



Ribble Valley Flood Plan

PREPARING FOR EMERGENCIES



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Current Version	Version 1.5.18 – PUBLIC
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Plan Prepared by	Chris Shuttleworth, Ribble Valley BC

EMERGENCY CALL CENTRE
24-hour telephone
01200 444448



INFORMATION

Ctrl + Click on link to page numbers

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This District Flood Plan is a generic document, produced to address the emergency response to flood risks identified in the Community Risk Register. **These risks are refined to reflect the specific risks to RVBC in the EMMA Risk Management Assessment.** It complements those with specific contingency action plans produced by both the Council and its partner agencies. The intention is to enable the Council's resources to be speedily mobilised to deal with an emergency, or to render assistance to the Lancashire Resilience Forum member agencies in dealing with a major incident.

See current risk status



FOREWORD

It must be emphasised that the Ribble Valley Council, like other local authorities, is not an 'emergency service' and the response to incidents will depend on the time of the incident, availability of staff and equipment, the nature of the incident and the dangers it poses. The Council's response will complement that of other agencies such as the County Council and Environment Agency who will also implement their own response plans to flooding incidents.

It must also be recognised that this plan covers the response to flooding that has been anticipated through the Environment Agency "Flood Alert" and "Flood Warning" scheme. Whilst every effort will be made to respond appropriately to sudden, unexpected flooding incidents (flash flooding) they are notoriously difficult to predict or to deal with and the conditions will often have subsided by the time a response can be made.

The Council's general response to emergencies can be found in the District Emergency Plan and this plan should be read in conjunction with that document. The Lancashire Resilience Forum has developed a Severe Weather contingency plan to complement the arrangements in the Flooding Plan.

As part of its commitment to communities the Council plays a full part as a member of the Lancashire Resilience Forum (LRF) and supports the other member organisations

AIM OF THE PLAN

This plan sets out the Council's arrangements and identifies the responsibilities and the actions to be taken by the Council in dealing with a flooding incident within the district of Ribble Valley.

This plan shall not operate as a stand-alone plan for flooding within the Borough of Ribble Valley but shall be read in conjunction with Part 1 of the wider Multi Agency Flood Plan for Lancashire and the Ribble Valley 'District Emergency Plan'. Site specific flood plans can be found in this plan.

OBJECTIVES OF THE PLAN

Main Roles and Responsibilities

Determine strategic aims and objectives and re-allocation of resources.

- To reduce the risk to people and property to the best of the Council's abilities.
- Establish a management process that clearly identifies roles and responsibilities.
- Outline the Council's response to severe weather and flooding from rivers and other watercourses.
- Liaise with and engage with the emergency services, other responsible agencies, local communities and vulnerable people
- Identify the local critical infrastructure assets, highlight risk and establish emergency contacts
- Assist the lead agencies during the response phase of an incident
- Take the lead role in the coordinated Recovery phase of an incident



OWNERSHIP

Plan Keeper	Emergency Planning
Print Name	Chris Shuttleworth
Signature	
Date	1 st May 2018

Deputy Plan Keeper	Head Env. Health
Print Name	Heather Barton
Signature	
Date	1 st May 2018

This document is owned by the Chief Executive of Ribble Valley Borough Council.

The Emergency Planning Officer will ensure that:

- The master document is retained together with relevant supporting documents
- The level of circulation of the document is determined and details are recorded of all copy holders.
- The plan is updated and reviewed on a regular basis or after activation.
- The plan is tested and exercised as determined by the Corporate Management Team
- As a minimum, the plan owner and deputies shall keep a hard copy of this document off site.
- Health and safety issues are regularly risk assessed

Essential changes/amendments are circulated promptly by the Plan Keeper and Deputy Plan Keeper shall be the Primary Reviewers. Only these can authorise any alterations.

Freedom of Information and Data Protection

Release of information contained in this document should be considered with regard to Freedom of Information and Data Protection legislation.

Classification of the document will be reviewed on an on-going basis.

CIRCULATION

Emergency Planning Officer / Head of Env. Health	Master plus 1
Chief Executive	1
Corporate 'Emergency Management Team'	1
CCTV Control Room	1
Emergency Incident Room & Level D Training Room	2
Resilience Direct and RVBC 'Emma Electronic	1

Electronic copies of this document are accessible via user logon to RVBC EMMA Data base.

VERSION CONTROL, AND RECORD OF REVISIONS

The following plan updates have been issued and recorded:

Revision date	Version	Outline of revisions	Made by	Approved by
May 2018	1.5.18	FINAL 1:5:18	CS	HB



EXERCISES AND TESTING

The Council is required to ensure that arrangements are in place to enable adequate training, exercising and testing of emergency planning arrangements and furthermore that the Corporate Management Team (CMT) receives regular reports re the training and exercising of the aforesaid emergency arrangements

TRIGGERS FOR PLAN ACTIVATION (SCOPE)

This plan may be activated prior to an emergency being declared or be used in conjunction with the Council's 'District Emergency' and 'Business Continuity' Plans, which may be activated when a major incident or critical incident is declared. It may also be utilised in response to a major incident in an adjoining Authority.

The plan may be activated by the following triggers:

- flood warning issued by the Environment Agency; and/or
- severe weather warning issued by Met Office; and or
- weather conditions sufficient to cause localised problem; and or
- flooding report received.

Also see section on Activation Page 9 & Contacts Appendix A

FLOOD INCIDENT MANAGEMENT

During a flood event, the Council's priorities are as follows:

- liaise with and support the emergency services within available resource
- assist partner agencies in protection of critical infrastructure where possible
- co-ordinate the evacuation of residents to a designated Rest Centre
- arrange emergency accommodation for displaced residents with no available alternative
- give advice and assistance where possible, to property owners partner agencies and the utilities during the recovery phase.
- assist in the removal of waste and flood damaged items.

Also refer to the Council's District Emergency Plan, and Business Continuity Plan.

INCIDENT CONTROL ROOMS

In the event of a Flooding Emergency, a flood incident room may be set up at one or more of the following locations, dependent on the location of the flooding.

Location	Contact No.	Out of hours
RVBC Council Chamber Committee Room 1 Church Brow, Clitheroe BB7 2DD		
RVBC Council Offices, 'Level D' Training Room, Church Walk, Clitheroe BB7 2RA		



RVBC Contact Centre,
Level B, Council Offices,
Church Walk, Clitheroe
BB7 2RA

For large scale flood events, the Council’s District Emergency Plan will be activated.

AVAILABLE RESOURCES

Personnel

The Director of Community Services or nominated deputy will co-ordinate the Council’s response to all flooding events and mobilise personnel as required.

When insufficient numbers of specialist workers are available, the Corporate ‘Emergency Team’ may engage other Council employees as necessary. If there are insufficient numbers of Council employees to deal with the emergency, then external agencies may also be called upon for assistance.

Plant, equipment, depots, materials, contractors

See Appendix B



FLOOD





FLOOD PROTECTION - SANDBAG POLICY

As a response to flood emergencies:

Ribble Valley Borough Council will along with the partner agencies do all that is possible to support the community during a flooding incident. It will not however be able to provide sandbags in most circumstances for property protection. It should be understood that sandbags are relatively inefficient and ineffective when used to hold back water compared with alternative 'dedicated' flood defence products. 'Householders & Businesses can better put time and energy into moving possessions to safety and deploying door boards' which the Council supports. The Council recommends to householders, whose properties are 'at risk', to register with Floodline and to invest in 'purpose made' flood defence products.

Householders shall be advised that they can obtain hessian or polypropylene sandbags from most builder's merchants, these products are available locally from;

Travis Perkins, Clitheroe	01200 427222
Eric Dugdale's, Chatburn	01200 441597
Buildbase, Longridge	01772 783437
Greengates, Accrington	01254 872061
Jewsons, Accrington/Blackburn	01254 692815
United Utilities	01925237000



- ◆ 'Emergency' large scale 'filled' or 'unfilled' sandbags can be sourced from SG Baker Ltd, Grantham by contacting 01476 565501

<http://www.sgbaker.co.uk/browse/541/Flood-Defence>

- ◆ SG Baker Ltd, Grantham also supply re-usable polymer sandbags.
<https://www.sgbaker.co.uk/>

KEY INSTALLATIONS AND HIGH RISK PREMISES

Key installations and 'high risk' premises are detailed in the site-specific plans within the Multi agency Flood plan with definition of "key installation".

Electricity North West Ltd. (0800 195 4141 Public) 24 hr Life and Death issues

KEY OPERATIONAL SITES

Name	Location	Operated By
Peel Street Primary Electricity Sub Station No: 400073	Peel Street, Clitheroe - supplies 7,400 properties	Electricity NW Ltd
Peel Street Yard Distribution Sub Station No: 455056	Peel Street, Clitheroe - supplies 440 properties	Electricity NW Ltd
Ribchester Waste Water pumping station No: 181- 34012	Greenside, Ribchester	
Ribchester Distribution Substation No: 410993	Greenside, Ribchester	Electricity NW Ltd
Whalley 33K Primary Electricity Sub Station: 400074	Off Accrington Road, Whalley	Electricity NW Ltd



EVACUATION PROCEDURES

Rest Centres

Any necessary evacuation will be carried out under the direction and co-ordination of the Police. With support and in consultation with Ribble Valley Borough Council

For smaller flooding incidents it may be appropriate to identify alternative local buildings to use for temporary, safe accommodation, prior to the Rest Centre(s) being opened. This will be done in conjunction with the Local Authority, Emergency Services and local community.

The designated Emergency Rest Centres are:

- Roefield Leisure Centre, Edisford Road, Clitheroe
- Longridge Civic Hall, Willows Park Lane, Longridge
- Chipping Village Hall, Chipping
- St Peters Village Hall Simonstone

Ribble Valley BC maintains a Temporary Rest Centre Kit for such purposes (Council Offices - Car Park store). Procedures for opening one or more Rest Centres are detailed in the LCC Rest Centre Guidance and Appendix 15 (p 117) of the Ribble Valley District Emergency Plan. Hard copies are also held off-site. **Also see Whalley Reception Centres Page 33**

In event of an evacuation being considered, contact should be made with the LCC Emergency Planning Duty Officer, if not already done so.

Emergency Transport

It may also be necessary to provide emergency transport. In the first instance local sources of transport should be used as set out in See Appendix B. Should additional transport be required LCC Emergency Planning Service has access to an enhanced list of bus and coach operators.

VULNERABLE PEOPLE

Arrangements for the identification and notification of vulnerable people are detailed in Part 3 of the MAFP.

RECOVERY PROCEDURES.

An Emergency Team multi-agency working group will be established to lead the Recovery Phase. Members of the Ribble Valley Emergency Team will form part of this group in order to achieve a 'return to normality', as detailed in the MAFP Part 1.

ADMINISTRATION

DOCUMENT CONTROL AND RECORD KEEPING

Details of all actions taken, decisions made and costs incurred must be recorded in addition to the operational logs maintained by all the officers involved in the emergency response. This information will be collated by the Administration/Finance Officer, or nominated deputy, and retained for records of the incident.



Please refer to the Council's District Emergency Plan for initial activation and operation logs.

WELFARE OF STAFF

Guidelines for the general welfare of staff are included in the MAFP Part 1.

Ribble Valley Borough Council's Health and Safety Policy Statement and control measures identified through the risk assessment process must be adhered to.

Generic risk assessments have been completed and are held by the Street Scene Section. Dynamic risk assessments will be undertaken as required. If there are any site-specific risks identified, these will be referred to MAFP Part 2.

COMMUNICATIONS

A number of **Emergency communication methods** are available to the Council in an emergency situation. These include: **Landline telephony: Mobile telephony: Satellite telephone: Lancashire wide (LFR) Radio Network; See District Plan for details**

MEDIA ARRANGEMENTS.

In emergency situations, media arrangements on behalf of Ribble Valley Borough Council will be handled by the Council's Principal Communications Officer. The officer will deal with all media enquiries and issue press releases about the Council's work and activities, liaising closely, as appropriate, with senior council officers, Members and with the other agencies involved in the emergency.

In the event of any significant flooding incident the Council's District Emergency Plan would be activated, and the appropriate resources would be put in place.

FLOOD ALERT AND WARNINGS - PROCEDURES

The Environment Agency's system for contacting all the Authorities and Agencies that may be affected by a predicted flooding event has been previously referred to. The Council receives these messages via the AUTOMATIC system and they are then TEXTED to the Civil Contingencies Officer and EMAIL to the CCTV Control Centre Officer. This section outlines the Council's procedures to be adopted for each type of message.





ACTIVATION

Also refer to **AIDE MEMOIRE: Quick action sheet page 55**

On receipt of an EA Flood Alert notification the Duty Emergency Officer will liaise with other members of the Councils Emergency Team, all the available information will be considered including weather forecasts, previous weather and the likelihood of a worsening situation. They will determine if any action is required by the Council. Whilst many Flood Alert notifications are unlikely to require practical activities by the Council **it is important to be fully aware of the situation and the officers will address the items identified on the checklist shown in THE FLOOD WARNING MESSAGE. (as next page and links below)**

Floodline

Telephone: 0345 988 1188

www.environment-agency.gov.uk/subjects/flood

<http://www.environment-agency.gov.uk/subjects/flood/floodwarning/>

Targeted Flood Warning Service

Telephone: 0800 807060

Flood Warning Service App



Ctrl + Click on icon to download

Met Office Weather Forecast App

<http://www.metoffice.gov.uk/>



Ctrl + Click on icon to download



Flood Alert Flooding is possible. Be prepared.

- Assess and monitor the conditions on site.
- Monitor weather forecasts – EA Floodline (0345 9881188). **See individual Quickdials**
- Notify Ribble Valley ‘Corporate Emergency Management Team’
- Request further assistance from Works Officer if necessary. (See Appendix A for contact numbers.)
- Be aware that the situation could worsen.
- Escalate or downgrade as deemed necessary



Flood Warning Flooding is expected. Immediate action required

As above, plus

- Establish contact with the EA Flood Warning Officer at the control room (01772 714254), Or (01772714222) and maintain regular contact
- Establish contact with Lancashire Constabulary and Lancashire County Council Emergency Planning Unit, and liaise as necessary
- Consider establishing Incident Control Room, located at the Council Offices, Clitheroe.
- Consider additional resources as required
- Notify rest centres and alert coach co-ordinator (evacuation transport) if conditions or risk likely to deteriorate further;
- Works Officer to review capacity and mobilisation of available Direct Works resource as per Departmental Service Plan;
- Works Officer to consider the need for further resources from external organisations.
- Consider the need and prepare for the possible evacuation of residents in areas of risk.
- Maintain a record of events, and ensure all personnel maintain a detailed personal log (see Appendix C).



Severe Flood Warning Severe flooding. Danger to life.

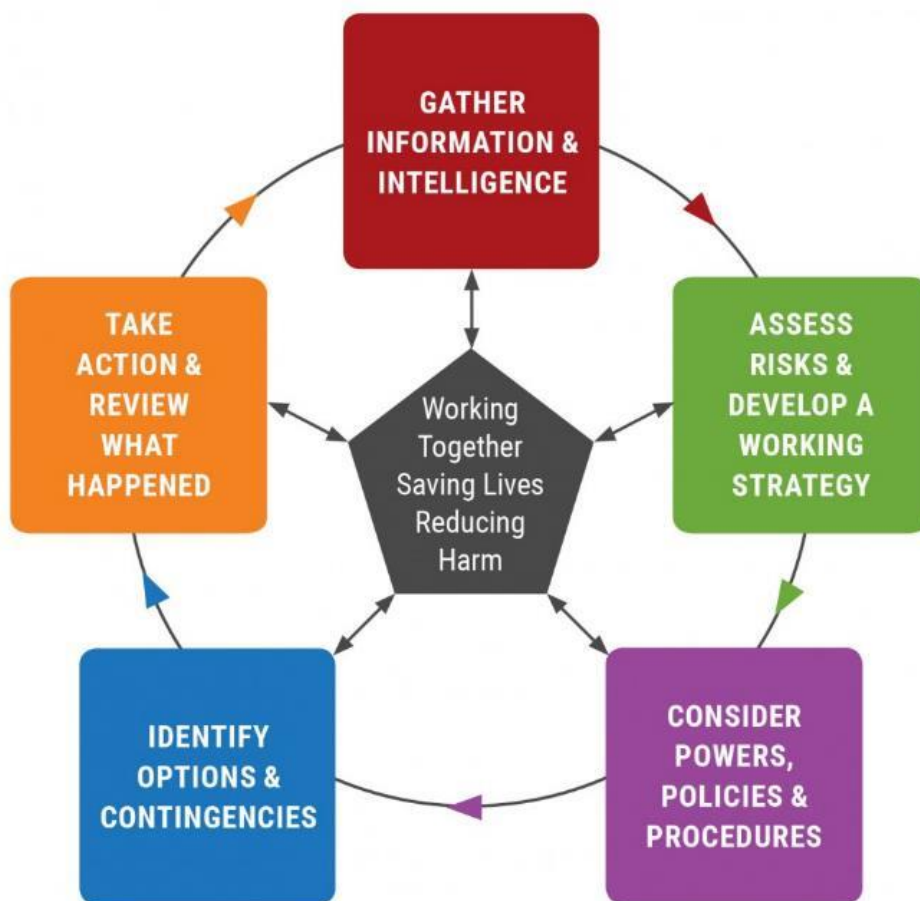
As above, plus

- Consider opening of designated rest centres,
- Review activation of Council's District Emergency Plan
- Liaise with emergency services and review need for opening Incident Control Room and establishment of Bronze & Silver Command. Silver command to be activated where incident likely to be widespread and/or more than one Flood Warning area 'at risk'.
- Liaise with evacuation transport co-ordinator
- If the flooding event is expected to continue for an extended period, arrange a shift rota for all staff to ensure continuity of cover.



RIBBLE VALLEY BOROUGH COUNCIL.

ORGANISATIONAL STRUCTURE



The new version of the JESIP app, with extra features has now been launched. The app is available on Android, Windows and IOS devices. We would ask that you encourage all emergency service staff to download the app where possible and take the time to familiarise themselves with its functions and content so that its use becomes intuitive at incidents.

Ctrl + Click on link to download apps

[Click here for full system requirements](#)





RIBBLE VALLEY BOROUGH COUNCIL CONTACT NUMBERS

Personal information listed in this public document, has been removed

Ribble Valley Main Switchboard	Working Hours Out of Hours	01200 425111
Emergency Planning Officer Chris Shuttleworth	Working Hours Out of Hours / Mobile	01200 414510
Controller (Chief Executive)	Working Hours Out of Hours / Mobile	01200 414400
Works Officer (Director of Community Services)	Working Hours Out of Hours / Mobile	
Admin & Finance Officer (Director of Resources)	Working Hours Out of Hours / Mobile	01200 414430
Head of Engineering Services	Working Hours Out of Hours / Mobile	01200 414523
Head of Environmental Health	Working Hours Out of Hours / Mobile	01200 414466
Principal Communications Officer (Media Info)	Working Hours Out of Hours / Mobile	01200 414483
Salthill Depot	General Works	01200 413240
LFR Radio Network	CCTV Control Room 'ERAL'	01200 444448
Rachel Stott Housing	Homeless	
Alan Coar	Building Access	
Fax Machines	Council Offices Salthill Depot	(01200) 414432/87/88 (01200) 458290

For Emergency Contacts please refer to the LRF Emergency Contacts document. This is frequently updated and the latest version is available on Resilience Direct at link below

Ctrl + Click on link to MA contacts





**APPENDIX B
OTHER EMERGENCY CONTACT NUMBERS
(As of 01:01:16)**

GENERAL CONTRACTORS

D Johnston	Parker Avenue Clitheroe	01200 443309
Mutual Aid	Resources through Mutual Aid agreements	Contacts in Emergency Response Plan, through LCC Em. Planning.

PLANT/EQUIPMENT

Speedy Hire	Blackburn	01254682181
A & R Plant Hire (NW) Ltd	Unit 7a, Lincoln Way Salthill Industrial Est Clitheroe Blackburn	01200 429329
Abbey Plant (Whalley) Ltd	Sunnymede, Club Street, Clitheroe	01254 822510
Brian Dent Ltd	Littlemoor Mill Whalley Road Clitheroe BB7 1PW	
E & D Plant Hire	Pendle Trading Estate Chatburn	01200 441511 Eric Dugdale
Monks Plant Hire	Myerscough Smithy Road Mellor Brook	01254 814412
P & LA Newhouse	Cowgill Farm Gisburn Rd, Sawley	01200 445284
T Hickey	Pendle Trading Estate Chatburn	01200 441805

MATERIALS

Ribble Valley BC –	Salthill Depot,	
Travis Perkins,	Link 59 Ind Estate, Lincoln Way, Clitheroe	01200 427222
Eric Dugdale's	Pendle Trading Estate, Chatburn	01200 441597
Buildbase,	Shay Lane, Longridge	01772 783437



<u>CRANE HIRE</u>		
Harrison Engineering	Judge Walmsley Mill Longworth Road Billington	
Ainscough Crane Hire Ltd	Unit C Centurion House Leyland Business Park, Centurion Way, Farringdon	01257 478517
<u>ELECTRICAL</u>		
P C Bishop	Barker Terrace Waddington Road Clitheroe	
M H Electrical	The Workshop, Croft St, Clitheroe BB7 1HL	
<u>PLUMBERS</u>		
Calder Services (Lances) Ltd	Manor field Service Centre Manor Road, Clitheroe	01254 822691
D & D Plumbing & Drainage	142, Pimlico Road, Clitheroe	01200 425725
H Lofthouse	Unit 10 Lincoln Park Salthill Industrial Park Clitheroe	01200 442684
Neil Cox Plumbing	6, Stirling Close Clitheroe	01200 426674
Stephen Burgess Plumbing Services	6 Hereford Dr Clitheroe	01200 427441
<u>COACH HIRE</u>		
Lakeland Coaches	Suites 5 & 6 The Printworks Hey Road BB7 9WB Barrow	01254 826007
Hodson Coaches	Deanfield Way Clitheroe Lancashire BB7 1QU	01200429220



APPENDIX C

FLOOD RISK AREAS

The following table lists the flood warning areas within the Borough of Ribble Valley.

Ref	Area
1	Ribchester
2	Low Moor Clitheroe
3	Whalley
4	Mearley Brook Clitheroe
5	Pimlico Brook Clitheroe

Sub Area	Properties
L5 A&B	A=12 : B=55
L 9	A=30
L 21	A=12 : B=215 : C=52
L 31	A=40 : B=212 : C=242
L 41	A=54 : B=112

Warning Area are described in the table below.

See detailed plans for asset management in each of the flood warning areas on the following pages under the headings of: -

Flood Warning Area	Flood Warning Area Reference Code*	Locations affected	Messages Issued
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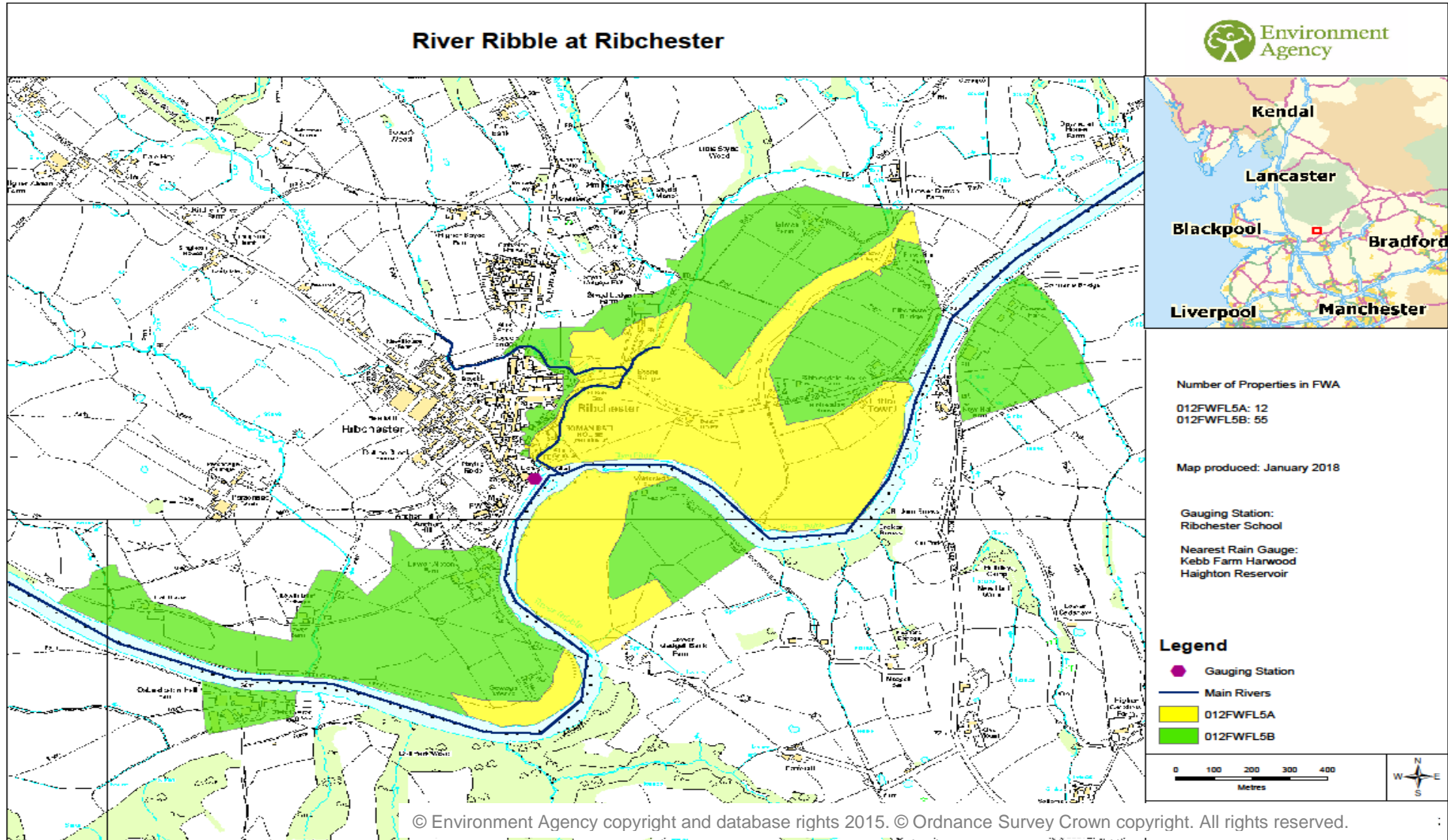
Flood Warning Area Reference Code*	Frequency of flooding	Probability of flooding	Number of properties in Flood Warning Area
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Flood Warning Area Reference Code*	Quick dial Code	Warning Method
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1. RIBCHESTER FLOOD WARNING AREA - L5, Map 2018





River Ribble at Ribchester 012FWFL5

The Flood Warning Area includes the low lying area adjacent to the River Ribble from Ribchester Bridge to Osbaldeston Hall including Ribchester Village.

Area Affected

The localities affected and the impacts of these messages within this particular Flood Warning Area are described in the table below.

Flood Warning Area	Flood Warning Area Reference Code*	Locations affected	Messages Issued
River Ribble Ribchester Area A	012FWFL5A	Higher Croft, Harwood House, Yew Tree Cottage, Beech House, Thorncroft, properties near Ease Barn Farm on Gallows Lane, and 19 to 22 Blackburn Road.	Flood Warning Sub Area Flood Warning Update Severe Flood Warning
River Ribble Ribchester Area B	012FWFL5B	Properties in Riverside, Greenside, those at Little Town near Ribblesdale House Farm, Osbaldeston Hall, Boat house, Lower Barn Farm, Waterside Farm, Stydd Lodge Farm, and properties on Salesbury Hall Road near Ribchester Bridge.	Flood Warning Sub Area Flood Warning Update Severe Flood Warning

*The Flood Warning Area Reference Code is the unique code that is given to all Flood Warning Areas. This appears on all faxes and emails that partners receive when a warning is issued.

Property Numbers and Probability of Flooding

The number of properties we expect to be affected by flooding in the Flood Warning Area will be reported to partners in the messages received from FWD.

This Flood Warning Area is divided into Sub-Areas that are listed below.

Flood Warning Area Reference Code*	Frequency of flooding	Probability of flooding	Number of properties in Flood Warning Area
012FWFL5A	1 in 10 yrs.	10%	12
012FWFL5B	1 in 25 yrs.	4%	55

*The Flood Warning Area Reference Code is the unique code that is given to all Flood Warning Areas. This appears on all faxes and emails that partners receive when a warning is issued.



We believe that the amount of time between warning and flooding for this Flood Warning Area is approximately two hours. We will endeavour to give at least a two hour lead time for Flood Warnings, however this may not always be possible. There is no target lead time for Severe Flood Warnings as these may be issued before, during or after flooding.

Communication of Flood Warnings

Flood Warnings for this area will be sent to the public using the following methods:

Flood Warning Area Reference Code*	Quickdial Code	Warning Method
012FWFL9A	02222211	<ul style="list-style-type: none"> • Floodline Warnings Direct • Loudhailers • Media • BBC Radio Lancashire • Rock FM
012FWFL5B	02222211	

*The Flood Warning Area Reference Code is the unique code that is given to all Flood Warning Areas. This appears on all faxes and emails that partners receive when a warning is issued.

History of Flooding in this Area

Year	Month/Period	Number of Properties/Area Affected
2015	26th December	17 properties are known to have suffered from internal flooding at this location; flooding was Boyce's Brook, Duddel Brook and the River Ribble which overtopped its banks.
2008	January	Ribchester Road, no properties flooded.
2007	July	Ribblesdale Terrace area, no property flooded.
2005	January	Greenside area.
2004	August	Ribchester Village (Boyces Brook area).
2000	March, October	Ribchester Village (Boyces Brook area).
1999	December	Ribchester Village.

Location of Our Flood Defences

There are no known Environment Agency flood defences in this area.

There are other defences which, are not owned or operated by us. These are not listed in this section

Our Additional Operational Response

There are no specific operational responses for this Flood Warning Area.

Contingency Warning Arrangements

Should the main methods of warning fail we will attempt to issue warnings to this area by using the following contingency arrangements: We will endeavour to fax Flood Alerts



Critical infrastructure is a term used to describe assets that are essential for the functioning of a society and economy. Most commonly associated with the term are facilities for:

- electricity generation, transmission and distribution;
- gas production, transport and distribution;
- oil and oil products production, transport and distribution;
- telecommunication;
- water supply (drinking water, waste water/sewage, stemming of surface water (e.g. dikes and sluices));
- agriculture food production and distribution;
- heating (e.g. natural gas, fuel oil, district heating);
- public health (hospitals, ambulances);
- transportation systems (fuel supply, railway network, airports, harbours, inland shipping);
- financial services (banking, clearing);
- rescue services (Fire and Rescue, MCA);
- security services (police, military).

Others to Include vulnerable groups

Doctors, schools, colleges, rest homes, nursery's, Major Shopping Centres, Local Authority buildings, COMAH Sites, Major Pipelines, Rest Centres.

Ribchester (Flood Risk Vulnerability Assessment)

Essential infrastructure (Priority 1)

- Essential transport infrastructure (including mass evacuation routes) which has to cross the area at risk –.

Highly vulnerable (Priority 2)

- Police station, Ambulance stations and Fire stations.
- Command Centres and telecommunications installations required to be operational during flooding.
- Emergency Evacuation point/route - Preston Road (main) Secondary – Stoneygate Lane .**
- Basement dwellings.
- Caravans, mobile homes and park homes intended for permanent residential use.
- Installations requiring hazardous substances consent.



More vulnerable (Priority 3)

- Hospitals.
- Residential institutions** such as residential care homes, children's homes, social services homes, prisons and hostels.
- Buildings used for:** dwelling houses; student halls of residence; drinking establishments; nightclubs; and hotels.
- Non-residential uses for health services, nurseries and educational establishments.
- Landfill and sites used for waste management facilities for hazardous waste.²
- Sites used for holiday or short-let caravans and camping, subject to a specific warning and evacuation plan.

Less vulnerable (Priority 4)

- Police, ambulance and fire stations which are not required to be operational during flooding.
- Buildings used for: shops; financial, professional and other services; restaurants and cafes; hot food takeaways; offices; general industry; storage and distribution; non-residential institutions not included in 'more vulnerable'; and assembly and leisure.
- Land and buildings used for agriculture and forestry.
- Waste treatment (except landfill and hazardous waste facilities).
- Minerals working and processing (except for sand and gravel working).

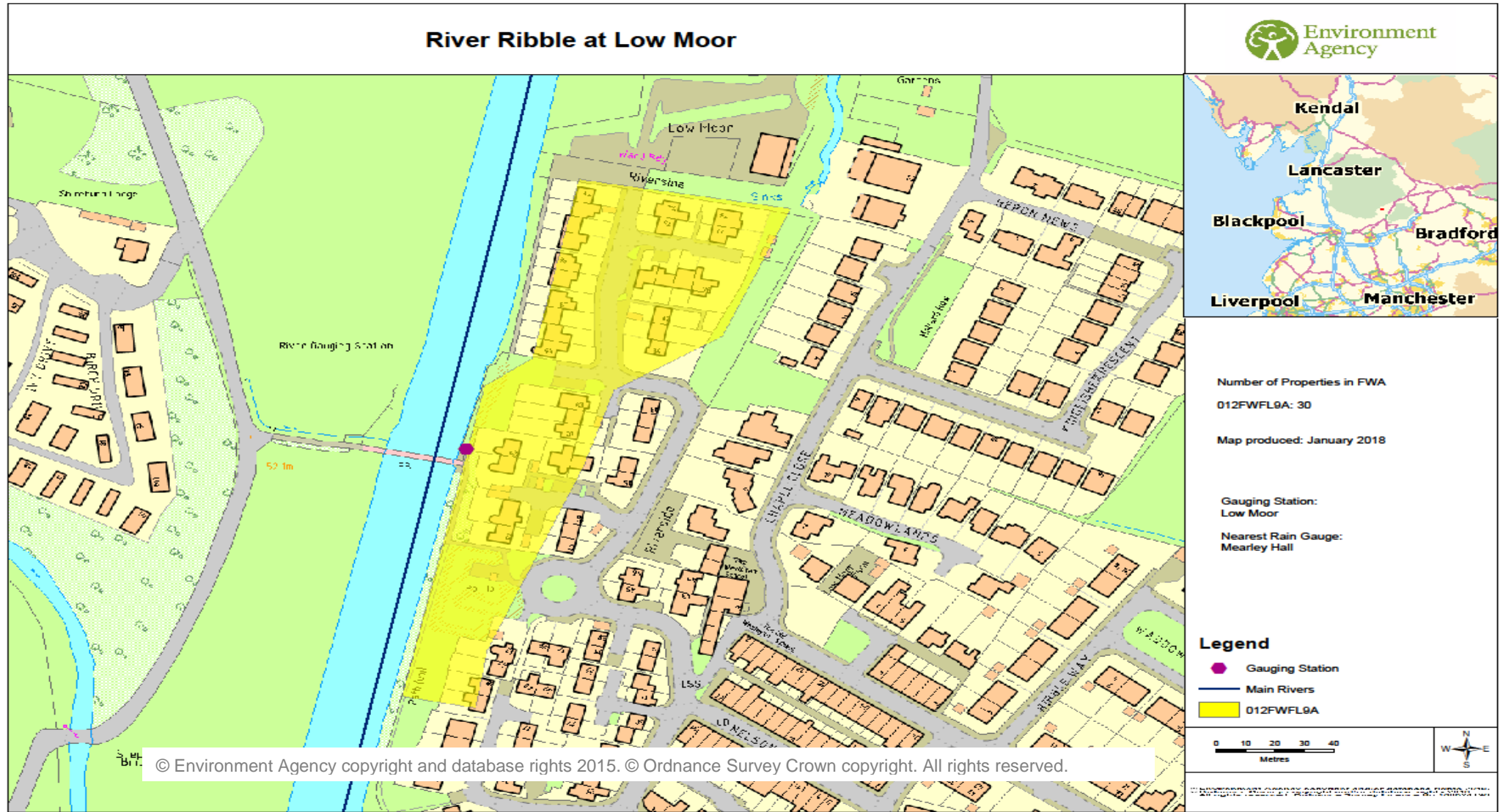




Operational Multi Agency Response	Priority	Ref No	Check
Operational Response(Bronze) Point (District) (Dynamic)	Priority 1		
Forward Command Point (Multi Agency) (Dynamic)	Priority 1		
Rendezvous Point (Multi Agency) (Dynamic)	Priority 1		
Essential infrastructure	Priority	Ref No	Check
Evacuation Collection Point	Priority 1		
Evacuation Route	Priority 1		
Rest Centres (Vulnerable People)	Priority 1		
electricity generation, transmission and distribution	Priority 1		
gas production, transport and distribution	N/a		
oil products production, transport and distribution	N/a		
telecommunication	N/a		
water supply (drinking water, waste water/sewage)	Priority 1		
stemming of surface water (e.g. dikes and sluices)	N/a		
transportation systems (key road, access egress)	Priority 1		
transportation systems (fuel supply)	N/a		
transportation systems (harbor's, inland shipping)	N/a		
Caravan sites, and mobile homes (Vulnerable People)	N/a		
Identified Individual properties at risk, Including bas (Vulnerable People)	Priority 2		
Major Pipelines	N/a		
COMAH Sites	N/a		
rescue services (Fire and Rescue)	N/a		
rescue services (MCA)	N/a		
security services (police)	N/a		
security services (military)	N/a		
public health ambulances)	N/a		
transportation systems (railway network)	N/a		
transportation systems	Priority		
schools, colleges (Vulnerable People)	Priority 3		
rest homes (Vulnerable People)	Priority 3		
Doctors (Vulnerable People)	N/a		
nursery's (Vulnerable People)	Priority 3		
public health (hospitals) (Vulnerable People)	N/a		
Major Shopping Centres (Vulnerable People)	N/a		
Parish Council Buildings (Vulnerable People)	N/a		
Local Authority buildings	N/a		
Landfill and waste management sites	N/a		
agriculture food production and distribution	N/a		
financial services (banking, clearing)	N/a		



2. CLITHEROE LOW MOOR FLOOD WARNING AREA – L9, Map 2018





River Ribble at Low Moor, Clitheroe 012FWFL9

The Flood Warning Area includes the low lying area on the Riverside at Low Moor.

Area Affected

The localities affected and the impacts of these messages within this particular Flood Warning Area are described in the table below.

Flood Warning Area	Flood Warning Area Reference Code*	Locations affected	Messages Issued
River Ribble at Low Moor, Clitheroe Area A	012FWFL9A	Low lying land and properties adjacent to the River Ribble on the Riverside Estate in Low Moor near Clitheroe.	Flood Warning Flood Warning Update Severe Flood Warning

*The Flood Warning Area Reference Code is the unique code that is given to all Flood Warning Areas. This appears on all faxes and emails that partners receive when a warning is issued.

Property Numbers and Probability of Flooding

The number of properties we expect to be affected by flooding in the Flood Warning Area will be reported to partners in the messages received from FWD.

Flood Warning Area Reference Code*	Frequency of flooding	Probability of flooding	Number of properties in Flood Warning Area
012FWFL9A	1 in 50 yrs.	2%	30

*The Flood Warning Area Reference Code is the unique code that is given to all Flood Warning Areas. This appears on all faxes and emails that partners receive when a warning is issued.

We believe that the amount of time between warning and flooding for this Flood Warning Area is approximately two hours. We will endeavour to give at least a two hour lead time for Flood Warnings, however this may not always be possible. There is no target lead time for Severe Flood Warnings as these may be issued before, during or after flooding.

Communication of Flood Warnings

Flood Warnings for this area will be sent to the public using the following methods:

Flood Warning Area Reference Code*	Quickdial Code	Warning Method
012FWFL9A	02222213	<ul style="list-style-type: none"> • Floodline Warnings Direct • Loudhailers • Media • BBC Radio Lancashire

*The Flood Warning Area Reference Code is the unique code that is given to all Flood Warning Areas. This appears on all faxes and emails that partners receive when a warning is issued.



History of Flooding in this Area

Year	Month/Period	Number of Properties/Area Affected
1995	January	19 houses flooded at Low Moor.
1982	Not known	Low Moor.

Location of Our Flood Defences

There are no known Environment Agency flood defences in this area.

There are other defences which, are not owned or operated by us. These are not listed in this section

Our Additional Operational Response

There are no specific operational responses for this Flood Warning Area.

Contingency Warning Arrangements

Should the main methods of warning fail we will attempt to issue warnings to this area by using the following contingency arrangements:

- We will endeavour to fax Flood Alerts, Flood Warnings and Severe Flood Warnings to those organisations covered by this plan using a fax bureau service.





Critical infrastructure is a term used to describe assets that are essential for the functioning of a society and economy. Most commonly associated with the term are facilities for:

- electricity generation, transmission and distribution;
- gas production, transport and distribution;
- oil and oil products production, transport and distribution;
- telecommunication;
- water supply (drinking water, waste water/sewage, stemming of surface water (e.g. dikes and sluices));
- agriculture food production and distribution;
- heating (e.g. natural gas, fuel oil, district heating);
- public health (hospitals, ambulances);
- transportation systems (fuel supply, railway network, airports, harbours, inland shipping);
- financial services (banking, clearing);
- rescue services (Fire and Rescue, MCA);
- security services (police, military).

Others to Include vulnerable groups

Doctors, schools, colleges, rest homes, nursery's, Major Shopping Centres, Local Authority buildings, COMAH Sites, Major Pipelines, Rest Centres.

Low Moor (Flood Risk Vulnerability Assessment)

Essential infrastructure (Priority 1)

- Essential transport infrastructure (including mass evacuation routes) which has to cross the area at risk.

Highly vulnerable (Priority 2)

- Police station, Ambulance stations and Fire stations.
- Command Centres and telecommunications installations required to be operational during flooding.
- Emergency Evacuation point/route - St Paul's Street, Low Moor (only route)**
- Basement dwellings.



- ☑ **Caravans, mobile homes** and park homes intended for permanent residential use.
- ☑ Installations requiring hazardous substances consent.

More vulnerable (Priority 3)

- ☑ Hospitals.
- ☑ **Residential institutions** such as residential care homes, children's homes, social services homes, prisons and hostels.
- ☑ Buildings used for: dwelling houses; student halls of residence; drinking establishments; nightclubs; and hotels.
- ☑ Non-residential uses for health services, nurseries and educational establishments.
- ☑ Landfill and sites used for waste management facilities for hazardous waste.²
- ☑ Sites used for holiday or short-let caravans and camping, subject to a specific warning and evacuation plan.

Less vulnerable (Priority 4)

- ☑ Police, ambulance and fire stations which are not required to be operational during flooding.
- ☑ Buildings used for: shops; financial, professional and other services; restaurants and cafes; hot food takeaways; offices; general industry; storage and distribution; non-residential institutions not included in 'more vulnerable'; and assembly and leisure.
- ☑ **Land and buildings used for agriculture and forestry.**
- ☑ Waste treatment (except landfill and hazardous waste facilities).
- ☑ Minerals working and processing (except for sand and gravel working).

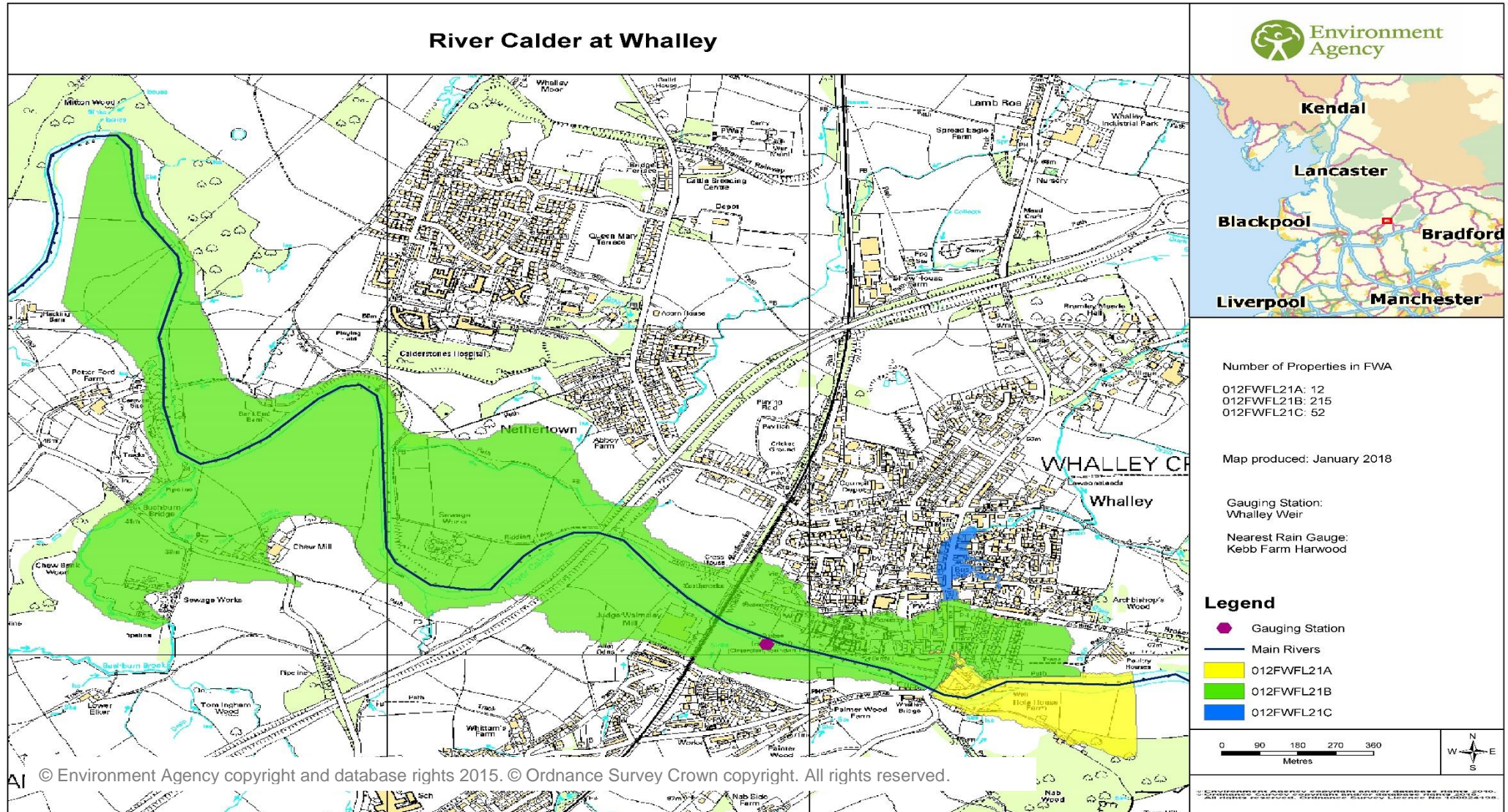




Operational Multi Agency Response	Priority	Ref No	Check
Operational Response(Bronze) Point (District) (Dynamic)	Priority 1		
Forward Command Point (Multi Agency) (Dynamic)	Priority 1		
Rendezvous Point (Multi Agency) (Dynamic)	Priority 1		
Essential infrastructure	Priority	Ref No	Check
Evacuation Collection Point	Priority 1		
Evacuation Route	Priority 1		
Rest Centres (Vulnerable People)	N/a		
electricity generation, transmission and distribution	N/a		
gas production, transport and distribution	N/a		
oil products production, transport and distribution	N/a		
telecommunication	N/a		
water supply (drinking water, waste water/sewage)	N/a		
stemming of surface water (e.g. dikes and sluices)	N/a		
transportation systems (key road, access egress)	Priority 1		
transportation systems (fuel supply)	N/a		
transportation systems (harbor's, inland shipping)	N/a		
Caravan sites, and mobile homes (Vulnerable People)	N/a		
Identified Individual properties at risk, Including bas (Vulnerable People)	Priority 2		
Major Pipelines	N/a		
COMAH Sites	N/a		
rescue services (Fire and Rescue)	N/a		
rescue services (MCA)	N/a		
security services (police)	N/a		
security services (military)	N/a		
public health ambulances)	N/a		
transportation systems (railway network)	N/a		
transportation systems (airports)	N/a		
schools, colleges (Vulnerable People)	N/a		
rest homes (Vulnerable People)	N/a		
Doctors (Vulnerable People)	N/a		
nursery's (Vulnerable People)	N/a		
public health (hospitals) (Vulnerable People)	N/a		
Major Shopping Centres (Vulnerable People)	N/a		
Parish Council Buildings (Vulnerable People)	N/a		
Local Authority buildings	N/a		
Landfill and waste management sites	N/a		
agriculture food production and distribution	N/a		
financial services (banking, clearing)	N/a		



3. WHALLEY FLOOD WARNING AREA – L21, Map 2018





River Calder at Whalley 012FWFL21

The Flood Warning Area includes properties on King Street, Princess Street, Queen Street and others adjacent to the River Calder.

Area Affected The localities affected and the impacts of these messages within this particular Flood Warning Area are described in the table below.

Flood Warning Area	Flood Warning Area Reference Code*	Locations affected	Messages Issued
River Calder at Whalley Area A	012FWFL21A	Hole House Farm and properties on Calder Vale.	Flood Warning Sub Area Flood Warning Update Severe Flood Warning
River Calder at Whalley Area B	012FWFL21B	King Street south of Accrington Road, Princess St, Queen St, and in the vicinity of the Abbey, Judge Walmsley Mill, and Hackings Caravan Park.	Flood Warning Sub Area Flood Warning Update Severe Flood Warning
River Calder at Whalley Area C	012FWFL21C	King Street north of Accrington Road.	Flood Warning Sub Area Flood Warning Update Severe Flood Warning

*The Flood Warning Area Reference Code is the unique code that is given to all Flood Warning Areas. This appears on all faxes and emails that partners receive when a warning is issued.

Property Numbers and Probability of Flooding

The number of properties we expect to be affected by flooding in the Flood Warning Area will be reported to partners in the messages received from FWD.

This Flood Warning Area is divided into Sub-Areas that are listed below

Flood Warning Area Reference Code*	Frequency of flooding	Probability of flooding	Number of properties in Flood Warning Area
012FWFL21A	1 in 25 yrs.	4%	12
012FWFL21B	1 in 50yrs	2%	215
012FWFL21C	Up to 1 in 1000 y	0.1%	52



Communication of Flood Warnings

Flood Warnings for this area will be sent to the public using the following methods:

Flood Warning Area Reference Code*	Quickdial Code	Warning Method
012FWFL21A	02222123	<ul style="list-style-type: none"> • Floodline Warnings Direct • Loudhailers • Media • BBC Radio Lancashire • Rock FM
012FWFL21B	02222123	
012FWFL21C	02222123	

*The Flood Warning Area Reference Code is the unique code that is given to all Flood Warning Areas. This appears on all faxes and emails that partners receive when a warning is issued.

History of Flooding in this Area * See appendix D

Year	Month/Period	Number of Properties/Area Affected
2015	December	210 properties are known to have suffered from internal flooding at this location during December 2015. 11 properties are known to have flooded internally on 5th December 2015 and 3 properties are known to have flooded internally on 12th December 2015. Preliminary reports indicate that the primary source of the flooding was the Ordinary Watercourse adjacent to Brookside Close which overtopped its banks. 196 properties are known to have flooded internally on 26th December 2015. Preliminary reports indicate that the primary source of the flooding was the River Calder which overtopped its banks.
2015	December (Billington)	50 properties are known to have suffered from internal flooding at this location on 26th December 2015. Preliminary reports indicate that the primary source of the flooding was the River Calder which overtopped its banks.
2012	June	King Street, Calder Vale, Cross House and Abbey Croft
2000	October	No record of flooding to property.
1999	December	Cosgroves and Abbey Lodge, approximately 15 properties.

Contingency Warning Arrangements

Should the main methods of warning fail we will attempt to issue warnings to this area by using the following contingency arrangements:



Critical infrastructure is a term used to describe assets that are essential for the functioning of a society and economy. Most commonly associated with the term are facilities for:

- electricity generation, transmission and distribution;
- gas production, transport and distribution;
- oil and oil products production, transport and distribution;
- telecommunication;
- water supply (drinking water, waste water/sewage, stemming of surface water (e.g. dikes and sluices));
- agriculture food production and distribution;
- heating (e.g. natural gas, fuel oil, district heating);
- public health (hospitals, ambulances);
- transportation systems (fuel supply, railway network, airports, harbours, inland shipping);
- financial services (banking, clearing);
- rescue services (Fire and Rescue, MCA);
- security services (police, military).

Others to Include vulnerable groups

Doctors, schools, colleges, rest homes, nursery's, Major Shopping Centres, Local Authority buildings, COMAH Sites, Major Pipelines, Rest Centres.

Whalley (Flood Risk Vulnerability Assessment)

Essential infrastructure (Priority 1)

- Essential transport infrastructure** (including mass evacuation routes) which has to cross the area at risk –.

Highly vulnerable (Priority 2)

- Police station, Ambulance stations and Fire stations.
- Command Centres and telecommunications installations required to be operational during flooding.
- Emergency Evacuation point/route - Accrington Road (main) Secondary – Clitheroe Road, Whalley.**
- Basement dwellings.
- Caravans, mobile homes and park homes intended for permanent residential use.



- ☑ Installations requiring hazardous substances consent.

More vulnerable (Priority 3)

- ☑ Hospitals.
- ☑ **Residential institutions** such as residential care homes, children's homes, social services homes, prisons and hostels.
- ☑ **Buildings used for: dwelling houses;** student halls of residence; **drinking establishments; nightclubs;** and hotels.
- ☑ **Non-residential uses for health services, nurseries and educational establishments.**
- ☑ Landfill and sites used for waste management facilities for hazardous waste.²
- ☑ Sites used for holiday or short-let caravans and camping, subject to a specific warning and evacuation plan.

Less vulnerable (Priority 4)

- ☑ Police, ambulance and fire stations which are not required to be operational during flooding.
- ☑ **Buildings used for: shops; financial, professional and other services; restaurants and cafes; hot food takeaways; offices; general industry; storage and distribution; non-residential institutions not included in 'more vulnerable'; and assembly and leisure.**
- ☑ **Land and buildings used for agriculture and forestry.**
- ☑ Waste treatment (except landfill and hazardous waste facilities).
- ☑ Minerals working and processing (except for sand and gravel working).

The following text is an extract from the Whalley & Billington Flood Action Group

Flood Resilience Plan – See hyperlink below for full plan .pdf

RVBC have coordinated our plans to align with these arrangements

Double Click on this file to open

REMOVED



Guidance to residents on how to be prepared for a flood emergency

- Ensure that you are on the environment agencies flood warnings.
- Complete your EA personal flood plan and store safely so you have emergency support information to hand
- Put this number into your phone for support in case of a flood emergency 0845 474 0731

N.B this number will only be available during flooding

- Don't panic but watch for severe weather warnings and rising river levels.
- Be prepared with flood resilience resources (i.e. Flood gates, Sandbags, Torches, candles)
- Where possible move anything valuable out of harm's way and check for important document such as insurance details etc.



- If you are away where possible inform neighbours or friends, and please put on your flood gates. Emergency action is triggered by the EA. Warnings are issued at three different levels, and the EA will be in contact throughout an emergency with the Resilience lead coordinator who will regularly update the co-ordinator team on anticipated weather and river levels.

It is our intention where possible to:

- Warn residents of an impending flood situation.
 - Rally help from volunteers to help install defences, sandbags, and where possible assist residents by moving irreplaceable items upstairs.
 - Support Evacuation needs, where necessary.
 - Support safe practices and where possible account for the residents.
 - Coordinate and co-operate fully with the authorities supporting efforts in any emergency
- This will involve a significant amount of cooperation and communication across the FLAG group members, to enable them to effectively plan first response support in an emergency, marshal volunteers, liaise with emergency services and balance the needs of the residents along with safety of themselves and the residents.

The Flood Management Plan, as detailed in this document, has been devised with the help of officers from Ribble Valley Borough Council (RVBC), the Environment Agency (EA), Lancashire County Council (LCC), their contribution and ongoing support is gratefully acknowledged.

Guidance for support team and volunteers

How the Community Flood Warning System Operates

Once the lead co-ordinator and area co-ordinators have had the pre-flood alert. We will put into operation a call round, utilising our knowledge of previously affected residents. This will be actioned initially by co-ordinators and volunteers who will also be on the ground to support as soon as possible.

The effectiveness of what follows is totally dependent on the willingness of people to help each other and to communicate with the coordinators.

LOGISTICS

Flood HQ (Control) - Whalley Village Hall

To facilitate coordination and communication with volunteer teams and the various agencies," Flood HQ" will be established in the village hall. Also used as the Lead co-ordinator base.

Emergency Reception Centres for residents

Billington and Whalley Brass Band Club, 1 Abbey Mews -

Whalley Church of St Mary and All Saints, Church Lane. -

Emergency stores

The LCC depot off Riddings Lane, Whalley



There is also an intention to have a store in the Billington area this is still being negotiated. These will be covered by Area co-ordinators as appropriate

Emergency flood Equipment

Basic flood kits for Area co-ordinators and volunteers are being provided but funds are limited so where possible volunteers should provide their own equipment

We will have some of the following items, please ask an area coordinator if you need help with this.

- Hand held radios.**
- Protective clothing - wellingtons, waders, Gloves.**
- Hydro snakes and sacks**
- Torches are held individually by the Coordinators**
- Some cleaning equipment.**

Provision and distribution of Hydro sacks sandbags & other flood resilience solutions

Hydro sacks and Sandbags held in limited quantities and are stored in the emergency stores locations as outlined above. Area Co-ordinators will ideally provision prior to flooding in high risk areas and householders will be able to collect extra hydro sacks & sandbags from the stores and collection points in their area . Support team members will assist with the distribution and placement as far as possible.

Evacuation provision

If needed, the emergency centres will be used as an immediate Rest Centre for anyone forced to leave their home by flooding until other provisions are available, such as collection by family or friends, Insurance provision etc.

N.B - If flooding appears likely to put public safety at risk, it would be for the Police to initiate evacuation with, if necessary, LCC opening an Evacuation Centre locally.

At an evacuation centre you may again be asked for your home details, which will be passed on to the police. If all has gone to plan they will already be aware of your situation, but this will serve as a further check.

Traffic control

If necessary, speed controls, road closures, remote signage etc. will be handled jointly by the Police and signage by LCC Highways Division.

This is likely a necessary request post flooding to help the community get back to normal.

Flood protection

Protection of homes from flooding is each householder's responsibility and it is an ongoing aim of this plan to encourage those living in potential flooding areas to provide their own defences

(To this end, the FLAG has actively communicated appropriate grants available to effected residents and investigated flood protection products on the market to have in case of flooding)

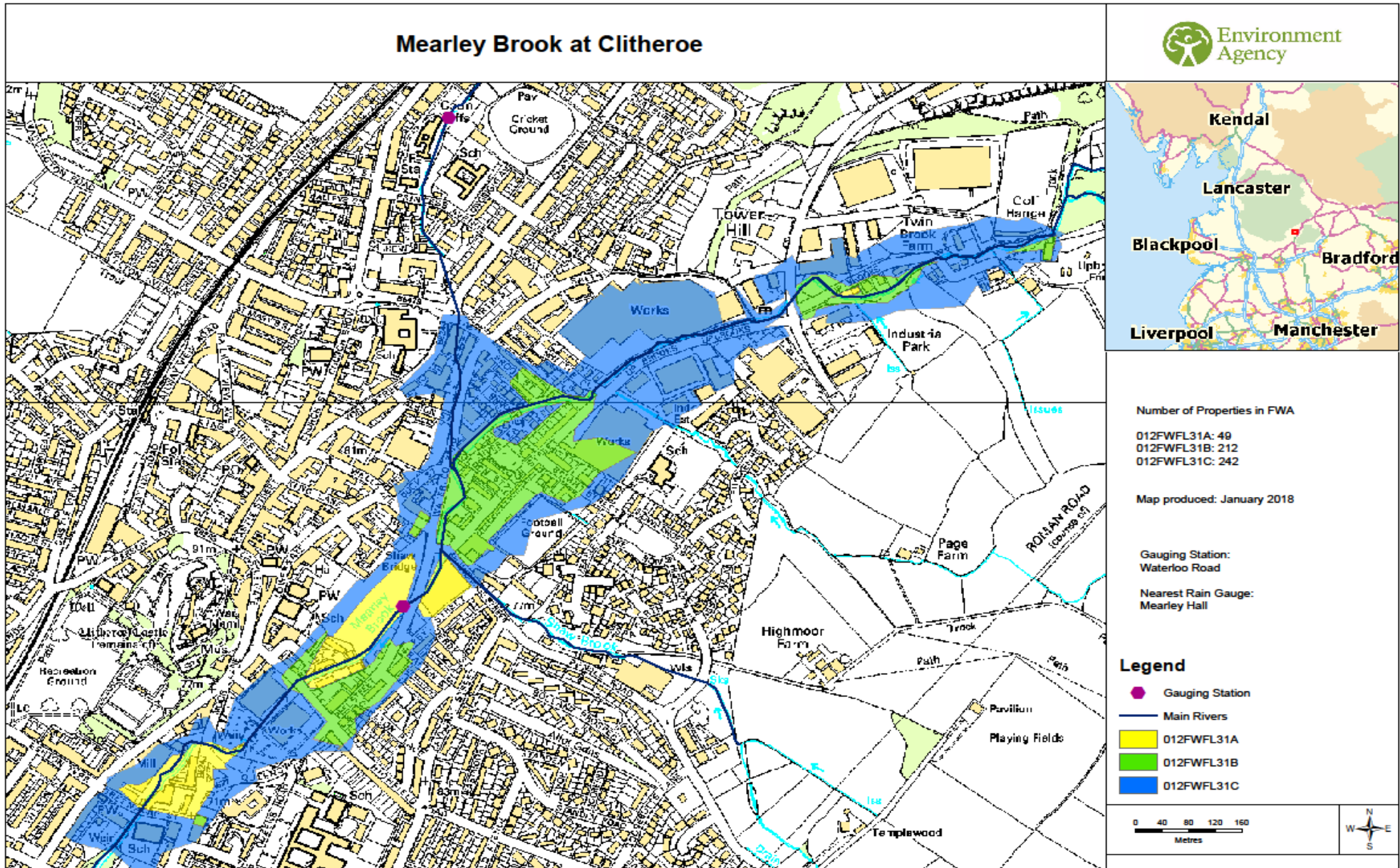
**Text is an extract from the Whalley & Billington Flood Action Group
END**



Operational Multi Agency Response	Priority	Ref No	Check
Operational Response(Bronze) Point (District) (Dynamic)	Priority 1		
Forward Command Point (Multi Agency) (Dynamic)	Priority 1		
Rendezvous Point (Multi Agency) (Dynamic)	Priority 1		
Essential infrastructure	Priority	Ref No	Check
Evacuation Collection Point	Priority 1		
Evacuation Route	Priority 1		
Rest Centres (Vulnerable People)	Priority 1		
electricity generation, transmission and distribution	Priority 1		
gas production, transport and distribution	N/a		
oil products production, transport and distribution	N/a		
telecommunication	Priority 2		
water supply (drinking water, waste water/sewage)	Priority 1		
stemming of surface water (e.g. dikes and sluices)	Priority 1		
transportation systems (key road, access egress)	Priority 1		
transportation systems (fuel supply)	N/a		
transportation systems (harbours, inland shipping)	N/a		
Caravan sites, and mobile homes (Vulnerable People)	Priority 2		
Identified Individual properties at risk, Including bas (Vulnerable People)	Priority 2		
Major Pipelines	N/a		
COMAH Sites	N/a		
rescue services (Fire and Rescue)	N/a		
rescue services (MCA)	N/a		
security services (police)	N/a		
security services (military)	N/a		
public health ambulances)	N/a		
transportation systems (railway network)	Priority 2		
transportation systems	Priority 2		
schools, colleges (Vulnerable People)	Priority 2		
rest homes (Vulnerable People)	Priority 2		
Doctors (Vulnerable People)	Priority 2		
nursery's (Vulnerable People)	Priority 3		
public health (hospitals) (Vulnerable People)	N/a		
Major Shopping Centres (Vulnerable People)	N/a		
Parish Council Buildings (Vulnerable People)	Priority 2		
Local Authority buildings	N/a		
Landfill and waste management sites	N/a		
agriculture food production and distribution	N/a		
financial services (banking, clearing)	N/a		



4. CLITHEROE MEARLEY BROOK FLOOD WARNING AREA - L31, Map 2018





Mearley Brook at Clitheroe 012FWFL31

The Flood Warning Area includes the low-lying area adjacent to Mearley Brook from the golf range to the confluence with Pendleton Brook.

Area Affected The localities affected and the impacts of these messages within this particular Flood Warning Area are described in the table below.

Flood Warning Area	Flood Warning Area Reference Code*	Locations affected	Messages Issued
Mearley Brook at Clitheroe Area A	012FWFL31A	Including Elimdene on Up-Brooks, the Old Saw Mill on Shawbridge Street, properties on Highfield Road, Bayley Fold, Whalley Road and Mearley Street.	Flood Warning Sub Area Flood Warning Update Severe Flood Warning
Mearley Brook at Clitheroe Area B	012FWFL31B	Includes properties on Up-Brooks, Brook Street, River Lea Gardens, Bright Street, Peel Street, Bayley Fold and Highfield Road.	Flood Warning Sub Area Flood Warning Update Severe Flood Warning
Mearley Brook at Clitheroe Area C	012FWFL31C	Includes Up-Brooks, Ultraframe, Whittle Close, Brook Street, River Lea Gardens, York Street, Waterloo Road, Duck Street, Football Ground, Sainsbury's, Greenacre Street, Woone Lane.	Flood Warning Sub Area Flood Warning Update Severe Flood Warning

*The Flood Warning Area Reference Code is the unique code that is given to all Flood Warning Areas. This appears on all faxes and emails that partners receive when a warning is issued.

Property Numbers and Probability of Flooding

The number of properties we expect to be affected by flooding in the Flood Warning Area will be reported to partners in the messages received from FWD.

This Flood Warning Area is divided into Sub-Areas that are listed below

Flood Warning Area Reference Code*	Frequency of flooding	Probability of flooding	Number of properties in Flood Warning Area
012FWFL31A	1 in 10 yrs.	10%	40
012FWFL31B	1 in 10 yrs.	10%	212
012FWFL31C	1 in 100 yrs.	1%	242



*The Flood Warning Area Reference Code is the unique code that is given to all Flood Warning Areas. This appears on all faxes and emails that partners receive when a warning is issued.

We believe that the amount of time between warning and flooding for this Flood Warning Area is approximately one hour. We will endeavour to give at least a one hour lead time for Flood Warnings, however this may not always be possible. There is no target lead time for Severe Flood Warnings as these may be issued before, during or after flooding.

Communication of Flood Warnings

Flood Warnings for this area will be sent to the public using the following methods:

Flood Warning Area Reference Code*	Quickdial Code	Warning Method
012FWFL31A	02222212	<ul style="list-style-type: none"> • Floodline Warnings Direct • Loudhailers • Media • BBC Radio Lancashire
012FWFL31B	02222212	
012FWFL31C	02222212	

*The Flood Warning Area Reference Code is the unique code that is given to all Flood Warning Areas. This appears on all faxes and emails that partners receive when a warning is issued.

History of Flooding in this Area

Year	Month/Period	Number of Properties/Area Affected
2015	26th December	8 properties are known to have suffered from internal flooding at this location on however there is currently only limited information available regarding the cause and source of this event.
2007	July	Shawbridge Street, 3 properties flooded.
2002	June	Up-Brooks, 3 properties flooded.
1999	September	Ultraframe, Salthill Road back gardens and Walker Street.
1999	February	Mearley Street and Queensway.
1992	January	Shawbridge Street, 4 properties flooded.
1968	August	Taylor Street, approximately 30 properties flooded.

Location of Our Flood Defences

There are no known Environment Agency flood defences in this area.

There are other defences which, are not owned or operated by us. These are not listed in this section

Contingency Warning Arrangements

Should the main methods of warning fail we will attempt to issue warnings to this area by using the following contingency arrangements:



Critical infrastructure is a term used to describe assets that are essential for the functioning of a society and economy. Most commonly associated with the term are facilities for:

- electricity generation, transmission and distribution;
- gas production, transport and distribution;
- oil and oil products production, transport and distribution;
- telecommunication;
- water supply (drinking water, waste water/sewage, stemming of surface water (e.g. dikes and sluices));
- agriculture food production and distribution;
- heating (e.g. natural gas, fuel oil, district heating);
- public health (hospitals, ambulances);
- transportation systems (fuel supply, railway network, airports, harbours, inland shipping);
- financial services (banking, clearing);
- rescue services (Fire and Rescue, MCA);
- security services (police, military).

Others to Include vulnerable groups

Doctors, schools, colleges, rest homes, nursery's, Major Shopping Centres, Local Authority buildings, COMAH Sites, Major Pipelines, Rest Centres.

Mearley Brook (Flood Risk Vulnerability Assessment)

Essential infrastructure (Priority 1)

- Essential transport infrastructure (including mass evacuation routes)** which has to cross the area at risk –.

Highly vulnerable (Priority 2)

- Police station, Ambulance station and **Fire station (Princess Avenue)**.
- Command Centres and telecommunications installations required to be operational during flooding.
- Emergency Evacuation point/route - Primary – Tesco Carpark, Waterloo Road.**
- Basement dwellings.



- Caravans, mobile homes and park homes intended for permanent residential use.
- Installations requiring hazardous substances consent.

More vulnerable (Priority 3)

- Hospitals.
- Residential institutions** such as residential care homes, children's homes, social services homes, prisons and hostels.
- Buildings used for:** **dwelling houses**; student halls of residence; **drinking establishments**; nightclubs; and hotels.
- Non-residential uses for health services, **nurseries and educational establishments**.
- Landfill and sites used for waste management facilities for hazardous waste.²
- Sites used for holiday or short-let caravans and camping, subject to a specific warning and evacuation plan.

Less vulnerable (Priority 4)

- Police, ambulance and fire stations which are not required to be operational during flooding.
- Buildings used for: **shops**; financial, professional and other services; **restaurants and cafes**; hot food takeaways; offices; **general industry**; **storage and distribution**; non-residential institutions not included in 'more vulnerable'; and assembly and leisure.
- Land and buildings used for agriculture and forestry.
- Waste treatment (except landfill and hazardous waste facilities).
- Minerals working and processing (except for sand and gravel working).



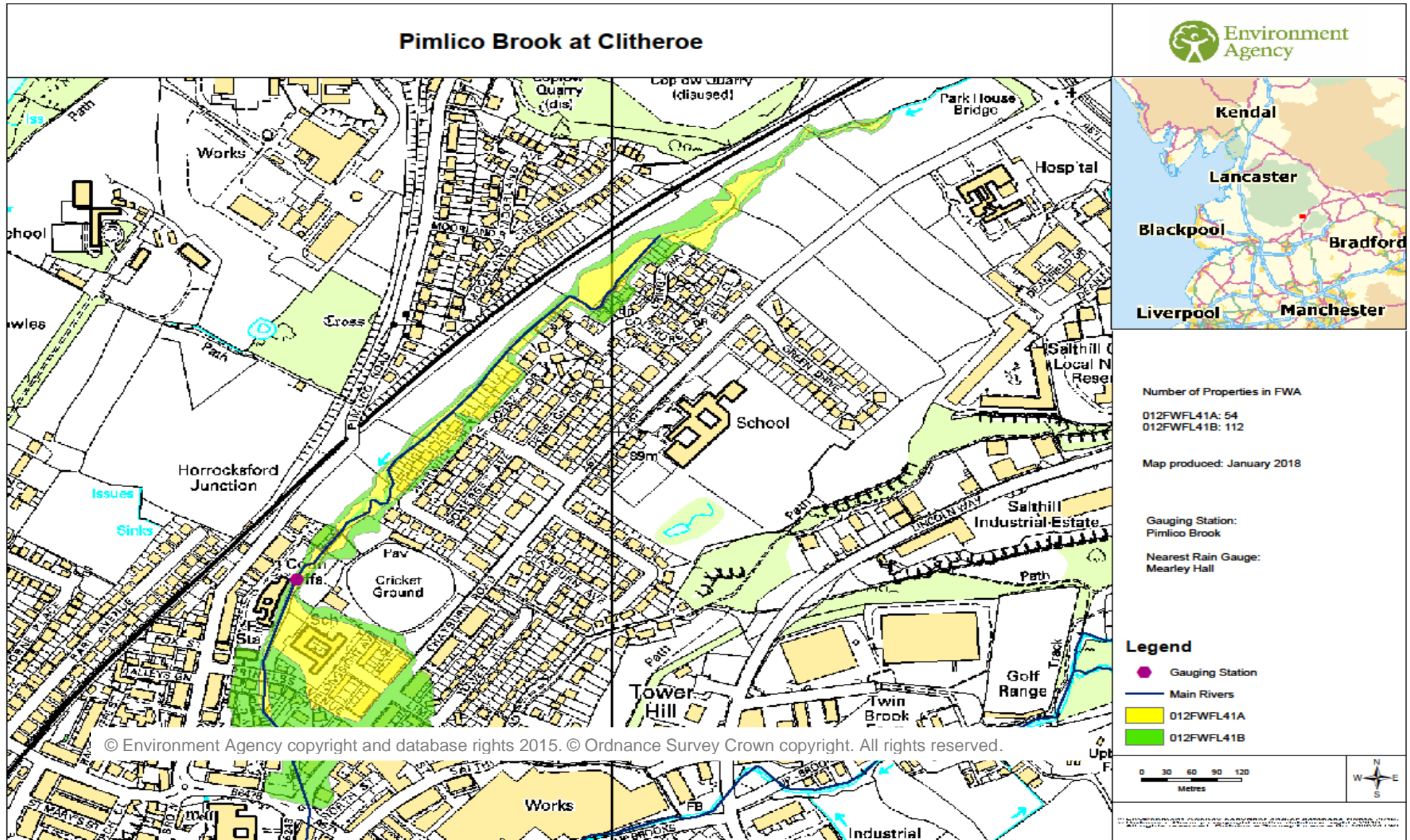


Ribble Valley Flood Plan

Operational Multi Agency Response	Priority	Ref No	Check
Operational Response (Bronze) Point (District) (Dynamic)	Priority 1		
Forward Command Point (Multi Agency) (Dynamic)	Priority 1		
Rendezvous Point (Multi Agency) (Dynamic)	Priority 1		
Essential infrastructure	Priority	Ref No	Check
Evacuation Collection Point	Priority 1		
Evacuation Route	Priority 1		
Rest Centres (Vulnerable People)	Priority 1		
electricity generation, transmission and distribution	Priority 1		
gas production, transport and distribution	N/a		
oil products production, transport and distribution	N/a		
telecommunication	N/a		
water supply (drinking water, waste water/sewage)	Priority 1		
stemming of surface water (e.g. dikes and sluices)	N/a		
transportation systems (key road, access egress)	Priority 1		
transportation systems (fuel supply)	N/a		
transportation systems (harbours, inland shipping)	N/a		
Caravan sites, and mobile homes (Vulnerable People)	N/a		
Identified Individual properties at risk, Including bas (Vulnerable People)	Priority 2		
Major Pipelines	N/a		
COMAH Sites	N/a		
rescue services (Fire and Rescue)	N/a		
rescue services (MCA)	N/a		
security services (police)	N/a		
security services (military)	N/a		
public health ambulances)	N/a		
transportation systems (railway network)	N/a		
transportation systems (airports)	Priority 2		
schools, colleges (Vulnerable People)	Priority 3		
rest homes (Vulnerable People)	Priority 3		
Doctors (Vulnerable People)	N/a		
nursery's (Vulnerable People)	Priority 3		
public health (hospitals) (Vulnerable People)	N/a		
Major Shopping Centres (Vulnerable People)	N/a		
Parish Council Buildings (Vulnerable People)	N/a		
Local Authority buildings	N/a		
Landfill and waste management sites	N/a		
agriculture food production and distribution	Priority 4		
financial services (banking, clearing)	N/a		



5. CLITHEROE PIMLICO BROOK FLOOD WARNING AREA L41, Map 2018





Pimlico Brook at Clitheroe 012FWFL41

The Flood Warning Area includes the areas adjacent to Pimlico Brook in Clitheroe, from Park House Bridge to the Grammar School roundabout.

Area Affected

The localities affected and the impacts of these messages within this particular Flood Warning Area are described in the table below.

Flood Warning Area	Flood Warning Area Reference Code*	Locations affected	Messages Issued
Pimlico Brook at Clitheroe Area A	012FWFL41A	Properties in Longsight Avenue and Chatburn Road near to the cricket ground, as well as Warwick Drive and Dorset Drive.	Flood Warning Sub Area Flood Warning Update Severe Flood Warning
Pimlico Brook at Clitheroe Area B	012FWFL41B	Properties in Princess Avenue, Causeway Croft and Chatburn Road near to the Grammar School roundabout.	Flood Warning Sub Area Flood Warning Update Severe Flood Warning

*The Flood Warning Area Reference Code is the unique code that is given to all Flood Warning Areas. This appears on all faxes and emails that partners receive when a warning is issued.

Property Numbers and Probability of Flooding

The number of properties we expect to be affected by flooding in the Flood Warning Area will be reported to partners in the messages received from FWD.

This Flood Warning Area is divided into Sub-Areas that are listed below

Flood Warning Area Reference Code*	Frequency of flooding	Probability of flooding	Number of properties in Flood Warning Area
012FWFL41A	1 in 10 years	10%	54
012FWFL41B	1 in 75 years	1.3%	112

*The Flood Warning Area Reference Code is the unique code that is given to all Flood Warning Areas. This appears on all faxes and emails that partners receive when a warning is issued.

We believe that the amount of time between warning and flooding for this Flood Warning Area is approximately half an hour. We will endeavour to give at least a half hour lead time for Flood Warnings, however this may not always be possible. There is no target lead time for Severe Flood Warnings as these may be issued before, during or after flooding.



Communication of Flood Warnings

Flood Warnings for this area will be sent to the public using the following methods:

Flood Warning Area Reference Code*	Quickdial Code	Warning Method
012FWFL41A	02222214	<ul style="list-style-type: none"> • Floodline Warnings Direct • Loudhailers • Media • BBC Radio Lancashire
012FWFL41B	02222214	

*The Flood Warning Area Reference Code is the unique code that is given to all Flood Warning Areas. This appears on all faxes and emails that partners receive when a warning is issued.

History of Flooding in this Area

Year	Month/Period	Number of Properties/Area Affected
		The Environment Agency does not hold any records of flooding from this specific watercourse.

Location of Our Flood Defences

There are no known Environment Agency flood defences in this area.

There are other defences which, are not owned or operated by us. These are not listed in this section

Our Additional Operational Response

There are no specific operational responses for this Flood Warning Area.

Contingency Warning Arrangements

Should the main methods of warning fail we will attempt to issue warnings to this area by using the following contingency arrangements:

- We will endeavour to fax Flood Alerts, Flood Warnings and Severe Flood Warnings to those organisations covered by this plan using a fax bureau service.



Critical infrastructure is a term used to describe assets that are essential for the functioning of a society and economy. Most commonly associated with the term are facilities for:

- electricity generation, transmission and distribution;
- gas production, transport and distribution;
- oil and oil products production, transport and distribution;
- telecommunication;
- water supply (drinking water, waste water/sewage, stemming of surface water (e.g. dikes and sluices));
- agriculture food production and distribution;
- heating (e.g. natural gas, fuel oil, district heating);
- public health (hospitals, ambulances);
- transportation systems (fuel supply, railway network, airports, harbours, inland shipping);
- financial services (banking, clearing);
- rescue services (Fire and Rescue, MCA);
- security services (police, military).

Others to Include vulnerable groups

Doctors, schools, colleges, rest homes, nursery's, Major Shopping Centres, Local Authority buildings, COMAH Sites, Major Pipelines, Rest Centres.

Pimlico Brook (Flood Risk Vulnerability Assessment)

Essential infrastructure (Priority 1)

- Essential transport infrastructure (including mass evacuation routes)** which has to cross the area at risk –.

Highly vulnerable (Priority 2)

- Police station, Ambulance station and **Fire station (Princess Avenue)**.
- Command Centres and telecommunications installations required to be operational during flooding.
- Emergency Evacuation point/route - Primary – Tesco Carpark, Waterloo Road.**
- Basement dwellings.
- Caravans, mobile homes and park homes intended for permanent residential use.



- Installations requiring hazardous substances consent.

More vulnerable (Priority 3)

- Hospitals.
- Residential institutions** such as residential care homes, children's homes, social services homes, prisons and hostels.
- Buildings used for:** **dwelling houses**; student halls of residence; **drinking establishments**; nightclubs; and hotels.
- Non-residential uses for health services, **nurseries and educational establishments**.
- Landfill and sites used for waste management facilities for hazardous waste.²
- Sites used for holiday or short-let caravans and camping, subject to a specific warning and evacuation plan.

Less vulnerable (Priority 4)

- Police, ambulance and fire stations which are not required to be operational during flooding.
- Buildings used for: **shops**; financial, professional and other services; **restaurants and cafes**; hot food takeaways; offices; **general industry**; **storage and distribution**; non-residential institutions not included in 'more vulnerable'; and assembly and leisure.
- Land and buildings used for agriculture and forestry.
- Waste treatment (except landfill and hazardous waste facilities).
- Minerals working and processing (except for sand and gravel working).





Ribble Valley Flood Plan

Operational Multi Agency Response	Priority	Ref No	Check
Operational Response(Bronze) Point (District) (Dynamic)	Priority 1		
Forward Command Point (Multi Agency) (Dynamic)	Priority 1		
Rendezvous Point (Multi Agency) (Dynamic)	Priority 1		
Essential infrastructure	Priority	Ref No	Check
Evacuation Collection Point	Priority 1		
Evacuation Route	Priority 1		
Rest Centres (Vulnerable People)	Priority 1		
electricity generation, transmission and distribution	Priority 1		
gas production, transport and distribution	N/a		
oil products production, transport and distribution	N/a		
telecommunication	N/a		
water supply (drinking water, waste water/sewage)	Priority 1		
stemming of surface water (e.g. dikes and sluices)	N/a		
transportation systems (key road, access egress)	Priority 1		
transportation systems (fuel supply)	N/a		
transportation systems (harbours, inland shipping)	N/a		
Caravan sites, and mobile homes (Vulnerable People)	N/a		
Identified Individual properties at risk, Including bas (Vulnerable People)	Priority 2		
Major Pipelines	N/a		
COMAH Sites	N/a		
rescue services (Fire and Rescue)	N/a		
rescue services (MCA)	N/a		
security services (police)	N/a		
security services (military)	N/a		
public health ambulances)	N/a		
transportation systems (railway network)	N/a		
transportation systems (airports)	Priority 2		
schools, colleges (Vulnerable People)	Priority 3		
rest homes (Vulnerable People)	Priority 3		
Doctors (Vulnerable People)	N/a		
nursery's (Vulnerable People)	Priority 3		
public health (hospitals) (Vulnerable People)	N/a		
Major Shopping Centres (Vulnerable People)	N/a		
Parish Council Buildings (Vulnerable People)	N/a		
Local Authority buildings	N/a		
Landfill and waste management sites	N/a		
agriculture food production and distribution	Priority 4		
financial services (banking, clearing)	N/a		



6. RAPID RESPONSE CATCHMENT AREAS

The Environment Agency is currently considering and identifying potential water catchment areas within Ribble Valley, which may result in rapid flooding of property in the event of very heavy 'localised' rainfall based on a 1:200 year event.

In these areas, it is unlikely that the Environment Agency will be able to implement a normal flood warning system to residents and providing a minimum of 1.5 – 2 hours prior notification of potential flooding.

The Environment Agency have identified 6 potential areas.

The areas are:

- **Mearley Brook, Clitheroe**
- **Boyces Brook, Ribchester**
- **Skirden / Kirk Beck, Bolton By Bowland**
- **Waddington Brook, Waddington**
- **West Bradford Brook, West Bradford**
- **Sabden Brook, Sabden**

Details in the plans on next pages

Check the [National Flood Forum](#) or speak to a Floodline adviser to find out how to stay safe during a flood.



Floodline

Telephone: 0345 988 1188

24-hour service

<https://www.gov.uk/help-during-flood>

Ctrl + Click on links

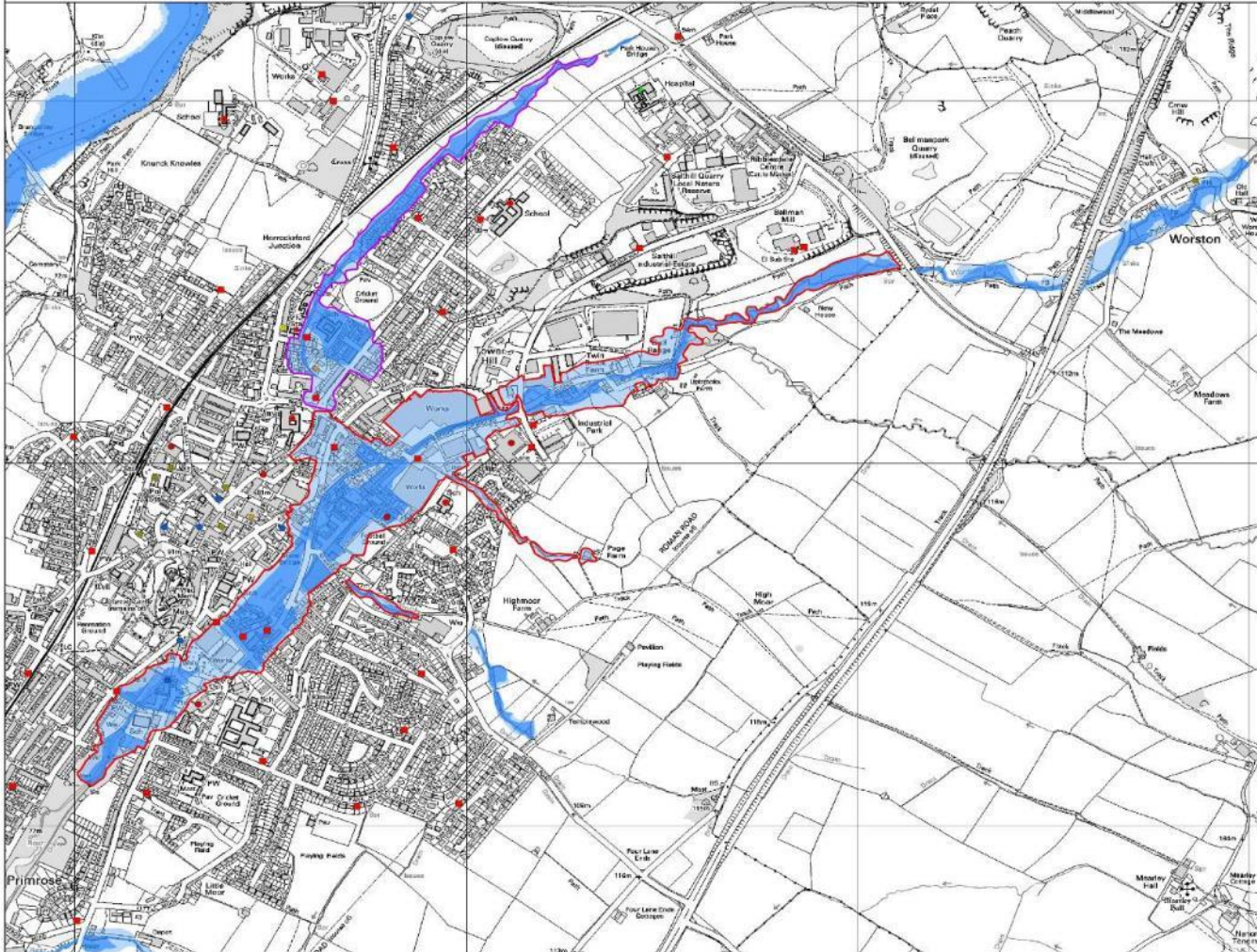


FLOODS
DESTROY
VEŠIKUJ
BE PREPARED



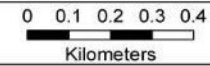
Ribble Valley Flood Plan

CLITHEROE, Flash Flooding Risk Area Mearley Brook and Pimlico Brook



Legend

- * Rest Centre
 - AMBULANCE STATION
 - CAMPING
 - CARAVANNING
 - CHILDRENS NURSERY
 - ELECTRICITY SUB STATION
 - FIRE STATION
 - GUEST HOUSE
 - HEALTH CENTRE
 - HOSPITAL
 - HOTEL
 - POLICE SERVICES
 - PUBLIC HOUSE
 - REST HOME
 - SCHOOL
 - SEWAGE TREATMENT
 - SURGERY
 - TELEPHONE EXCHANGE
- Mearley Brook Risk Area
 Pimlico Brook Risk Area
 Flood Zone 3 (1% prob in any one year)
 Flood Zone 2 (0.1% prob in any one year)

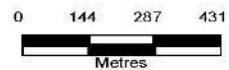
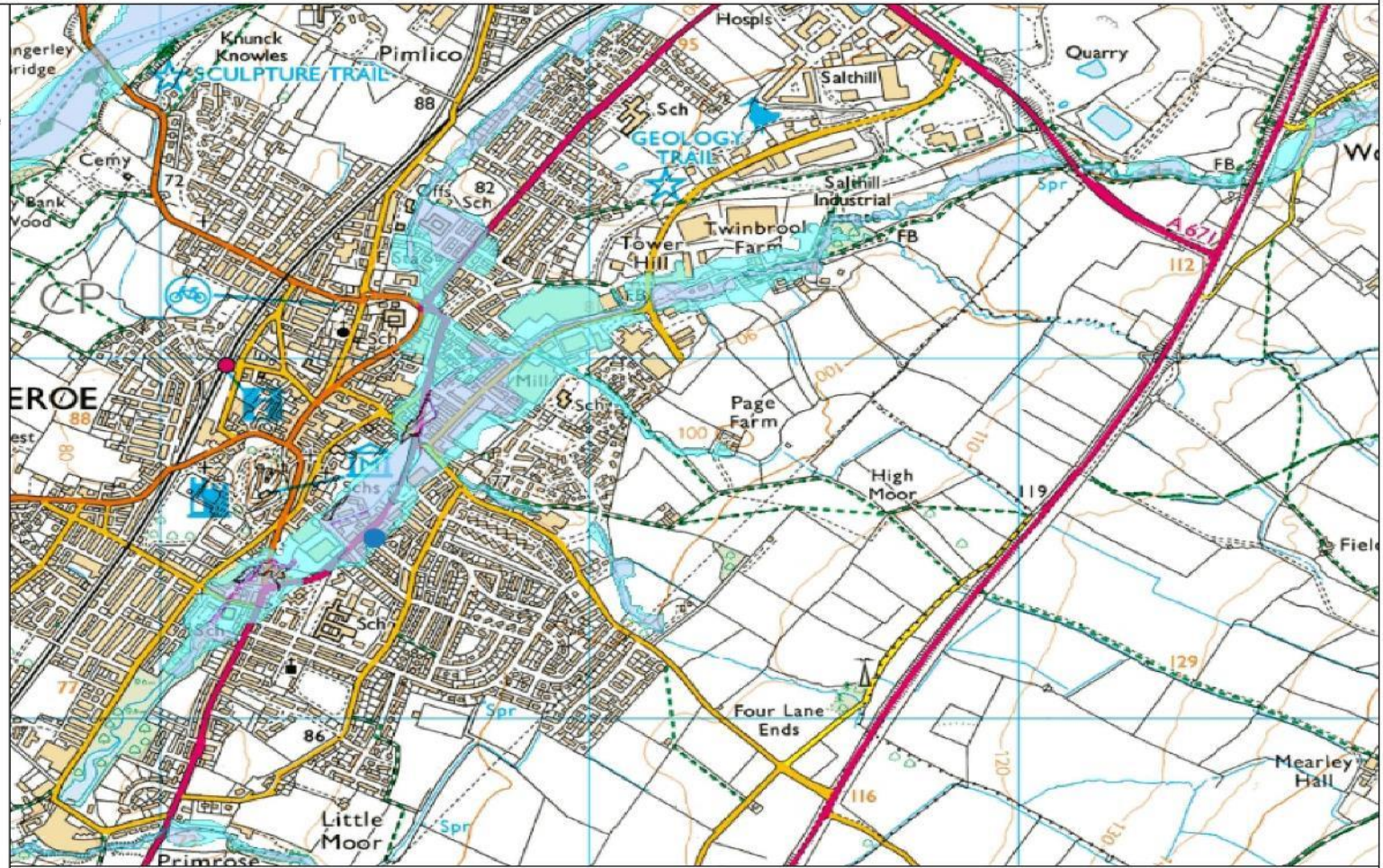


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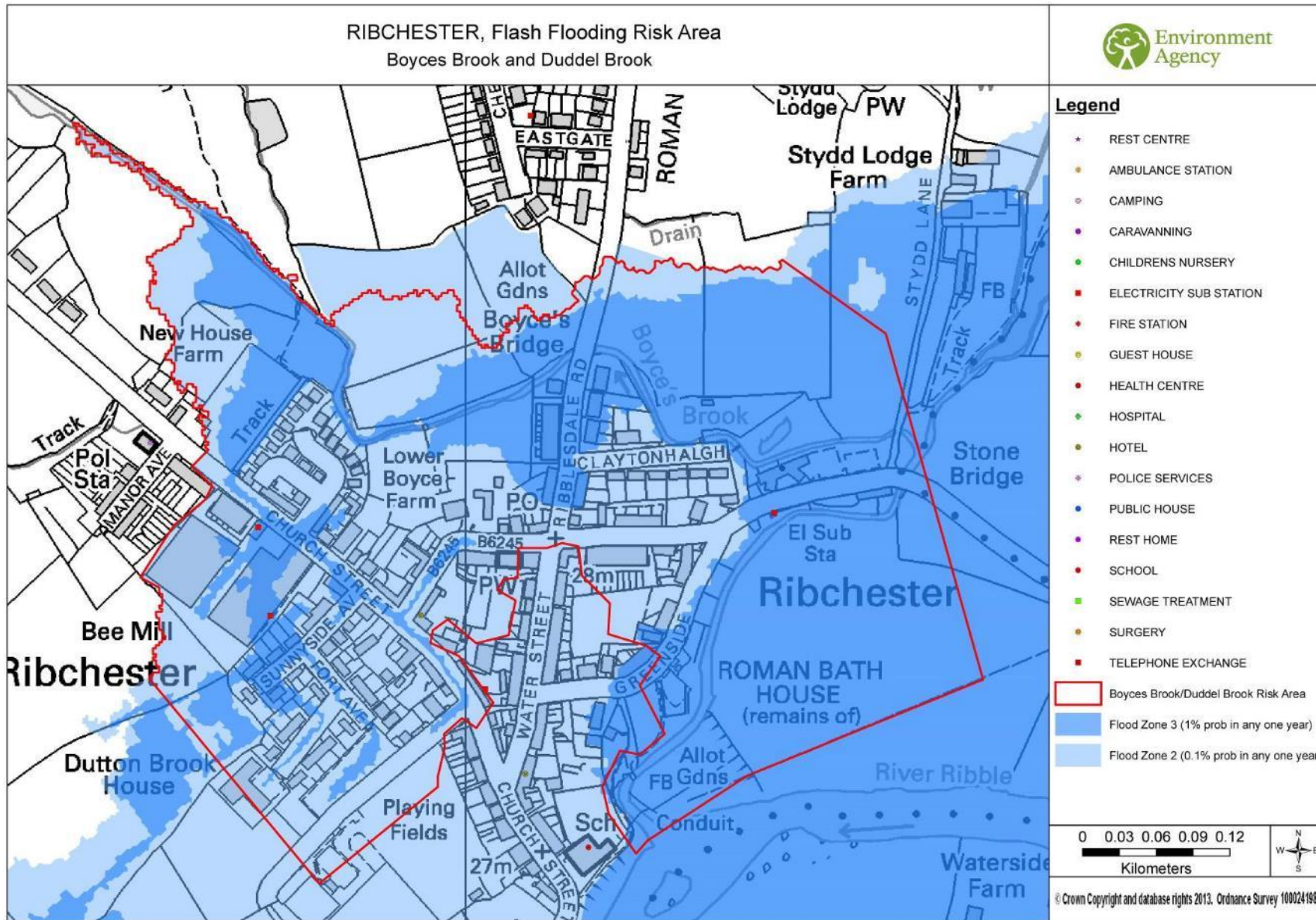


Legend

- Defences
- Flood Storage Areas
- Areas benefiting from flood defence
- Flood Zone 3
- Flood Zone 2
- County
- Local Authority



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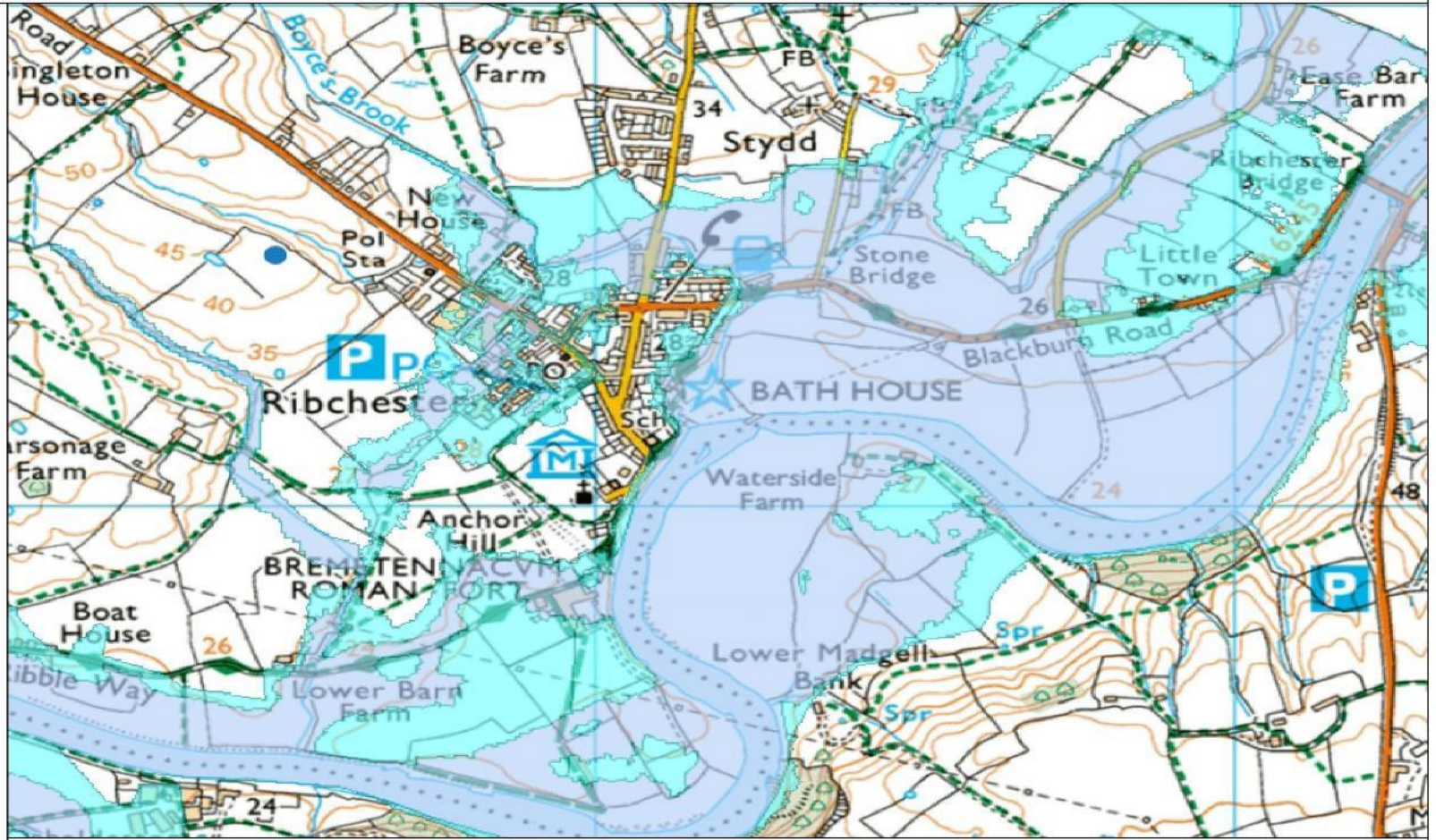


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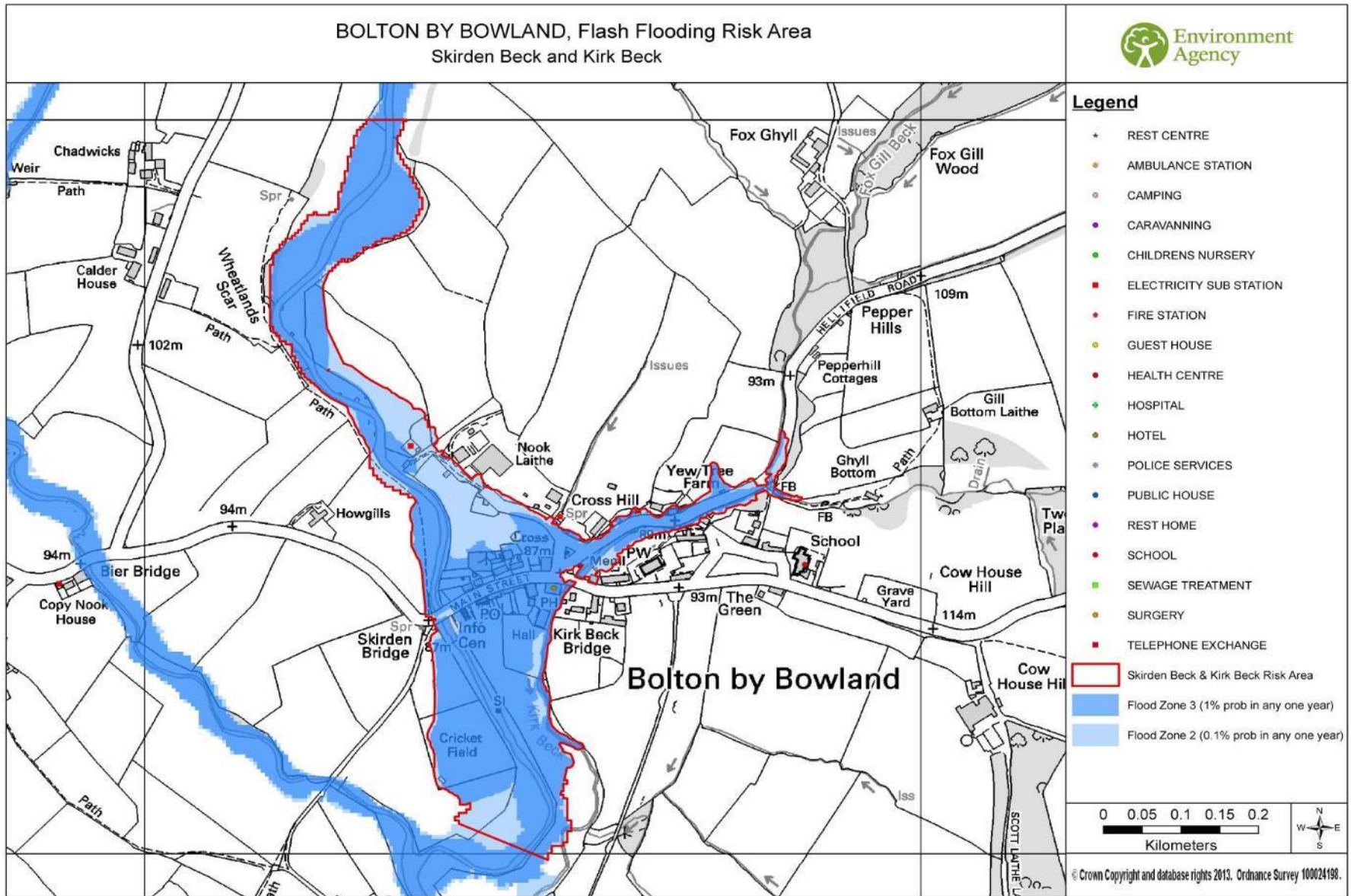


Legend

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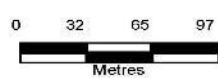
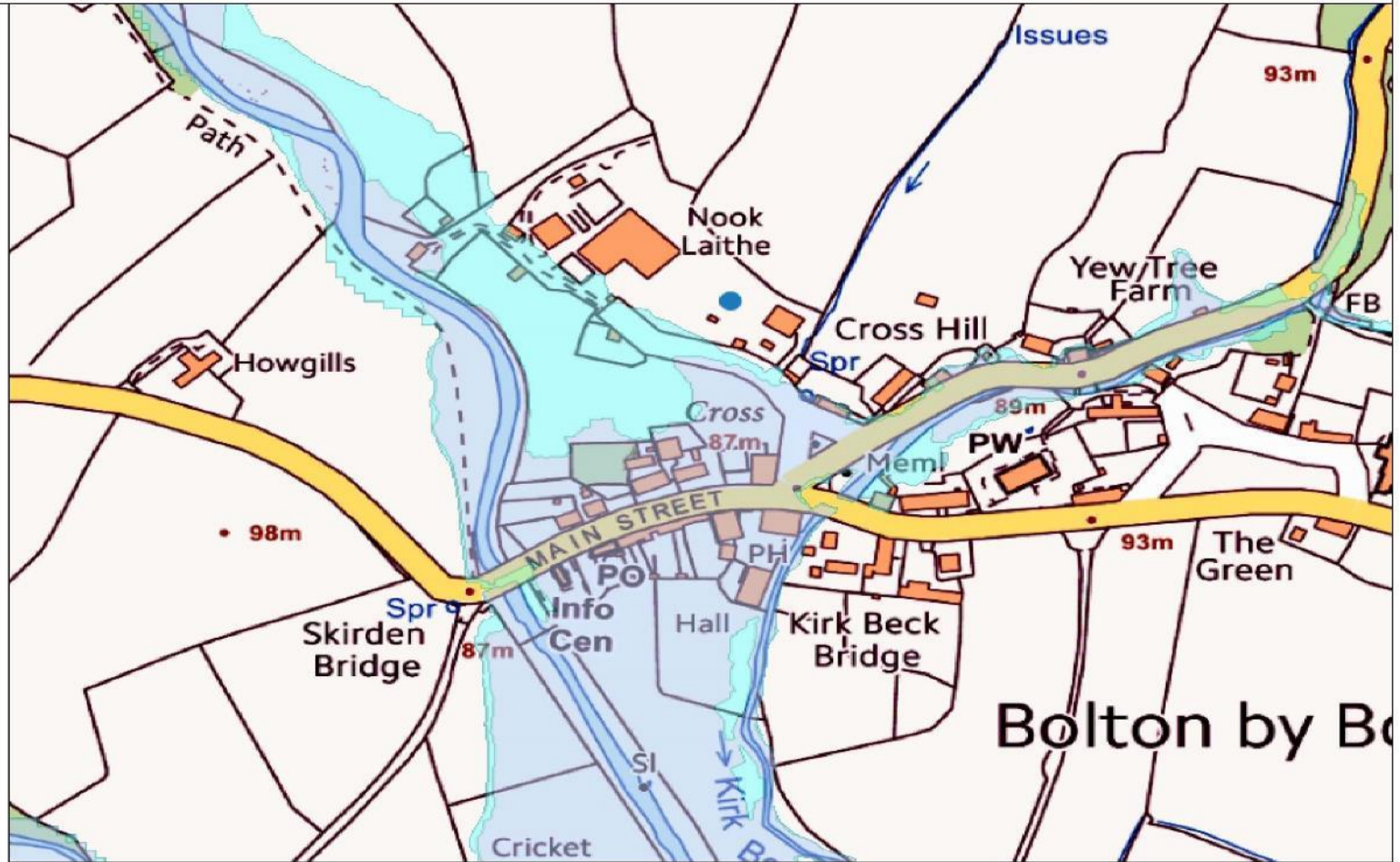


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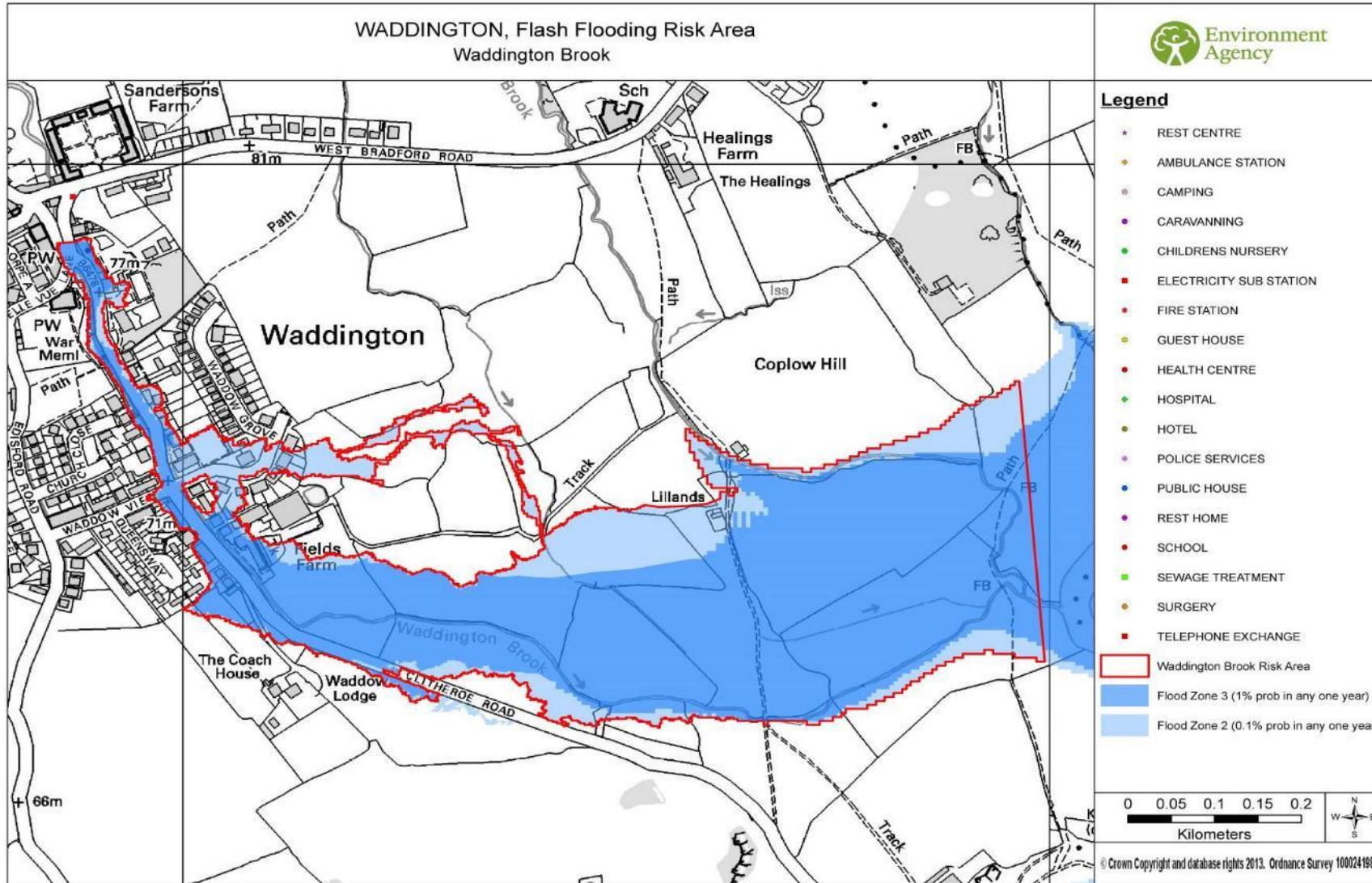
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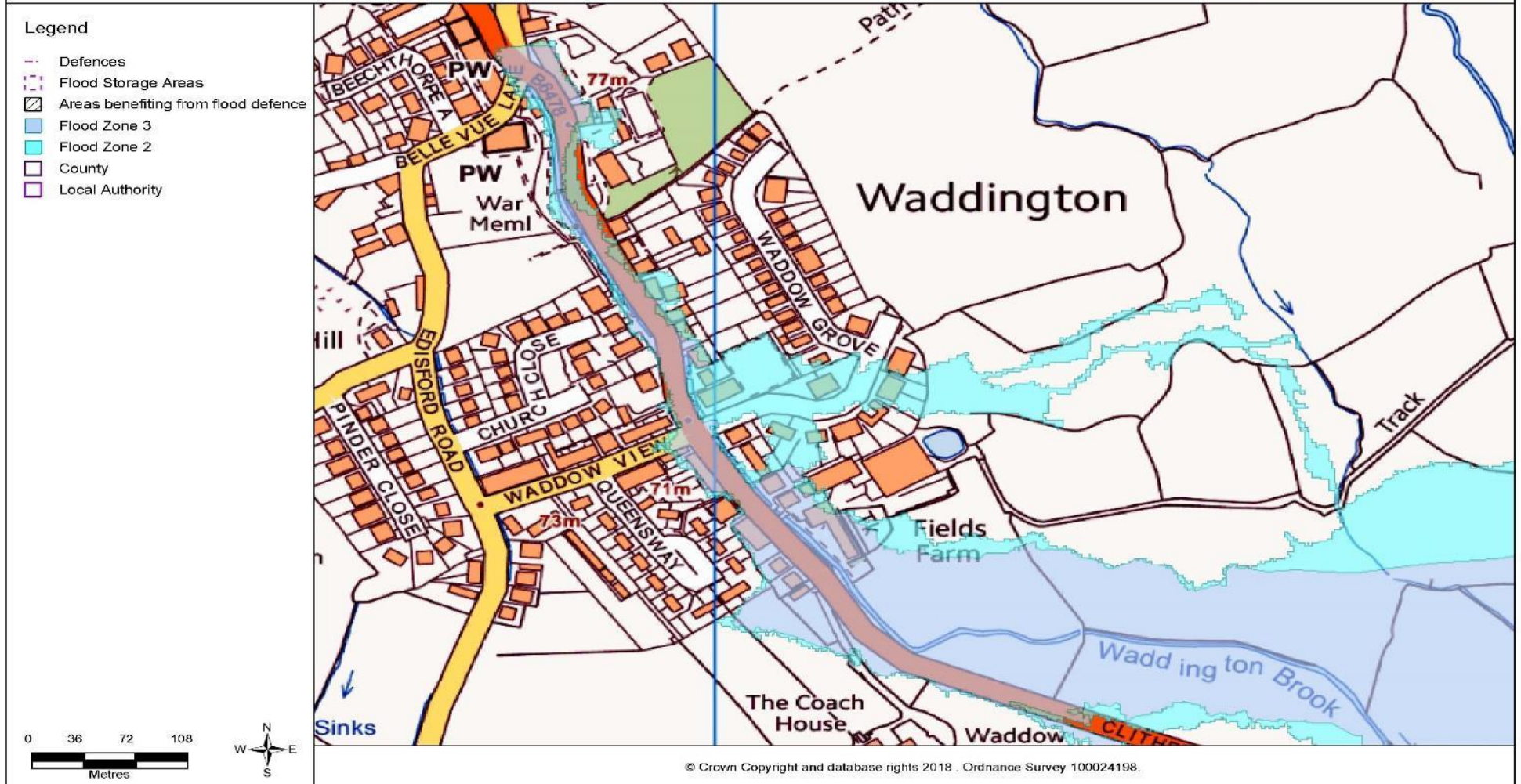
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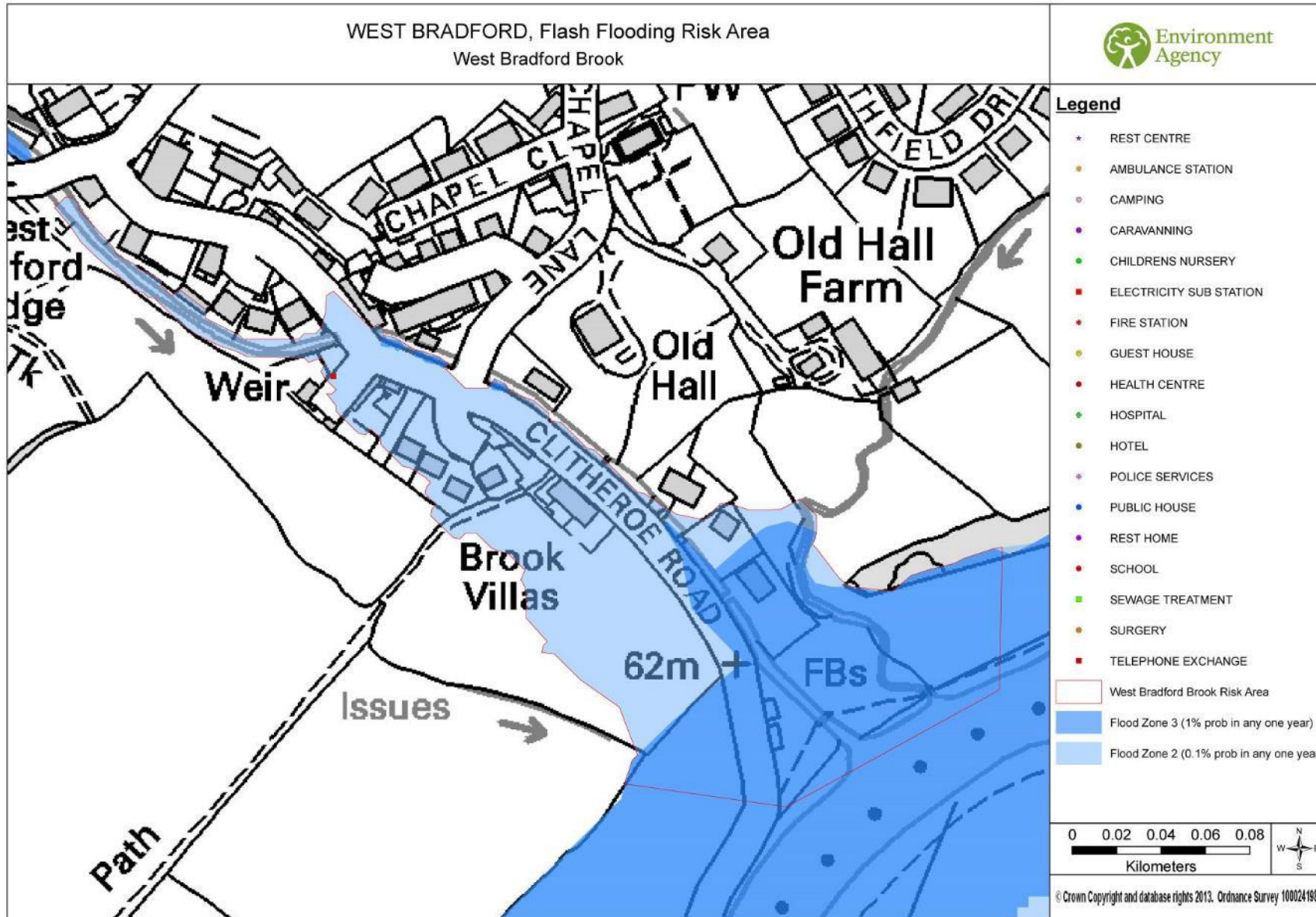


Ribble Valley Flood Plan



Map data 2018



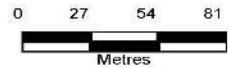


Map data 2018

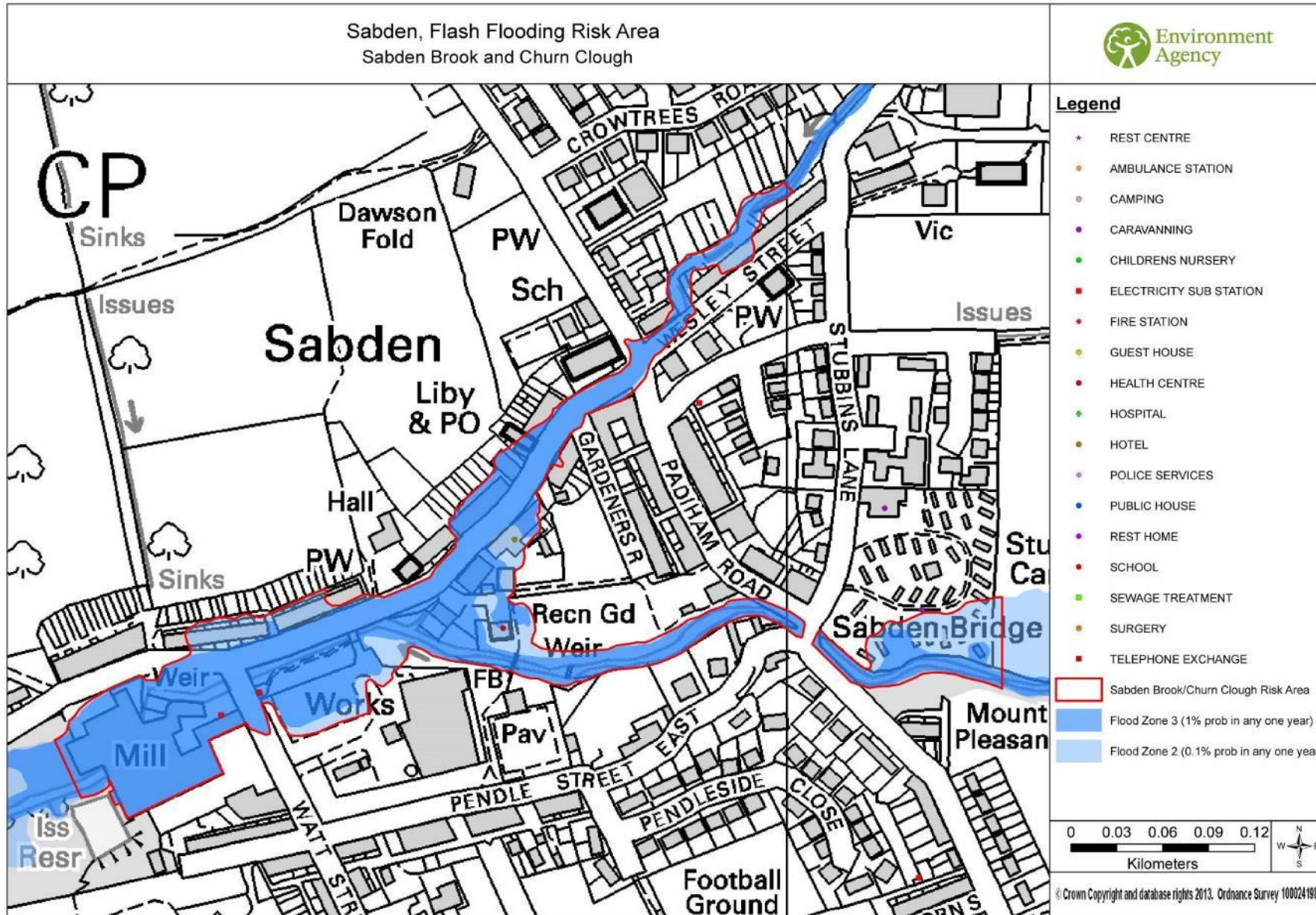


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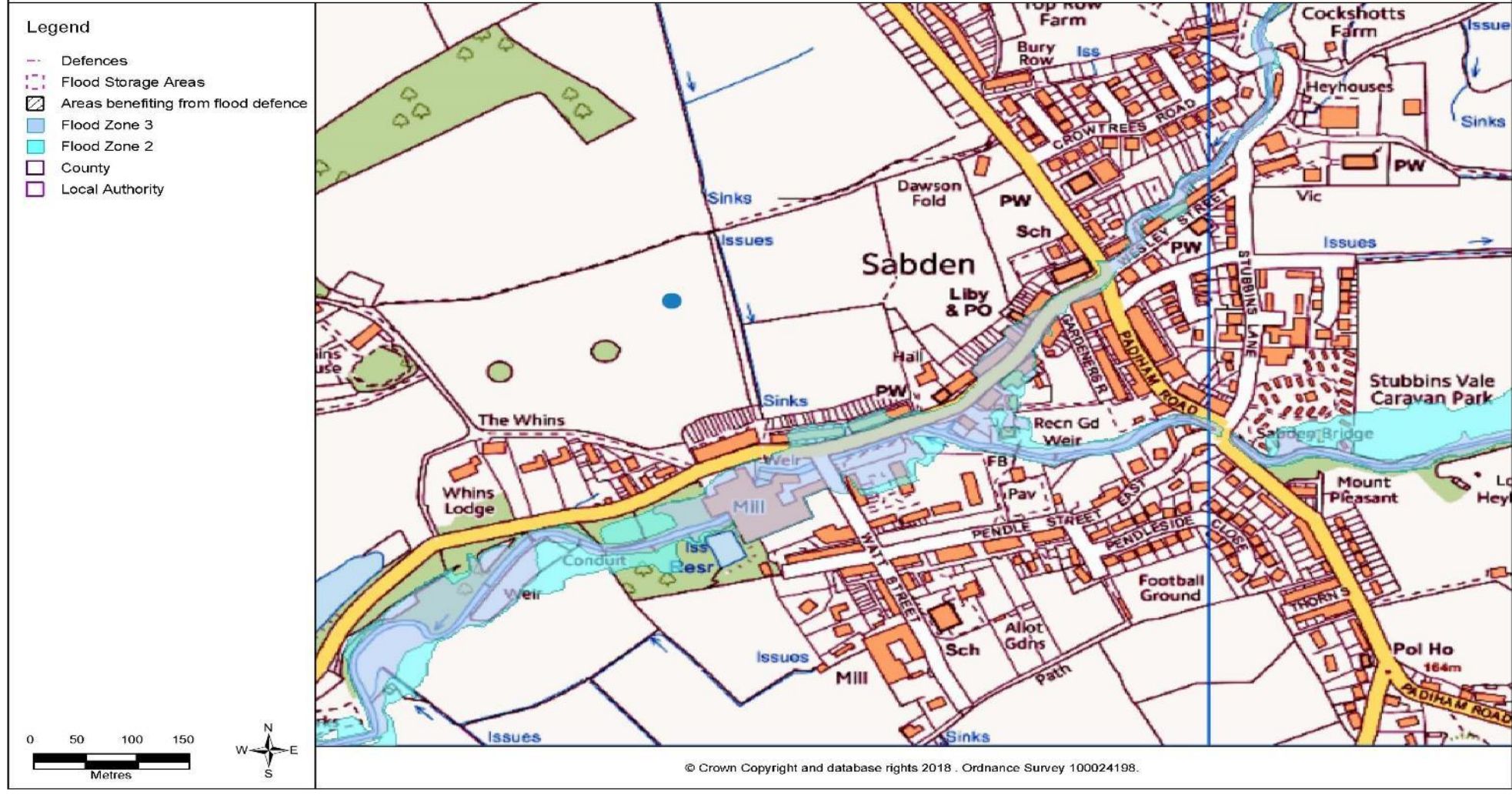
- Defences
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- Flood Zone 2
- County
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Map data 2018





EMERGENCY RESPONSE – AIDE MEMOIRE

Emergency Response Procedure:

An emergency call has been received by the Council

The procedure is to contact **one** of the officers below - called in the order in which they are displayed.

Heather Barton
Chris Shuttleworth
Marshal Scott (CE)
John Heap
Jane Pearson
or any
Head of Service

Please note:

Out of hours contact details are:

- on the next page
- in Appendix B – of the District Plan
- Also on your Contact Card

Details of the emergency have been recorded and you have been contacted.

Your Role:

Familiarise yourself with the tasks expected of you. Responders may have duties to perform at the scene (Bronze), or at Tactical control (Silver) or at Strategic control (Gold) centres, Strategic control (Gold) centres are managed by the Police

1. Call the contact no. given to you and obtain as much information as you can – validate the call, type of incident, probable assistance needed, where to report to, access routes etc. Remember to keep a record of this and subsequent information.
2. Decide who should attend the incident - If **you** are to attend, give your estimated time of your arrival and contact details. Ensure you have a photographic id. card and personal protective equipment (PPE). Proceed to the scene and report to the police officer at the Forward Control Point (Bronze).

If it is not you to attend the scene then:

3. Call the relevant person and disseminate the information to them. Request that they attend the scene, ensuring the above conditions are met and remember to give them your contact details and whereabouts.
4. Based on the information received, consider:

Opening the Council's Emergency Control Centre (ECC) in:

a) Committee Room 1, Council Suite, Church Street

or

b) Training Room, Council Offices, Level D

- Depending upon the severity of the emergency, convening a meeting of the Emergency Management Team (EMT) plus appropriate support staff.
 - Depending upon the severity of the emergency, contact a senior officer eg Chief Executive or Department Director.
5. Remember to engage, if possible, the assistance of others, eg the staff member who contacted you, to assist you to make contact with others on your behalf, to cascade information.

Ensure that you can gain access to the Council Suite / Council Offices

EMERGENCY RESPONSE – AIDE MEMOIRE

Contact Card – Emergency Management Team

Name	Service Unit	Home Tel.	Mobile Tel.
Marshal Scott	Chief Executive		
John Heap	Director of Community Services		
Jane Pearson	Director of Resources		
Diane Rice	Head of Legal and Democratic Services		
Heather Barton	Head of Environmental Health		
Adrian Harper	Head of Engineering Services		
Colin Hirst	Head of Regeneration and Housing		
Michelle Smith	Head of Human Resources		
Mark Berveridge	Head of Cultural and Leisure Services		
John Macholc	Head of Planning Services		
Lawson Oddie	Head of Financial Services		
Mark Edmondson	Head of Revenues and Benefits		
LRF Radio ERAL*	Contact via CCTV control		
Chris Shuttleworth	Emergency Planning Officer		

The LRF Radio ERAL* Emergency Radio Area Link connects all agencies and flood groups into a common operating platform over Private PMR Radio

Appendix C (Section7) List of effected properties - Boxing Day flood 2015

Category	Details
Community name:	Billington
District:	Ribble Valley
Community reference number:	MSFW261
Details of the flood event:	50 properties are known to have suffered from internal flooding at this location on 26th December 2015. Preliminary reports indicate that the primary source of the flooding was the River Calder which overtopped its banks.

Category	Details
Community name:	Clitheroe
District:	Ribble Valley
Community reference number:	MSFW225
Details of the flood event:	8 properties are known to have suffered from internal flooding at this location on 26th December 2015, however there is currently only limited information available regarding the cause and source of this event.

Category	Details
Community name:	Longridge
District:	Ribble Valley
Community reference number:	MSFW176

Details of the flood event: 1 property is known to have suffered from internal flooding at this location on 5th December 2015 and 1 property is known to have suffered from internal flooding at this location on 26th December 2015, however there is currently only limited information available regarding the cause and source of this event.

Category Details

Community name: Pendleton (Barrow Brook Area)

District: Ribble Valley

Community reference number: MSFW146

Details of the flood event: 1 property is known to have suffered from internal flooding at this location on 26th December 2015, however there is currently only limited information available regarding the cause and source of this event.

Category Details

Community name: Pendleton (Cockerill Terrace Area)

District: Ribble Valley

Community reference number: MSFW148

Details of the flood event: 2 properties are known to have suffered from internal flooding at this location on 26th December 2015, however there is currently only limited information available regarding the cause and source of this event.

Category	Details
Community name:	Pendleton (Pendleton Road Area)
District:	Ribble Valley
Community reference number:	MSFW147
Details of the flood event:	1 property is known to have suffered from internal flooding at this location on 5th December 2015, however there is currently only limited information available regarding the cause and source of this event. A review of the area has identified an ordinary watercourse located close to the affected property, but it is not clear at this stage whether this was the primary source of the flooding.

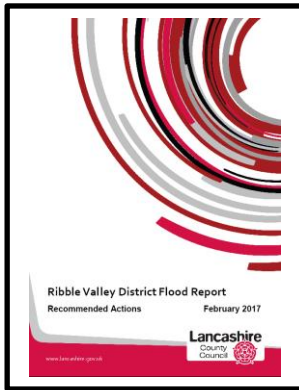
Category	Details
Community name:	Read
District:	Ribble Valley
Community reference number:	MSFW140
Details of the flood event:	3 properties are known to have suffered from internal flooding at this location on 26th December 2015. Preliminary reports indicate that the primary source of the flooding was the River Calder which overtopped its banks.

Category	Details
Community name:	Whalley
District:	Ribble Valley
Community reference number:	MSFW93
Details of the flood event:	210 properties are known to have suffered from internal flooding at this location during December 2015. 11 properties are known to have flooded internally on 5 th December 2015 and 3 properties are known to have flooded internally on 12 th December 2015. Preliminary reports indicate that the primary source of the flooding was the Ordinary Watercourse adjacent to Brookside Close which overtopped its banks. 196 properties are known to have flooded internally on 26 th December 2015. Preliminary reports indicate that the primary source of the flooding was the River Calder which overtopped its banks.

Details	Details
Community name:	Ribchester
District:	Ribble Valley
Community reference number:	MSFW139
Details of the flood event:	17 properties are known to have suffered from internal flooding at this location on 26 th December 2015. Preliminary reports indicate that the primary source of flooding was Boyce's Brook, Duddel Brook and the River Ribble which overtopped its banks.

December 2015 floods

Double Click on this file to open



**Flood investigation report Ribble Valley District
embedded .doc opposite and link below to all
Lancashire reports**

<http://www.lancashire.gov.uk/council/performance-inspections-reviews/environmental/flood-investigation-report>

