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DATE: 13 March 2018

OUR REF:

YOUR REF:

Dear Councillor

**ENVIRONMENT AND REGENERATION OVERVIEW AND SCRUTINY COMMITTEE -
TUESDAY, 20TH MARCH, 2018**

I am now able to enclose, for consideration at next Tuesday, 20th March, 2018 meeting of the Environment and Regeneration Overview and Scrutiny Committee, the following presentation that was unavailable when the agenda was printed.

Flood Risk Management Update 2018 (Pages 3 - 18)

Yours sincerely

Scrutiny Officer

Encs

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Flood Risk Management Update 2018



Environment & Regeneration Overview
and Scrutiny Committee

Meeting 20th March 2018

Paul M. Reeves - Flood Risk Manager

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Quick Reminder - Background

- Summer Floods 2007 - significant impacts
- Independent Review by Sir Michael Pitt
- Pitt Review - over 100 recommendations
- Led to legislative changes – The Flood and Water Management Act 2010
- New Duties and Responsibilities for Lead Local Flood Authorities (LLFA`s)
- Annual Update March 2018

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Sir Michael Pitt Review 2007 Floods

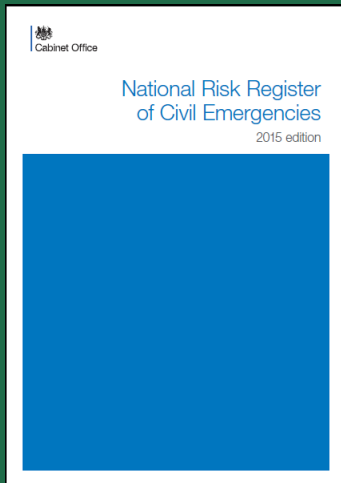


“the role of local authorities should be enhanced so that they take on responsibility for leading the co-ordination of flood risk management in their areas”



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Flooding – A National Priority



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Flood and Water Management Act 2010 – Principal Duties

- Delivery of Local Flood Risk Management Strategy
- Duty to Investigate **Significant** Flood Incidents
- Consent and Enforcement Powers :
 - EA to continue with Main river and the Sea
 - **LLFA now responsible for all other sources including ordinary watercourses, surface water, groundwater**
- Powers to Designate Features/Make byelaws
- Sustainable Drainage Systems (revised **LLFA statutory consultee arrangements from April 2015**)
- Required to Maintain an Asset Register

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Flood Risk milestones 2017/18

- Recent milestones in the **Flood Risk Regulations** cycle are:
- Review and updating of Preliminary Flood Risk Assessment (PFRA) by **December 2018**
- Publication of Flood Risk Management Strategy **November 2017**
- Completion of statutory duties under FWMA 2010 & LDA 1991

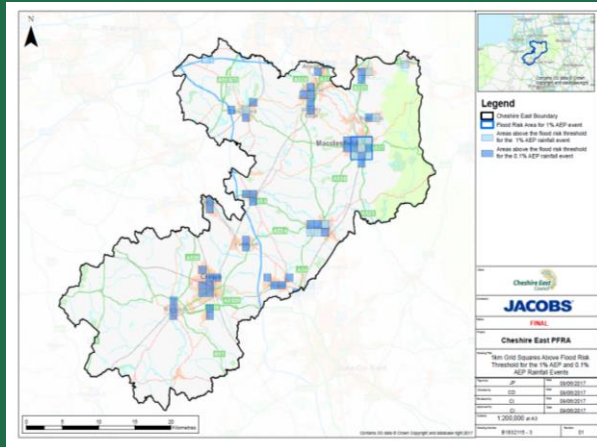
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PFRA Update 2017

- PFRA Updated Summer 2017
- Identification of a new Flood Risk Area: Macclesfield
- Reviewed and approved by EA Dec 2017



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Strategy Approval and Adoption by CEC Nov 2017

Cheshire East Council unveils strategy for managing flood risk across the borough

15 December 2017

Residents and businesses can find out how Cheshire East Council and partner agencies will deal with any threat of flooding in the future - following publication of the authority's flood risk management strategy.

As a lead local flood authority, the council's responsibilities are outlined in the [local flood risk management strategy](#), which identifies measures to be undertaken by all partners, including residents, to reduce the risk of flooding in Cheshire East, to protect homes, businesses and other infrastructure.

The strategy increases awareness of flood risk in the borough, from surface water, groundwater and watercourses. It also aims to reduce the impact of flooding and increase resilience in the community.

Councillor Don Stockton, cabinet member for environment, said: "This strategy is our statement of intent as to how we will manage flood risk in Cheshire East. We hope it will help our residents and businesses to become better informed about our responsibilities as a local flood authority and how we can all work together to mitigate flood risk and to manage any emergencies."



The council has finalised its strategy using feedback from residents following a public consultation carried out in August and September. Responsibilities include the recording and investigating of incidents of 'significant' flooding and identifying structures and features which could have an effect on flood risk.



http://www.cheshireeast.gov.uk/highways_and_roads/highway-services/flood-risk-management/flood-risk-management.aspx

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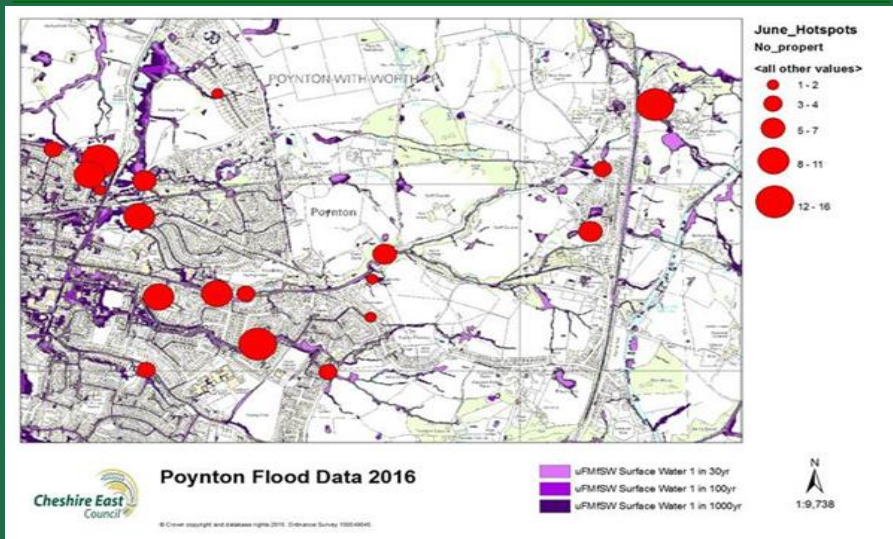
Flood Investigation Duties

- 92 Accounts of flooding reported to and investigated by the CEC in 2017/18
 - Collaborative working
 - PLP advice
 - CEH schemes
- Section 19 Flood Investigation: Poynton 2016

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Poynton Flood 2016



Poynton Flood Data 2016

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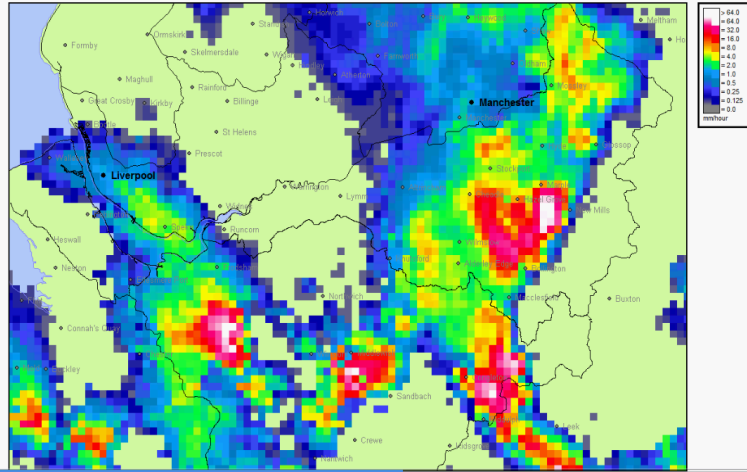
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Severe Weather - Rainfall



Observation - rain-rate (H17)



14:45 GMT Sat 11-Jun-2016

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Poynton - June 2016 Impact




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Poynton Nursery



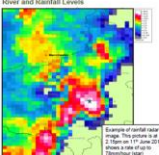

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Multi Agency Emergency Response and Post event Collaboration with Partners



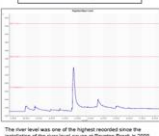
Poynton Flooding - June 2016

River and Rainfall Levels



Example of rainfall over the period of 2.1mm on 17 June 2016 (from a nearby weather station)

Recorded rainfall
43.2mm of rain within 2 hours - this is compared with a 35mm average for the month of June 2016 (figures from nearest Grove Weather Station)



The near level was one of the highest recorded since the installation of the river level gauge at Poynton Brook in 2006.

Types of Flooding

- Rivers - have overflowed their banks
- Surface water - water flows over land before reaching a river, or it backs up in drains because rivers are high
- Groundwater - seepage through the ground
- Sewers

The Environment Agency deal with flooding from rivers, Councils deal with some smaller watercourses, surface water and groundwater and United Utilities are responsible for the sewers. Landowners have responsibilities too.

Flood Impacts

From the reports received we understand that overland flow came from higher ground and cascaded through the residential areas overwhelming an ordinary watercourse which runs through the area. Approximately 40 properties suffered internal flooding and a further 40 properties experienced flooding to gardens and unoccupied areas.

Properties were affected on:

- Village Lane
- Waterside Road
- Elm Close
- Middlefield Road
- Moulden Close
- Cherry Tree Ave
- Chamber Road
- Park Lane
- Orchard Close
- Elton Close
- Wheatley Close
- South Park Lane



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Poynton Post Event Actions

- Flood Investigation
- Section 19 report
- Strategic study undertaken by Jacobs
- CEH highway repair works
- UU drainage repair works
- Collaborating with UU and CEH to undertake both future improvements and PLP schemes
- EA FDGiA funding allocation
- EA Quick win for Anglesey Drive

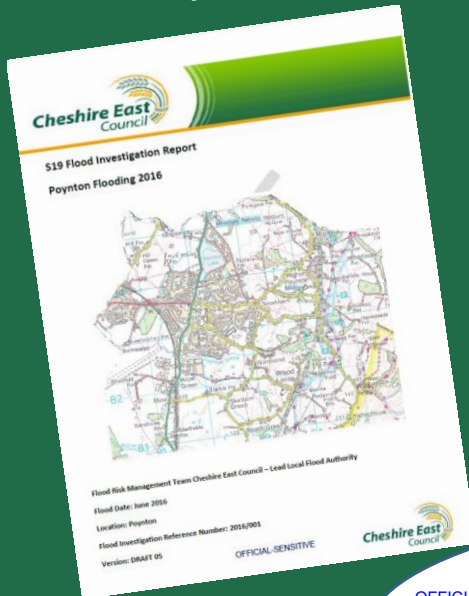
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Middlewood Road



S19 Poynton



- Data analysis
- Resident visits
- Consultations with EA, UU and others
- Identification of hotspots
- Role of CEC Highways
–Importance of Multi Agency Emergency Response

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Strategic Study - Poynton



- Consultants to deliver strategic study for Poynton
- High level definition of flood source and mechanisms
- Site walkover
- Identification of opportunities and constraints
- High level economic analysis
- Completion of report and FCERM 7 form
- 30th March 2018

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Defra FDGiA and Local levy Programmes

North West Flood and Coastal Risk Management (FCRM)
2018-2021 Investment Programme
Cheshire Strategic Partnership Annexe 1

Scheme Title	Responsible LLFA	Homes to be better protected			Total homes to be better protected
		2018/19	2019/20	2020/21	
Newcastle Road, Congleton	Cheshire East Council			14	14
Mobberley Brook and tributaries, Wilmslow	Cheshire East Council	15			15
Tributaries of Poynton Brook, Poynton	Cheshire East Council			114	114
Clay Lane, Marlon, Winsford	Cheshire West and Chester Council			1	1
Liverpool Road, Neston, Ellesmere Port	Cheshire West and Chester Council	1			1
Littleton, Chester	Cheshire West and Chester Council			2	2
Runcorn Road, Moore, Culvert Rehabilitation	Halton Borough Council			3	3
Runcorn & Widnes Culvert Study	Halton Borough Council		14		14
Bridgeway and Lockgate, Runcorn	Halton Borough Council	39		39	78
Heath Lane, Croft, Warrington	Warrington Borough Council		14		14
Orford, Warrington	Warrington Borough Council	74			74
Totals		129	28	173	330

Responsible LLFA	Homes to be better protected			Total homes to be better protected
	2018/19	2019/20	2020/21	
Cheshire East Council	15		128	143
Cheshire West and Chester Council	1		3	4
Halton Borough Council	39	14	42	95
Warrington Borough Council	74	14		88



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Strategic Development Control & Enforcement Actions

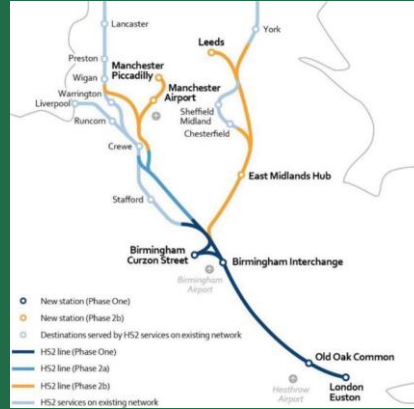
- A number of ongoing strategic development control actions which require LLFA control:
- Property flooding as a linked with:
 - New developments, Shavington/Wilmslow/Hanforth/Alderley Edge/Knutsford
 - Highways England, Chapel Lane



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Statutory Planning

- Commented on circa 800 planning applications
- HS2 Consultation
- Local Plan - Additional allocations



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Drainage Improvements 2017/18

- 19 Schemes Delivered
- £450,000 Budget
- 4no. Residential properties protected



Before

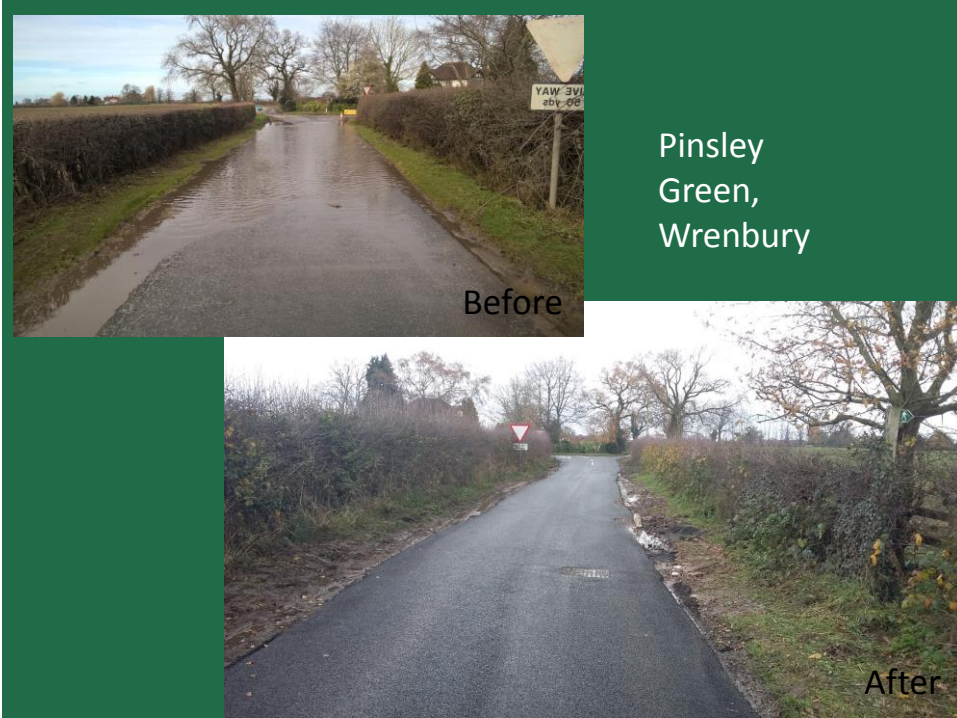


After

Swettenham Lane

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Drainage Improvements 2018/19 Forward Look

- 19 Schemes put forward to date
- Schemes prioritised using risk based approach



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Flood Risk Regulations 2018 and beyond

- The next milestones in the **Flood Risk Regulations** cycle are:
 - - review and updating of flood hazard and flood risk maps by **December 2019** and
 - - review and updating of Flood Risk Management Plans (FRMPs) by **December 2021**.
- The regulations place a statutory duty on LLFAs for these products where FRAs are identified. EA expect to engage soon with all LLFAs and risk management authorities about the next stages of the cycle

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Next steps 2018/19

- Publish S19 report
- Statutory Duties (Regulatory, Planning & Dev Control)
- Capital Programme
 - LTP Drainage schemes
 - Defra/EA FDGiA & Local Levy funded Programme
 - Poynton Strategic Study concludes 30th March 2018
 - Peal Street, Prestbury Highway drainage works
 - FDGiA Programme refresh June 2018
 - Collaborative works with UU & others
- Review & update of flood hazard and flood risk maps by **December 2019**
- Review & updating of Flood Risk Management Plans (FRMPs) by **December 2021**

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QUESTIONS

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