbags, pumping out water etc.
- Several communities in the County had to be evacuated with over 250 homes in Sandiacre alone.
- Ladybower Reservoir water levels lowered to provide flood storage.
- Pumping Stations operated in Matlock, Shardlow and Long Eaton.
- Approximately 7,000 properties protected by existing flood defences.

10

Impacts

- 1675 Properties and business's in Derbyshire were internally flooded during Storm Babet, which is unprecedented in recent history.
- Roads were flooded (some for several days) gridlocking towns and villages, and in some cases isolating communities completely.
- Significant damage to the highway and some of our structures (culverts/bridges etc), also causing or exacerbating landslips across the County.
- Majority of properties that were flooded, people have had to move out into temporary accommodation or families and friends.
- The emotional and mental impact a flood can have on those affected, cannot be underestimated.
- Economic impact to Derbyshire would have been significant.
- Tragically, the floods resulted in 1 fatality.

11

Recovery

- Strategic Recovery Group set up by DCC with Districts/Boroughs and other key partners, to manage communications and grant funding, made immediately available to those affected.
- Some 450 DCC structures (bridges, culverts, etc) were inspected after the event, some of which had significant damage. Estimated damage to these structures is approximately £1m.
- Repair works carried to the carriageway and other highway drainage assets. Current cost circa £50k.
- To date, over 200 site visits to flood affected communities, have been conducted by the DCC Flood Team (with other RMA's as well), and this will continue for many months to come. Around 550 enquiries have been submitted to the Flood Team alone, since Storm Babet.
- DCC Flood Team are currently managing the Property Flood Resilience Repair Grant Scheme (500 applications in total, 327 post installation surveys completed).
- DCC Flood team completed a Section 19 Flooding Investigation, which is a requirement of the LLFA under the Floods and Water Act 2010, and this is currently out for public consultation.
- 7 Multi-Agency drop-in sessions have been carried out around the County.

12



13

Next Steps

- The Section 19 flooding investigation will form a basis to develop, plan and prioritise where and how future flood mitigation can be delivered for communities.
- Communities affected will need to be assessed and prioritised, based upon risk, deliverability, cost benefit, deprivation etc, as the reality is, we will not be able to provide flood mitigation for every community in Derbyshire. Availability of funding is a key factor.
- Implementation of any potential "quick wins"
- Ongoing collaboration and partnership working will be key, if Derbyshire is to be successful in reducing flood risk around the County.
- Communities need to become more resilient to flooding, and to a certain extent, be able to support themselves in both dealing with, and recovering from future flood events.

14

Work in Progress

Collaborative/Partnership Schemes and Initiatives

- River Hipper Flood Alleviation Scheme (EA)
- Derbyshire Property Flood Resilience Scheme (EA)
- Ilkeston and Melbourne Schemes (STW)
- Derwent Natural Flood Management Scheme (EA)

DCC Schemes/Initiatives

- Highway Drainage Capital Programme
- DEFRA Property Flood Resilience Grant
- Small programme of flood mitigation schemes
- SuDS for Schools

Other core work streams

- Flood Warden Groups
- Communication and education
- Community engagement initiatives
- Land Drainage Consenting
- Planning Consultations
- Ongoing Investigatory works and maintenance (RMA's and private landowners)

15

Parish Councils - what can you do to help?

- Be aware of the flood risk in your community.
- Encourage those in flood risk areas to sign up to the Environment Agencies flood warning service
- Flood Warden Groups
- Reporting any known issues (Blocked highway gullies, rivers etc)
- Community Flood Plan
- Training, Education and Engagement.

All of the above will help in building resilience within your community. Although DCC, Districts and Boroughs and other agencies will continue to provide as much support as possible, to mitigate future flood risk, we can't deliver everything, and need your valued support as well.

16

Ongoing and Future Challenges

- Climate change is here to stay, and we will continue to see an increase in flooding events across the County.
- Building higher, wider, longer flood defences to reduce all flood risk isn't sustainable or efficient in the long term.
- Funding.
- Managing expectations.

17

Questions ?

Useful Links :-

- <https://www.gov.uk/check-long-term-flood-risk>
- <https://www.derbyshire.gov.uk/council/have-your-say/consultation-search/consultation-details/section-19-flooding-investigation-consultation.aspx>
- <https://www.derbyshire.gov.uk/environment/flooding/flooding.aspx>
- <https://www.derbyshire.gov.uk/transport-roads/roads-traffic/road-maintenance/flooding/flooding-drainage-and-gullies.aspx>
- <https://nationalfloodforum.org.uk/>

18