



Northumberland
County Council

Northumberland County Council Flood Action Plan

Version 6.7

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How to use this plan

Pages 32-34 of this plan provide an index tool to allow plan users to easily access key critical information linked to Flood Warnings issued by the Environment Agency for the Northumberland area.

Plan users should take note of the Environment Agency's Flood Alert or Warning Code then utilize the index tool in order to access the appropriate action plans and associated risk assessment information.

7 of the 11 Rapid Response Catchments in our area are not covered by a Flood Warning. Further information is available at appendix 3 (Page 198).

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Plan Maintenance

It will be the duty of the Northumberland County Council's Civil Contingencies Team to notify the Northumbria LRF of any changes or amendments that are made to this plan. These updates will be provided upon changes to information. This plan will be subject to a full revision on an annual basis to ensure the accuracy of the information held within it.

Maintenance Schedule

A maintenance schedule has been developed as follows:

06/2016	Version 5.5 following December 2015 / January 2016 Flood Debrief and E.A. Northumberland FWP published February 2016.
08/2016	Version 5.6 following issue of new Northumberland FWP by E.A.
10/2016	Version 5.7 following changes to number of affected properties in E.A. Local Flood Warning Plan
08/2017	Version 5.8 following changes to number of affected properties in E.A. Local Flood Warning Plan
02/2018	Version 5.9 following changes to number of affected properties in E.A. Local Flood Warning Plan
06/2018	Version 6.0 following changes to number of affected properties in E.A. Local Flood Warning Plan
10/2018	Version 6.1 following changes to Hexham Local Flood Warning Plans
01/2019	Version 6.2 following changes to Blyth Local Flood Warning Plans
01/2020	Version 6.3 following changes to Amble, Waren Mill & Chollerford Local Flood Warning Plans
09/2021	Version 6.4 following changes to Butteryhaugh Local Flood Warning Plan
11/2021	Version 6.5 New flood warning area introduced. North Tyne at Wark
03/2022	Version 6.6 following changes to number of affected properties in E.A. Local Flood Warning Plan. New flood warning area introduced at Belford Burn
06/2022	Version 6.7 following changes to number of affected properties in E.A. Local Flood Warning Plan. New flood warning area introduced at Wooler Water at Riverside Leisure Park

2.1.1 Introduction

Northumberland is a mostly rural environment with the majority of the population living in the south east corner between the rivers Wansbeck and Blyth. The County is also bordered by two major rivers, the Tweed to the north, on which Berwick is the main town, and the Tyne to the south, on which Haltwhistle. Haydon Bridge, Hexham and Corbridge are situated. West of Hexham the North and South Tyne rivers merge. The North Tyne flows from Europe's largest man-made reservoir at Kielder Water, which is the property of Northumbria Water PLC. Other main rivers in the area are the Coquet, Rede, Blyth, Pont, Wansbeck and Derwent. Northumberland also has 60 miles of largely undeveloped coastline which has its own natural flood defences. Natural flood defences include the natural landform of high cliffs which limit coastal flooding. (Refer to Figure 2).

The Northumbria LRF Community Risk Register (CRR) identifies fluvial and coastal flooding to be two of the main risks facing the local community requiring the development of this Flood Action Plan.

Northumberland County Council (NCC) has prepared this Action Plan as part of the Northumbria Local Resilience Forum Multi-Agency Flood Plan. It is designed to form part of a response to severe and / or widespread flooding in the Northumbria area.

The Northumberland Flood Action Plan was originally developed using guidance created by the Northumbria LRF and sits alongside five other similar plans which have been developed by other Councils within the Northumbria Area. Each of the Northumbria LRF constituent Councils maintain a local Flood Action Plan which aims to assist the response of the individual Council by detailing information on the Flood Warnings that could be received. (Refer to figure 1).

The Plan has been developed in line with recommendations within Chapter 5 of Emergency Preparedness, part one of the Civil Contingencies Act (2004) (CCA) and with Responder responsibilities in responding to emergencies as described in the CCA Guidance.

Northumbria LRF maintains a strategic level Multi-Agency Flood Plan which provides the framework for response across the area and / or largescale flooding incidents where a multi-agency response is required. It details the responsibilities and capabilities of the key cross-cutting Category One Responders in a flood incident i.e. Police, Fire & Rescue, NHS, NEAS and others.

This Action Plan only provides a response to the threat of fluvial and coastal flooding within Northumberland based on the Alerts and Warnings issued by the Environment Agency. Due to the geographical area covered it does not cover surface water flooding. Reservoir flooding is covered in a specific plan.

Consultation

This Plan has been developed by NCC's Civil Contingencies Team in partnership with other key Council services to ensure that a co-ordinated response is delivered to flooding events within Northumberland.

The Plan is available for the public via the NCC Website so is subject to scrutiny and comment at any time.

Figure 1- Northumbria LRF Flood Plan Structure

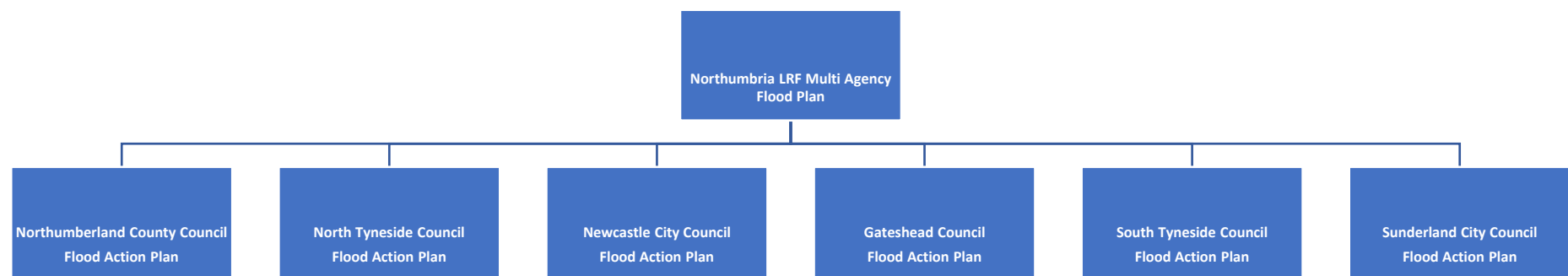
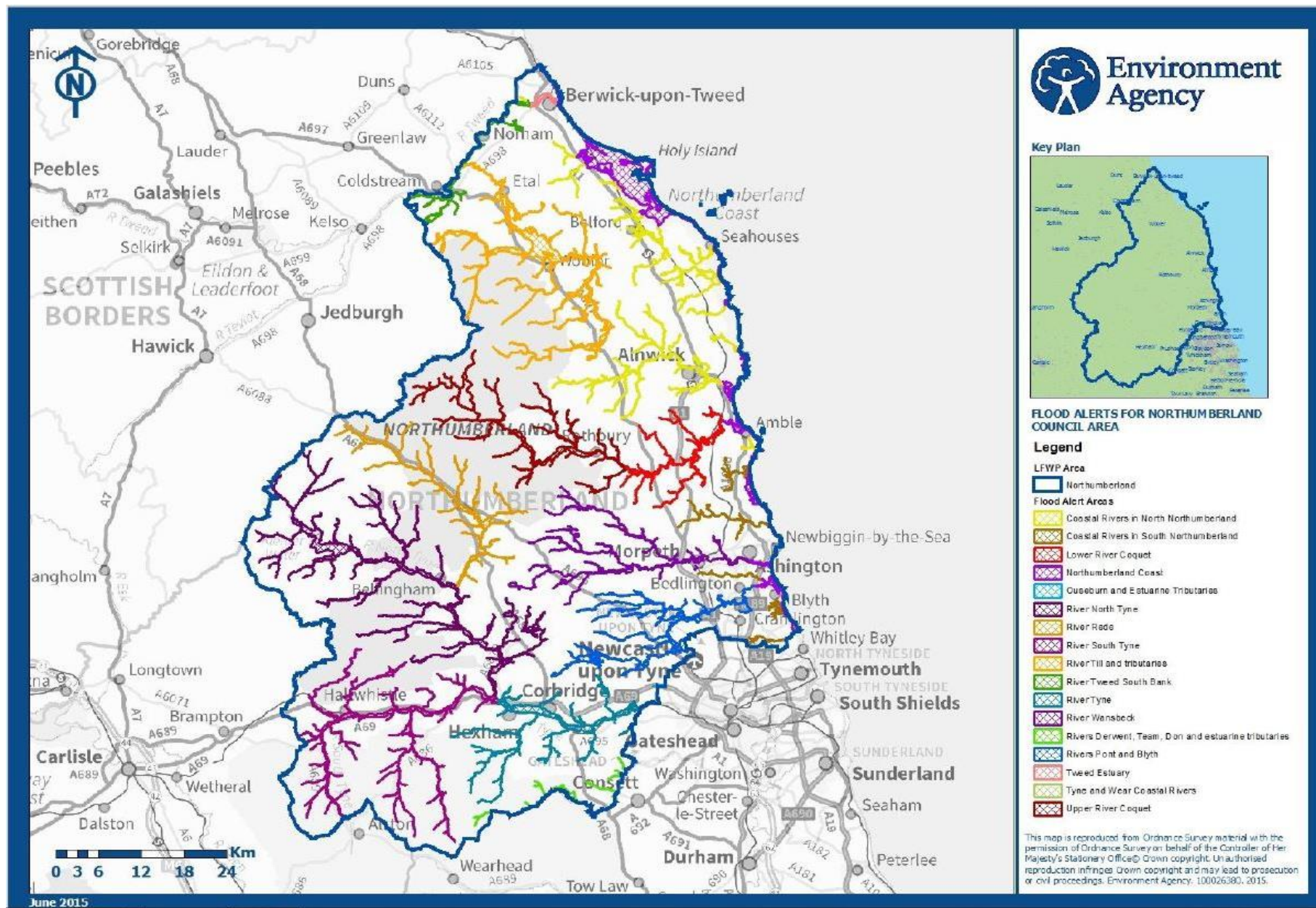


Figure 2: River and Coastal Warning Areas in Northumberland



2.1.2 Aims and Objectives

The Aim:

The aim of this Plan is to provide an overview of the flood risk areas to be found in Northumberland and what actions will be taken during the time of activation. It details the roles, responsibilities and actions to be taken by NCC services during a flooding incident.

Objectives:

- To assist those at a strategic level prior to and during a flooding incident by providing key information regarding specific Flood Warning areas.
- To risk assess and prioritize Flood Warnings issued by the Environment Agency for the Northumberland area.
- To fulfil the recommendations made within the Pitt Report (2008) in relation to the Local Authority's need to manage local flood risks.
- To work in conjunction with and dovetail to other plans and arrangements put in place by partner agencies which will also assist during a response to flooding. (e.g. NCC Emergency Community Assistance Plan (ECAP)).
- To identify key aspects of the County Council's response
- To promote greater community resilience
- To make multi agency partners aware of the roles and actions NCC can and will undertake.

The outcome should be a strategic overview of the flood risk and response in Northumberland, allowing actions to be seen in the event of large scale or multiple area floods but also giving the local level detail required.

2.1.3 Ownership and Audience

The Northumberland Flood Action Plan is compiled by NCC's Civil Contingencies Team and will be used by the Northumbria LRF Strategic Coordination Group in the event of wide-area or largescale flooding in the Northumberland area. The flooding event may be part of a severe weather event in areas of Northumberland or as a part of wider flooding events throughout Northumbria.

Updates and amendments of this plan and the information held within it will be distributed by the appropriate methods in relation to the file size to plan holders following any review of the plan. The Plan will be made available via the NCC Website.

2.1.4 Plan Activation

The Northumberland Flood Action Plan can be activated in response to severe and or widespread flooding incidents. It can be invoked by any Responder organisation that deems it fit to activate it in the response to flooding using the LRF Major Incident Declaration Protocol.

Activation of the Northumberland Flood Action Plan, will take place when:

- Flood Alerts and Flood Warnings are being received from the Environment Agency.
- Upon the receipt of Severe Weather Alerts or Warnings, Extreme Rainfall Alerts or Flood Guidance Statements
- Public reports of flooding are being received - to be addressed at the time between NFRS Flexi Duty Group Manager, Highways Escalation Managers and the Duty Civil Contingencies Officer.
- Reports by operational staff of flooding incidents are being received.

If this plan requires activation and has not already been activated by the County Council, contact should be made with the Civil Contingencies Team which operates a 24 hour call out system.

The Duty Civil Contingencies Officer can be contacted at any time through Fire Control on 01670 627599 (ask for the Duty Civil Contingencies Officer to be contacted)

If this fails the Duty Civil Contingencies Officer can, as a last resort, be contacted through Northumbria Police Control on 0345 6043 043 (ask for Northumberland County Council's Duty Civil Contingencies Officer to be contacted)

Upon activation of the Plan or upon the receipt of Flood Alerts/ Warnings, the information will be issued to all relevant personnel within the County Council so actions / preparations can be made / taken.

However, in areas with a very high or high risk of flooding, a decision to mobilise equipment at an early stage may be made to ensure a rapid response should the risk increase.

There are two levels of County Council response that can be activated within the Northumberland County Council Emergency Community Assistance Plan (ECAP):

- Level One - Emergency Response
- Level Two - Major Incident Assistance

See Section 1.8 of the ECAP - Activation of the Emergency Community Assistance Plan.

When an All Clear has been indicated, where required, the initiation of the Northumberland County Council's Recovery and Restoration Plan will take place as flood waters recede.

Related and Interdependent Plans

The NCC Flood Action Plan provides a framework for the response to a flooding emergency. However, other contingency plans / arrangements are required to work along-side this plan to deal with other specific related issues:

- Northumberland Emergency Community Assistance Plan (ECAP)
- Northumberland Corporate Business Continuity Plan and Group Related Plans
- Northumberland Humanitarian Assistance Guidance
- Northumberland Recovery and Restoration Plan
- Northumberland Rest Centre Guidance
- Northumbria LRF Severe Weather Protocol
- Northumbria LRF Emergency Mortuary Overview
- Northumbria LRF Major Incident Declaration Protocol
- Northumbria LRF Mass Fatalities Plan
- Northumbria Police Flood and Severe Weather Plan
- Northumbria LRF Multi-Agency Evacuation and Shelter Plan

Several Northumberland Communities have developed their own Flood Action Plans with support from the Environment Agency. Where these are known to exist and have been provided to the NCC copies are held within the Incident Support Room.

2.1.5 The Risk of Flooding

Flooding Overview

There are a total of 56 Flood Warnings that can be applied to Northumberland's rivers and coastline. These Flood Warnings are not exclusive to one area in Northumberland; they affect all three areas of the County Council (North, Central and South East and West).

Flood Warnings issued in the North area

Alnmouth
Amble
Beadnell
Belford
Berwick-Upon Tweed and Tweedmouth
Brinkburn and Weldon
Felton
Holy Island
Morpeth

Netherwitton and Longshaws Mill
Norham
Rothbury
Seahouses
Thropton
Waren Mill
Warkworth
Wooler

Those issued within the Central and West area affect:

Bellingham
Brigwood, Middle Lipwood
Bywell and Prudhoe
Chollerford
Corbridge
Falstone
Haltwhistle
Haydon Bridge
Hexham
Kielder Buttery Haugh
Wark

Kirkley Mill, Darras Hall and Prestwick Carr
Lambley
Low Warden
Otterburn, West Woodburn and Redesmouth
Ovingham and Low Prudhoe
Ponteland
River Derwent
Rowlands Gill, Lintzford and Shotley Bridge
Slaggyford
Shotley Bridge
Warden

Those issued in the South East affect:

Blyth
Blyth Town Centre
Bothal and Sheepwash

Rapid Response Catchments

The Environment Agency (EA) has, on a national level, identified Rapid Response Catchments. These catchments are areas where flooding can occur without a significant period of warning time. Currently, the E.A. aims to provide a 2-hour lead time for the flood warnings that they issue. Rapid Response Catchments could be affected by flooding within this two-hour period. Indeed, some Rapid Response Catchments are not recognised by the E.A.'s Flood Warning system.

The EA is currently addressing those Rapid Response Catchments that have been allocated a very high- or high-risk rating.

There are currently 11 Rapid Response Catchments identified within Northumberland which are categorised as either being very high- or high-risk areas. Where possible this information has been reflected on the relevant flood data sheets.

Appendix 3 covers Northumberland's Rapid Response Catchments in further detail where Action Plans are available.

The 11 Catchments are listed below:

Acomb (Red Burn)	Bellingham (Hareshaw Burn)
Hexham (Cockshaw Burn / Halgut Burn)	Greenhead (Tipalt Burn)
Haltwhistle (Haltwhistle Burn)	Kielder (Kielder Burn)
Otterburn (Otter Burn)	Rothbury (Coplish Burn)
Stocksfield (Stocksfield Burn)	Wark (Dean Burn)
Wansbeck (Church Burn / Postern Burn / Cotting Burn)	

Northumberland County Council properties affected by flooding

The Civil Contingencies Team holds a list of properties which are located within flood warning areas. These properties have also been added to the relevant data sheet within the Flood Action Plan.

Flooding and Risk Registers

As a Category One Responder, the County Council has a duty, under the Civil Contingencies Act (2004), to undertake risk assessments to ensure that plans are in place to respond to any incident that may occur.

The Northumbria LRF's Community Risk Register (CRR) rates risk levels of potential hazards and risks. The Northumbria LRF covers the operational area of Northumbria Police.

The Northumbria LRF CRR rates the risk of fluvial, coastal and flash surface water flooding as VERY HIGH. Currently, this Plan only manages the risk of fluvial and coastal flooding.

Flood Risk Assessments

The Flood Risk Assessments contained within this plan reflect the 56 Flood Warnings issued by the Environment Agency for Northumberland area. Pages 32-35 identify the Flood Alerts and associated Flood Warnings that may be issued within Northumberland.

A risk assessment of each of the Environment Agency's Flood Warnings was carried out by NCC's Civil Contingencies Team in order to highlight the likelihood and impact of flooding events occurring in Northumberland.

The methodology that was used in order to calculate the level of risk given to each flood warning was developed from guidance associated to the Civil Contingencies Act (2004).

A copy of the methodology has been provided in Appendix 1.

A definition of each of the risk ratings given to Flood Warnings is shown in Table One overleaf.

Table One- Definition of Risk Ratings

Risk Rating	Definition
Very High	Very high frequency of return period combined with a very high number of properties and critical infrastructure at risk. Potential risk to life and extensive damage to property. Serious impact on local and regional economy with some long term or potentially permanent damage.
High	High frequency of return period combined with a significant number of properties and people affected. Potential for people to be displaced for longer than 1 week. Significant impact on local economy and environment with medium to long term effects.
Medium	Medium to low frequency of return period combined with a moderate to small number of properties and people affected. The potential of localised displacement of >100 people for 1-3 days. Limited affect upon the local economy and a minor impact upon the environment with no lasting effects.
Low	Low frequency of return combined with a small number of properties and people affected. Insignificant disruption to community services, including transport services and infrastructure.

2.1.6 Alerts, Warnings and Guidance

Environment Agency Flood Alerts / Warnings

The Environment Agency issues Flood Alerts and Flood Warnings to Northumberland County Council via fax and e mail.

Northumberland Fire and Rescue Service Fire Control receive a faxed and an electronic version of such warnings and then contact the Duty Civil Contingencies Officer via standing arrangements to confirm they have received the Alert / Warning.

The Duty Civil Contingencies Officer will engage with the Environment Agency Duty Officer to obtain further detail on, and possible impact of, the Alert / Warning. If appropriate the DCCO will then contact the Fire and Rescue Services Duty Group Manager and the relevant area Highways Manager(s) to discuss the Alerts and Warnings that have been issued and agree what actions are necessary.

Highways Managers currently receive Severe Weather Warnings, Flood Alerts and Warnings directly via email and have the ability to pick messages up via mobile devices. It will be the responsibility of Highways Managers to liaise with local flood groups.

An auto forward rule has been created for warnings and alerts. Messages are sent to a Severe Weather Group inbox and then disseminated automatically to key NCC personnel, thus ensuring that they are available to receive them both inside and outside of office hours. Subject to the information received by the DCCO from the E.A. Duty Officer a further message may be issued to Severe Weather Group for information on action required.

Table Two: Summary of E.A. Flood Warning Service




New Stages	May be issued....
 <p>FLOOD ALERT</p>	<p>Two hours to two days in advance of flooding</p>
 <p>FLOOD WARNING</p>	<p>Half an hour to one day in advance of flooding</p>
 <p>SEVERE FLOOD WARNING</p>	<p>When flooding poses a significant threat to life and different actions are required</p>
<p>Flood Alert / Warning no longer in force</p>	<p>Issued when a flood Alert or Warning is no longer in force</p>

Table Three: Severe Flood Warning Criteria

Significant risk to life	Yes	No	Possible
a) Is the floodplain water expected to be deep and fast flowing?			
b) Will the flooding onset be rapid?			
c) Could there be dangerous and life-threatening debris in the water?			
d) Is there any danger of buildings/ structures collapsing			
e) Are the people affected vulnerable?			

Significant risk to people	Yes	No	Possible
a) Is flooding likely to affect the whole community?			
b) Will the residents become trapped with no means of escape?			
c) Have critical resources become disabled?			
d) Will a large number be evacuated?			
e) Are emergency services struggling to cope with resource demands?			
f) Has military assistance been called/ likely to be called?			

Met Office Warnings

National Severe Weather Warning Service (NSWWS)

The Met Office provides a National Severe Weather Warning Service (NSWWS) to Category 1 and 2 Organisations in order to alert them of hazardous weather that may cause widespread problems. Weather warnings that could result in flooding could be issued for snow, heavy rain and ice. This service is also available to the public.

These warnings are received and disseminated by the same means as the Environment Agency's Flood Warnings.

The main aim of the warnings system is to move away from a purely weather threshold-based method to one that assesses directly the actual risk involved using both the likelihood of the event occurring and the predicted impact it would have. To this end each warning will be positioned on a simple risk matrix and assigned one of the by now familiar colours (Green, Yellow, Amber and Red).

There are two types of warnings that the Met Office can issue:

Warnings – issued within 24 hours before an event

Alerts - issued more than 24 hours before an event

Warnings will be based on impact and likelihood. The following risk matrix provides an overview:

LIKELIHOOD	HIGH			X	
	MED				
	LOW				
	VERY LOW				
		VERY LOW	LOW	MED	HIGH
IMPACT					

- No severe weather
- Be aware
- Be prepared
- Take action

Each warning will be accompanied by an overview from the Chief Forecaster which will explain the risk behind the warning.

Extreme Rainfall Alerts (ERA)

The Met Office is able to issue Extreme Rainfall Alerts (ERA) via the Flood Guidance System which is issued on a daily basis. ERA's differs from the NSWWS as they are only available to professional partners and relate to the risk of surface water flooding.

The Met Office would issue this type of alert when they expect a high quantity of high intensity rain to fall.

These alerts are currently only received via e mail, via the Flood Guidance Statement and are circulated via an auto forwarding rule as previously described.

There are two types of ERA, an Alert and a Guidance Statement. The alert is issued when there is more than a 20% chance of extreme rainfall and guidance is issued when there is more than a 10% chance.

The statements will normally be issued by 2 pm and are valid for 24 hours. The lead-in time for ERA's is extremely short, the Flood Forecasting Centre is unable to pinpoint the specific location where surface water flooding may occur, they are, however, able to warn at a County level.

Multi Agency Warnings

Flood Guidance Statements

The Met Office and the Environment Agency work in partnership when issuing Flood Guidance Statements. These statements are issued on a daily basis and provide a five-day overview / forecast relating to the weather and the potential risks associated to flooding.

The Flood Guidance Statement includes ground water flood risk assessments as well as surface water, river and coastal assessment.

Surface water forecasting assessments are now more based on impact and will take into account the following;

- A wide range of atmospheric indicators
- The E.A.'s areas susceptible to surface water flooding maps
- The nature of catchments including speed of response and orientation
- Seasonal catchment conditions (e.g. drought, frozen ground, snow cover, leaf fall)

The five-day Flood Guidance Statement is currently sent from the Flood Forecasting Centre via e mail to the Severe Weather Group in-box of Northumberland County Council.

The Flood Guidance Statements also contain links to Severe Weather Alerts / Warnings.

Flood Advisory Service

The Flood Advisory Service strengthens the service already received from professional partners and provide earlier, more co-ordinated information on a potential flood event.

The Flood Advisory Service establishes a teleconference facility for professional partners (such as NCC) prior to a potential significant flood event. The teleconference will be chaired by the local Environment Agency Team and will reach out to those professional partners likely to be involved in a flood response.

The Environment Agency and Public Weather Service Advisor will decide whether to initiate a teleconference when the forecasts in the Flood Guidance Statement indicate a medium (amber) or above, risk of flooding for the area.

The BT Meet Me phone number and pin can be found in the Confidential Telephone Directory of the NCC's Emergency Community Assistance Plan (ECAP).

Met Office - Hazard Manager Tool

The Met Office in conjunction with the Flood Forecasting Centre (in England and Wales) operates a web service, designed specifically for Category One and Two Responders (CCA, 2004).

It provides a one stop environmental source, initially covering weather and flooding services for the Emergency Response community.

The service provides up to date observations and forecast information. This can be in the form of:

- Rainfall radar data
- Real time rain gauge data
- Forecast rainfall data
- Severe weather warnings

Hazard Manager log-in details can be obtained from the Duty Civil Contingencies Officer.

River levels available online

The Environment Agency has made it possible to track river levels online using the following link:

<http://www.environment-agency.gov.uk/homeandleisure/floods/riverlevels/120538.aspx>

Liaising with the Environment Agency's Duty Officer is also advised when checking the river levels online when Flood Alerts or Flood Warnings have been issued.

The data on the website only updates when the Environment Agency requests data from specific telemetry gauges. The Duty Civil Contingencies Officer may ask the Environment Agency to send such a request during a flood event.

Public information on river levels can also be found at:

<http://www.gaugemap.co.uk>

2.1.7 Communications with the public and media

From the beginning of a major flood incident it is likely that the media lead will be Northumbria Police, as response coordinators, with input from all relevant organisations involved in the response. The involvement of the County Council's Communications Team will be important at all stages, providing information and agreeing a media strategy. This will be important as they may have key information that needs to be relayed to the public on the situation and in terms of advice.

The North East Information Line (NEIL) is a facility managed by Northumbria Police that can be used during a flood event. The service allows a pre-recorded message to be accessed by the public. A special incident helpline will be communicated to the public via media channels. NEIL can be activated by contacting the Duty Civil Contingencies Officer.

Internal / external response communications

During and post incident it is vital that the County Council communicates with its partner organisations, so that a coordinated response and recovery can be conducted. This will ensure the best possible response and no duplication of effort by any organisation involved.

Prior to a flooding incident, with Flood Alerts or Flood Warnings being declared, the relevant persons will be contact within the County Council; this will activate the procedures laid down within the Emergency Community Assistance Plan (ECAP). (See Section 1.8 - Activation of the Emergency Community Assistance Plan).

2.1.8 Northumberland County Council's Roles and Responsibilities in the event of flooding

As a part of a multi-agency response to flooding NCC will undertake and support in a number of duties. NCC's responsibilities include:

- Deployment of High-Volume Pump (HVP) and Swift-Water Rescue (SWR) if required (Northumberland Fire and Rescue Service)
- Host multi-agency Silver Command, if required
- Utilize Tactical Adviser (NFRS)* (see overleaf)
- Deploy road cleansing equipment
- Provide local services support - road closures/ signage etc.
- Deploy tree surgery equipment
- Provide emergency transport for evacuation / people to temporary accommodation if required.
- Provide Reception / Rest Centres / temporary accommodation for those evacuated from flood areas (if required)
- Support the identification of vulnerable people
- Arrange and coordinate voluntary support organisations activities
- Provide representation at Operational, Tactical and Strategic Command, if required
- Undertake environmental management (clean-up) in conjunction with E.A. and Public Health England (PHE)
- Health and welfare issues relating to vulnerable people (Adult and Community Care Services)
- Health and welfare issues relating to children (Children's Social Care Services)
- Undertake re-housing of those affected by flooding in conjunction with Housing Services and other registered providers
- Access to Hydrostal "Betsy" Self-Priming Pump (located at Ponteland Fire Station)
- Lead Recovery phase
- Provide community support
- Liaise with partner agencies
- Liaise with local flood groups
- Assist, where appropriate, with environmental issues which have occurred as results of flooding i.e. liaise with E.A. and DEFRA about the removal of animal carcasses, cleaning contaminated Council owned properties, removal of sandbags and flood damaged debris, silt, general pollution and assistance with contaminated sites of special scientific interest (SSSI's). (For further information refer to the NCC Recovery and Restoration Plan).
- Participate in multi-agency de-brief

***Role of the Tactical Advisor: Flood Rescue**

Northumberland Fire and Rescue Service has a Flood Rescue Tactical Advisor within the County, who specialises on the deployment of Flood Rescue resources. This Tactical Advisor may be deployed either locally or nationally.

The role of the Tactical Advisor includes:

- To provide planning advice at tactical and operational level for appropriate Flood response Tactical Coordinating Groups (TCGs)
- To provide tactical advice to the Incident Commander, Operations Commander or Sector Commander as to the safest and most effective line of Flood resources
- To provide information to the Incident Commander, Operations Commander or Sector Commander regarding the nature of the incident and further Flood resources that may be required for the resolution of the incident
- Credentialing assets within the multi-agency strategic holding area (MASHA)
- Assess specific risks to support operational response
- Support National Resilience Fire Control
- Provide water & flood response safety briefings to organisations, e.g. Ministry of Defence
- Support the management of Host Nation Support (international assets)
- Preparation and non-response activities
- Support regional flood working groups
- Support multi-agency flood plans
- Support flood/water exercises
- Maintain Continuous Professional Development (CPD) as per Defra requirements
- Operate at all levels of incidents as required

*For further information on the role of the Tactical Advisor (HVP) refer to Northumberland Fire and Rescue's "Service Procedure - HVP Tactical Advisor".

FOR ACTIONS RELATING TO SPECIFIC NORTHUMBERLAND COUNTY COUNCIL SERVICES REFER TO THE LEVEL 1-3 ACTION PLANS PAGES 36-56

Contact details for those key individuals required to respond to a flooding event can be found within Northumberland County Council's Emergency Community Assistance Plan (ECAP) and Confidential Telephone Directory, which is available to all Senior Staff and through the Duty Civil Contingencies Officer.

For further details on Recovery refer to Northumberland County Council's Recovery and Restoration Plan.

2.1.9 Vulnerable People

During a flood event, even those people who may not be deemed vulnerable can become vulnerable due to the circumstances they find themselves in. Assisting those who are at risk from flooding is key. However some groups may require additional assistance. Vulnerable persons can be, but not exclusively, those identified as:

- Older people
- People with health problems
- People with mental and physical disabilities
- Children, babies and children with a disability
- Non English speaking residents
- People travelling through the area

Records of those persons who are deemed as vulnerable should be regarded as sensitive information that changes on a regular basis. The County Council holds some information; however there are also other sources of other information not held by the Council. Refer to NLRF Information Sharing Protocol

During a flooding event, information on vulnerable persons can be obtained through the organisations listed below. It is presumed that the relevant service representatives will be accessible via Silver Command:

- Northumberland County Council - Adult and Community Care Services
- Northumberland County Council - Children's Social Care
- Northumberland Fire and Rescue Service
- Northumberland County Council - Housing
- Northumbria Foundation Trust (NFT)
- Northumberland, Tyne and Wear Trust (NTWT)
- Homes for Northumberland
- Bernicia
- ISOS Housing
- Northumberland Care Trust
- Age Concern

The information provided by the organisations above will only be of the location, number of persons and potentially any specialist equipment that may be required should individuals need to be removed from the premises.

The information included on the Flood Data Sheets - Section 2.1.20, has been provided by Northumberland County Council's Local Services and Housing Delivery and refers only to premises occupied by multiple vulnerable persons i.e. Care Homes etc.

Any contact with the above organisations regarding vulnerable persons should be made through Northumberland County Council's Civil Contingencies Team.

Vulnerable Communities

Northumberland County Council works in partnership with the Environment Agency Engagement Team which is responsible for encouraging rural communities affected by flooding to become more resilient.

An awareness of local community flood plans will maximise the effectiveness of any future County Council response to flooding.

Role of Flood Wardens/ Community Resilience Volunteers

Flood Wardens, in areas where they exist, could assist in the following ways:

- Pre-flooding: Assist the Emergency Services, Environment Agency and County Council in raising awareness of local flood risks.
- Early stages of a flood event: assist with door knocking, the identification of vulnerable residents and the dissemination of key information (i.e. location of rest centres)
- During the event: those who feel able to, could assist within rest centres. Helping the vulnerable and showing support from within the community.

Where a flood group is in existence and their Flood Plan has been shared with Northumberland County Council's Civil Contingencies Team a note will be made on the relevant flood data sheet.

Please Note: Local Services and Housing Delivery are responsible for liaising and making initial contact with local flood groups and flood wardens. Refer to Action Plans 2-3 for further information.

Mutual Aid

In the event of a large scale or protracted event, the resources of all agencies are likely to be stretched to capacity, additional assistance may be required throughout and following the event to ensure that the principles of the Plan are met.

Generic Mutual Aid arrangements exist for Local Authorities within the Northumbria LRF and have been agreed across the North East LRFs.

Refer to the NLRF Multi-Agency Flood Plan for further details.

2.1.10 Critical Infrastructure

Infrastructure that has been identified as critical has been deemed so as it may cause significant disruption if affected by flood water.

Critical infrastructure locations within the Environment Agency's pre identified Flood Risk Zones are incorporated into the Flood Risk Assessment Sheets held within Section 2.1.21 of this Plan.

Examples of critical infrastructure include:

- Electricity Sub Stations
- Sewage Works
- Water Pumping Stations
- Gas above ground Installations
- Fire / Ambulance / Police Stations
- Schools
- Those roads and bridges which could potentially be affected within flood risk areas.

2.1.11 Evacuation and Shelter

Evacuation will only be considered as the final option; Northumberland County Council will make a provision of vehicles to move evacuees to a safe location. This safe location may be a Reception / Rest Centre as temporary accommodation, where evacuees can stay or as a point of dispersal as some may wish to stay with family or friends.

Transport will be primarily be sourced from County Council resources. There are a number of vehicles that can be sourced from throughout the County Council for use during an evacuation. If required, the County Council will be able to use commercial providers and voluntary organisations to assist in the evacuation. Refer to Emergency Community Assistance Plan (ECAP) and the Confidential Telephone Directory for further details.

Evacuation, as with any incident, should only be used if there is no other option to ensure the safety of the population. Persons cannot be forced to leave their property; they can only be advised of the situation and have it stressed to them that they are at risk and should move to guarantee their safety.

With the need to evacuate is also the need to be aware of the continuing risk of Covid infections and move to evacuate people should take cognisance of the Northumbria

LRF Multi-Agency Evacuation and Shelter Plan to protect evacuees as much as possible.

2.1.12 Traffic Management

In the event of flooded roads the primary response will normally be initiated by Northumbria Police. Northumberland County Council's Highways Teams will provide signage for closures and diversions.

Evacuation routes have been identified for all Very High- and High-Risk flood areas.

2.1.13 Reception / Rest Centres

The decision to evacuate will most likely come from discussions between Northumberland County Council's Civil Contingencies Team, Northumberland Fire and Rescue Service and Northumbria Police. If the decision is made to evacuate, subject to the principles of the LRF Multi-Agency Evacuation and Shelter Plan to limit the risk of transmission of Covid-19 and protect vulnerable people so far as possible. The County Council will open a designated Reception / Rest Centre(s) local to the area being evacuated. This activation will take place through Northumberland County Council's Civil Contingencies Team who will activate the necessary resources. Refer to Northumberland County Council's Reception / Rest Centre Guidance and, within this Plan, to the relevant Flood Risk Assessment Sheets for potential Reception / Rest Centre locations.

Once at a Reception / Rest Centre evacuees will be asked to complete a registration form. This form is required to be completed for all persons who will be located within the Reception / Rest Centre or who are passing through to another location. The form covers such information as name, address, medication (if required), destination of evacuee etc. (Refer to Reception / Rest Centre Incident Box for copies of Registration Forms)

The collected information will enable Reception / Rest Centre staff to cater for the specific needs of the evacuees and can be used as a record for Track and Trace or if missing persons are declared.

If the flooding event is severe and persons are unable to return to their homes for a prolonged period it will be necessary for the County Council, in partnership with Housing Delivery Services and other registered providers, to arrange longer term shelter.

Northumberland County Council has access to a Crisis Purchasing Scheme. This allows officers to approach designated supermarkets and some local shops for purchase of goods to be used within the Reception / Rest Centre during an incident

2.1.14 Humanitarian Assistance

During a major flooding event and as part of the Recovery phase the County Council, in partnership with other organisations, may provide the resource for Humanitarian Assistance. The Humanitarian Assistance will be provided through either a centre or through peripatetic service delivery supported by a telephone helpline with both being supported by web-based information. Humanitarian Assistance will be provided by multiple agencies who can offer support to those affected by flooding. Any support provided to the public and businesses will be provided for as long as there is a demand. Details can be found within the Northumberland Humanitarian Assistance Guidance document.

2.1.15 Recovery

Shortly after a flooding incident it will be the responsibility of Northumberland County Council to lead on recovery operations aimed at the restoration and rehabilitation of the community.

The Northumberland County Council Recovery Co-ordination Group (RCG) will be activated following a request by / agreement with the Strategic Co-ordinating Group (SCG).

The RCG should be formed as early as possible in the Response phase to ensure that it has influence in the SCG response. The need for an RCG should be discussed in the first SCG meeting.

Once the decision has been made to activate the RCG, Northumberland County Council will be responsible for cascading information and, depending on the emergency, decide who needs to be on the Group.

The first action of the RCG should be to develop and agree a clear Recovery Strategy.

As part of the Recovery Strategy the RCG should ensure that targets and milestones for the recovery process are established and agreed. It is essential that, as key players in the recovery process, the community and local businesses are involved in establishing targets and milestones. The targets and milestones will allow the RCG to measure progress and allow a phased scale down of work as progress is made.

Below are suggested targets and milestones to be considered:

- Return to normality of public service critical functions (including health)
- Full restoration of essential utility supplies and infrastructure.
- Normal running of transport infrastructure.
- Local businesses trading normally.
- Re-establishment of tourism in the area.

Recovery operations will also include:

- Clean up and waste collections
- Consideration given to the disposal of animal carcasses
- Disposal of personal property
- Disposal of silt
- Disposal of contaminated sandbags
- Pollution control
- Provide temporary accommodation (if required)
- Provide for the welfare needs of the community and staff
- Advice and support
- Repairs on damage to infrastructure
- Survey flooded buildings to allow satisfactory refurbishment
- Memorials and Anniversaries.

For further and full details on the recovery process, council responsibilities and group structuring, see the Northumberland County Council Recovery and Restoration Plan.

2.1.16 Health and Safety

The County Council is responsible for ensuring that Health and Safety is paramount in any work that is undertaken by its own officers or those of any other organisation supporting the County Council.

Responding officers should be aware of any risk associated with being in or working around flood waters. Officers should be provided with and wear the correct and appropriate Personal Protective Equipment (PPE) clothing.

During a flooding event Northumberland County Council's Health and Safety Department along with Public Protection should be contacted to assess any safety concerns caused by the flooding. Public Health England (PHE) along with County Council's Public Health and Public Protection Departments will advise on any health issues that may be present due to the flood waters.

Although each organisation is responsible for its own officer's health and safety, advice should be sought from the Emergency Services, in particular Northumberland Fire and Rescue Service, when working in the flood waters.

Following the flood event, work undertaken in the recovery phase may also present health and safety risks even with the absence of flood waters. Officers will need to be made aware of possible contamination caused as a result of the flooding. Potential hazards should be constantly considered by County Council managers and supervisors in any task delegated to staff.

2.1.17 Needs of a Diverse Community

In delivering the objectives of this Flood Action Plan due regard will be given at all times to the needs of our diverse community and the duties under the Equalities Act, 2010

2.1.18 Training and Exercising

Training will be conducted by the County Council with support from partner agencies. Response staff, plans and procedures will be tested and updated on a regular basis to ensure that they are robust.

2.1.19 Northumberland Flood Index Tool

This Flood Indexing Tool will direct plan users to the relevant data required to respond to any Flood Warning issued by the Environment Agency for the Northumberland Area. The Flood Areas are schedule on North to South for Coastal Flood alerts and then North to South and from West to East flow for River Flood alerts

The Tool provides an overview of the Flood Alert Area that each Flood Warning sits within, the risk level associated to each flood warning and the page numbers of the relevant data page, associated flood maps and the action plan location.

Please note: Where available the Northumberland Fire and Rescue Incident Support Unit may be deployed and act as an Operational or Tactical Command for any of the Flood Areas listed.

FLOOD ALERT	FLOOD ALERT REFERENCE CODE	FLOOD WARNING REFERENCE CODE	FLOOD WARNING AREA	RISK LEVEL	RISK DATA SHEET (Page Number)
Tweed Estuary	121WAT902	121FWT519	North Sea at Berwick Upon Tweed and Tweedmouth	High	59-61
Northumberland Coast	121WAC921	121FWC526	North Sea at Holy Island	Low	63-64
Northumberland Coast	121WAC921	121FWC527	North Sea at Seahouses	Medium	65-66
Northumberland Coast	121WAC921	121FWC530	North Sea at Beadnell	Low	67-68
Northumberland Coast	121WAC921	121FWC531	North Sea at Alnmouth	Medium	69-70
Northumberland Coast	121WAC921	121FWC532	North Sea at Amble	High	71-72
Northumberland Coast	121WAC921	121FWC537	North Sea at Blyth	Medium	73-75
Northumberland Coast	121WAC921	121FWC539	North Sea at Blyth Town Centre	Very High	76-78
River Tweed South Bank	121WAF901	121FWF127	River Tweed at Norham Village	Medium	80-81
River Tweed South Bank	121WAF901	121FWF126	River Tweed at the Boat House, Norham	Low	82-83

FLOOD ALERT	FLOOD ALERT REFERENCE CODE	FLOOD WARNING REFERENCE CODE	FLOOD WARNING AREA	RISK LEVEL	RISK DATA SHEET (Page Number)
River Till and tributaries	121WAF900	121FWF121	Wooler Water at Riverside Leisure Park	Medium	84-85
River Till and tributaries	121WAF900	121FWF120	Wooler Water at Wooler	High	86-88
Coastal rivers in North Northumberland	121WAF918	121FWF121	Belford Burn at Belford	Medium	90-91
Coastal Rivers in North Northumberland	121WAF918	121FWF123	Waren Burn at Waren Mill	Medium	92-93
Upper River Coquet	121WAF903	121FWF112	River Coquet at Thropton	Low	94-95
Upper River Coquet	121WAF903	121FWF108	River Coquet at Rothbury	High	96-98
Upper River Coquet	121WAF903	121FWF109	River Coquet at Upper Rothbury	High	100-102
Upper River Coquet	121WAF903	121FWF107	River Coquet Lower Rothbury	High	104-105
Lower River Coquet	121WAF904	121FWF110	River Coquet at Brinkburn and Weldon	Medium	106-107
Lower River Coquet	121WAF904	121FWF128	River Coquet at Felton Riverside	High	108-109
Lower River Coquet	121WAF904	121FWF129	River Coquet at Felton	High	110-111
Lower River Coquet	121WAF904	121FWF098	River Coquet at Coquet Lodge, Warkworth	Low	112-113
Lower River Coquet	121WAF904	121FWB111	River Coquet at Lower Stanners, Warkworth	Low	114-115
Lower River Coquet	121WAF904	121FWB099	River Coquet at the Butts, Warkworth	Medium	116-117
Lower River Coquet	121WAF904	121FWF100	River Coquet at Warkworth	High	118-119
River Wansbeck	121WAF905	121FWF119	River Font at Netherwitton and Longshaws Mill	Medium	120-121
River Wansbeck	121WAF905	121FWF115	River Wansbeck at East Mill and Morpeth Riverside Leisure Centre	High	122-125
River Wansbeck	121WAF905	121FWF101	River Wansbeck at Morpeth	Very High	126-128
River Wansbeck	121WAF905	121FWF125	River Wansbeck at Abbey Mills	High	130-132
River Wansbeck	121WAF905	121FWF113	River Wansbeck at Bothal and Sheepwash	Medium	134-135

FLOOD ALERT	FLOOD ALERT REFERENCE CODE	FLOOD WARNING REFERENCE CODE	FLOOD WARNING AREA	RISK LEVEL	RISK DATA SHEET (Page Number)
Rivers Pont and Blyth	121WAF906	121FWF114	River Pont at Kirkley Mill, Darras Hall and Prestwick Carr	Medium	136-139
Rivers Pont and Blyth	121WAF906	121FWF105	River Pont at Ponteland	Very High	140-142
River Rede	121WAF907	121FWF202	River Rede at Otterburn, West Woodburn and Redesmouth	High	144-147
River North Tyne	121WAF908	121FWF204	River North Tyne at Falstone	Medium	149-150
River North Tyne	121WAF908	121FWF227	River North Tyne at Kielder Buttery Haugh	High	151-152
River North Tyne	121WAF908	121FWF206	River North Tyne at Bellingham	Medium	153-154
River North Tyne	121WAF908	121FWF207	River North Tyne at Chollerford	Medium	155-156
River North Tyne	121WAF908	121FWF209	River North Tyne at Wark	Medium	157-158
River South Tyne	121WAF909	121FWF200	River South Tyne at Riverside Workshop Haydon Bridge	Low	159-160
River South Tyne	121WAF909	121FWF208	River South Tyne at Slaggyford and Lambley	Low	161-163
River South Tyne	121WAF909	121FWF210	River South Tyne at Haltwhistle	High	164-165
River South Tyne	121WAF909	121FWF211	River South Tyne at Warden	High	166-167
River South Tyne	121WAF909	121FWF212	River South Tyne at Lower Warden	Low	168-169
River South Tyne	121WAF909	121FWF235	River South Tyne at Brigwood, Middle Lipwood and Temple Houses Haydon Bridge	High	170-171
River South Tyne	121WAF909	121FWF236	River South Tyne at Haydon Bridge	High	172-173
Rivers Derwent, Team and Don and estuarine tributaries	121WAF912	121FWF325	Rivers Derwent, Team and Don and estuarine tributaries	High	174-176

FLOOD ALERT	FLOOD ALERT REFERENCE CODE	FLOOD WARNING REFERENCE CODE	FLOOD WARNING AREA	RISK LEVEL	RISK DATA SHEET (Page Number)
River Derwent,	121WAF912	121FWF323	River Derwent at Blaydon on Tyne, Rowlands Gill, Lintzford and Shotley Bridge	High	178-179
River Tyne	121WAF910	121FWF199	Cockshaw Burn, Hexham	High	180-181
River Tyne	121WAF910	121FWF201	Cockshaw Burn at Upper Hexham	Very High	182-183
River Tyne	121WAF910	121FWF203	River Tyne at Tyne Green Hexham	Medium	184-185
River Tyne	121WAF910	121FWF205	River Tyne & Cockshaw Burn at Tyne Green Mews Hexham	Medium	186-187
River Tyne	121WAF910	121FWF213	River Tyne at Hexham	Very High	188-190
River Tyne	121WAF910	121FWF221	River Tyne at Wellbank Riverside and The Mill, Corbridge	Medium	191-192
River Tyne	121WAF910	121FWF237	River Tyne at Corbridge	High	193-194
River Tyne	121WAF910	121FWF305	River Tyne at Ovingham	High	195-197
River Tyne	121WAF910	121FWF306	River Tyne at Bywell and Low Prudhoe	Very High	198-199

2.1.20 Action Plans

Local Response Level	Level 1 (Flood Alert or Low Risk Areas)		
Trigger	Flood Alert in force Or Low Risk Flood Warning or Warnings of severe weather in force that may result in flooding or reports of minor impact flooding.		
Actual or Forecast Impact	Low impact of flooding of fields, gardens and minor roads.		
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.		
Response Need		Decisions to be taken	Information required for decision
Northumberland Fire and Rescue Service			
<ul style="list-style-type: none"> • Fire Control and Duty Manager to monitor weather warnings, extreme rainfall alerts and further flood warnings. • Duty Manager to refer to the NCC Flood Action Plan in order to ascertain which flood warnings may follow. • Considering preparatory actions that may need to be taken at this point • Consider the locations of rapid response catchments • Consider using personnel in flood warning areas to assess the situation, provide reassurance, assist members of the public and provide a highly visible NFRS presence. • Control to utilize FLARE paging to key individuals. • Liaise with Water Incident Managers on duty 		<ul style="list-style-type: none"> • Consider deployment of HVP and SWR if required. • Public reassurance – location of crews • Attendance at multi-agency bronze/silver/gold 	<ul style="list-style-type: none"> • Monitor weather forecasts for the locality. • Monitor local information, such as actual flood events. • Monitor further information made available from the E.A., Met Office etc. • Maintaining contact with the Duty Civil Contingencies Officer

Local Response Level	Level 1 (Flood Alert or Low Risk Areas)	
Trigger	Flood Alert in force Or Low Risk Flood Warning or Warnings of severe weather in force that may result in flooding or reports of minor impact flooding.	
Actual or Forecast Impact	Low impact of flooding of fields, gardens and minor roads.	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Civil Contingencies Team		
<ul style="list-style-type: none"> • Refer to NCC FAP. Identify which flood warnings may follow in light of Flood Alerts/ Warnings that have been issued. • Monitor Severe Weather, Extreme Rainfall Alerts and both verbal and emailed updates from partner agencies. • Consider the locations of rapid response catchments • Contact Environment Agency Duty Flood Warning Officer for an overview of the current situation. • Contact Highways On-Call Manager where alert / warning has been issued. • Contact NFRS Duty Manager and discuss the level of risk. • Liaise with other partner agencies. • If alert/ warning is issued for the Wansbeck: Ian Graham or Mike Jeffery from Highways- to determine whether or not to open the flood gates on the River Wansbeck adjacent to the A189 spine road. 	<ul style="list-style-type: none"> • Consider activating ECAP- Level 1 • Do you need to inform Children's Social Care and / or Adult and Community Care Services? • Consider the need to evacuate • Consider the impact upon critical infrastructure within the flood zone. • Consider contact NCC Housing Delivery and relevant other housing management companies to arrange temporary housing. • Consider circulating an update to the Severe Weather Group via e mail • Consider the impact upon critical infrastructure within the flood zone. • Consider the need to use Resilience Direct • Attendance at multi-agency bronze/silver/gold if required. 	

Local Response Level	Level 1 (Flood Alert or Low Risk Areas)	
Trigger	Flood Alert in force Or Low Risk Flood Warning or Warnings of severe weather in force that may result in flooding or reports of minor impact flooding.	
Actual or Forecast Impact	Low impact of flooding of fields, gardens and minor roads.	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Civil Contingencies Team Continued.....		
<ul style="list-style-type: none"> • Maintain a liaison with partner agencies. • Consider any further actions in light of information updates. • Liaise with NCC Comms. Team 		

Local Response Level	Level 1 (Flood Alert or Low Risk Areas)	
Trigger	Flood Alert in force Or Low Risk Flood Warning or Warnings of severe weather in force that may result in flooding or reports of minor impact flooding.	
Actual or Forecast Impact	Low impact of flooding of fields, gardens and minor roads.	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Local Services and Housing Delivery		
<ul style="list-style-type: none"> • Refer to complete resource programme- access current jobs • Monitor forecasts. • Check Flood Boards • Check out of hours rota. • Begin to deploy officers to key at risk sites • Personnel and change work patterns. • Check gully tops, water grips and known flood locations. • Monitor incoming weather warnings, extreme rainfall alerts and further flood warnings. • Liaise with Northumbria Police. • Deploy road closures. • Open the relevant Local Services area office to act as a multi-agency bronze • On-Call Managers to liaise with key contacts of local flood groups 	<ul style="list-style-type: none"> • Are additional resources required at this point? • Out of hours capacity • Emergency transport for evacuation. • Refer to Northumberland Flood Action Plan and consider areas that could be affected should flood warnings be issued. • Consider need to move plant / equipment from flood risk areas. • Consider putting gully sucker crew(s) on standby. • Consider staffing arrangements and possible recall to duty. • Site visits to “at risk” areas. • Attendance at multi-agency – operational / tactical / strategic commands • Potential recall of staff to work in a rest centre should the situation worsen. • Potential re- housing may be required. Brief Homes for Northumberland. 	

Local Response Level	Level 1 (Flood Alert or Low Risk Areas)	
Trigger	Flood Alert in force Or Low Risk Flood Warning or Warnings of severe weather in force that may result in flooding or reports of minor impact flooding.	
Actual or Forecast Impact	Low impact of flooding of fields, gardens and minor roads.	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Local Services and Housing Delivery Continued....		
<ul style="list-style-type: none"> • Duty area on-call officer to refer to Extreme Rainfall Alerts, Severe Weather Warnings, Flood Guidance Statements in order to gain a more detailed picture. • React to specific calls from NCC Contact Centre / Civil Contingencies Team • Brief relevant personnel. 		
Adult and Community Care Services		
	Consider health and welfare issues relating to vulnerable people.	
Children's Social Care		
	Consider health and welfare issues relating to vulnerable people.	

Local Response Level	Level 2 (Flood Warning Medium and High Risks)	
Trigger	Flood Warning in force OR Warnings OR Severe Weather OR reports of flooding	
Actual or Forecast Impact	High impact flooding which may result in risk to life, homes and businesses.	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Northumberland Fire and Rescue Service		
<ul style="list-style-type: none"> Control and Duty Managers to monitor Weather Warnings, Extreme Rainfall Alerts, Flood Alerts and Warnings. Duty Manager to refer to the Northumberland Flood Action Plan in order to ascertain which Flood Warnings are likely to follow. All very high-, high- and medium-risk warnings to be communicated via e mail to all personnel and Station Managers. Pegswood, Hexham and Berwick RDS SWR Team and Pegswood HVP duty personnel are specifically made aware of Extreme Rainfall Alerts and very high-, high- and medium flood risks. Duty Manager to ensure that suitable staffing levels are maintained to enable foreseeable risk areas to be adequately covered. 	<ul style="list-style-type: none"> Public reassurance – location of crews How long have officers been responding? Consider fire ground feeding/ relieving shifts. Do road closures/ pinch points need to be communicated between the ops room and fire control? 	<ul style="list-style-type: none"> Weather forecasts from the locality. Local information such as reports of flood events from the public and responding organisations. Further info from the E.A. regarding any potential flooding. Reports from the media. Maintain contact with the Duty Civil Contingencies Officer

Local Response Level	Level 2 (Flood Warning Medium and High Risks)	
Trigger	Flood Warning in force OR Warnings OR Severe Weather OR reports of flooding	
Actual or Forecast Impact	High impact flooding which may result in risk to life, homes and businesses.	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Northumberland Fire and Rescue Service Continued.....		
<ul style="list-style-type: none"> • Ensure that Fire Support (or Fire Control out of hours) establishes the locations and availability of operational appliances and support vehicles. • Determine which FDO's are available for potential recall to duty and ensure that a full list of contact details is maintained. • Availability of SWR team is confirmed and all SWR equipment is checked to ensure its deployment, • HVP is ready for deployment. • Fire Support Services to check levels of additional environmental PPE and ensure that access is available. • Representation at Gold, Silver and Bronze Commands. • Liaise with Water Incident Managers on duty 		

Local Response Level	Level 2 (Flood Warning Medium and High Risks)	
Trigger	Flood Warning in force OR Warnings OR Severe Weather OR reports of flooding	
Actual or Forecast Impact	High impact flooding which may result in risk to life, homes and businesses.	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Northumberland Fire and Rescue Service Continued.....		
<ul style="list-style-type: none"> • Fire Support to ensure that a full suite of A1 sized Northumberland encapsulated maps is available within the Incident Support Room at Fire and Rescue HQ. • Fire Support to ensure that Incident Support Room is fully operational- Maps IT, Smart board, phone lines fax lines – emergency plans. • Consider the locations of rapid response catchments • Consider using personnel in flood warning areas to assess the situation, provide reassurance, assist members of the public and provide a highly visible NFRS presence. • Control to utilize FLARE paging to key individuals. 		

Local Response Level	Level 2 (Flood Warning Medium and High Risks)	
Trigger	Flood Warning in force OR Warnings OR Severe Weather OR reports of flooding	
Actual or Forecast Impact	High impact flooding which may result in risk to life, homes and businesses.	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Civil Contingencies Team		
<ul style="list-style-type: none"> • Monitor weather warnings, ERA's and information relayed via e mail/ phone calls from partner agencies. • Refer to Flood Warning Risk Sheets. • Liaise with other partner agencies. • Make contact with the E.A. Duty Officer to ascertain further details • Liaise with NFRS Duty Manager and Highways On-Call Managers. • Act as main point of contact for partner agencies. • Co-ordinate/ Assist with the co-ordination of Multi-Agency Silver (NFRS Ops Room) • Ensure that Northumbria Police are aware of the situation. • Identify potential rest centre options. • Address the need to evacuate with partner agencies. 	<ul style="list-style-type: none"> • Consider placing the ECAP partner agencies including the voluntary sector on standby. • Consider whether the incident could escalate further. • Consider the need for rest centre(s) and available options. • Consider the need to evacuate and the transport required. • Consider any critical infrastructure that may sit within the flood zone – contact the relevant utility company for further information. • Do you need to contact Adult and Community Care Services or Children's Social Care? • Consider circulating an update to the Severe Weather Group via e mail • Maintain contact with rest centres re: current situation – when or if it will be possible for people to return home • Consider / arrange rota for Civil Contingencies officers / support staff. 	

Local Response Level	Level 2 (Flood Warning Medium and High Risks)	
Trigger	Flood Warning in force OR Warnings OR Severe Weather OR reports of flooding	
Actual or Forecast Impact	High impact flooding which may result in risk to life, homes and businesses.	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Civil Contingencies Team Continued.....		
<ul style="list-style-type: none"> • Contact NCC Transport and place on standby. • Consider the locations of rapid response catchments • Liaise with NCC Comms Team • Contact to be made with NFRS Principal Officer(s) and Heads of Technical and Neighbourhood Services. Address who will contact the NCC Corporate lead for flooding or deputy if not available. 	<ul style="list-style-type: none"> • If the incident is prolonged, consider "Flood Ground Feeding". • If necessary, contact NCC Housing and other relevant housing management organisations re: temporary housing. • Contact NCC Housing if we require staffing for a rest centre. • Consider the need to use Resilience Direct • Activate the ECAP and follow instructions 	

Local Response Level	Level 2 (Flood Warning Medium and High Risks)	
Trigger	Flood Warning in force OR Warnings OR Severe Weather OR reports of flooding	
Actual or Forecast Impact	High impact flooding which may result in risk to life, homes and businesses.	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Local Services and Housing Delivery		
<ul style="list-style-type: none"> • Refer to complete resource programme – assess current on-going jobs. • Contact local flood groups • Begin to deploy personnel and change work patterns. • Open the relevant Local Services Area Offices to act as a Multi-Agency Bronze • Construction jobs to be stopped and personnel to be re-deployed • Respond to calls of assistance i.e. the removal of fallen trees from roads. • Ensure representation at relevant Command and Control levels (Gold, if SCG is called, Silver and Bronze) • Duty on-call area officer refers to extreme rainfall alerts, severe weather warnings alerts/ warnings etc. in order to gain a more detailed picture. • React to calls from NCC Contact Centre 	<ul style="list-style-type: none"> • Are additional resources required at this point? • Out of hours capacity • Transport requests (also consider in relation to school closures/ assistances with evacuation etc.) • Repair options (bridges/ roads) • Check gully tops, water grips and know flood locations. • Monitor incoming weather warnings, extreme rainfall alerts and further flood alerts/ warnings. • Liaise with Northumbria Police. • Consider need to move plant / equipment from flood risk areas. • Closing of roads in connection with Northumbria Police. Deploy road closure boards. • Site visits to at risk areas. • Staff welfare and rotas etc. • Availability of waste management personnel. (Consider business continuity impact if utilised) • Viability of opening sluice / weir gates – liaise with E.A. 	<ul style="list-style-type: none"> • Maintain contact with CCT re alerts/ warnings/forecasts.

Local Response Level	Level 2 (Flood Warning Medium and High Risks)	
Trigger	Flood Warning in force OR Warnings OR Severe Weather OR reports of flooding	
Actual or Forecast Impact	High impact flooding which may result in risk to life, homes and businesses.	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Local Services and Housing Delivery Continued....		
<ul style="list-style-type: none"> • Deploy gully sucker crew(s) on standby. • If 5 or more requests for the gully suckers are received within one hour-consider opening a multi-agency bronze at the local area depot 		
Adult and Community Care Services		
	Health and Safety Welfare Issues	Details of Vulnerable people
Children's Social Care		
	<ul style="list-style-type: none"> • Health and Safety welfare issues. • Consider whether there are any children with special needs who are in education outside of the County. 	Details of Vulnerable Young People
Public Protection		
Undertake environmental management in conjunction with E.A. and PH£.		

Local Response Level	Level 3 (Flood Warning and Very High Risks)	
Trigger	Flood Warning in force OR Warnings OR Severe Weather OR reports of flooding	
Actual or Forecast Impact	High impact flooding which may result in extreme danger to life and property	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Northumberland Fire and Rescue		
<ul style="list-style-type: none"> Incident Support Room is established by relevant personnel. Continued liaison with CDS Resilience is maintained by Incident Support Room personnel. The use of the recall to duty to be actioned following agreement with PO should alert notifications and local intelligence suggests a High-Risk event – this would be for non-operational and operational personnel. Consider the early deployment of resources in areas at most risk if information is not specific enough. HVPI's or competent FDO or NFRS personnel are available to undertake initial assessments for the deployment of the HVP and hose layer if required. Considering contacting the National Coordination Centre (West Yorks. FRS) to determine the availability of national flood response assets. Consider contacting National Resilience for Flood Tactical Advisors 	<ul style="list-style-type: none"> Attendance at Gold, Silver and Bronze. Public reassurance – location of crews How long have officers been responding? Consider fire ground feeding/ relieving shifts. Do road closures/ pinch points need to be communicated between the Ops room and Fire Control? 	<ul style="list-style-type: none"> Weather forecasts from the locality. Local information such as reports of flood events from the public and responding organisations. Further information from the E.A. regarding any potential flooding. Reports from the media. Continue to liaise with CCT
Local Response Level	Level 3 (Flood Warning and Very High Risks)	

Trigger	Flood Warning in force OR Warnings OR Severe Weather OR reports of flooding	
Actual or Forecast Impact	High impact flooding which may result in extreme danger to life and property	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Northumberland Fire and Rescue Continued.....		
<ul style="list-style-type: none"> • If incident develops, consider the early implementation of the ECAP and MIP. • Ensure that all actions referred to under level 2 have also been completed. • Consider the location of rapid response locations • Consider using personnel in flood warning areas to assess the situation, provide reassurance, assist members of the public and provide a highly visible NFRS presence. • Control to utilize FLARE paging to key individuals. • Liaise with Water Incident Managers on duty 		

Local Response Level	Level 3 (Flood Warning and Very High Risks)	
Trigger	Flood Warning in force OR Warnings OR Severe Weather OR reports of flooding	
Actual or Forecast Impact	High impact flooding which may result in extreme danger to life and property	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Civil Contingencies Team		
<ul style="list-style-type: none"> • Monitor alerts/ warnings/forecasts • Make contact with E.A. Duty Flood Warning Officer to ascertain further details. • Liaise with NFRS Duty Manager and Highways On-Call Manager. • Address who will contact the NCC Corporate lead for flooding or deputy if not available • Act as main point of contact for other partner agencies. • Co-ordinate – assist with the co-ordination of a multi-agency Silver Command. • Ensure that Northumbria Police Resilience Department are aware of current situation. • Refer to flood warning risk data sheets • Attend multi-agency Silver and Gold if required. • Identify potential rest centres • Address the need to evacuate with partner agencies. 	<ul style="list-style-type: none"> • Consider/ arrange rota for Civil Contingencies Officers / support staff. • Consider if the incident could escalate further. • Consider the need to use Resilience Direct • Activate ECAP Level 2 • Consider briefing the Emergency Committee. • Do we need to contact Adult and Community Care Services or Children's Social Care? • Consider circulating an update to the Severe Weather Group via e mail • If prolonged incident, consider "Flood Ground Feeding". • Contact NCC Housing and other relevant housing management organisations. • Contact with Rest Centres re: conditions and whether it is safe to return home etc. 	
Local Response Level	Level 3 (Flood Warning and Very High Risks)	

Trigger	Flood Warning in force OR Warnings OR Severe Weather OR reports of flooding	
Actual or Forecast Impact	High impact flooding which may result in extreme danger to life and property	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Civil Contingencies Team Continued.....		
<ul style="list-style-type: none"> • Liaise with utilities over locations of critical infrastructure. • Liaise with NCC Comms. Team • Contact NCC Housing if a rest centre requires staff. • Refer to flood data sheets • Place voluntary organisations on standby or request their assistance. • Consider the locations of rapid response catchments. 		

Local Response Level	Level 3 (Flood Warning and Very High Risks)	
Trigger	Flood Warning in force OR Warnings OR Severe Weather OR reports of flooding	
Actual or Forecast Impact	High impact flooding which may result in extreme danger to life and property	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Local Services and Housing Delivery		
<ul style="list-style-type: none"> • Refer to complete resource programme- assess current on-going jobs. • Monitor forecasts • Check flood boards • Check out of hours rotas • Begin to deploy personnel and change work patterns. • Check gully tops, water grips and known flood locations. • Monitor incoming weather warnings, extreme rainfall alerts and further flood warnings etc. • Liaise with Northumbria Police. • Closure of roads in conjunction with Northumbria Police. Deploy road closure signs. • Open Local Services office as a multi-agency operational command 	<ul style="list-style-type: none"> • Transport requests (School closures/ assistance with evacuation etc.) • Are additional resources required at this point? • Consider need to move plant / equipment from flood risk areas. • Out of hours capacity. • Staff welfare and rotas • Availability of waste management personnel (Consider business continuity impact) • Viability of opening sluice gates/ liaise with the E.A. 	

Local Response Level	Level 3 (Flood Warning and Very High Risks)	
Trigger	Flood Warning in force OR Warnings OR Severe Weather OR reports of flooding	
Actual or Forecast Impact	High impact flooding which may result in extreme danger to life and property	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Local Services Continued...		
<ul style="list-style-type: none"> • Construction jobs to be stopped, personnel to be re-deployed • Brief NCC Comms. Team • Strategy regarding deployment of personnel and the duration of the incident • Respond to calls for assistance i.e. the removal of fallen trees from roads. • Duty on-call area officer refer to extreme rainfall alerts, severe weather warnings etc. in order to gain a more detailed picture. • Ensure representation at relevant Command and Control levels (Strategic – if SCG is called, Tactical and Operational) • Contact local flood groups 		

Local Response Level	Level 3 (Flood Warning and Very High Risks)	
Trigger	Flood Warning in force OR Warnings OR Severe Weather OR reports of flooding	
Actual or Forecast Impact	High impact flooding which may result in extreme danger to life and property	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Public Protection		
<ul style="list-style-type: none"> Undertake environmental management in conjunction with the E.A. and PH€ 		
Adult and Community Care Services		
	<ul style="list-style-type: none"> Health and Safety welfare issues. 	Details of Vulnerable adults
Children's Social Care		
	<ul style="list-style-type: none"> Health and Safety welfare issues. Consider whether there are any children with special needs. 	Details of Vulnerable Young People

Local Response Level	Level 4 Recovery Action Plans	
Trigger	Flood Warning downgrades OR all clears OR no weather warnings	
Actual or Forecast Impact	Flood water receding	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Northumberland County Council		
<ul style="list-style-type: none"> Accept handover notes from Police as the incident moves to the Response to Recovery phase. NCC, as lead agency, to establish Recovery Co-ordinating Group (RCG) Decide appropriate membership of RCG Chair of RCG to attend SCG RCG to develop Recovery Strategy – this should be done during the Response phase to allow a seamless transition from response to recovery. For a complete list of RCG criteria for developing a recovery strategy, see the NCC R & R Plan. RCG to set up and decide membership for relevant recovery subgroups. (To see a complete list of all recovery subgroups and membership suggestions refer to the NCC R & R Plan). 	<ul style="list-style-type: none"> Determine timescale and arrangements for the formal handover of the response phase to the recovery phase. Determine the timescales in which to initiate the de-brief process in accordance with the NLRF debrief protocol. 	<ul style="list-style-type: none"> Weather forecasts for the locality. Feedback from the community and responders at the scene that water has receded. Confirmation from the E.A. that no further flooding is expected.

Local Response Level	Level 4 Recovery Action Plans	
Trigger	Flood Warning downgrades OR all clears OR no weather warnings	
Actual or Forecast Impact	Flood water receding	
Information Source	Environment Agency, Met Office, reports from personnel or members of the public.	
Response Need	Decisions to be taken	Information required for decision
Northumberland County Council		
<ul style="list-style-type: none"> • The Chair of the Recovery Coordinating Group, in discussion with the RCG members will decide when it is appropriate to stand down the group. The needs of the community will be key to this decision. • Evaluate properties for safe return of residents. • Provide transport for residents back to their properties if required. • Provide temporary accommodation if required. • The length of time that the RCG is required to continue meeting will vary according to the nature and scale of the emergency. • The decision to stand down the RCG will be communicated to all affected agencies by the RCG Chair / Secretariat. • Ensure Comms Team keep the public informed and updated with all developments. 		

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Legend

These symbols are used in the following maps.



Command Posts

- Bronze



Fire Station



Rest Centre

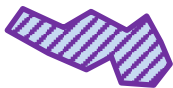
- Schools



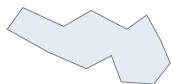
- Halls



- Leisure Centre



Flood Warning Area



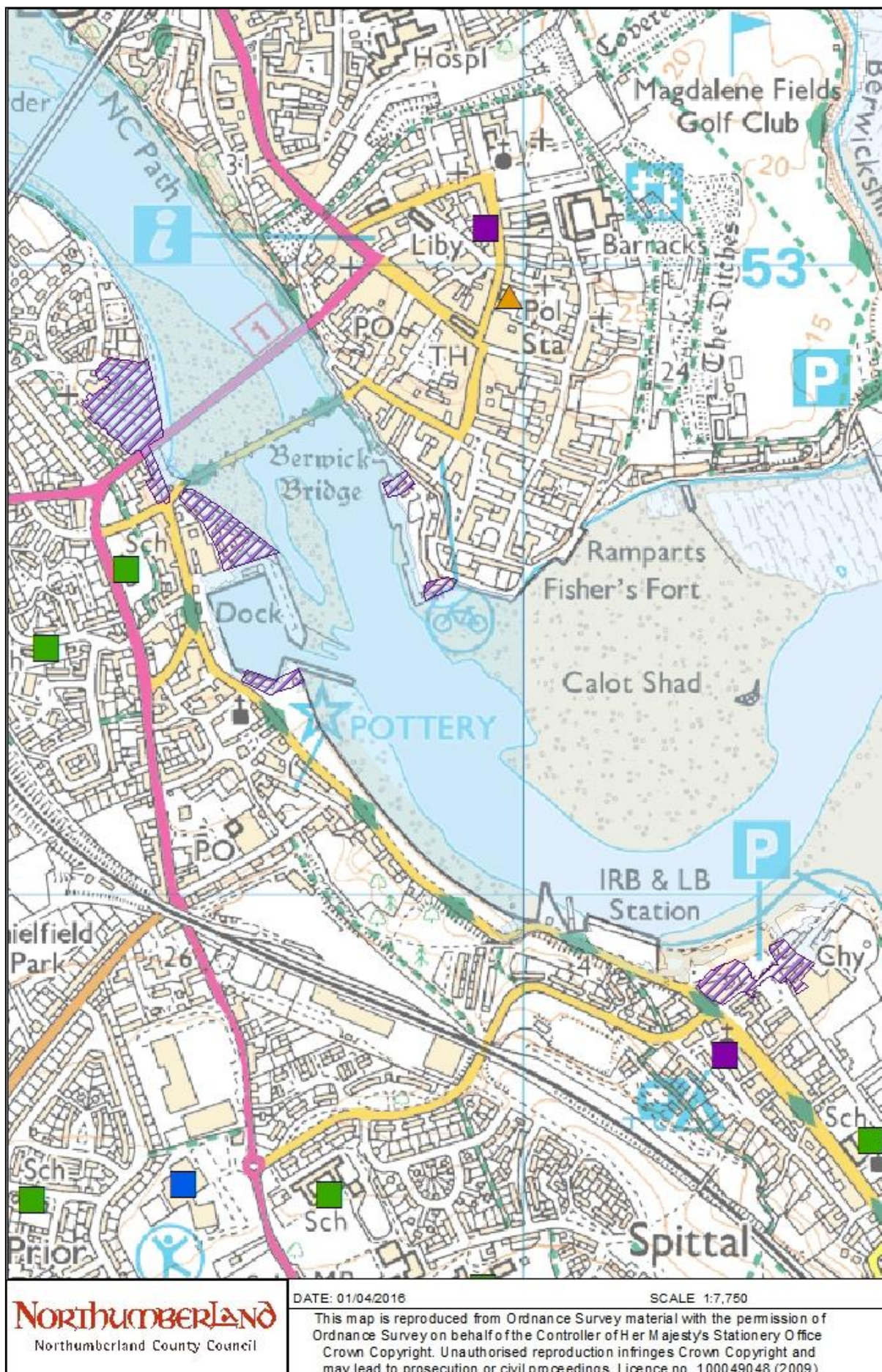
Flooding Zones

2.1.21 Flood Risk Data Sheets

Flood Warning Ref Code:	121FWT519	Location:	North Sea Berwick Upon Tweed and Tweedmouth	
Description:				
Properties on the Chandlery and Marlin Buildings in Berwick, Blakewell Road and West End in Tweedmouth, The Waterfront at Sandstell Road in Spittal and Berwick Dock.				
No. Properties at risk	No. of vulnerable people at risk		Critical vulnerable infrastructure	
73	Refer to Section 2.1.9 Tweedmouth House, Care Home, Main Street – Capacity 55 Aberwicke Care Home, Main Street – Capacity 3 Garden House Care Home, Main Street- Capacity 24 Hilda House Care Home, Main Street Capacity- 3		N/A	
	Frequency of Flooding		Lead Time	
	1:50 – 1:200 (0.5-2%)		4 hours	
Flooding History (if known)				
1953 Flooding to the properties Berwick Pier Road January 1978 – 2 properties flooded at Salmon Fisheries Feb 1997 – Flooding to road rear Quayside - 1 property affected October 2005 – Estuary burst its banks no properties damaged March 2006 – Flooding to low-lying areas Blakewell Road - no properties damaged - Slipway was submerged in tidal flood waters. Dec 2013- peak record levels. Estimated 4 properties flooded in Berwick. (Blakewell Road and West End) December 2014 – Significant tide levels and surge – est 4 properties affected Blakewell Road and West End				
Flood Defences / Alleviation Schemes (if any)				
Man-made defence designed for coastal protection maintained by Northumberland County Council and not the Environment Agency. Seawall at Pier Road. Berwick has a crest level of 3.87mts AOD, which is built upon a rock level 1.5mts AOD				
Flood Warning Status Area(s) at risk (refer to map)				
Flood Alert	121WAT902			
Flood Warning	121FWT519			
Severe Flood Warning	Yes			
Risk Assessment				
Likelihood	(1-5) 4			High Risk
Impact - Health	(1-5) 3	Mean Impact		
	(1-5) 3	Score		
	(1-5) 2	(1-5)	2.75	
	(1-5) 3			

Additional Information:

Rest Centre Options (Capacity)	Swan Leisure Centre TD15 2AS (100+) Berwick Academy TD15 2JF Tweedmouth Middle School TD15 2DJ (120) Berwick Middle School TD15 1LA (200) Salvation Army Hall TD15 1EE Berwick United Reform Church, Spittal TD15 1QY
Command and Control Locations	Bronze Options: Berwick Police or Fire Stations Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.
Evacuation Routes	Exit via West End Road or Union Brae into Osborne Road
NCC property in the flood zone	9220- Tweedmouth Highways Depot Quayside Car Park - TD15 1HE Spittal Point Car Park- TD15 1RE Standstell Car Park- TD15 1RE Blakewell Rd (land) TD15 2HG

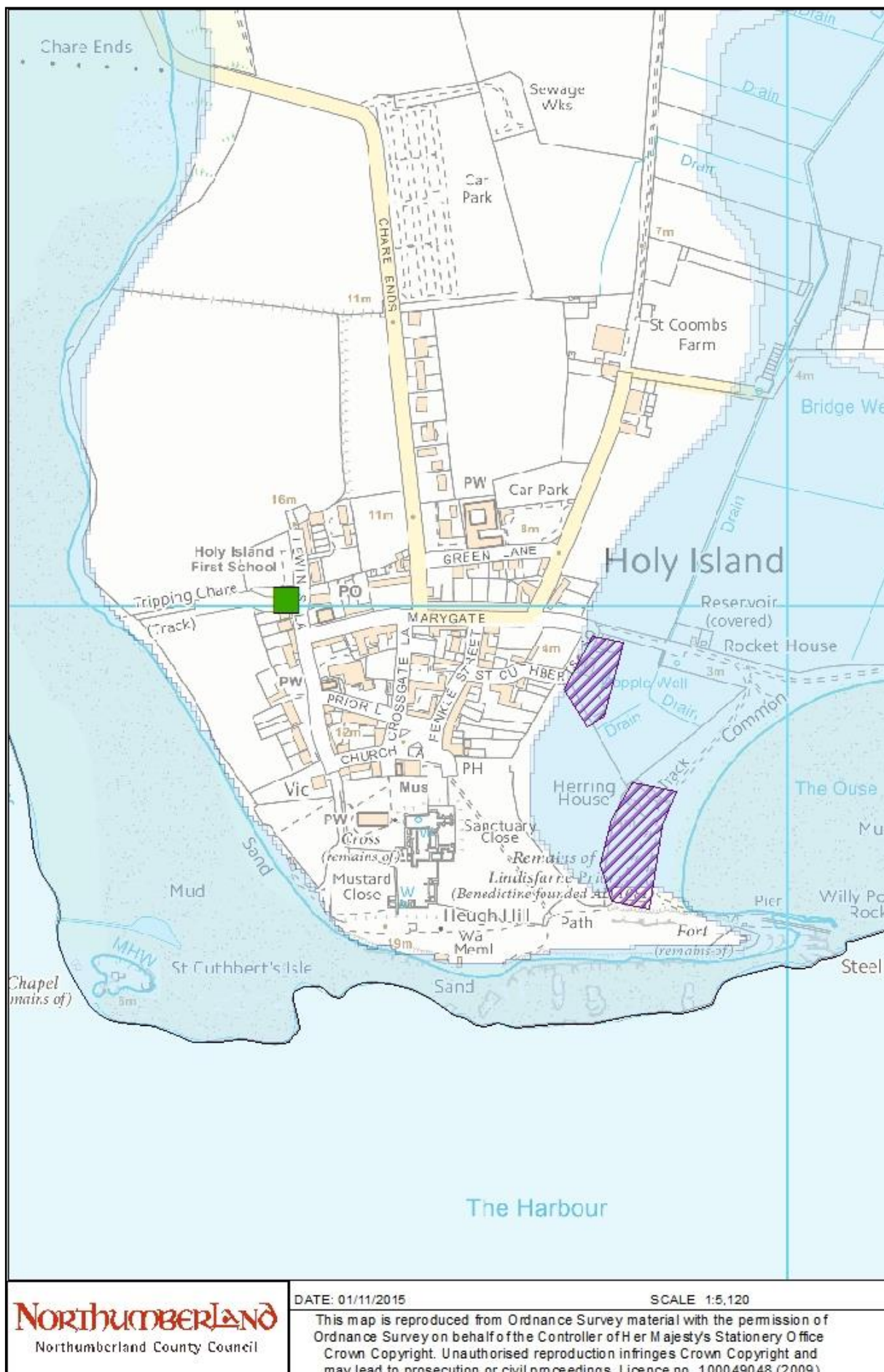


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Flood Warning Ref Code:	121FWC526	Location:	North Sea at Holy Island
Description:			
Properties and low-lying areas around Athol Brose, St Oswald's and Herring House.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
3	Refer to Section 2.1.9	N/A	
	Frequency of Flooding	Lead Time	
	1:200 (0.5%)	4hrs	
Flooding History (if known)			
February 1997 Waves exceeded pier wall.			
Flood Defences / Alleviation Schemes (if any)			
No Environment Agency defences known A tidal flap is in place at Holy Island, which prevents some tidal flooding to agricultural land			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAC921		
Flood Warning	121FWC526		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5)	3	Low Risk
Impact - Health	(1-5)	1 Mean Impact	
	(1-5)	1 Score	
	(1-5)	1 (1-5) 1	
	(1-5)	1	

Additional Information:

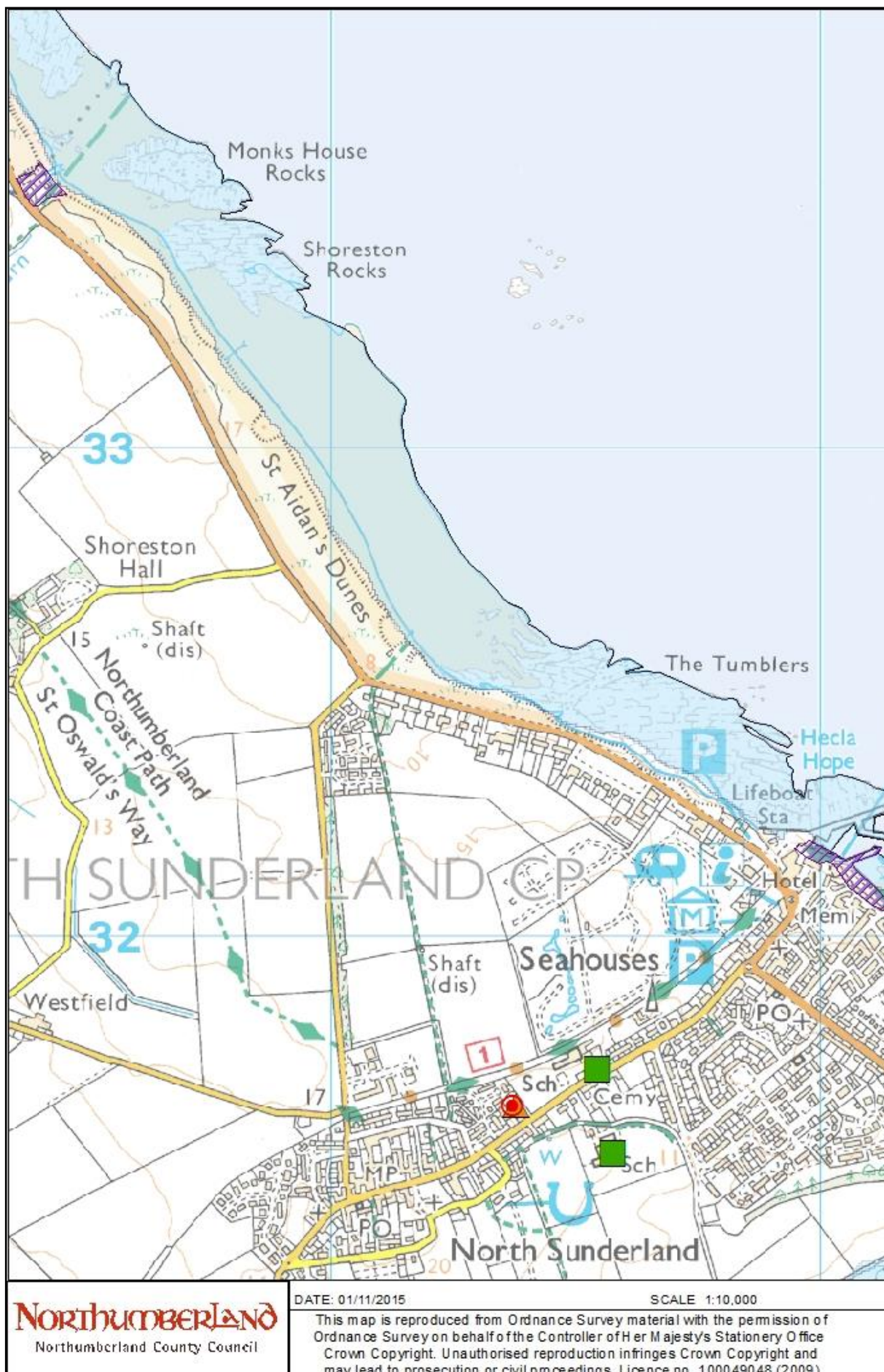
Rest Centre Options (Capacity)	Holy Island C of E First School TD15 2SQ (80)
Command and Control Locations	Bronze Options: Holy Island Fire Stn or First School Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident
NCC property in the flood zone	7750- Fire appliance garage



Flood Warning Ref Code:	<u>121FWC527</u>	Location:	North Sea at Seahouses
Description:			
Low-lying areas and properties around Harbour Road, Chapel Row, Monks House and North Street.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
28	Refer to Section 2.1.9	N/A	
	Frequency of Flooding	Lead Time	
	1:50 -1:200 (0.5-2%)	4hrs	
Flooding History (if known)			
Flooding in January 1978, 1ft was recorded along the Quayside at high tide, and waves were seen breaking over the sea wall at the Lifeboat Station. In September 2002, sea spray flooded the roads. Flooding is known to have happened in the past, but details have not been recorded.			
Flood Defences / Alleviation Schemes (if any)			
No Environment Agency defences known. A masonry seawall with a crest level of 3.9mts protects the houses to the south of the inner harbour.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAC921		
Flood Warning	121FWC527		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5)	3	Medium Risk
Impact - Health	(1-5)	2 Mean Impact	
- Social	(1-5)	2 Score	
- Economic	(1-5)	2 (1-5) 2	
- Environmental	(1-5)	2	

Additional Information:

Rest Centre Options (Capacity)	Seahouses Middle School NE68 7YF (114) Seahouses First School NE68 7UE
Command and Control Locations	Bronze Options: Seahouses Fire Stn Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.



Flood Warning Ref Code:	<u>121FWC530</u>	Location:	North Sea at Beadnell	
Description:				
Properties at the south end of Harbour Road next to Beadnell Harbour.				
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure		
1	Refer to Section 2.1.9	N/A		
	Frequency of Flooding	Lead Time		
	1:50 – 1:200 (0.5–2.0%)	4 hrs.		
Flooding History (if known)				
In 1996 only coastal roads were flooded.				
Flood Defences / Alleviation Schemes (if any)				
The Environment Agency does not maintain any flood defences in this area. There is a range of splash walls, breakwaters, revetments, and natural defence systems that are maintained privately or by the local authority.				
Flood Warning Status Area(s) at risk (refer to map)				
Flood Alert	121WAC921			
Flood Warning	121FWC530			
Severe Flood Warning	yes			
Risk Assessment				
Likelihood	(1-5)	4	Low Risk	
Impact - Health	(1-5)	1		Mean Impact Score (1-5) 1
	(1-5)	1		
	(1-5)	1		
	(1-5)	1		

Additional Information:

Rest Centre Options (Capacity)	Beadnell Women's Institute Hall NE67 5AJ Seahouses Middle School NE68 7YF (114) Seahouses First School NE68 7UE
Command and Control Locations	Bronze Options: Seahouses Fire Stn Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.



Flood Warning Ref Code:	121FWC531	Location:	North Sea at Alnmouth.
Description:			
Low-lying areas around Riverside Road, Garden Terrace and Sawmill Cottage.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
14	Refer to Section 2.1.9	N/A	
	Frequency of Flooding	Lead Time	
	1:100 (1%)	4hrs	
Flooding History (if known)			
In January 1978 waters bypassed the flood bank, running just below road level it covered 50-60 yards of roadside. Roads flooded in1983 and one property (19 Riverside) was flooded on Riverside Road. January 2005 – Flooding to Alnmouth horse fields March 2007 – Significant wave action caused flooding onto golf course, car park and access road. December 2013 – High tide and surge - 7 properties flooded at Riverside Road.			
Flood Defences / Alleviation Schemes (if any)			
No Environment Agency defences. Embankments protect agriculture land on both sides of the river. Tidal defences protect properties at risk on Riverside Road.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAC921		
Flood Warning	121FWC531		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5)	4	Medium Risk
Impact - Health	(1-5)	2 Mean Impact	
	(1-5)	2 Score	
	(1-5)	1 (1-5) 1.5	
	(1-5)	1	

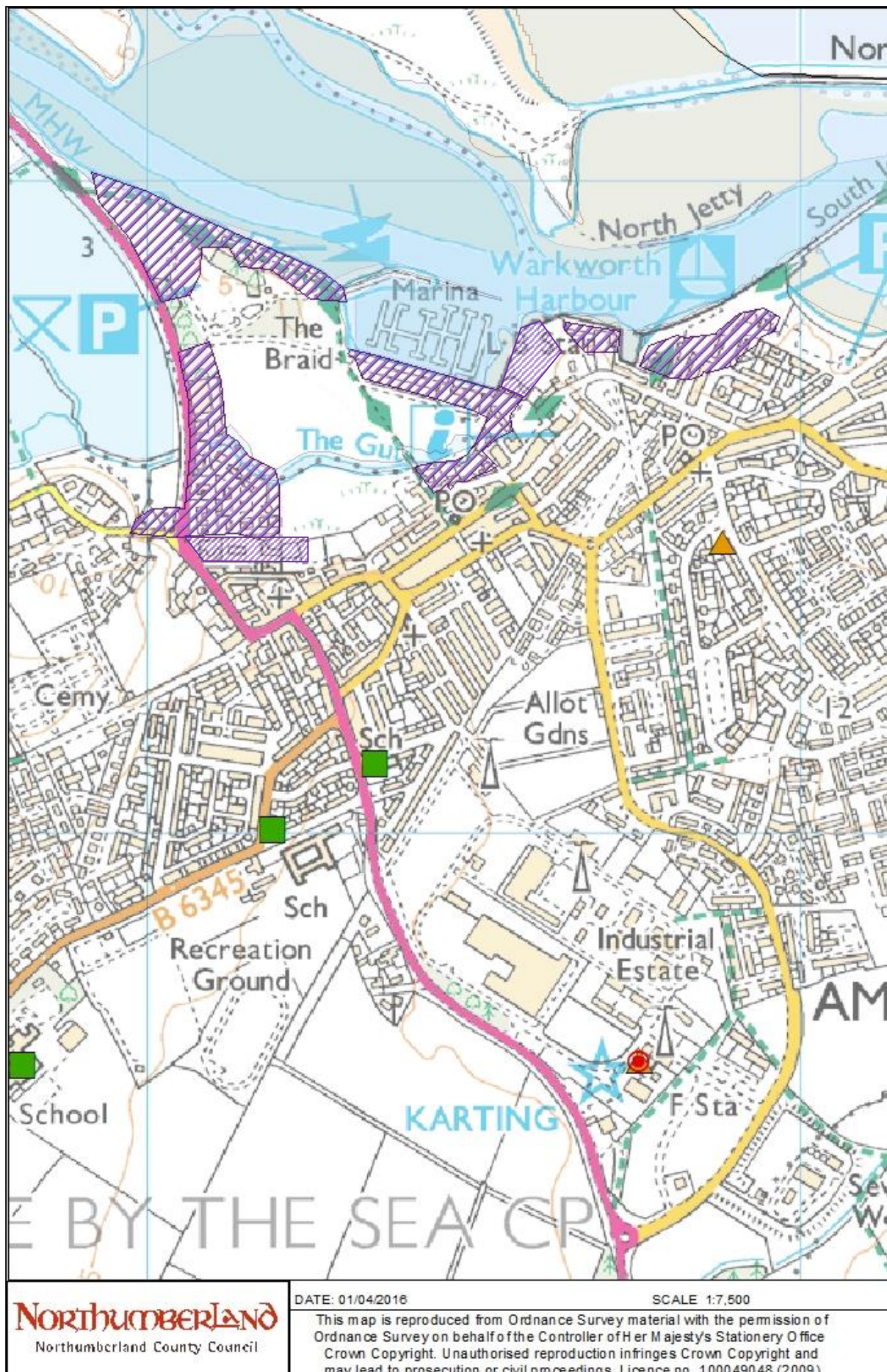
Additional Information:

Rest Centre Options (Capacity)	Hipsburn First School Lesbury NE66 3PX (40-50)
Command and Control Locations	<p>Bronze Options: Hipsburn First School</p> <p>Silver: Northumberland Fire and Rescue HQ West Hartford</p> <p>Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident</p>



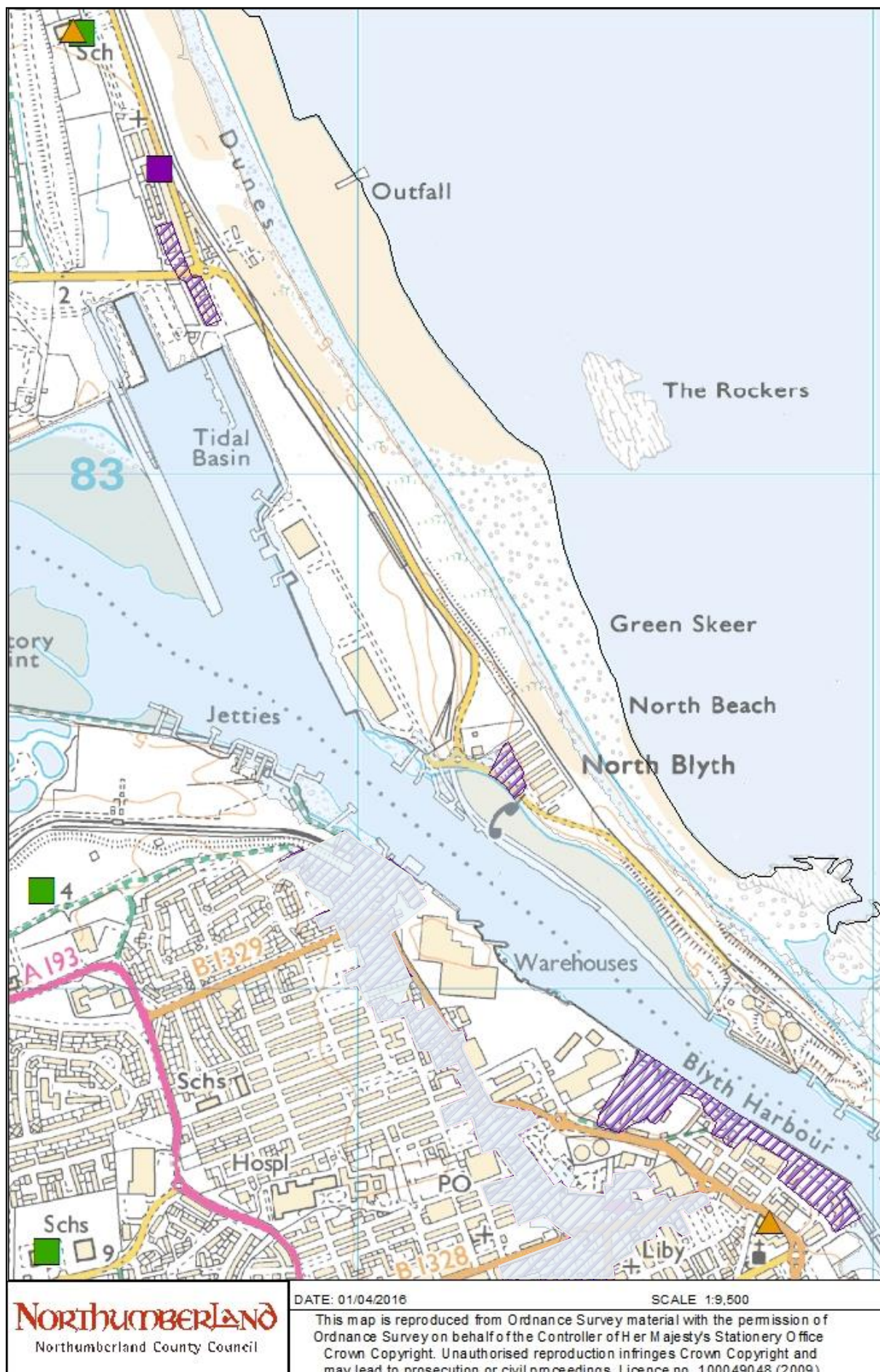
Flood Warning Ref Code:	121FWC532	Location:	North Sea at Amble
Description:			
Properties at Amble Marina, Turner Street, Broom Hill Street, Fish Market, the Harbour Office, Riverside Park, River Green, The Wynd, Coquet Yacht Club, Amble Boat Club and Amble Lifeboat Station.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
95	Refer to Section 2.1.9	Lifeboat Station	
	Frequency of Flooding	Lead Time	
	1:50 in most locations 1:100 at Amble Marina and Broomhill Street area (2.0% most locations 1.0% at Amble Marina / Broomhill St.)	9 hrs	
Flooding History (if known)			
Flooding is known to have happened in the past, details have not been recorded. In January 1978 roads and an unconfirmed number of properties were flooded at Amble Harbour where the sea was reported to have gone inland 30yds to the edge of the Fisheries building. March 2006, Riverside Walk was flooded to wading depth. Flooding generally occurs in this area due to high tides and the backing up of The Gut. 2013 - no properties affected but Coastguard Cottage was affected by overtopping.			
Flood Defences / Alleviation Schemes (if any)			
No Environment Agency defences known. A sea wall is in place protecting properties at risk of flooding from the North Sea.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAC921		
Flood Warning	121FWC532		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5)	4	High Risk
Impact	(1-5)	3	
- Health	(1-5)	2	
- Social	(1-5)	2	
- Economic	(1-5)	2	
- Environmental	(1-5)	2	
		Mean Impact Score (1-5) 2.25	

Rest Centre Options (Capacity)	James Calvert Spence College sites Acklington Road and South Avenue, Amble Amble Links First. NE65 0EF Amble First School NE65 0EF
Command and Control Locations	Bronze Options: Amble Fire Stn Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.
NCC property in flood zones	1143- Amble Day Centre Amble Sailing Centre- NE65 0DJ South Jetty Amble - NE65 0AX Turner Street Car Park- NE65 0DH Island View Car Park- NE65 0SE Well Haugh Car Park - NE65 0SE Old Coast Guard Station - NE65 0AY Amble Play Area - NE65 0AU



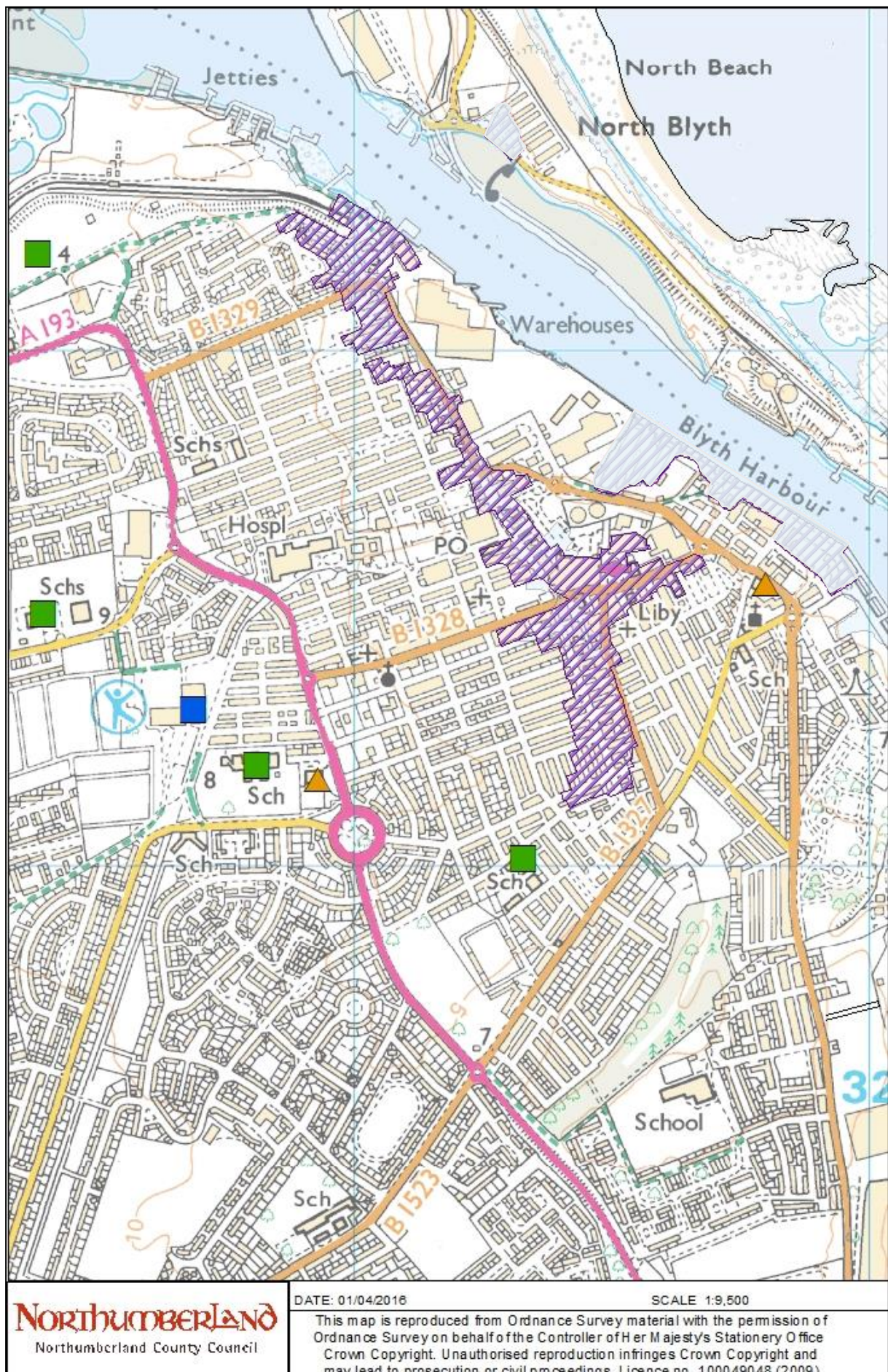
Flood Warning Ref Code:	121FWC537	Location:	North Sea at Blyth
Description:			
Properties at Blyth Quayside and around, Battleship Wharf, Worsdell Street and Dale Street in North Blyth, and properties around West Bridge Street and Selbourne Terrace in Cambois			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
63	Refer to Section 2.1.9	N/A	
	Frequency of Flooding	Lead Time	
	1:10 for Quayside and Low Quay Road (10%) 1:200 for all properties (0.5%)	4 hrs.	
Flooding History (if known)			
<p>1876 -1954 several incidents of Town Centre being flooded no details on number of properties affected.</p> <p>February 1978 - roads surrounding North Blyth were flooded. The Mini Roundabout and the road to the Working Men's Club were flooded, and the now dismantled Power Station was flooded to 300mm.</p> <p>One property was flooded in 1995 and a property flooded in 1996. In 1997 roads were flooded to a depth of 100mm due to high tide levels.</p> <p>Dec 2013- peak level recorded. Flooding in roads in North Blyth and Crawford Street/ Regent Street area in Blyth. Flooding of roads and gardens but no record of flooded property.</p>			
Flood Defences / Alleviation Schemes (if any)			
No Environment Agency defences known. A series of defences have been constructed since the floods of 1954.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAC921		
Flood Warning	121FWC537		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 4	Medium Risk	
Impact - Health	(1-5) 3		
- Social	(1-5) 3		
- Economic	(1-5) 1		
- Environmental	(1-5) 1		
Rest Centre Options (Capacity)		Cambois Welfare NE24 1QS Bedlingtonshire Community High School	
Command and Control Locations		Bronze Options: Cambois Welfare or Blyth Leisure Centre Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of Incident.	
Evacuation Route		Road closures at B1329/B1328 Quay Road roundabout leading to the Quayside. Closure of Tate Street off the Bridge Street roundabout with the escape routes being the B1329 Ridley Avenue, Wensleydale Road to the A193 Links Road, or the A1061 Newsham Road in the north direction. Alternative via Regents Street, Hodgsons Road, Cowpen Road A193.	

NCC properties in the flood zone	<p> Cambois First School - NE24 1RD Croft Way First School – NE24 2HP St Johns Park- NE24 1NS Blyth Links and Foreshore NE24 3PH Listed Forts – Blyth NE24 3PH Blyth Cemetery- NE24 3PJ Former Seafront Street Office Site – NE24 1AY Eric Tolhurst Centre, Blyth NE24 2AS Buffalo Community Centre – NE24 2AS Market Place Toilets – NE24 2AS Keel Row Toilets – NE24 1AH Fort House Toilets – NE24 3PH Essoldo, Union Street – NE24 2DX High Street Car Park – NE24 1DR Keel Row Car Park – NE24 1AH Fulmer Drive Car Park- NE24 3RJ Station Street Car Park – NE24 3RJ Blyth Market- NE24 1AH CVS Building - NE24 1 AH Young Peoples Centre - NE24 1AH Community Enterprise Centre - NE24 3AG Your Link Keel Row- NE24 1AH Nye Bevan House - NE24 3ED Bob Elliott House - NE24 3ED Beaumont Street - NE24 1HP 26 Beaumont Street- NE24 1PD 24/26 Millfield Gdns - NE24 1PD Chestnut / Willow/ Millfield Housing - Cowpen NE24 1PG Croften Street/ Croft Road- NE24 2HH Gladstone St (land) NE24 2HH Bowes Street - NE24 1HU Willow Avenue (land) NE24 1PG Union Street (land) NE24 2EB Delaval Tce- NE24 1ET Spencer Road Boat Yard - NE24 4BG Club and Institute - NE24 1ET Regent Street- NE24 1ET French Street- NE24 1ES 56 Park Road- NE24 3DJ Regent Street - NE24 1LT Quayside Court- NE24 3AR Blyth Quayside Staithes - N24 2AS Bridge Street Open Spaces - NE24 2AU East Rotary Way (land) NE24 3ES 11 Richmond Court - NE24 1AH 14 Richmond Court - NE24 1AH 7 Richmond Court - NE24 1AH 8 Richmond Court - NE24 1AH River Blyth Port Heath Authority- NE24 3AY Rocket House NE24 3AX 17 Barnard Street- NE24 2HG </p>
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Flood Warning Ref Code:		121FWC539		Location:		North Sea at Blyth Town Centre	
Description:							
Properties located on roads and streets adjacent to Crawford Street, Hodgsons Road, Croft Road, Regent Street, Union Street, Bridge Street and Princess Louise Road							
No. Properties at risk		No. of vulnerable people at risk			Critical vulnerable infrastructure		
556		Refer to Section 2.1.9 No Care Homes or Supported Housing Identified			Northumbria Water, Pumps. Gas Holder		
		Frequency of Flooding			Lead Time		
		1:1000 (0.01%)			4hrs		
Flooding History (if known)							
No flood history							
Flood Defences / Alleviation Schemes (if any)							
There is a small flood wall adjacent to Crawford Street that has a 1 in 100-year standard of protection. This has natural ground with a 1 in 2 years standard of protection both upstream and downstream, the potential for outflanking of the flood wall at lower than the standard of protection stated is possible.							
Flood Warning Status Area(s) at risk (refer to map)							
Flood Alert		121WAC921					
Flood Warning		121FWC539					
Severe Flood Warning		yes					
Risk Assessment							
Likelihood		(1-5) 3			Very High Risk		
Impact - Health - Social - Economic - Environmental		(1-5) 5 Mean Impact					
		(1-5) 5 Score					
		(1-5) 5 (1-5) 4.75					
		(1-5) 4					
Rest Centre Options (Capacity)				Blyth Morpeth Road School NE24 5TQ (150) Blyth Leisure Centre			
Command and Control Locations				Bronze Options: Blyth Leisure Centre Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.			
Evacuation Route				Road closures at B1329/B1328 Quay Road roundabout leading to the Quayside. Closure of Tate Street off the Bridge Street roundabout with the escape routes being the B1329 Ridley Avenue, Wensleydale Road to the A193 Links Road, or the A1061 Newsham Road in the north direction. Alternative via Regents Street, Hodgsons Road, Cowpen Road A193.			
NCC property in flood zone				7366- Richard Stannard House, 7428- Unit 9/10, Sextant House, 2717- CVS Building, 2724 Your Link, 2720- Young Peoples Centre, 2412- Princess Louise Centre, 7623- Blyth Library, 7332- Blyth Children's Centre. Croftway First School – NE242HP St Johns Park- NE24 1NS			

	<p> Blyth Links and Foreshore NE24 3PH Listed Forts – Blyth NE24 3PH Blyth Cemetery- NE24 3PJ Former Seafront Street Office Site – NE24 1AY Eric Tolhurst Centre, Blyth NE24 2AS Buffalo Community Centre – NE24 2AS Market Place Toilets – NE24 2AS Keel Row Toilets – NE24 1AH Fort House Toilets – NE24 3PH Essoldo, Union Street – NE24 2DX High Street Car Park – NE24 1DR Keel Row Car Park – NE24 1AH Fulmer Drive Car Park- NE24 3RJ Station Street Car Park – NE24 3RJ Blyth Market- NE24 1AH CVS Building - NE24 1 AH Young Peoples Centre - NE24 1AH Community Enterprise Centre - NE24 3AG Your Link Keel Row- NE24 1AH Nye Bevan House - NE24 3ED Bob Elliott House - NE24 3ED Beaumont Street - NE24 1HP 26 Beaumont Street- NE24 1PD 24/26 Millfield Gdns - NE24 1PD Chestnut / Willow/ Millfield Housing - Cowpen NE24 1PG Croften Street/ Croft Road- NE24 2HH Gladstone St (land) NE24 2HH Bowes Street - NE24 1HU Willow Avenue (land) NE24 1PG Union Street (land) NE24 2EB Delaval Tce- NE24 1ET Spencer Road Boat Yard - NE24 4BG Club and Institute - NE24 1ET Regent Street- NE24 1ET French Street- NE24 1ES 56 Park Road- NE24 3DJ Regent Street - NE24 1LT Quayside Court- NE24 3AR Blyth Quayside Staithes - NE24 2AS Bridge Street Open Spaces - NE24 2AU East Rotary Way (land) NE24 3ES 11 Richmond Court - NE24 1AH 14 Richmond Court - NE24 1AH 7 Richmond Court - NE24 1AH 8 Richmond Court - NE24 1AH River Blyth Port Heath Authority- NE24 3AY Rocket House NE24 3AX 17 Barnard Street- NE24 2HG Blyth SSDO Company House - NE24 2BA Unit 9/10 Sextant House - NE24 2BA Blyth Registrar's Office- NE24 1BL 105 Community Enterprise Centre- NE24 3 AG Eddie Ferguson House - NE24 3AG Bowes Street Parking Blyth - NE24 1BD </p>
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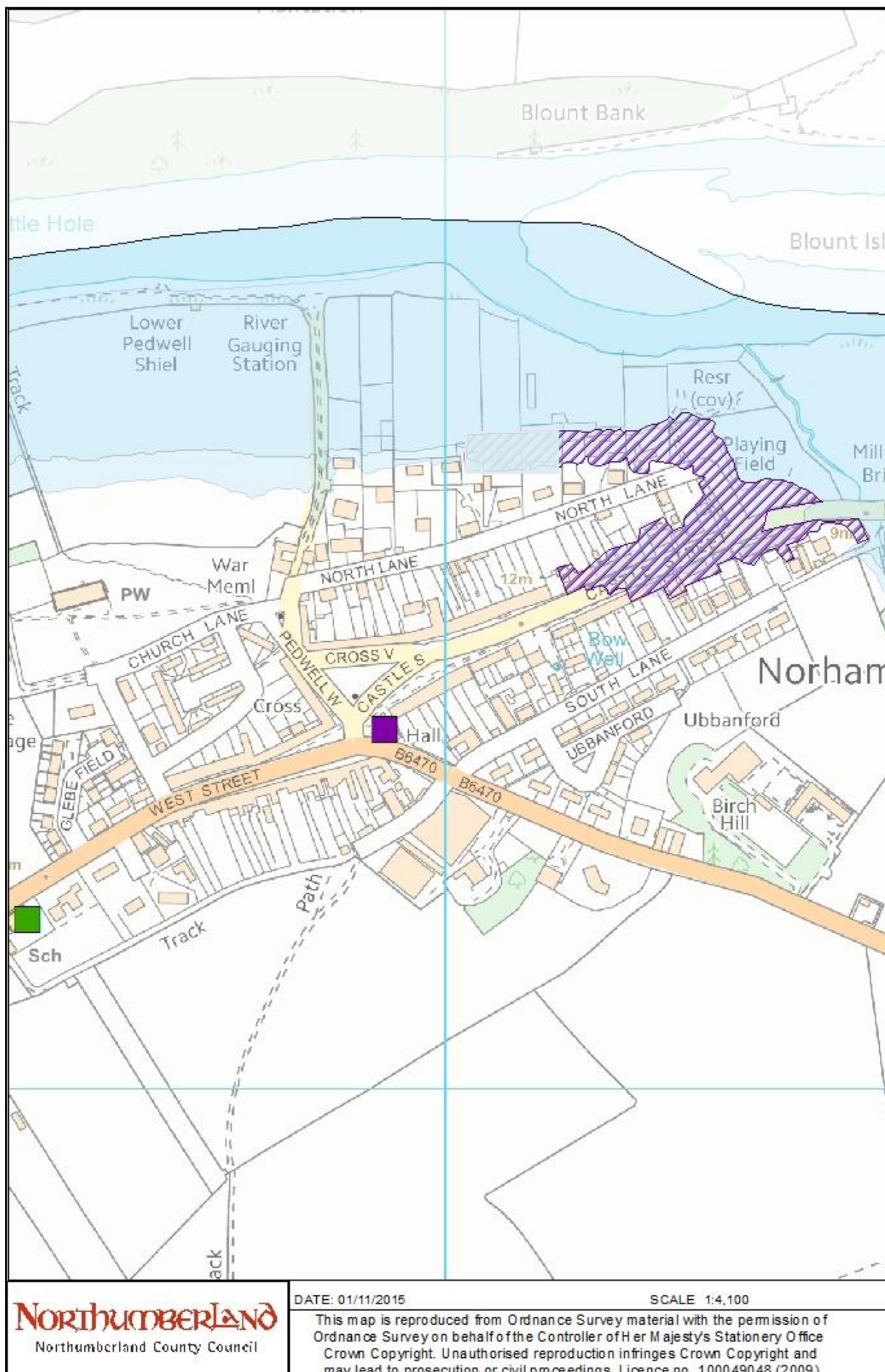


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Flood Warning Ref Code:	121FWF127	Location:	River Tweed at Norham Village
Description:			
Properties and low-lying areas around Castle Street			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
32	N/A	N/A	
	Frequency of Flooding	Lead Time	
	1:200 (0.5%)	2 hrs	
Flooding History (if known)			
August 1948 -Castle Street in Norham Village flooded to 300mm. April 1992- Flooding to access roads October 2002- flooding access roads January 2005- flooding to access roads			
Flood Defences / Alleviation Schemes (if any)			
There are no known E.A. Flood Defences operating in the area.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF901		
Flood Warning	121FWF127		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5)	3	Medium Risk
Impact - Health	(1-5)	2	
	(1-5)	2	
	(1-5)	2	
	(1-5)	2	
Mean Impact Score		(1-5)	2

Additional Information:

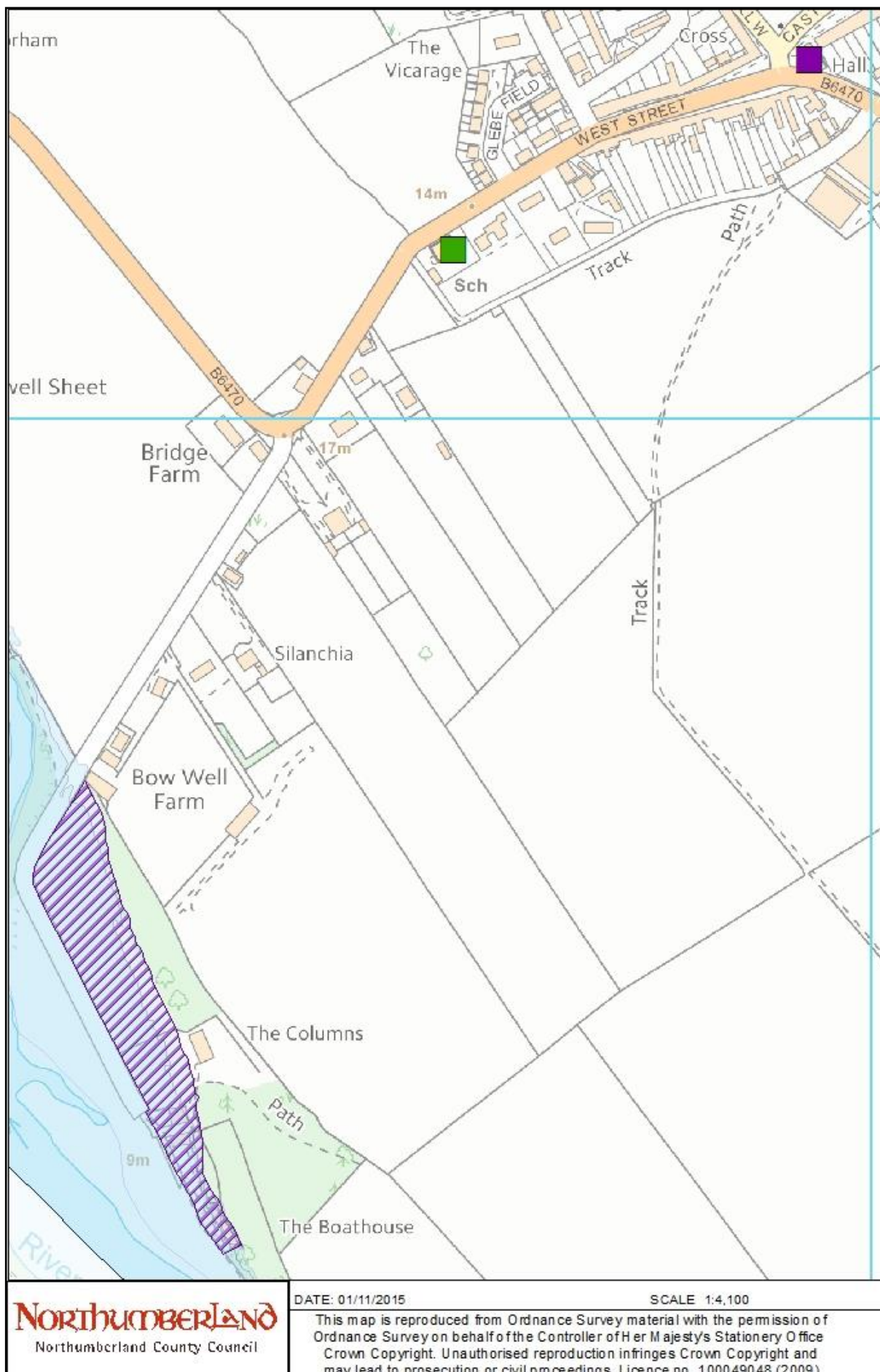
Rest Centre Options (Capacity)	Norham Village hall TD15 2LQ Norham St Ceolwulf's C of E Cont. First School. TD15 2JZ (50)
Command and Control Locations	Bronze Options: Norham Village hall or the Mason Arms Car Park. TD15 2LB Silver: Northumberland Fire and Rescue HQ, West Hartford. Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of Incident.



Flood Warning Ref Code:	121FWF126	Location:	River Tweed at Boat House, Norham
Description:			
Properties and low-lying land around the Boat House and the Boat House Cottage.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
2	N/A	N/A	
	Frequency of Flooding	Lead Time	
	1:20 (5%)	2 hrs	
Flooding History (if known)			
August 1948- Boat house flooded; waters almost reached roof level. April 1992- Flooding to access roads. October 2002- Flooding to access roads January 2005- Flooding to access roads			
Flood Defences / Alleviation Schemes (if any)			
There are no known E.A. Flood Defences in the area.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF901		
Flood Warning	121FWF126		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 4		
Impact	- Health (1-5) 1 - Social (1-5) 1 - Economic (1-5) 1 - Environmental (1-5) 1	Mean Impact Score (1-5) 1	Low Risk

Additional Information:

Rest Centre Options (Capacity)	Norham Village Hall TD15 2LQ Norham St Ceolwulf's C of E Cont. First School. TD15 2JZ (50)
Command and Control Locations	Bronze Options: Consider Village hall or Mason Arms Car Park. TD15 2LB Silver: Northumberland Fire and Rescue HQ, West Hartford. Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of Incident.

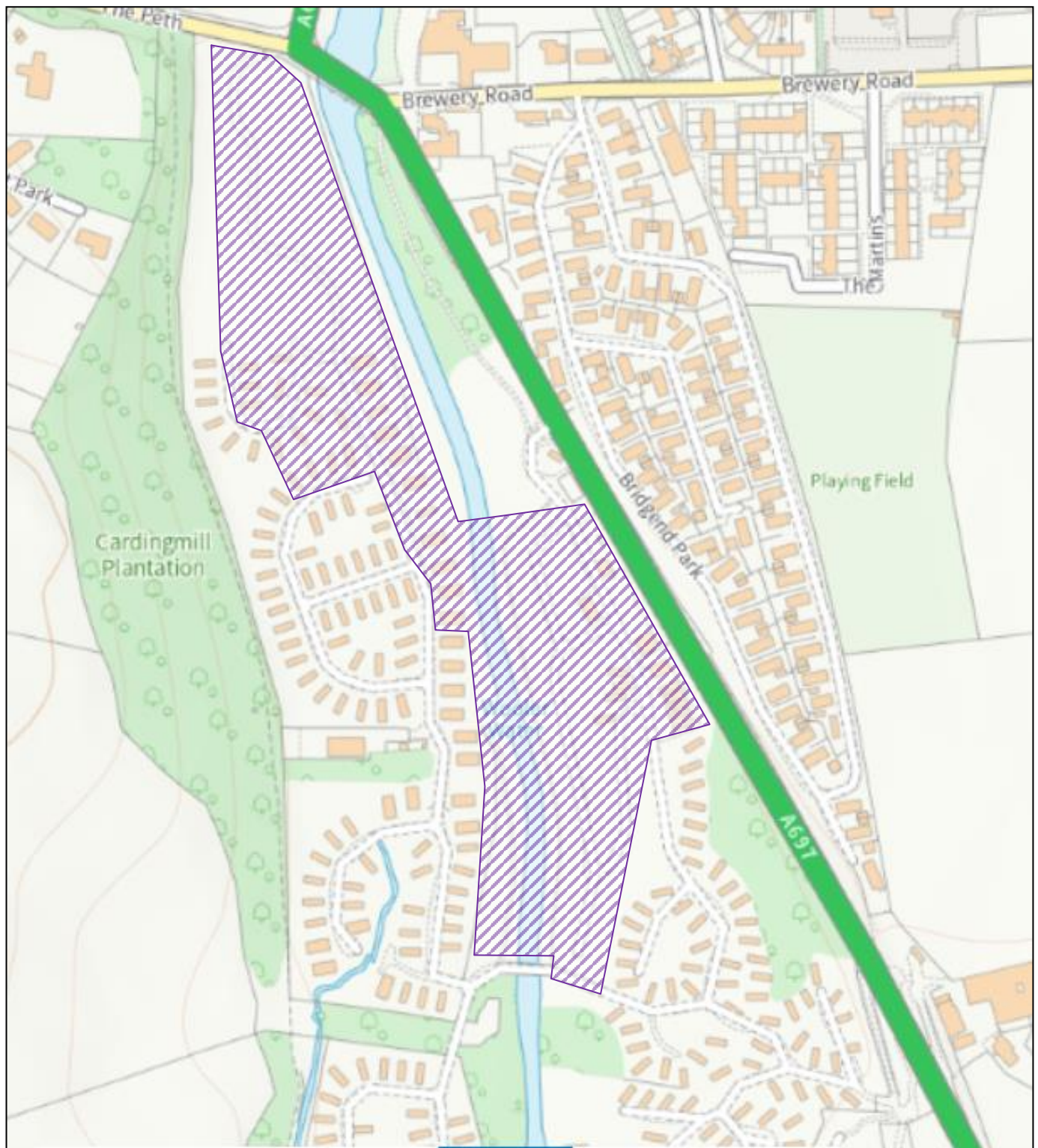


Flood Warning Ref Code:	121FWF121	Location:	Wooler Water at Riverside Leisure Park
Description:			
Properties and low-lying areas around Riverside Leisure Park.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
1 Note this is a caravan stie and several static caravans are within the flood area	Refer to Section 2.1.9	Static caravan park on both sides of the A697 inclusive of Tourer caravans and camping site	
	Frequency of Flooding	Lead Time	
	3.3%	2 hours	
Flooding History (if known)			
No known history of flooding			
Flood Defences / Alleviation Schemes (if any)			
There are no identified flood defences in this area. There may be other defences which are not owned by the E.A.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF900		
Flood Warning	121FWF121		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 3		Medium
Impact	(1-5) 2	Mean Impact	
- Health	(1-5) 3	Score	
- Social	(1-5) 2	(1-5) 3	
- Economic	(1-5) 3		
- Environmental			

This Warning area has been identified as a **Rapid Response Catchment** by the Environment Agency

Additional Information:

Rest Centre Options (Capacity)	Wooler Cheviot Centre NE71 6BL Glendale Middle School NE71 6QG (220) Wooler Youth Hostel NE71 6LW Wooler First School NE71 6EB (96)
Command and Control Locations	Bronze Options: Cheviot Centre or Youth Hostel Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by the Police at time of incident
Evacuation Route	Main exit on to A697 and follow into Wooler or South exit from leisure park past Kallini Puppets and on to unnamed road in to Wooler
NCC Properties in Flood Zones	n/a

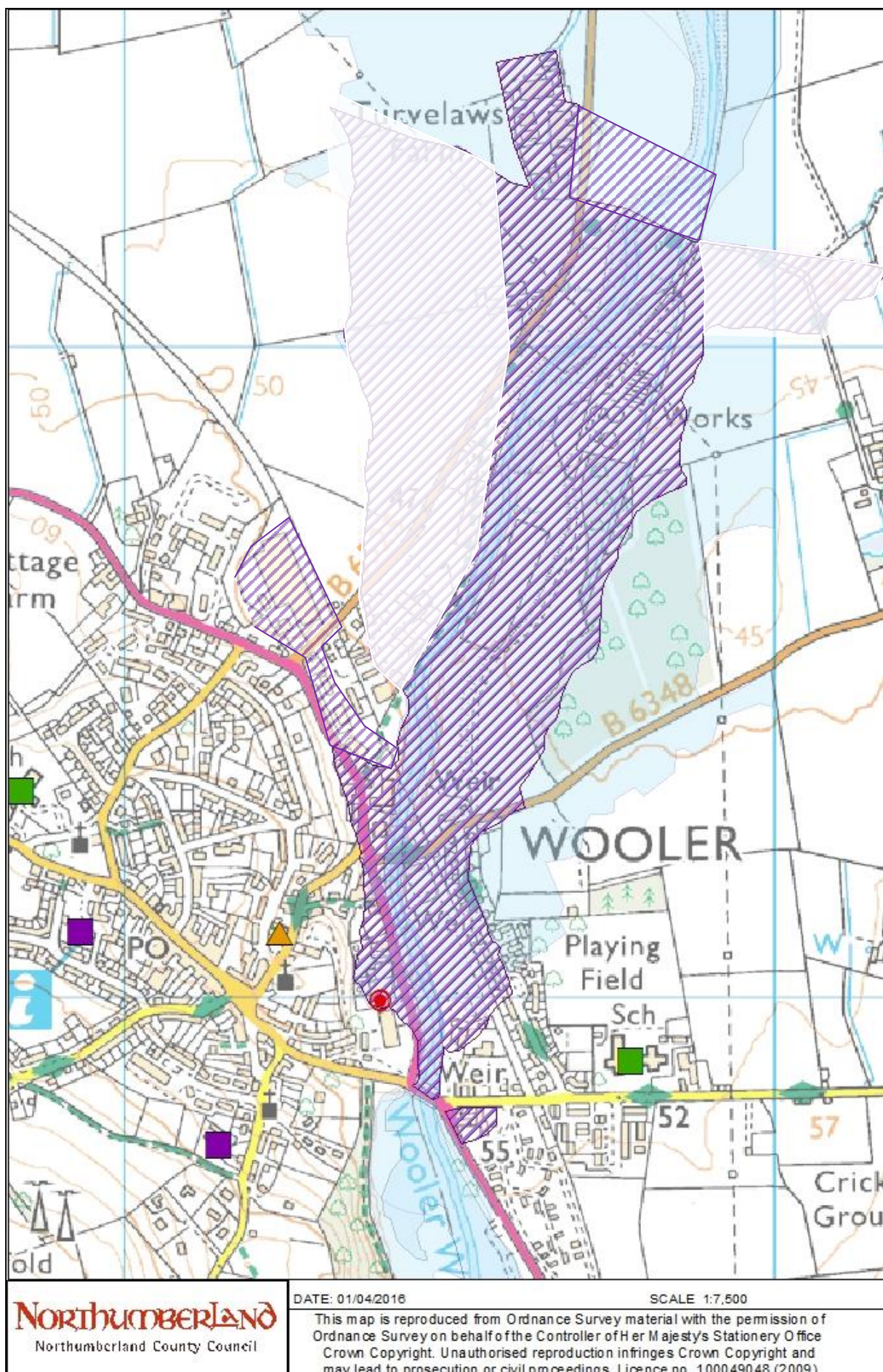


Flood Warning Ref Code:	121FWF120	Location:	Wooler Water at Wooler
Description:			
Properties and low-lying areas around South Road, Weetwood Avenue, Weetwood Road, Berwick Road, Turvelaws Farm and Farm Cottages.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
95	Refer to Section 2.1.9	Wooler Bridge A697 North and South	
		Fire and Ambulance Stations	
	Sewage works		
Bridge B6348 Weetwood Rd		Gas Governor Tower Bank	
Static caravan park on both sides of the A697 inclusive of Tourer caravans and camping site			
Frequency of Flooding		Lead Time	
1:50 (2%) Ambulance and Fire Station		2 hours	
1:100 (1%) remaining areas			
Flooding History (if known)			
<p>There is a long history of flooding with serious incidents occurring in 1948 and 1949. In 1948, the Weetwood Road Bridge was overtopped and as a result, collapsed. Station Road and the Bowling Green also flooded. 1949 Similar serious flooding occurred.</p> <p>October 2002 – area around the sewage works flooded however there was no damage.</p> <p>August 2004 - areas of the caravan park were flooded including 4 caravans.</p> <p>July 2009- 1 property flooded.</p> <p>The first properties to flood are the Ambulance and Fire Station on left bank, downstream of Wooler Bridge, in a 1 in 50-year return period. Flooding to full extent of Warning Area estimated in a 1 in 100-year return period.</p>			
Flood Defences / Alleviation Schemes (if any)			
<p>There are a series of E.A. flood defences in this area. There is a flood bank adjacent to Scott Park on the right bank of the river. Its current standard of protection has been assessed as 1 in 100 years (1%).</p> <p>Downstream of Wooler there are flood banks on the right and left banks of the river. The current standard of protection has been assessed as 1 in 100 year (1%AEP). These protect the sewage treatment works on the right bank and the properties at Berwick Road and Turvelaws Farm Cottages on the left bank.</p> <p>There may be other defences which are not owned by the E.A.</p>			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF900		
Flood Warning	121FWF120		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 4		High Risk
Impact	- Health	(1-5) 3	
	- Social	(1-5) 2	
	- Economic	(1-5) 3	
	- Environmental	(1-5) 3	
		Mean Impact Score (1-5) 2.75	

This Warning area has been identified as a Rapid Response Catchment by the Environment Agency

Additional Information:

Rest Centre Options (Capacity)	Wooler Cheviot Centre NE71 6BL Glendale Middle School NE71 6QG (220) Wooler Youth Hostel NE71 6LW Wooler First School NE71 6EB (96)
Command and Control Locations	Bronze Options: Cheviot Centre or Youth Hostel Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by the Police at time of incident
Evacuation Route	Use Berwick Road, Cottage Road and Church Street and head towards the High Street.
NCC Properties in Flood Zones	Wooler Fire Station

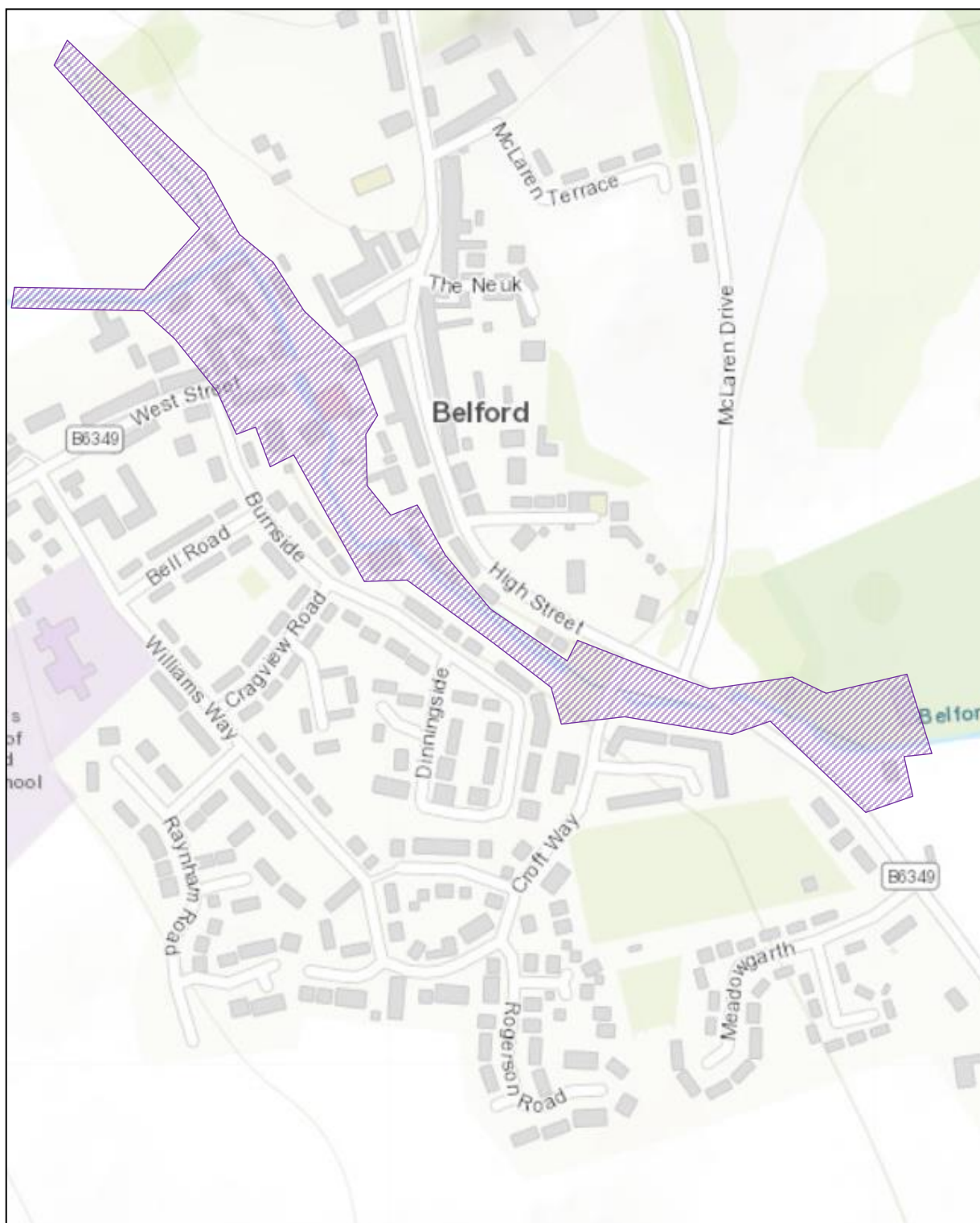


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Flood Warning Ref Code:	121FWF121	Location:	Belford Burn at Belford	
Description:				
Properties and low lying areas around Bluebell Farm, West Street bridge, central bridge and South Road				
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure		
29	Refer to Section 2.1.9			
	Frequency of Flooding	Lead Time		
	1:20	2 hours		
Flooding History (if known)				
No Flood History Recorded.				
Flood Defences / Alleviation Schemes (if any)				
There are no known Environment Agency flood defences in this area				
Flood Warning Status Area(s) at risk (refer to map)				
Flood Alert	121WAF918			
Flood Warning	121FWF121			
Severe Flood Warning	yes			
Risk Assessment				
Likelihood	(1-5)	4	Medium Risk	
Impact - Health	(1-5)	2		Mean Impact Score (1-5) 2
	(1-5)	2		
	(1-5)	3		
	(1-5)	2		

Additional Information:

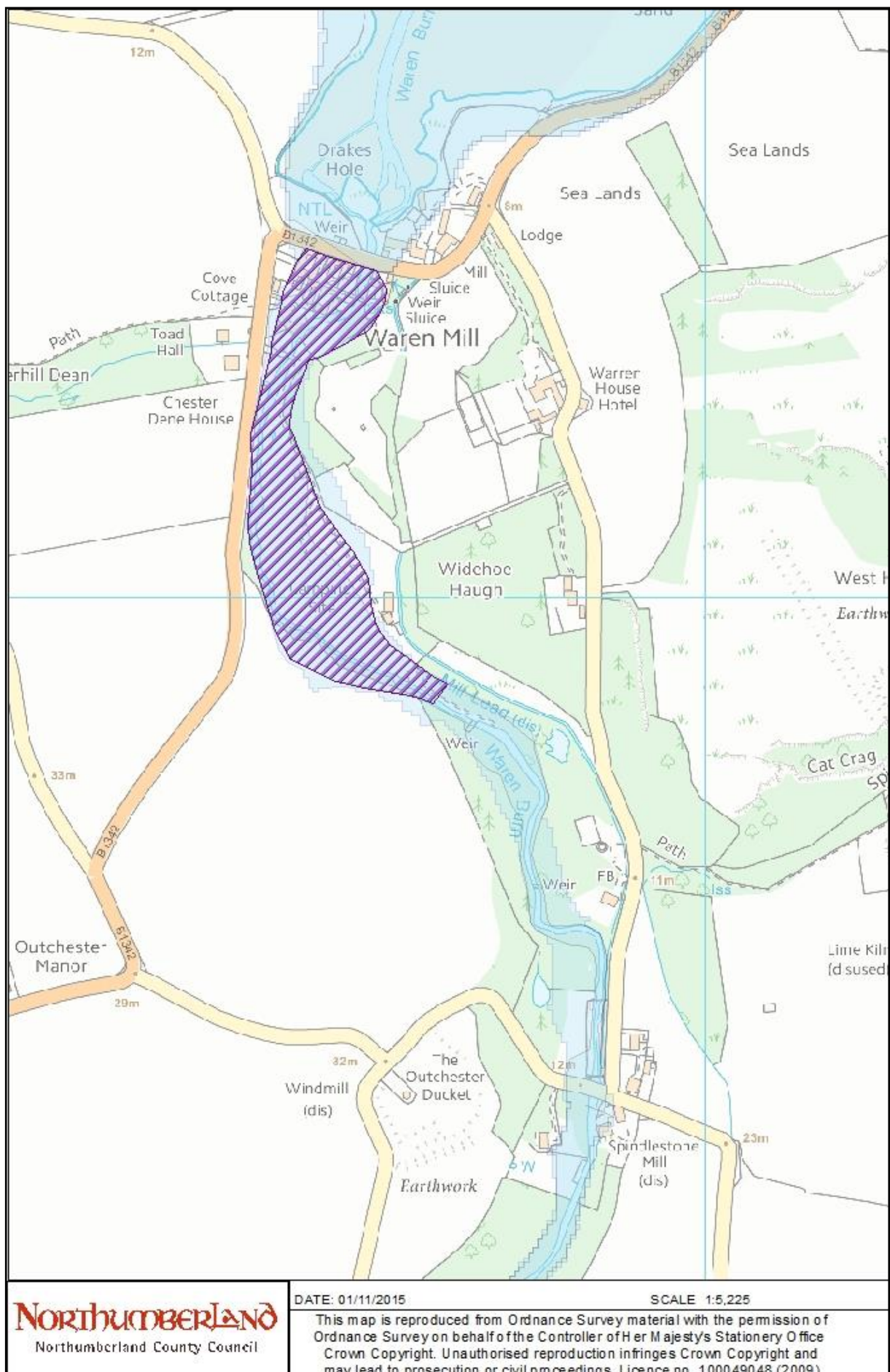
Rest Centre Options (Capacity)	Bellview Centre, Belford NE70 7QB St Mary`s C of E Middle School Belford NE70 7NX (90)
Command and Control Locations	Bronze Options: Belford Fire or Ambulance Stns Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.



Flood Warning Ref Code:	121FWF123	Location:	Waren Burn at Waren Mill
Description:			
Properties and low-lying areas around, Waterside Cottage, Budle Cottage, Hutch Farm House, Watersmeet, Waren Mill Cottages, Rose Cottage, Alness Cottage, Millfield Cottage, The Arches, Bay View and at Waren Mill Caravan Park and Spindlestone Mill.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
36	Refer to Section 2.1.9	B1342 as an escape route from the campsite.	
	Frequency of Flooding	Lead Time	
	1:3 (Access to caravan park) 1:20 (Millstone, Waterside and main campsite) 1:70 (Other Properties)	2 hours	
Flooding History (if known)			
1978 - The B1342 was flooded During the 1990's floods were in quick succession, flooding Mole End Cottages (1995) In 1998 the local Public House was flooded along with the surrounding fields In 2002 a total of 15 properties were flooded including areas of the Caravan Park and the Black Bull Public House. Fields and roads were also flooded. 2012 – Flooding of Caravan park			
Flood Defences / Alleviation Schemes (if any)			
There are no defence systems in this area the Environment Agency does carry out routine maintenance on the natural channels.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF918		
Flood Warning	121FWF123		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5)	4	Medium Risk
Impact	(1-5)	2	
- Health	(1-5)	2	
- Social	(1-5)	2	
- Economic	(1-5)	2	
- Environmental	(1-5)	2	

Additional Information:

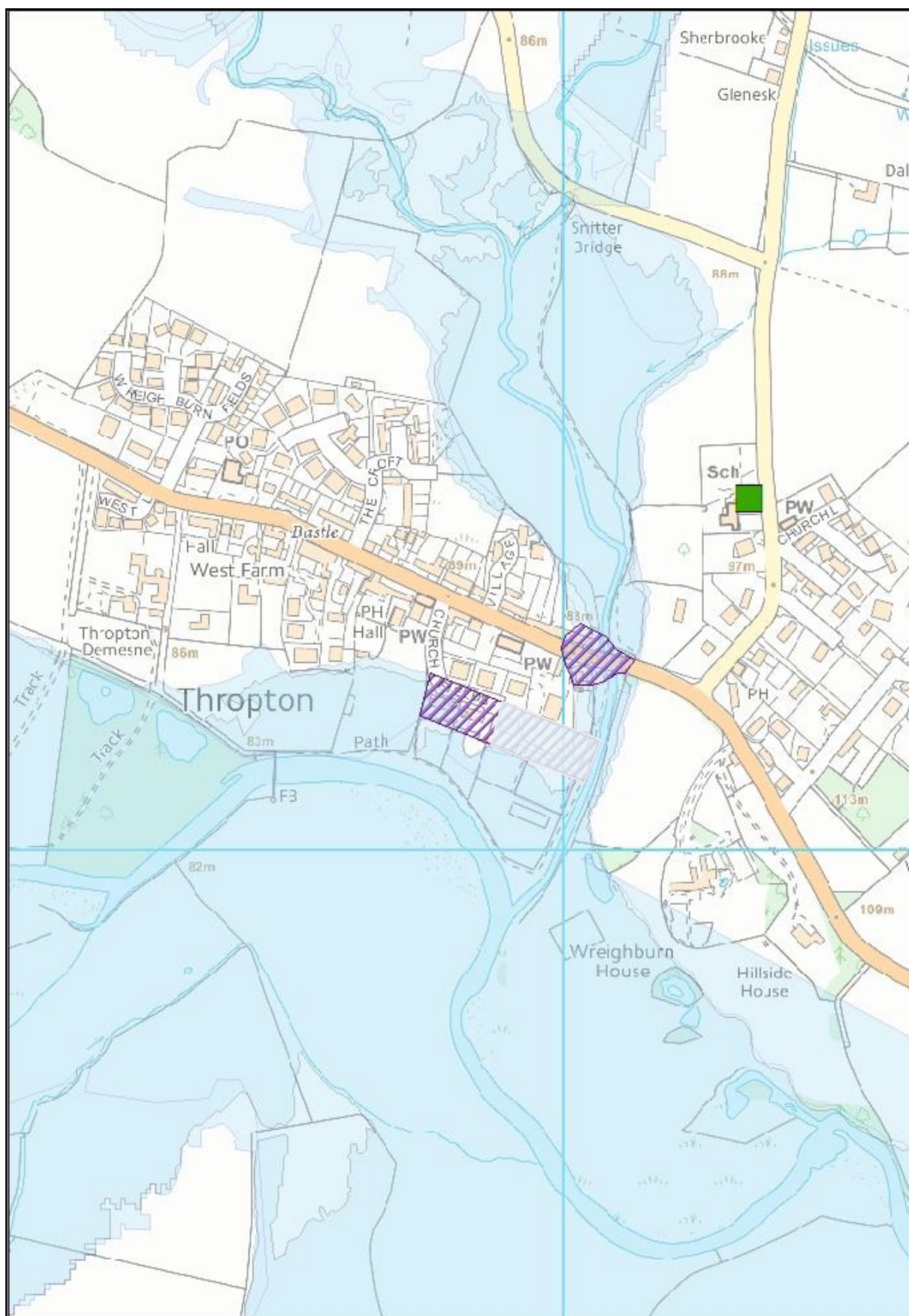
Rest Centre Options (Capacity)	Bellview Centre, Belford NE70 7QB St Mary's C of E Middle School Belford NE70 7NX (90)
Command and Control Locations	Bronze Options: Belford Fire or Ambulance Stns Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.



Flood Warning Ref Code:	121FWF112	Location:	River Coquet at Thropton
Description:			
Properties around Bridge End Cottages and Churchfields			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
5	Refer to Section 2.1.9	N/A	
	Frequency of Flooding	Lead Time	
	1:50 (2%)	2 Hours	
Flooding History (if known)			
There is a long history of flooding in this area, with a major event in 1978, 1986 and 1992 2008 - Flooding in Village Farm and Bridge End from Wreigh Burn			
Flood Defences / Alleviation Schemes (if any)			
There are no known flood defences in this area. However, the Environment Agency does perform routine maintenance operations on the channel passing through Thropton			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF903		
Flood Warning	121FWF112		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 4		Low Risk
Impact	- Health	(1-5) 1 Mean Impact	
	- Social	(1-5) 1 Score	
	- Economic	(1-5) 1 (1-5) 2.25	
	- Environmental	(1-5) 1	

Additional Information:

Rest Centre Options (Capacity)	Thropton First School NE66 7JD Jubilee Hall, Rothbury NE61 4PF Rothbury First School NE65 7PG (60) Dr Tomlinson Middle School (125)
Command and Control Locations	Bronze Options: Rothbury Fire Station Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.



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DATE: 01/11/2015

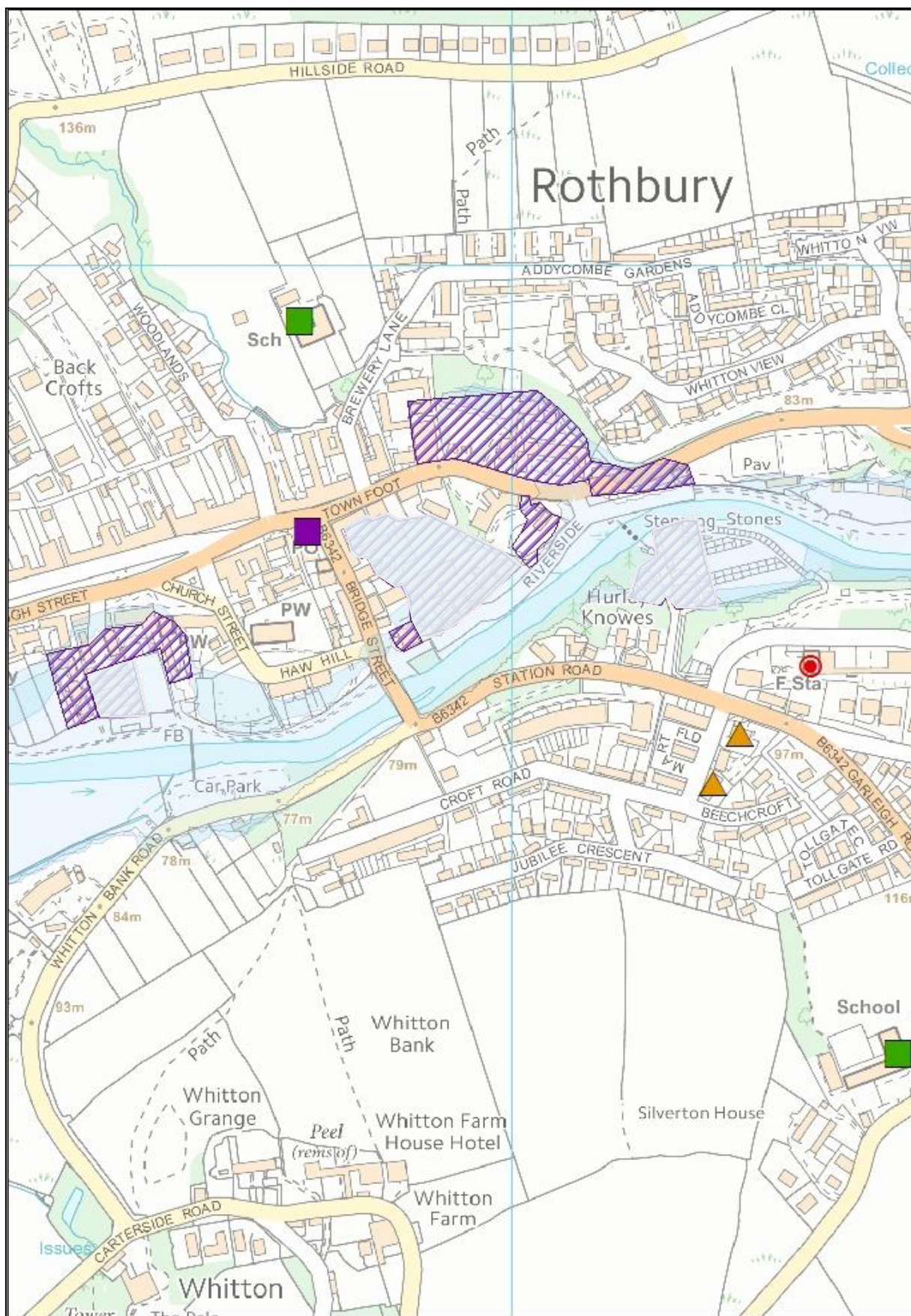
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Flood Warning Ref Code:	121FWF108	Location:	River Coquet at Rothbury
Description:			
Properties at Upper Maltings, Well Strand, Model Buildings, Riverside, Stepping Stones and Armstrong Cottages.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
59	Refer to Section 2.1.9 Green Square Care Home, Bridge Street Capacity - 5	Rothbury Cottage Hospital Rothbury Ambulance Depot Council Depot Electrical Sub Stn Rothbury Caravan Park which has a number static caravans situated beside the River Coquet.	
		Frequency of Flooding	Lead Time
		1:50 (2%)	2hrs
Flooding History (if known)			
2008- 68 residential and 4 commercial properties were flooded when the River Coquet overtopped its defences 2009- 4 properties flooded as the River Coquet exceeded channel capacity 2012- 1 property on Bridge Street flooded			
Flood Defences / Alleviation Schemes (if any)			
The E.A. raised flood defence protects properties on Riverside. Private defence protects properties at The Maltings			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF903		
Flood Warning	121FWF108		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5)	4	High Risk
Impact - Health - Social - Economic - Environmental	(1-5)	3 Mean Impact	
	(1-5)	3 Score	
	(1-5)	3 (1-5) 3	
	(1-5)	3	
Rest Centre Options (Capacity)		Jubilee Hall, Bridge Street Rothbury NE61 4PF Dr Thomlinson Middle School Rothbury NE65 7RY (125) Rothbury First School NE65 7PG	
Command and Control Locations		Bronze Options: Rothbury Fire Station Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.	
Evacuation Routes		B6344 Rothbury to Weldon Bridge closed at Armstrong Park. Access to Rothbury Bridge closed at the entrance to Bridge Street. Traffic from the B6342 to be redirected via Scots Gap or Silverton Lane and Carterside. Through Traffic to use the B6341 Rothbury to Alnwick Road joining the A697.	

	<p>The road in the area of Armstrong Cottages has been known to flood this may lead to the closure of the B6341 in this case traffic should be re-routed back along the B6341 to the A697 – options are via Whittingham and Thropton or via B6342 in the South from Cambo.</p>
NCC property in the flood zone	<p>Rothbury Highways Depot NE61 6ST Bridge Street Housing (land) NE65 7SE Radsley St Bridge - NE65 7SE Turner Street Car Park- NE65 0DH Island View Car Park - NE65 0AY Well Haugh Car Park - NE65 0SE</p>

Please note that a Community Flood Plan was in place for Rothbury. This has not been updated for several years.



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DATE: 01/04/2016

SCALE 1:4,700

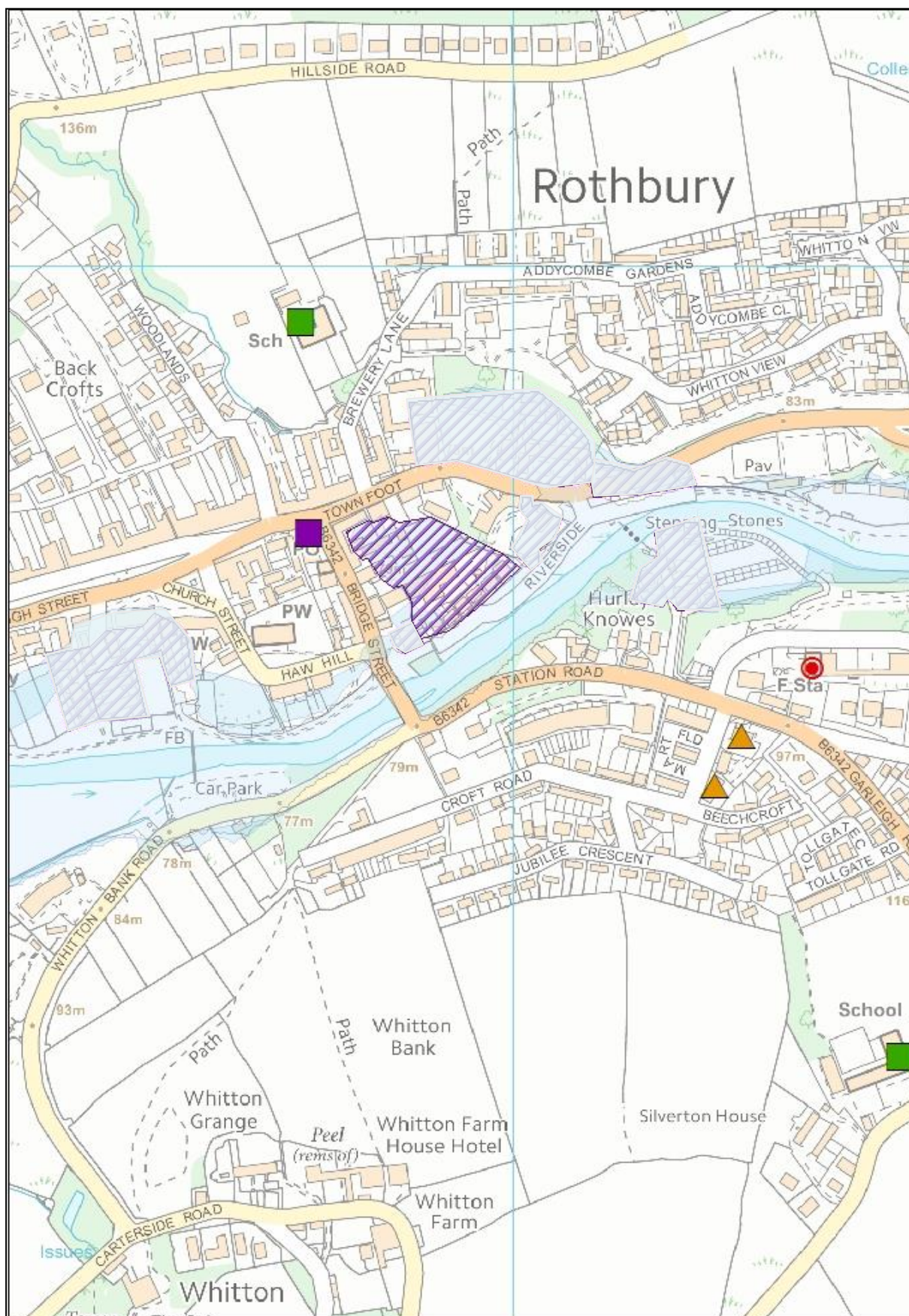
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Flood Warning Ref Code:	121FWF109	Location:	River Coquet at Upper Rothbury
Description:			
Properties at Town Foot, and Riverside from Fir Tree House to Heughenden			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
15	Refer to Section 2.1.9 Green Square Care Home, Bridge Street Capacity - 5	Rothbury Cottage Hospital Rothbury Ambulance Depot Council Depot Electrical Sub Stn Rothbury Caravan Park which has a number static caravans situated beside the River Coquet.	
	Frequency of Flooding	Lead Time	
	1:50 (2%)	2hrs	
Flooding History (if known)			
1993- Railway Inn was flooded 1996- The Clubhouse was flooded to a depth of 15 cm 2000 and 2001- Riverside Road and surrounding fields were flooded 2003 - Riverside Road and surrounding fields were flooded; Pine Tree House was also damaged. 2004 - Golf course was flooded, although water surrounded clubhouse it did not flood 2008 - 68 residential and 4 commercial properties were flooded when the River Coquet overtopped its defences 2009 - 4 properties flooded as the River Coquet exceeded channel capacity 2012 – 1 property on Bridge Street flooded			
Flood Defences / Alleviation Schemes (if any)			
There is an E.A. flood embankment on the left bank of the river adjacent to Riverside that provides properties with a 1 in 100-year standard of protection. There is a pumping station, part of an automatic system in operation for pumping water from behind the flood bank at Riverside. This is required when levels in the River Coquet prevent discharge from the Coplish Burn which is culverted beneath the flood bank.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF903		
Flood Warning	121FWF109		
Severe Flood Warning	N/A		
Risk Assessment			
Likelihood	(1-5) 4		High Risk
Impact	- Health (1-5) 3 - Social (1-5) 3 - Economic (1-5) 3 - Environmental (1-5) 3	Mean Impact Score (1-5) 3	
Rest Centre Options (Capacity)			
Jubilee Hall, Bridge Street Rothbury NE61 4PF Dr Thomlinson Middle School Rothbury NE65 7RY (125) Rothbury First School NE65 7PG			
Command and Control Locations			
Bronze Options: Rothbury Fire Station Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.			

Evacuation Routes	<p>B6344 Rothbury to Weldon Bridge closed at Armstrong Park. Access to Rothbury Bridge closed at the entrance to Bridge Street. Traffic from the B6342 to be redirected via Scots Gap or Silverton Lane and Carterside. Through Traffic to use the B6341 Rothbury to Alnwick Road joining the A697.</p> <p>The road in the area of Armstrong Cottages has been known to flood this may lead to the closure of the B6341 in this case traffic should be re-routed back along the B6341 to the A697 – options are via Whittingham and Thropton or via B6342 in the South from Cambo.</p>
NCC property in the flood zone	<p>9218- Rothbury Highways Depot Riverside Toilets - NE65 7NZ Bridge Street Toilets- NE65 7SE Rothbury Highways Depot NE61 6ST Bridge Street Housing (land) NE65 7SE Radsley St bridge - NE65 7SE</p>

Please note that a Community Flood Plan was in place for Rothbury but has not been updated for several years.



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DATE: 01/04/2016

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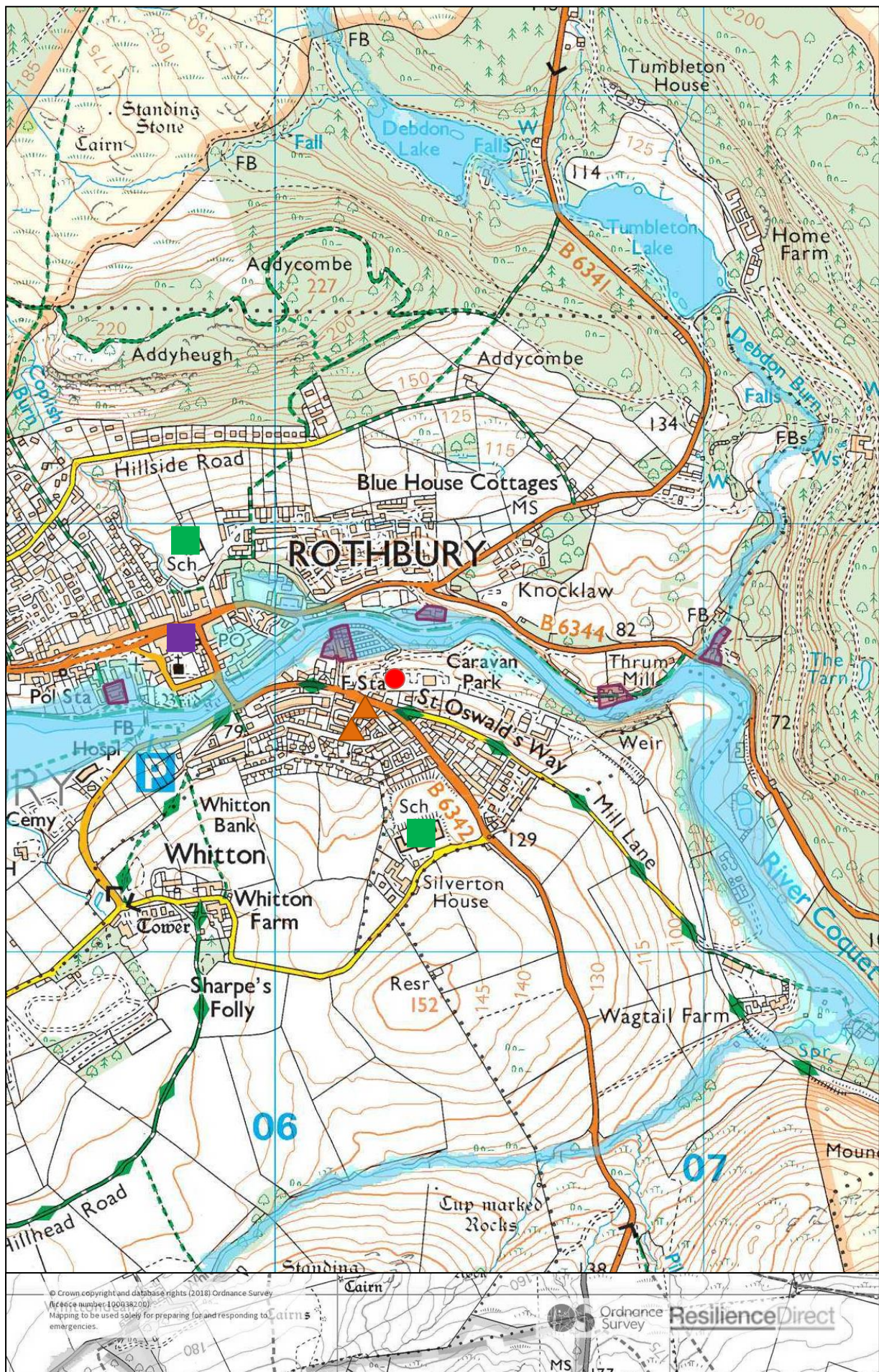
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Flood Warning Ref Code:	121FWF107	Location:	River Coquet at Lower Rothbury
Description:			
Properties at Lower Maltings and Rothbury Mart, Gas Works, Thrum Mill and Burnfoot Lodge			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
18	Refer to Section 2.1.9	N/A	
	Frequency of Flooding	Lead Time	
	1:50 (2%)	2 Hours	
Flooding History (if known)			
1993 – Railway Inn was flooded 1996 – The Clubhouse was flooded to a depth of 15 cm 2000 and 2001 – Riverside Road and surrounding fields were flooded 2003 – Riverside Road and surrounding fields were flooded; Pine Tree House was also damaged. 2004 – Golf course was flooded, although water surrounded clubhouse it did not flood 2008 – 6 residential and 4 commercial properties were flooded when the River Coquet overtopped its defences 2009 – 4 properties flooded as the River Coquet exceeded channel capacity 2012 – 1 property on Bridge Street flooded			
Flood Defences / Alleviation Schemes (if any)			
E.A. raised flood defence protects properties on Riverside. Private defence protects properties at Maltings			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF903		
Flood Warning	121FWF107		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 4		Low Risk
Impact	Health	(1-5) 1	
	Social	(1-5) 1	
	Economic	(1-5) 1	
	Environmental	(1-5) 1	
Mean Impact Score		(1-5) 2.25	

Additional Information:

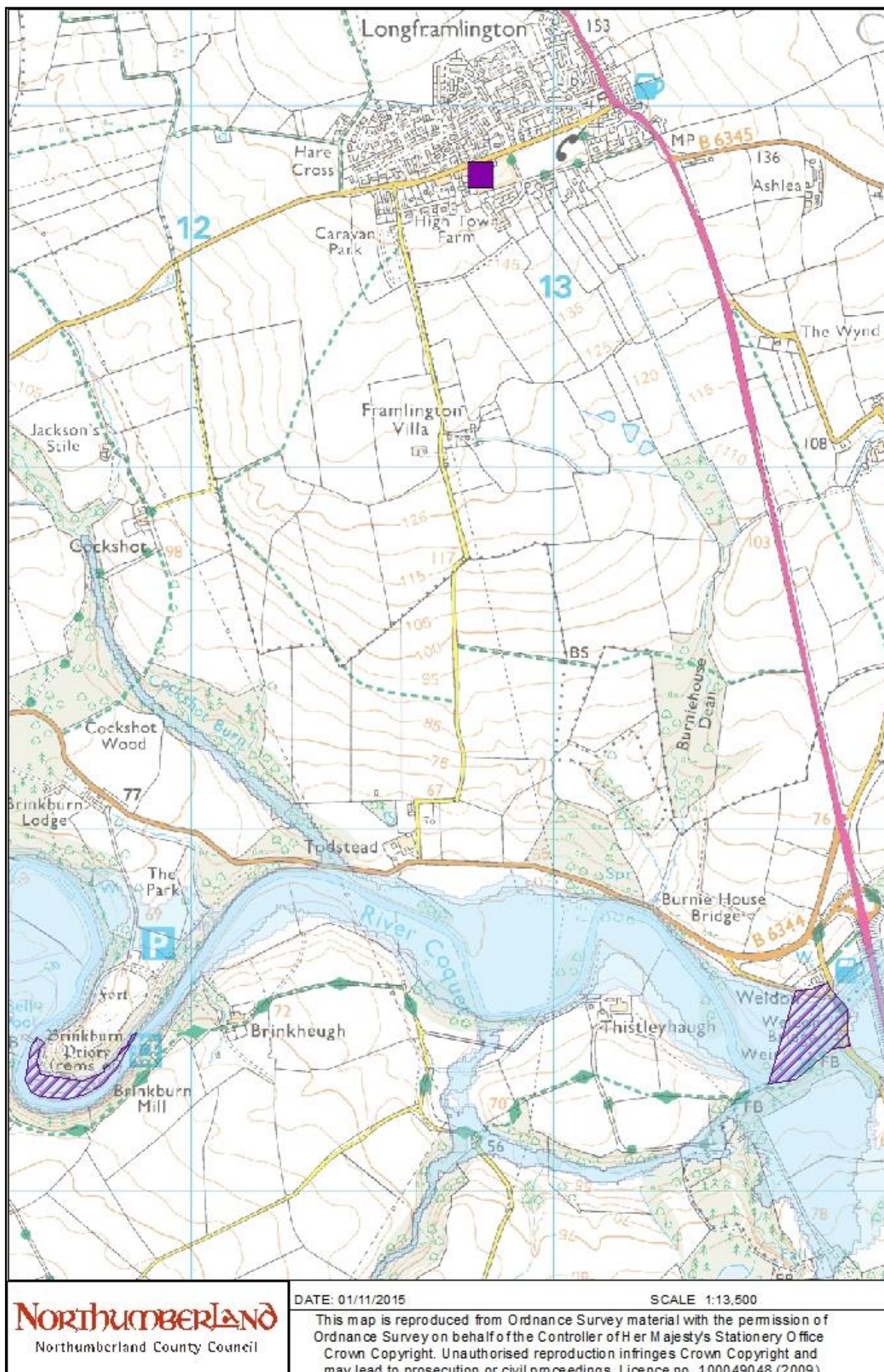
Rest Centre Options (Capacity)	Jubilee Hall, Rothbury NE61 4PF Rothbury First School NE65 7PG (60) Dr Tomlinson Middle School (125)
Command and Control Locations	Bronze Options: Rothbury Fire Station Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.



Flood Warning Ref Code:	121FWF110	Location:	River Coquet at Brinkburn and Weldon
Description:			
Brinkburn Priory, Weldon Bridge and Weldon Mill			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
5	Refer to Section 2.1.9	B6344 Liable to flooding between Rothbury and Weldon Bridge	
	Frequency of Flooding	Lead Time	
	1:50 (2%)	2hrs	
Flooding History (if known)			
1992 - affected C and A roads, Brinkburn Mill, Weldon Mill and Felton Mill - 36 properties were flooded.			
Flood Defences / Alleviation Schemes (if any)			
This stretch of natural channel is maintained by the Environment Agency, however there are no permanent defence systems			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF904		
Flood Warning	121FWF110		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 4		Medium Risk
Impact	(1-5) 2	Mean Impact	
- Health	(1-5) 2	Score	
- Social	(1-5) 1	(1-5) 1.5	
- Economic	(1-5) 1		
- Environmental			

Additional Information:

Rest Centre Options (Capacity)	Longframlington Memorial Hall NE65 8AN Longhorsley Village Hall NE65 8UR Longhorsley C of E First School NE65 8UT
Command and Control Locations	Bronze Options: Village / Memorial Halls or Rothbury Fire Station Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.



Flood Warning Ref Code:	121FWF128	Location:	River Coquet at Felton Riverside
Description:			
Properties at Felton Mill and Station Cottages			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
5	Refer to Section 2.1.9 No Care Homes or Supported Housing Identified	Narrow bridge to houses at the mill	
	Frequency of Flooding	Lead Time	
	1:10 (10%)	4 hrs.	
Flooding History (if known)			
April 1992 - 3 properties were flooded Nov 2000 - 2 properties were flooded Sept 2008 - 3 properties were flooded July 2009 - 3 properties were flooded Nov 2009 -1 property flooded March 2010 -1 property flooded 2012 – 1 property on Bridge Street flooded			
Flood Defences / Alleviation Schemes (if any)			
No E.A. Flood defences in this area			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF904		
Flood Warning	121FWF128		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 4		High Risk
Impact - Health	(1-5) 3	Mean Impact Score (1-5)	
- Social	(1-5) 3		
- Economic	(1-5) 3		
- Environmental	(1-5) 3		

Additional Information:

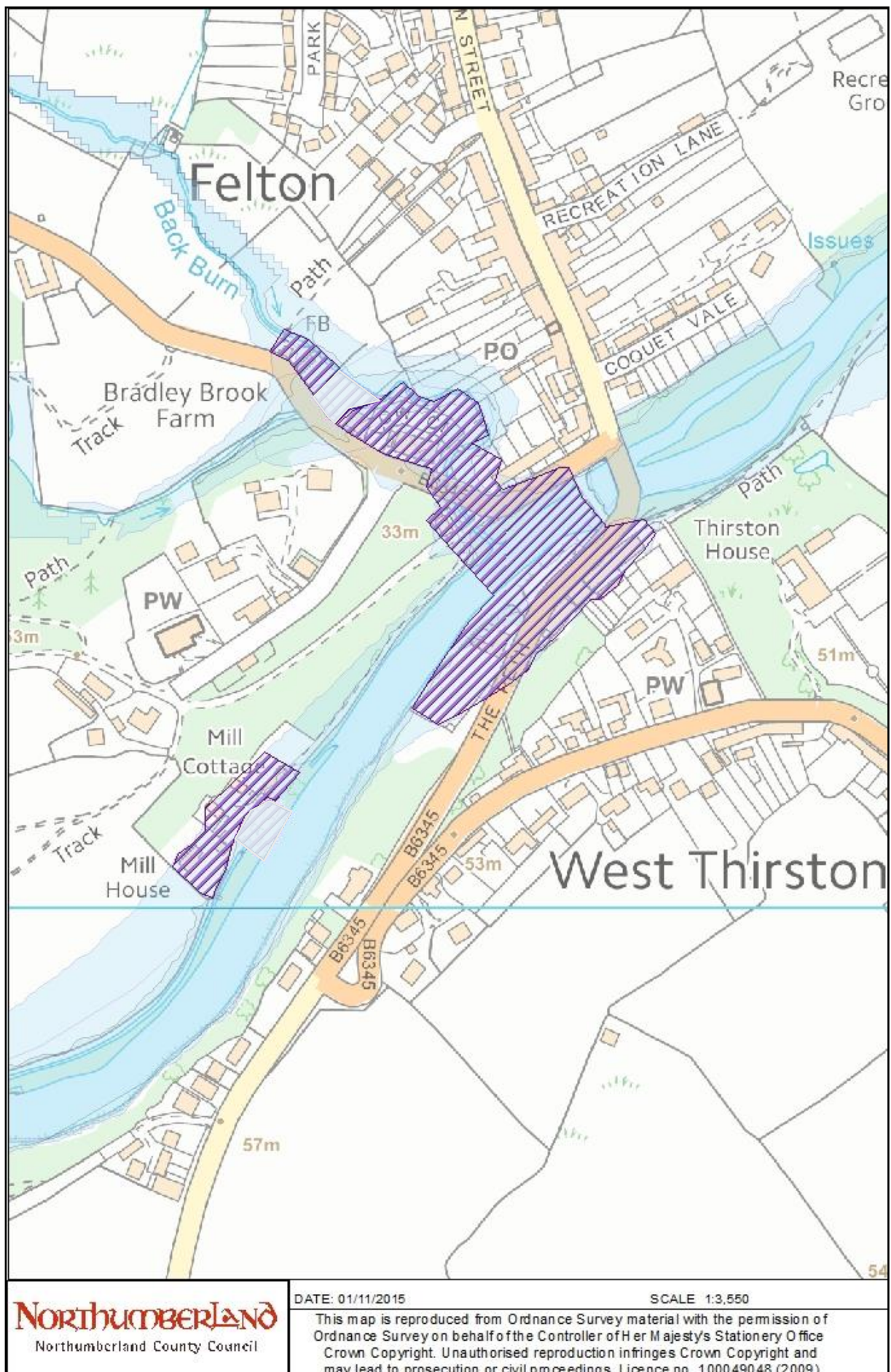
Rest Centre Options (Capacity)	Felton C of E First School NE65 9PY (40) Felton Village Hall NE65 9NH (110)
Command and Control Locations	Bronze Options: TBD depending upon situation Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.
Evacuation Routes	Felton Main Street to Rest Centres



Flood Warning Ref Code:	121FWF129	Location:	River Coquet at Felton
Description:			
Properties at Bridge End, Low Close, Mill Cottage and Bradley Brook Farm			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
21			
	Frequency of Flooding	Lead Time	
	1:200 (0.5%)	4 hrs	
Flooding History (if known)			
April 1992- 4 properties flooded Sept 2008- 2 properties flooded			
Flood Defences / Alleviation Schemes (if any)			
No E.A. Flood defences in this area			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF904		
Flood Warning	121FWF129		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 3	High Risk	
Impact - Health	(1-5) 3 Mean Impact		
- Social	(1-5) 3 Score		
- Economic	(1-5) 3 (1-5)		
- Environmental	(1-5) 3		

Additional Information:

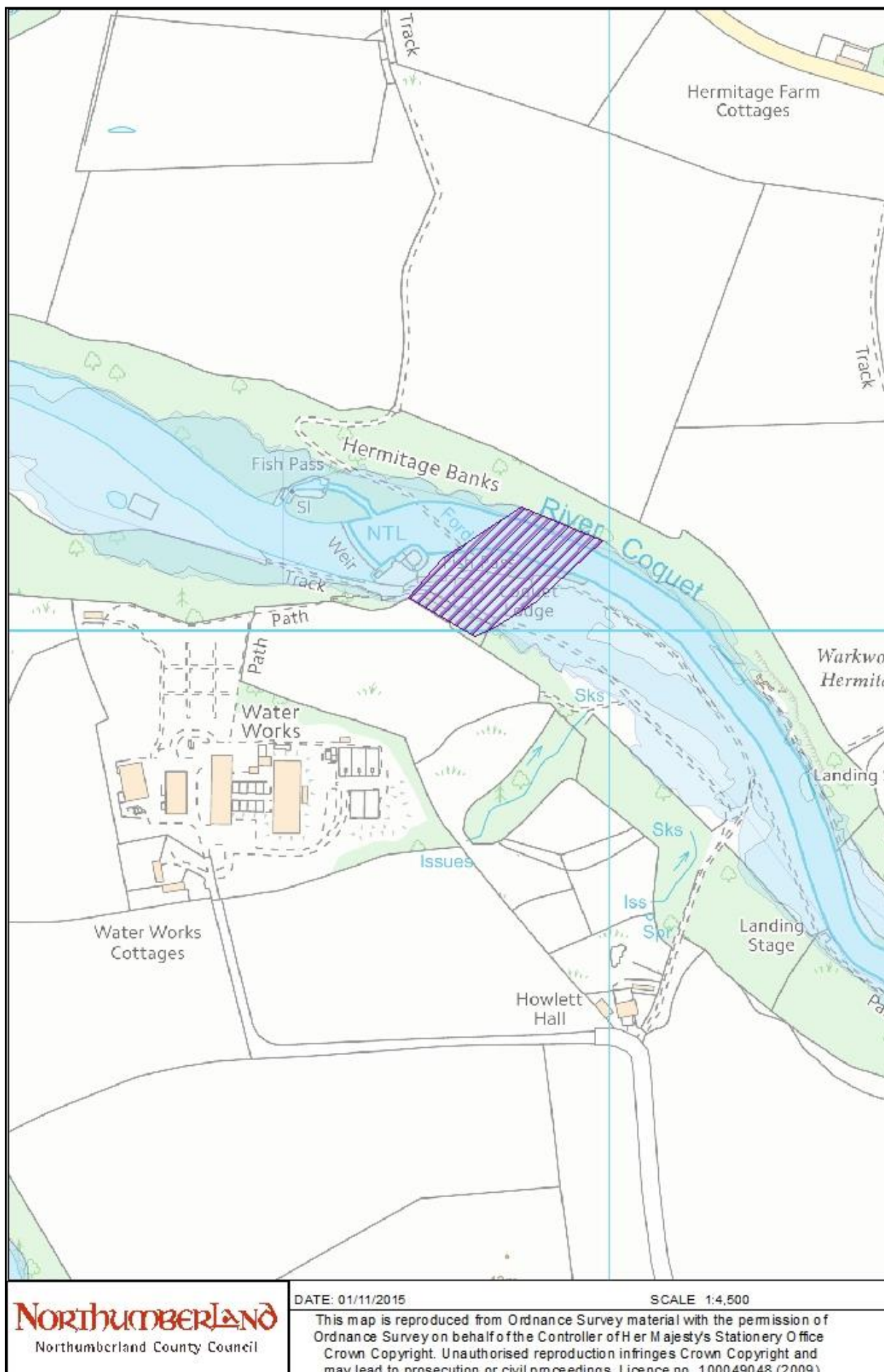
Rest Centre Options (Capacity)	Felton C of E First School NE65 9PY (40) Felton Village Hall NE65 9NH (110)
Command and Control Locations	Bronze Options: TBD depending upon situation Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.
Evacuation Routes	Felton Main Street to the Rest Centres



Flood Warning Ref Code:	121FWF098	Location:	River Coquet at Coquet Lodge, Warkworth
Description:			
Properties at Coquet Lodge			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
3	Refer to Section 2.1.9 No Care Homes or Supported Housing Identified	N/A	
	Frequency of Flooding	Lead Time	
	1:100 (1%)	2 hrs	
Flooding History (if known)			
No history recorded			
Flood Defences / Alleviation Schemes (if any)			
No E.A. Flood defences in this location			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF904		
Flood Warning	121FWF098		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 1		LOW
Impact <ul style="list-style-type: none">- Health- Social- Economic- Environmental	(1-5) 1	Mean Impact	
	(1-5) 1	Score	
	(1-5) 1	(1-5) 1	
	(1-5) 1		

Additional Information:

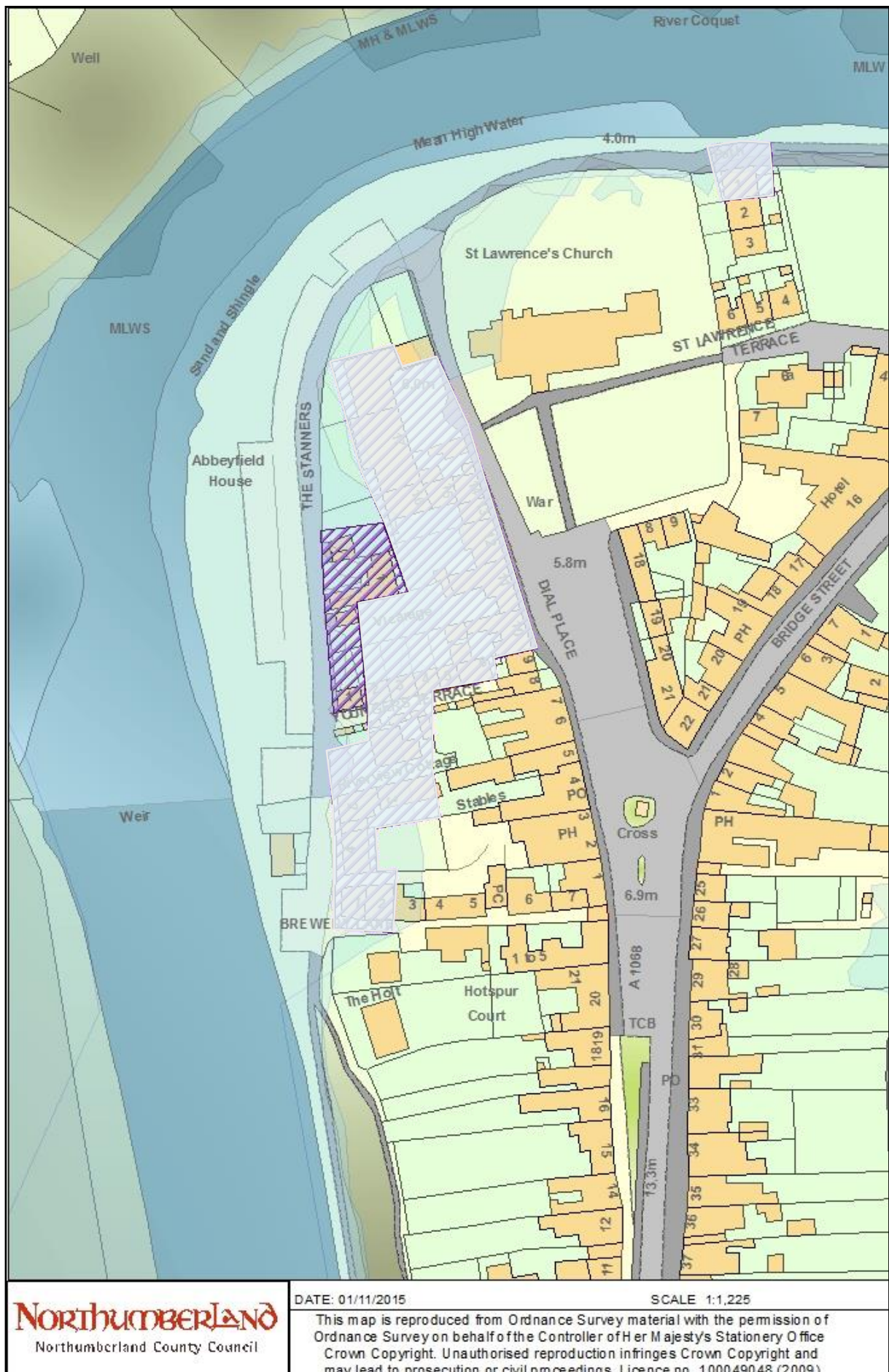
Rest Centre Options (Capacity)	Warkworth C of E First School NE65 OTJ (100) Warkworth Memorial Hall, Castle St., Warkworth
Command and Control Locations	Bronze Options: Warkworth C of E First School Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.
Evacuation Routes	Road closures at The Butts to Wellfield. Traffic is to be diverted on to the A1068



Flood Warning Ref Code:	121FWB111	Location:	River Coquet at Low Stanners, Warkworth
Description:			
Properties at Lower Stanners (no.1) and Younger Terrace (No.1)			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
2	Refer to Section 2.1.9 No Care Homes or Supported Housing Identified	N/A	
	Frequency of Flooding	Lead Time	
	1:20 fluvial (5%) to 1:200 tidal (0.5%)	2 hrs	
Flooding History (if known)			
1995 - 1 property was flooded at the Stanners, and at Warkworth Lodge. 2006 - Riverside walkway was flooded to wading height. 2008 - 34 residential properties and 37 caravans were flooded as the River Coquet came out of its bank. This warning area is fluvial and tidal. Small areas of land adjacent to the Warkworth – Amble Road are subject to tidal flooding and drainage discharges to the river via drains and flap valves. A number of small roads in this area are also at risk of flooding during severe events. 2013 significant tide levels and surge – properties were sandbagged although 3 properties still flooded This warning area is fluvial and tidal.			
Flood Defences / Alleviation Schemes (if any)			
No E.A. defences in this area, however a flood alleviation scheme completed 2014/15. Property level protection (PLP) was installed for No.1 The Stanners			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF904		
Flood Warning	121FWB111		
Severe Flood Warning	N/A		
Risk Assessment			
Likelihood	(1-5) 1		LOW
Impact <ul style="list-style-type: none">- Health- Social- Economic- Environmental	(1-5) 1	Mean Impact	
	(1-5) 1	Score	
	(1-5) 1	(1-5) 1	
	(1-5) 1		

Additional Information:

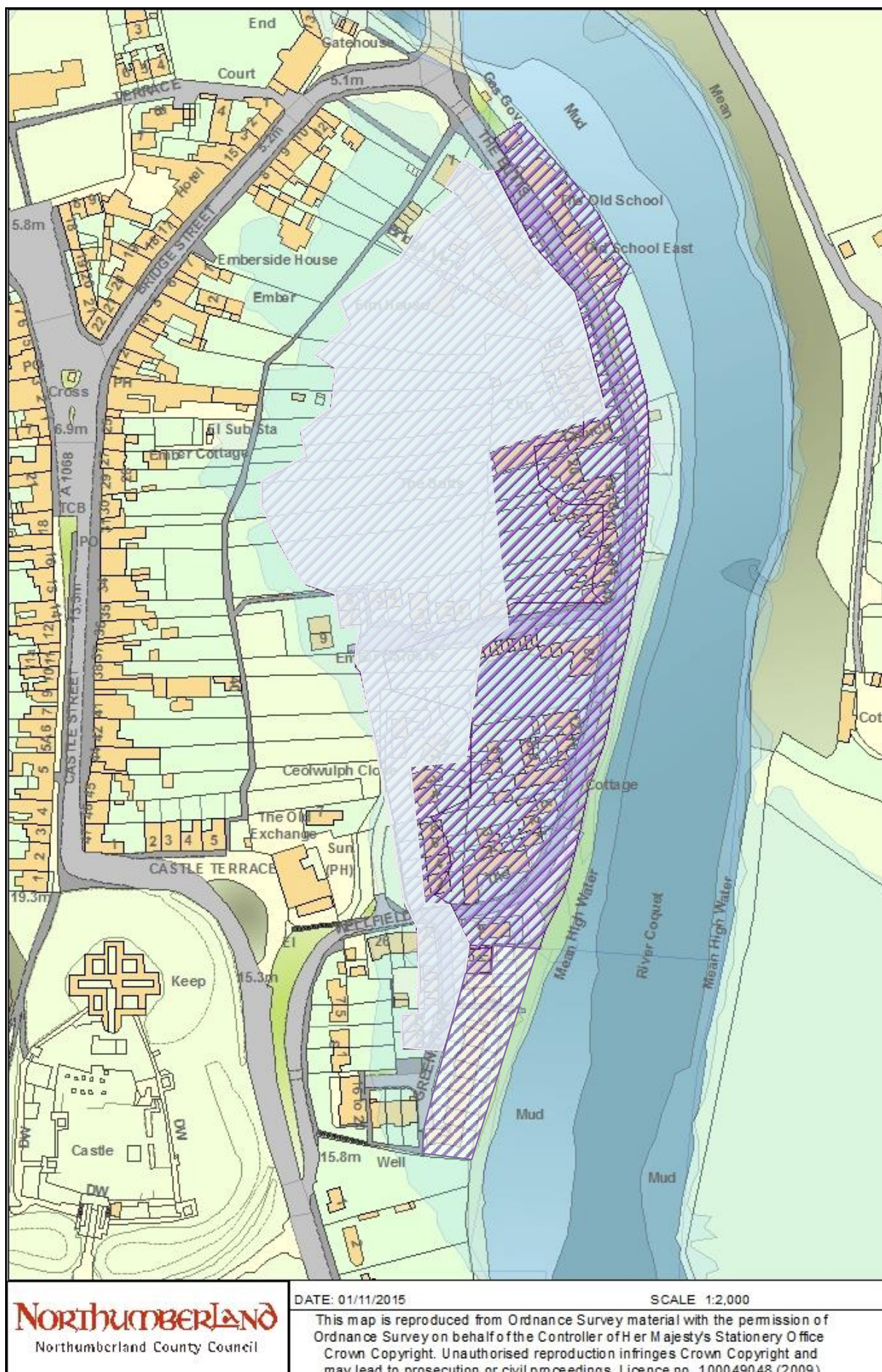
Rest Centre Options (Capacity)	Warkworth C of E First School NE65 OTJ (100) Warkworth Memorial Hall, Castle St., Warkworth
Command and Control Locations	Bronze Options: Warkworth C of E First School Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.
Evacuation Routes	Road closures at The Butts to Wellfield. Traffic is to be diverted on to the A1068



Flood Warning Ref Code:	121FWB099	Location:	River Coquet at The Butts Warkworth
Description:			
Properties at the Butts and Greens Park			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
43	Refer to Section 2.1.9 No Care Homes or Supported Housing Identified	N/A	
	Frequency of Flooding	Lead Time	
	1:200 fluvial (0.5%) 1:1000 tidal (0.1%)	2 hrs	
Flooding History (if known)			
No history recorded. This warning area is fluvial and tidal.			
Flood Defences / Alleviation Schemes (if any)			
As a result of flooding in the village 2008 and 2013 raised flood defences consisting of ground raising and a flood wall along The Butts with two flood gates to allow access to the riverbank for recreational use were completed 2014/15. Designed to meet 200-year+ climate change tidal water levels and in excess of 100-year fluvial water levels			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAB099		
Flood Warning	121FWB111		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 2		MEDIUM
Impact <ul style="list-style-type: none">- Health- Social- Economic- Environmental	(1-5) 3	Mean Impact	
	(1-5) 2	Score	
	(1-5) 1	(1-5) 2	
	(1-5) 2		

Additional Information:

Rest Centre Options (Capacity)	Warkworth C of E First School NE65 OTJ (100) Warkworth Memorial Hall, Castle St., Warkworth
Command and Control Locations	Bronze Options: Warkworth C of E First School Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.
Evacuation Routes	Road closures at The Butts to Wellfield. Traffic is to be diverted on to the A1068



Flood Warning Ref Code:	121FWF100	Location:	River Coquet at Warkworth
Description:			
Properties around Dial Terrace, Brewery lane, The Stanners, The Old School House, Bridge View, Elm Grove, The Butts, Ember Gardens, Ceolwulph Close, Wellfield, Youngers Terrace and Greens Park			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
54	Refer to Section 2.1.9 No Care Homes or Supported Housing Identified	N/A	
	Frequency of Flooding	Lead Time	
	1:1000 (0.1%)	2 hrs	
Flooding History (if known)			
No recorded Flood History			
Flood Defences / Alleviation Schemes (if any)			
. As a result of flooding in the village 2008 and 2013 raised flood defences consisting of ground raising and a flood wall along The Butts with two flood gates to allow access to the riverbank for recreational use. Designed to meet 200-year+ climate change tidal water levels and in excess of 100-year fluvial water levels			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF904		
Flood Warning	121FWF100		
Severe Flood Warning	N/A		
Risk Assessment			
Likelihood	(1-5) 4		HIGH
Impact - Health - Social - Economic - Environmental	(1-5) 3	Mean Impact	
	(1-5) 3	Score	
	(1-5) 2	(1-5) 2.25	
	(1-5) 2		

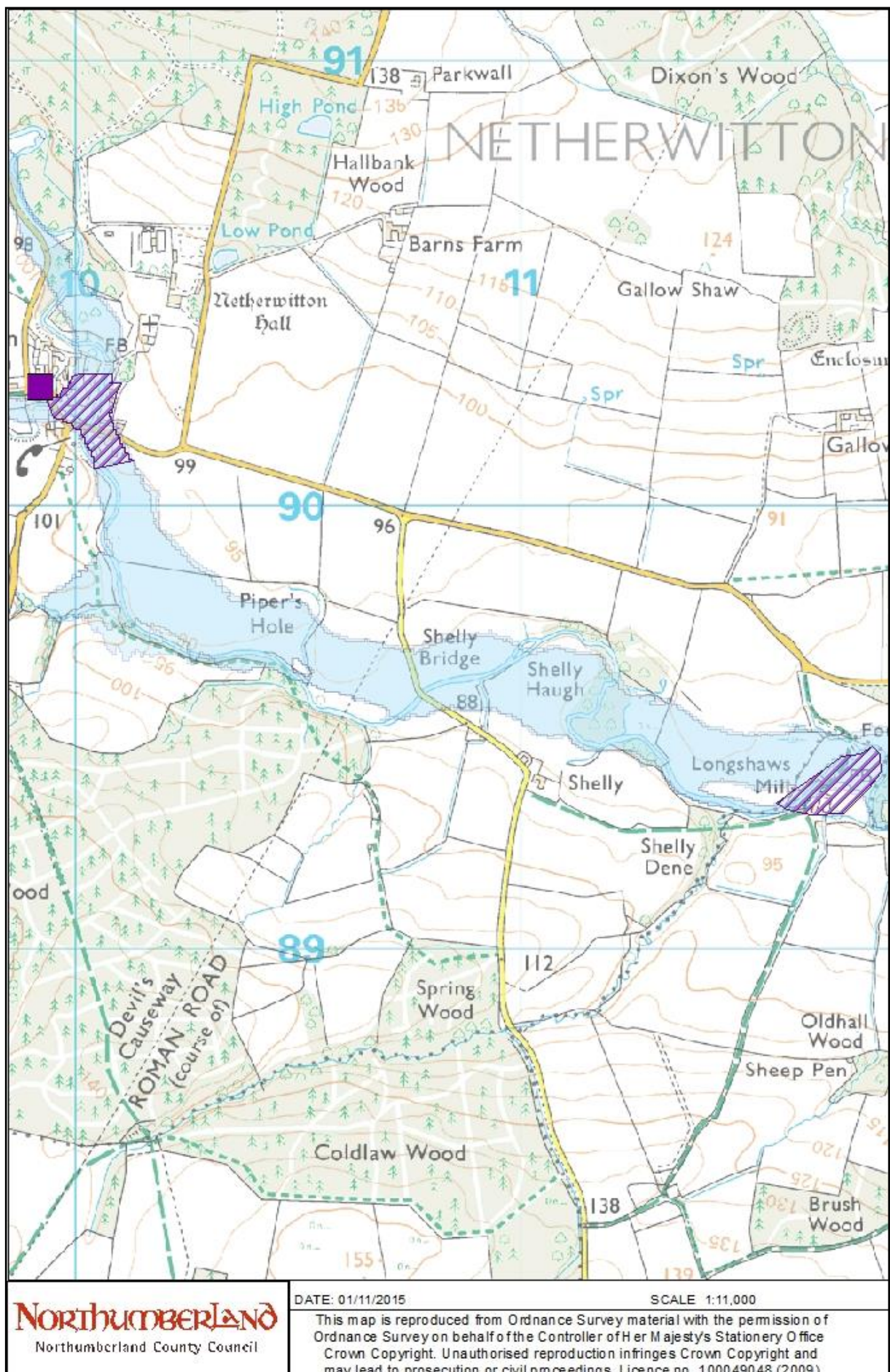
Additional Information:

Rest Centre Options (Capacity)	Warkworth C of E First School NE65 OTJ (100) Warkworth Memorial Hall, Castle St., Warkworth
Command and Control Locations	Bronze Options: Warkworth C of E First School Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident .
Evacuation Routes	Road closures at The Butts to Wellfield. Traffic is to be diverted on to the A1068

Flood Warning Ref Code:	<u>121FWF119</u>	Location:	River Font at Netherwitton and Longshaws Mill.
Description:			
Properties and Low-lying areas around Cromwell Close, Netherwitton and Longshaws Mill.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
14	Refer to Section 2.1.9	Road Bridge at Netherwitton	
	Frequency of Flooding	Lead Time	
	1:30 (3.3%)	2hrs	
Flooding History (if known)			
2012 – Flood waters blocked access via ford to Longshaws Mill but no property flooding			
Flood Defences / Alleviation Schemes (if any)			
There is an Environment Agency flood bank on the right bank of the river at Longshaws Mill. Its current standard of protection has been assessed as 1 in 100 year (1%).			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF905		
Flood Warning	121FWF119		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 4		Medium Risk
Impact - Health - Social - Economic - Environmental	(1-5) 2	Mean Impact	
	(1-5) 1	Score	
	(1-5) 1	(1-5) 1.25	
	(1-5) 1		

Additional Information:

Rest Centre Options	Netherwitton Village Hall NE61 4PA Longhorsley Village Hall NE65 8UQ (90)
Command and Control Locations	Bronze Options: Netherwitton Village Hall Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.



Flood Warning Ref Code:	121FWF115	Location:	River Wansbeck at East Mill & Morpeth Riverside Leisure Centre
Description:			
Properties and low-lying areas at East Mill, Wansbeck Street, and the Riverside Leisure Centre.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
15	Refer to Section 2.1.9 NO Care Homes/ Supported Housing Identified	Oldgate Bridge Telephone Exchange Electrical Sub Stn next to Telephone Exchange Electrical Sub Stn in Hollon St St Roberts R.C. School Morpeth First School	
	Frequency of Flooding	Lead Time	
	1:25 (4%)	2 hrs.	
Flooding History (if known)			
1963 - 482 properties were flooded 1967- no properties were flooded 2008 - an estimated 1000 properties were flooded within Morpeth. 2012 - an estimated 45 properties were flooded. 2016 – Flooding to properties at Abbey Mills and East Mill from Mill Race.			
Flood Defences / Alleviation Schemes (if any)			
E.A. Flood wall protects a number of properties at East Mill. 2015 Major Flood alleviation scheme constructed and implemented.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF905		
Flood Warning	121FWF115		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 3		High Risk
Impact	(1-5) 3	Mean Impact	
- Health	(1-5) 3	Score	
- Social	(1-5) 3	(1-5) 3	
- Economic	(1-5) 3		
- Environmental	(1-5) 3		

Additional Information:

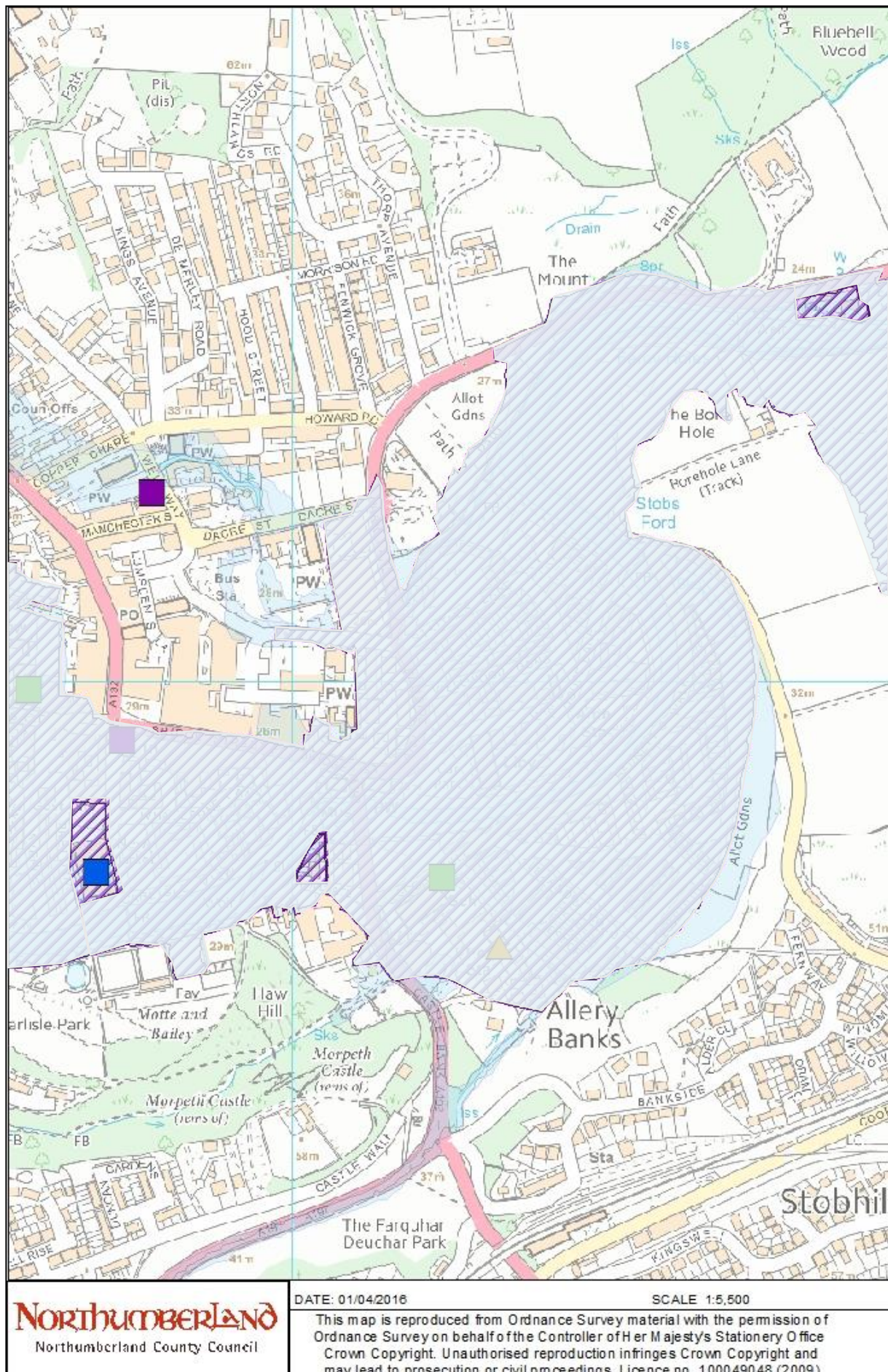
Rest Centre Options (Capacity)	King Edward VI High School NE61 1DN (340) Town hall, Morpeth NE61 2LZ St James Community Centre NE61 1BN Riverside Leisure Centre NE61 1PR Story park Community centre NE61 2QE Abbeyfields First School NE62 6LZ (200) County Hall NE61 2ED (300) Collingwood School Stobhill NE61 2HA
Reception Centre (Short-term holding point)	Town Hall / Riverside Leisure Centre

Command and Control Locations	Bronze Options: Morpeth Town Hall or St James Community Centre Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.
Evacuation Routes <div data-bbox="215 427 751 741" style="border: 1px solid black; padding: 5px;"> <p><u>Emergency access to High Stanners:</u></p> <p>A pedestrian escape route is available for residents of High Stanners taking them up to Curly Kews. A cupboard at the start of the path contains space blankets, wind up torches and glow sticks to delineate the route. E.A., NCC Morpeth Depot and Alan Bell (Northumberland Flood Action Group) hold keys</p> </div>	<p>If the A197 is closed at Whorral Bank traffic from the North should be diverted from the roundabout at the end of the Pegswood bypass via the B1337 or A197.</p> <p>If Whorral Bank is closed, then traffic from the South should be diverted via Dacre Street/ Manchester Street/ Newgate Street to the A1 North and South</p> <p>Northbound traffic on the A197 or A192 should be turned back at the Mafekin Park roundabout. The B6343 Mitford to Morpeth Road will be closed at the top of Dogger Bank and High House Road Junction. Traffic from the West will be diverted via High House Road, which joins the B6524 Whalton Road.</p> <p>Traffic from High Stanners would exit via Curly Kews Bank joining at High House Road/B6343 Whalton Road.</p> <p>A pedestrian escape route is available for residents of High Stanners taking them up to Curly Kews. A cupboard at the start of the path contains space blankets, wind up torches and glow sticks to delineate the route. E.A., NCC Morpeth Depot and Alan Bell (Northumberland Flood Action Group) hold keys.</p>
NCC properties within flood zones	<p>7223- Morpeth SSDO, 5965- St Mathews House, 5940- Morpeth Town Hall, 2185- Morpeth First School, 2189- Netherton Northside First School, 3888- St Roberts RC Vol Aided First School, 7631- Morpeth Library, 5936- TIC, Chantry Stanley Tce car park - NE611PG Greys Yard - NE611QF Castle Square Car Park - NE611YB Mathesons Garden Car Park - NE611QE New Market Car Park (west) - NE61 1PS New Market Car Park (east) - NE61 1LN Whalebone Car Park NE61 1NB Low Stanners Car Park- NE61 1TD Morpeth Clock Tower- NE61 1LY Riverside Leisure Centre - NE61 1PR Morpeth Chantry- NE61 1PJ Toll House - NE611PJ Morpeth Town Hall - NE611NB Back Riggs Public Toilets - NE611PB Terrace Car Park - NE61 1PQ Middle Greens / Allery Bank - NE61 1UJ Field Allotments- NE611UJ Pretoria Avenue (land) - NE61 1QE Staithes Lane - NE61 1TD Tenter Tce- NE61 1TN Morpeth Market Place- NE61 1DT Union Street- NE61 1PB The Kylins - NE61 2EQ Rotary Gardens- NE61 1HU Mathesons Gardens - NE61 1ET</p>

	Dark Lane Car Park - NE61 1ET St Georges Church- NE61 1ST Former Morpeth Library - NE61 1 TA Morpeth Registrar- NE66 1HW
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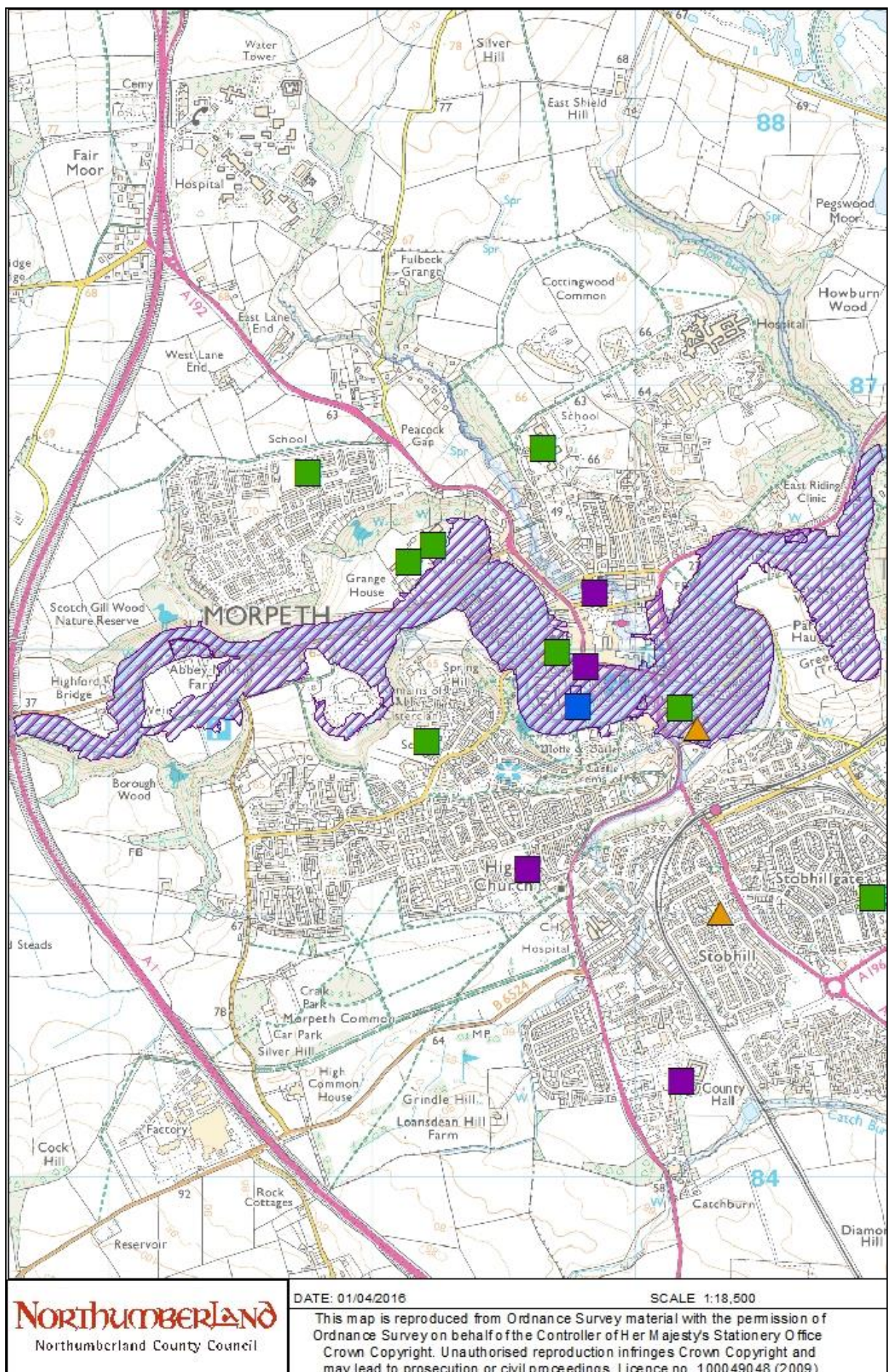
Please note: The map overleaf shows all 3 Flood Warning areas that affect Morpeth. Please refer to the data sheet for more detailed information relating to the areas that are actually affected.

Please note that there is a Community Agreement in place for Morpeth which has been developed by the Town Council. Refer to Civil Contingencies file P18



Flood Warning Ref Code:	121FWF101		
Location:	River Wansbeck at Morpeth		
Description:			
High Stanners: Mitford Road, Wansbeck Place, Ladies Walk, Price Street, St Marks Street, High Stanners, Challoners Gardens and Auburn Place.			
Low Stanners: Staiths Lane, Wellwood Gardens, Gas House Lane, The Willows and Damside			
Morpeth Town Centre: Carlisle View, Phoenix Court, Whalebone lane, Waterside, Oliver's Mill, Bridge Street. Wansbeck Street and the Chantry.			
Mains Terrace, Hudson Place, Collingwood Terrace, Oldgate, Oldgate Court, Mathersons Gardens, Pretoria Avenue, the new market			
Middle Greens: Goose Hill, Bennetts Walk, Alexander Road, Allery Banks, Norman Terrace, Queen Street and Crawford Terrace.			
Critical vulnerable infrastructure:			
High Stanners: Chantry Middle School, New Minster Middle School, Electrical Sub Station (behind schools) Lowford Bridge B6343			
Low Stanners: County Depot Ambulance Station, Electrical Sub Station, Sewage Pumping Station at Gas House Lane			
Morpeth Town Centre: Telford Bridge			
Middle Greens: Morpeth First School, Electrical Sub Station on the corner of Crown Street, Sewage Plant at the end of Green Lane			
No. Properties at risk		No. of vulnerable people at risk	
1174		Refer to Section 2.1.9	
		The Willows, Gas House Lane- Capacity 12	
		Riverside House, Gas House Lane- Capacity 46	
		Hunter Memorial Homes- Alms House Oldgate	
		Frequency of Flooding	Lead Time
		1:137(0.7%)	2 hrs.
Flooding History (if known)			
1963 - 482 properties were flooded			
2008- An estimated 1000 properties were flooded within Morpeth.			
2012 - 45 properties were flooded in Morpeth.			
2015 – Major Flood alleviation scheme constructed and implemented.			
2016 – Flooding to properties at Abbey Mills and East Mill from Mill Race.			
Flood Defences / Alleviation Schemes (if any)			
As of 2015 there are new flood alleviation defences in the Town which offer a standard of protection of 1:50. These are located at Mitford Road (in property Riverside Gardens), High Stanners (including 4 flood gates) Pretoria Avenue, Carlisle View, New Market car park, the Chantry, St Georges Church - Stobs Ford (left bank) and Goose Hill - Bennetts Walk (right bank). In addition, two pumps are available for deployment in Bennett's Walk. Two flood walls and a flood bank have also been constructed on the Cotting Burn adjacent to Staithes Lane and the County Council depot which also offer a standard of protection of 1:50.			
4 x Additional Pumps are available for deployment to High Stanners / Bennetts Walk through the Highways Escalation Officer			
As part of the River Wansbeck flood alleviation scheme an upstream flood storage area has been constructed which is upstream of Mitford, which has capacity to store up to 1.3 million cubic metres of water, behind a new dam.			
Moveable gates in culvert outlets will limit the flow able to pass downstream to Morpeth - the excess being stored in the storage area and discharged later. The scheme as a whole will provide a standard of protection of 1:137 to Morpeth.			
The 4 flood gates at High Stanners will be closed by the E.A. if high flows are forecast.			
Flood Warning Status		Area(s) at risk (refer to map)	
Flood Alert		121WAF905	
Flood Warning		121FWF101	
Severe Flood Warning		yes	
Risk Assessment			
Likelihood		(1-5)	4
Impact	- Health	(1-5)	4
	- Social	(1-5)	4
	- Economic	(1-5)	3
		(1-5)	3.5
		Mean Impact Score	
		Very High Risk	

- Environmental	(1-5) 2	
Rest Centre Options (Capacity)	Town Hall, Morpeth NE61 2LZ King Edward VI High School NE61 1DN (340) St James Community Centre NE61 1BN Storey park Community centre NE61 2QE Collingwood School Stobhill NE62 2HA County Hall NE61 2ED (300) All Saints First School NE61 3RD (200)	
Reception Centre (Short-term holding point)	Town Hall or Riverside Leisure Centre	
Command and Control Locations	Bronze Options: Morpeth Town Hall or St James Community Centre Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.	
Evacuation Routes <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <u>Emergency access to High Stanners:</u> A pedestrian escape route is available for residents of High Stanners taking them up to Curly Kews. A cupboard at the start of the path contains space blankets, wind up torches and glow sticks to delineate the route. E.A., NCC Morpeth Depot and Alan Bell (Northumberland Flood Action Group) hold keys </div>	If the A197 is closed at Whorral Bank traffic from the North should be diverted from the roundabout at the end of the Pegswood bypass via the B1337 or A197. If Whorral Bank is closed, then traffic from the South should be diverted via Dacre Street/ Manchester Street/ Newgate Street to the A1 North and South North bound traffic on the A197 or A192 should be turned back at the Mafekin Park roundabout. The B6343 Mitford to Morpeth Road will be closed at the top of Dogger Bank and High House Road Junction. Traffic from the West will be diverted via High House Road which joins the B6524 Whalton Road. Traffic from High Stanners would exit via Curly Kews Bank joining at High House Road/B6343 Whalton Road. A pedestrian escape route is available for residents of High Stanners taking them up to Curly Kews. A cupboard at the start of the path contains space blankets, wind up torches and glow sticks to delineate the route. E.A., NCC Morpeth Depot and Alan Bell (Northumberland Flood Action Group) hold keys	
Additional Info	Please note that a Community Agreement has been developed for Morpeth for the Town Council. Duty CCO to contact Mike Jeffery or Ian Graham from Highways. Inform them when the flood alert has been issued so they can decide whether they need to open the flood gates off the A189 spine road. Also, advise them if there has been any flood alerts/ warnings issued for the coast. <u>Please note:</u> Gates can only be opened during office hours. It takes approx. 90 minutes to open the gates.	
NCC property in flood zones	7223- Morpeth SSDO, 5965- St Mathews House, 5940- Morpeth Town Hall, 2185- Morpeth First School, 2189- Netherton Northside First School, 3888- St Roberts RC Vol Aided First School, 7631- Morpeth Library, 5936- Morpeth Chantry, 6033-Morpeth TIC, Chantry.	



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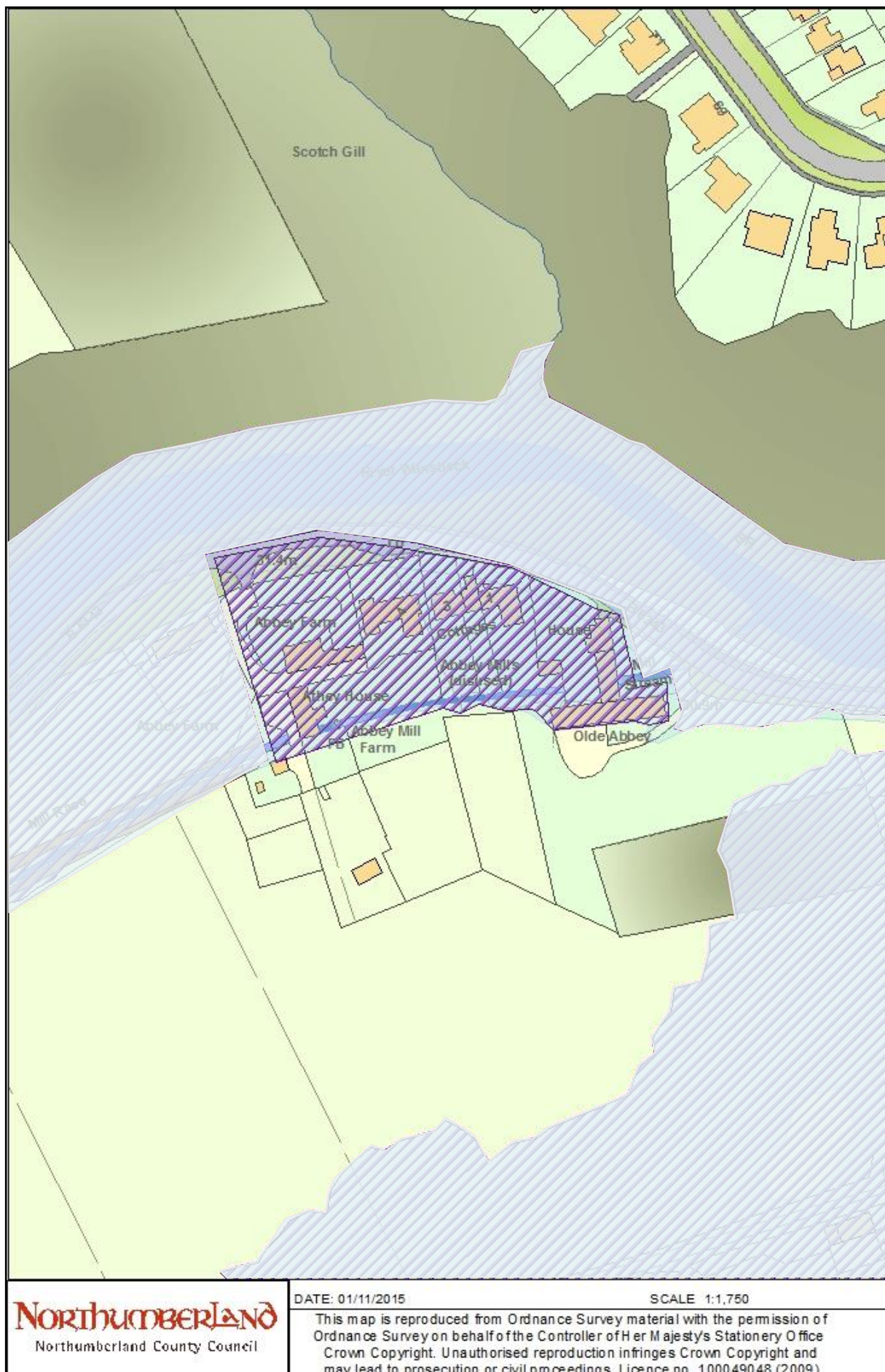
Flood Warning Ref Code:	121FWF125	Location:	The River Wansbeck at Abbey Mills
Description:			
Properties and low-lying areas at Abbey Mills.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
9	Refer to Section 2.1.9 No Care Homes or Supported Housing Identified	As NS101 Previous Page	
	Frequency of Flooding	Lead Time	
	1:25 (4%)	2 hrs.	
Flooding History (if known)			
1963 - 482 properties were flooded 2008 - An estimated 1000 properties were flooded within Morpeth. 2012 – estimated 45 properties flooded. 2015 – Major Flood alleviation scheme constructed. 2016 – Flooding to properties at Abbey Mills and East Mill from Mill Race.			
Flood Defences / Alleviation Schemes (if any)			
2015 Major Flood alleviation scheme constructed for Morpeth. No specific defences in this area.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF905		
Flood Warning	121FWF125		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 3		High Risk
Impact - Health - Social - Economic - Environmental	(1-5) 3	Mean Impact	
	(1-5) 3	Score	
	(1-5) 3	(1-5) 3	
	(1-5) 3		

Additional Information:

Rest Centre Options (Capacity)	Town hall Morpeth NE61 2LZ King Edward VI High School NE61 1DN (340) Riverside Leisure Centre Collingwood School Stobhill NE62 2HA County Hall Morpeth NE61 2ED (300)
Rest Centre (Short-term holding point)	Town Hall / Riverside Leisure centre
Command and Control Locations	Bronze Options: Morpeth Town Hall or St James Community Centre Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by police at time of incident.

<p>Evacuation Routes</p> <p><u>Emergency access to High Stanners:</u></p> <p>A pedestrian escape route is available for residents of High Stanners taking them up to Curly Kews. A cupboard at the start of the path contains space blankets, wind up torches and glow sticks to delineate the route. E.A., NCC Morpeth Depot and Alan Bell (Northumberland Flood Action Group) hold keys</p>	<p>If the A197 is closed at Whorral Bank traffic from the North should be diverted from the roundabout at the end of the Pegswood bypass via the B1337 or A197.</p> <p>If Whorral Bank is closed, then traffic from the South should be diverted via Dacre Street/ Manchester Street/ Newgate Street to the A1 North and South</p> <p>North bound traffic on the A197 or A192 should be turned back at the Mafekin Park roundabout.</p> <p>The B6343 Mitford to Morpeth Road will be closed at the top of Dogger Bank and High House Road Junction. Traffic from the West will be diverted via High House Road which joins the B6524 Whalton Road.</p> <p>Traffic from High Stanners would exit via Curly Kews Bank joining at High House Road/B6343 Whalton Road.</p> <p>A pedestrian escape route is available for residents of High Stanners taking them up to Curly Kews. A cupboard at the start of the path contains space blankets, wind up torches and glow sticks to delineate the route. Peter Angus (Morpeth Depot), Sarah McCrea (E.A.) and Alan Bell (Northumberland Flood Action Group) hold keys</p>
<p>NCC properties in flood zones</p>	<p>7223- Morpeth SSDO, 5965- St Mathews House, 5940- Morpeth Town Hall, 2185- Morpeth First School, 2189- Netherton Northside First School, 3888- St Roberts RC Vol Aided First School, 7631- Morpeth Library, 5936- Morpeth Chantry, 6033-Morpeth TIC, Chantry.</p>

Please note that there is a Community Agreement in place for Morpeth which was developed by the Town Council. Refer to Civil Contingencies file P18

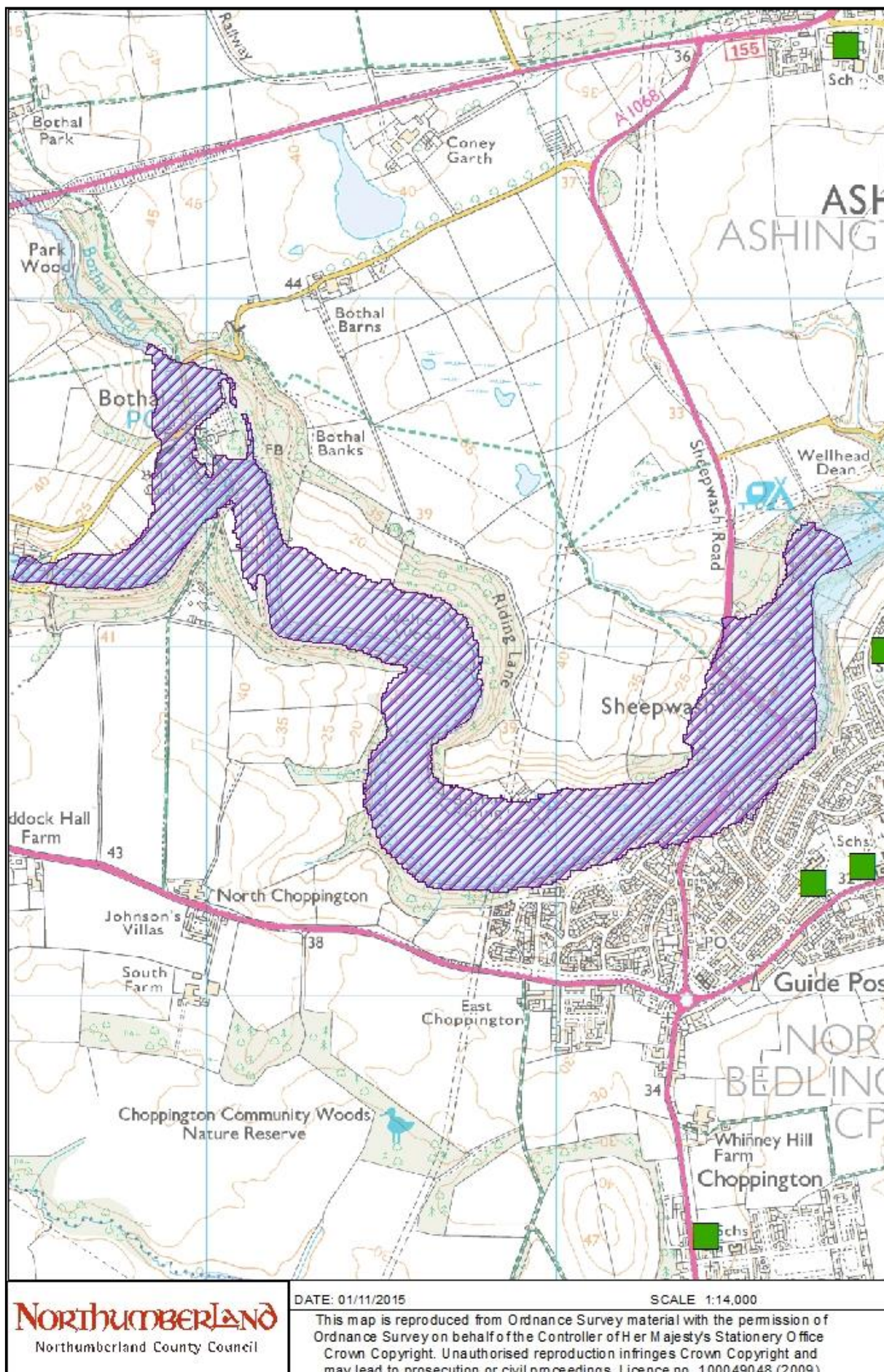


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Flood Warning Ref Code:	121FWF113	Location:	River Wansbeck at Bothal and Sheepwash.	
Description:				
Properties at Bothal Village, Sheepwash Bank and Sheepwash Gardens.				
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure		
70	Refer to Section 2.1.9	N/A		
	Frequency of Flooding	Lead Time		
	1:10 (10%)	2 hrs.		
Flooding History (if known)				
1963 - two properties were flooded in Millhouse, Sheepwash. 1988 - One property was flooded in Sheepwash Gardens. 2008 - 3 residential properties were flooded at Bothal Mill and Sheepwash Gardens. 2012 – River high at these locations during Morpeth Flood event but no properties flooded – Anglers Arms car park and access to Sheepwash Bank affected.				
Flood Defences / Alleviation Schemes (if any)				
There is no E.A. defence systems in this area, although they do maintain the channel from Sheepwash to Bothal Mill				
Flood Warning Status	Area(s) at risk (refer to map)			
Flood Alert	121WAF905			
Flood Warning	121FWF113			
Severe Flood Warning	yes			
Risk Assessment				
Likelihood	(1-5) 4	Medium Risk		
Impact - Health	(1-5) 2			Mean Impact
- Social	(1-5) 2			Score
- Economic	(1-5) 2			(1-5) 2
- Environmental	(1-5)			

Additional Information:

Rest Centre Options (Capacity)	Bothal Middle School Ashington NE638NT (250) Pegswood First School Pegswood NE61 6XG Cleaswell Hill School NE62 5DJ (Community Special School) (80) Mowbray First School NE62 5HQ (200) Guide Post Ringway First School NE62 5YP (200) Choppington First School NE62 5RR (80)
Command and Control Locations	Bronze Options: Ashington Police or Fire Stn Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by police at time of incident.

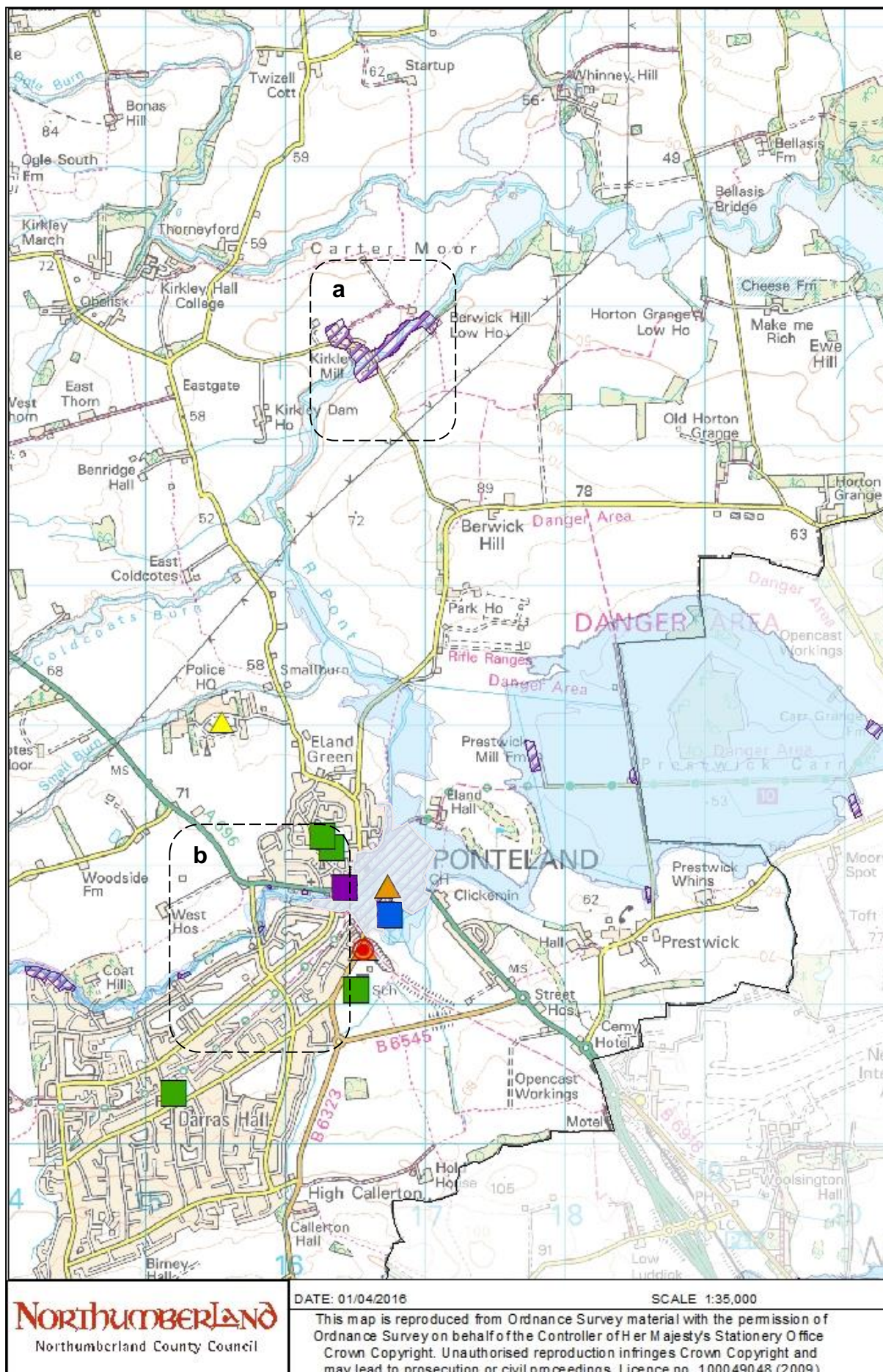


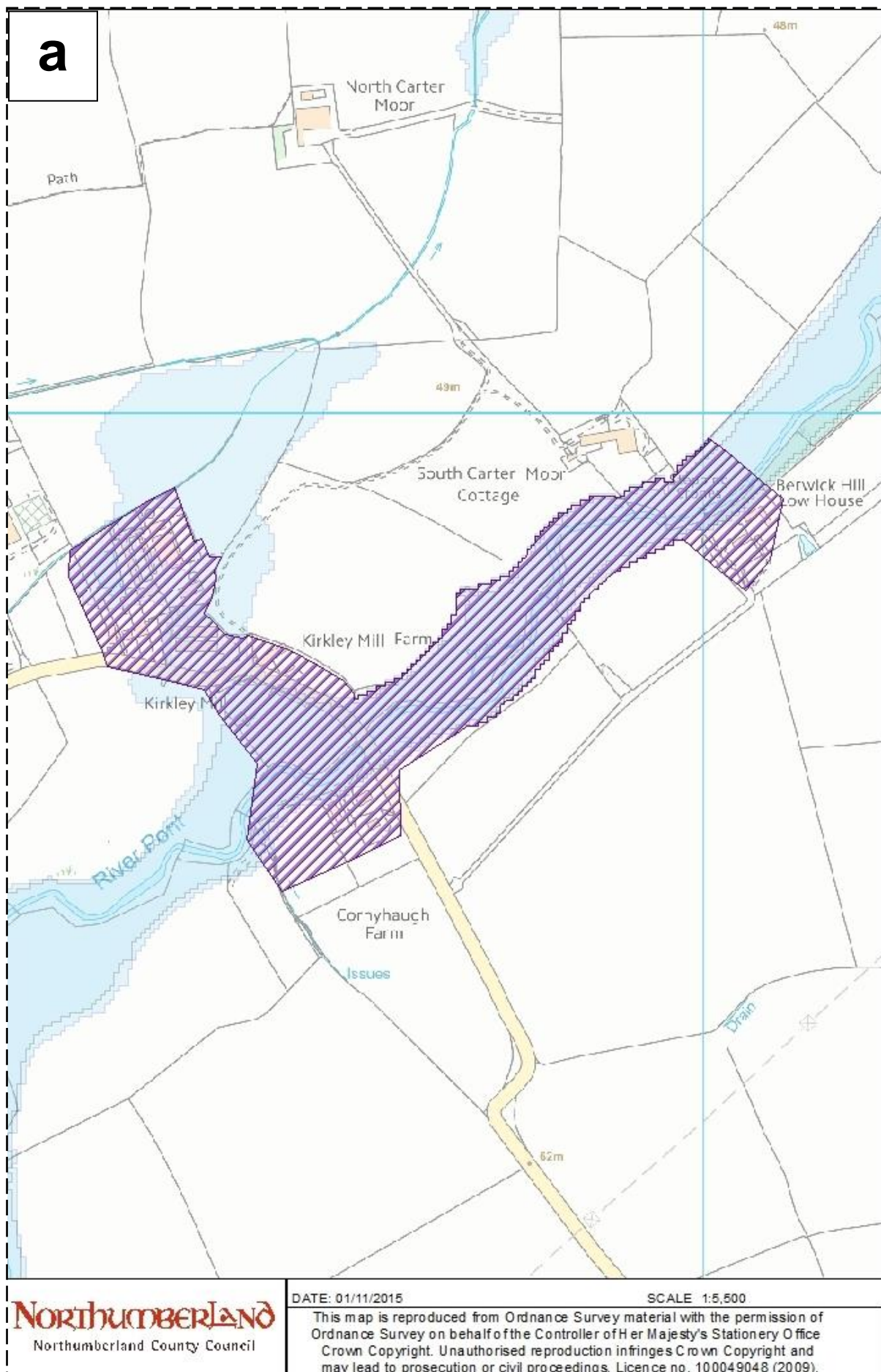
Flood Warning Ref Code:	121FWF114	Location:	The River Pont at Kirkley Mill, Darras Hall and Prestwick Carr
Description:			
Properties at Kirkley Mill, on the riverside at Darras Hall and West Road, Prestwick Mill Farm and agricultural land around Prestwick Carr.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
40	Refer to Section 2.1.9	Note: Kirkley Mill Cattery located within the flood zone on map (b)	
	Frequency of Flooding	Lead Time	
	1:30 (3.3%)	2 hrs.	
Flooding History (if known)			
1992 - Major flooding - 17 properties in the Darras Hall Estate and a further 3 houses at Riverside were flooded. 2000 - Over 226 properties were flooded. 2005 - Gardens were flooded when the River Pont burst its banks. 2008 – 18 commercial properties flooded when Pont came out of its banks impeding drainage as water backed up – (11 properties Eland Haugh and 7 in Main Street)			
Flood Defences / Alleviation Schemes (if any)			
There is an Environment Agency flood bank and flood wall, on the right bank, adjacent to properties on the riverside with a 1 in 50-year standard of protection. On the right bank at Riverside Park there is a flood bank with a 1 in 50-year standard of protection. These do not protect properties in this Flood Warning area.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF906		
Flood Warning	121FWF114		
Severe Flood Warning	N/A		
Risk Assessment			
Likelihood	(1-5) 4		Medium Risk
Impact - Health - Social - Economic - Environmental	(1-5) 2	Mean Impact	
	(1-5) 3	Score	
	(1-5) 2	(1-5) 2	
	(1-5) 1		

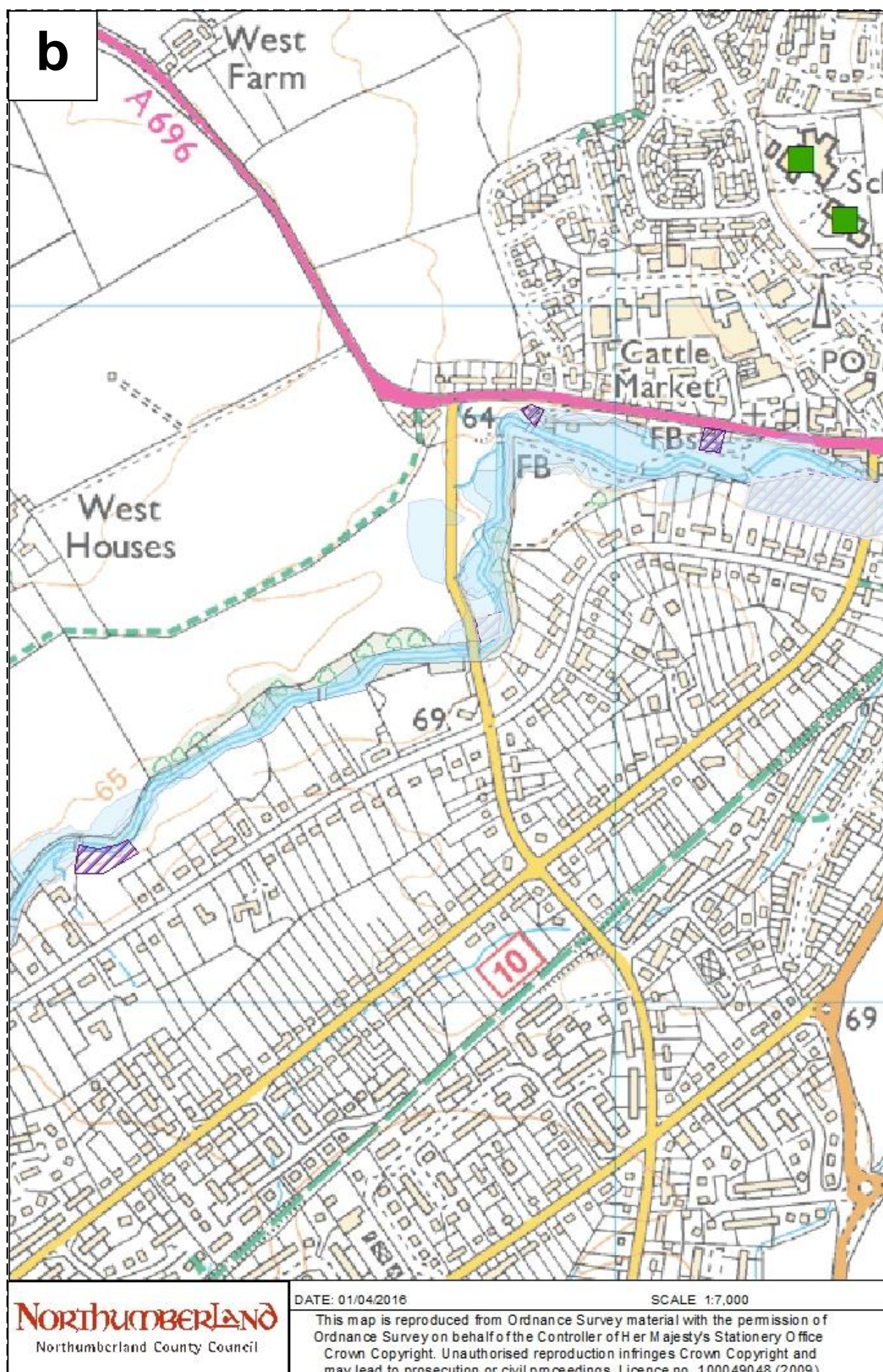
Additional Information:

Rest Centre Options (Capacity)	Darras Hall First School NE20 9PP (200) Merton Hall Recreation Centre NE20 9PX Ponteland Middle Schools NE20 9EY (200) Ponteland Leisure Centre NE20 9BW
Command and Control Locations	Bronze Options: Ponteland Police HQ or Fire Stn Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident
Additional Info	Hydrostal "Betsy" self-priming pump available from Ponteland. Refer to FSE4.3/2.4 (NFRS- Note for Guidance)

Please note: Map (b), the flood area affected only surrounds Prestwick Carr.







Flood Warning Ref Code:	<u>121FWF105</u>	Location:	River Pont at Ponteland
Description:			
Properties at Main Street, Ponteland Town Centre, Eland Haugh Estate, Pont View, The Cloggs, Atholl House, Callerton Lane, Cecil Court, Fairney Close, Mayfair Gardens and Fairney Edge.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
517	Refer to Section 2.1.9 No Care Homes or Supported Housing Identified	Electrical Sub Stn off Main St and Riverside	
	Frequency of Flooding	Lead Time	
	1:100 (1%)	2 hrs.	
Flooding History (if known)			
1992 - major flooding occurred, 17 properties in the Darras hall Estate and 3 houses at Riverside were flooded. 2000 - 226 properties were flooded. 2005 - Gardens were flooded when the River Pont burst its banks. 2008 - 18 commercial properties were flooded as a result of the River Pont coming out of bank (11 properties at Eland Haugh) and impending drainage as water backed up (7 properties on Main Street)			
Flood Defences / Alleviation Schemes (if any)			
There is a series of Environment Agency defences in Ponteland. Current standard of protection has been assessed as 1:100 year (10%)			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF906		
Flood Warning	121FWF105		
Severe Flood Warning	NS105		
Risk Assessment			
Likelihood	(1-5) 4		Very High Risk
Impact - Health - Social - Economic - Environmental	(1-5) 4	Mean Impact	
	(1-5) 4	Score	
	(1-5) 4	(1-5) 3.75	
	(1-5) 3		

Additional Information:

Rest Centre Options (Capacity)	Merton Hall Recreation Centre NE20 9PX Ponteland Middle School NE20 9EY (200) Ponteland Leisure Centre NE20 9BW
Command and Control Locations	Bronze Options: Ponteland Police HQ Or Fire Stn Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.
Evacuation Routes	Via Thornhill Road or North Road to Ponteland First (If in use) if not in use follow road around to Thornhill Road to Richard Coats C of E School. On the other side of the river use Ponteland Road, turn onto B6545 then on to the B6323.

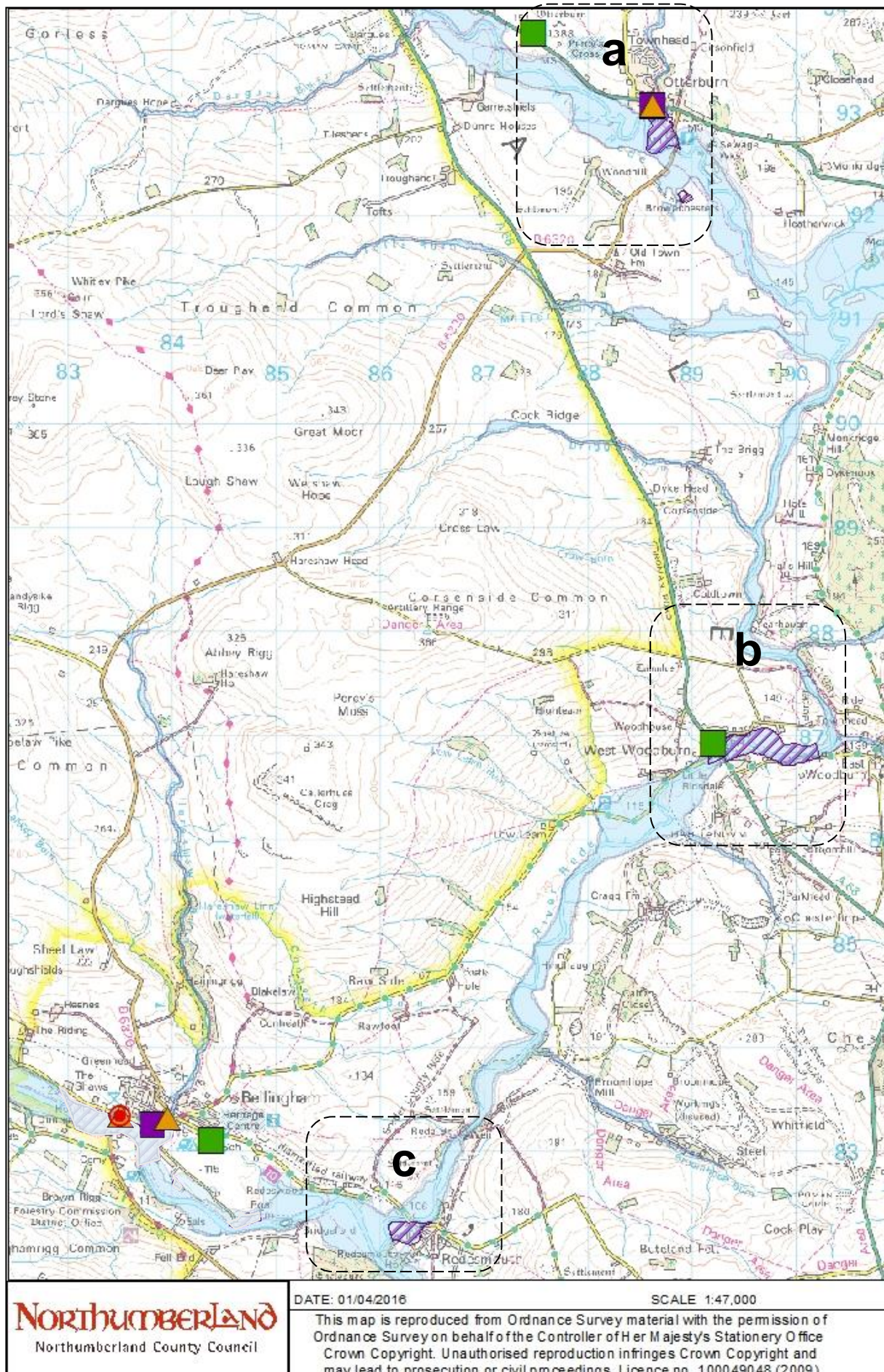
Additional Info	Hydrostal "Betsy" self-priming pump available from Ponteland. Refer to FSE4.3/2.4 (NFRS- Note for Guidance)
NCC Properties	Ponteland Leisure Centre - NE20 9EG

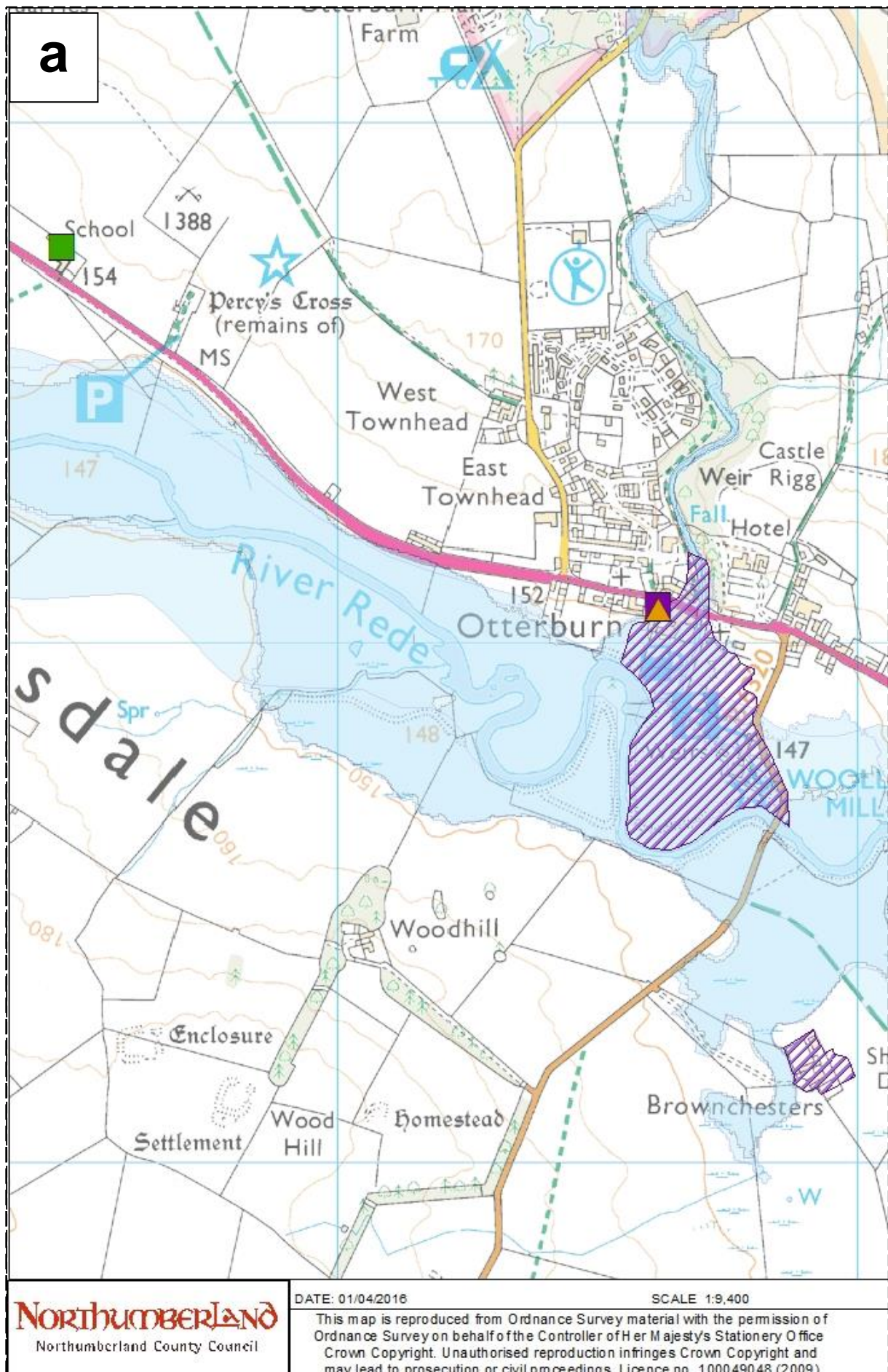
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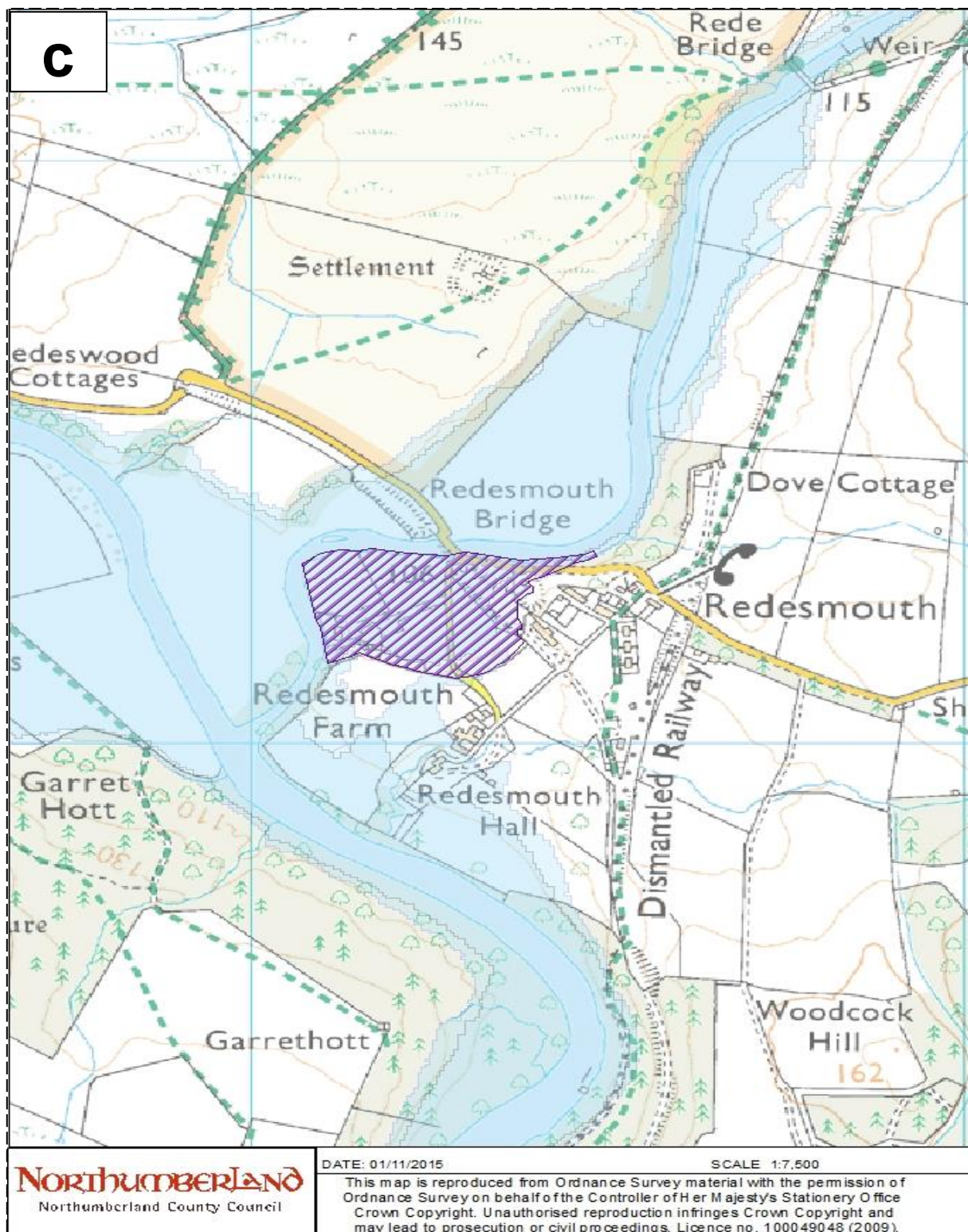
Flood Warning Ref Code:	121FWF202	Location:	River Rede at Otterburn, West Woodburn and Redesmouth
Description:			
Properties around Otterburn Bridge, Mill House and Brownchesters in Otterburn. As well as White Acre, The Close, Bridge End, Brae Well Close and Redeside in West Woodburn and Redesmouth Mill in Redesmouth.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
30	Refer to Section 2.1.9	Otterburn Bridge on the A696 Sewage Works Bridge over River Rede	
	Frequency of Flooding	Lead Time	
	1:10 at Otterburn Mill (10%) 1:25 at Redesmouth (4%) 1:50 at other locations (2%)	2 hrs.	
Flooding History (if known)			
1955 and 1982 - Several Houses were affected. 2005 - the museum area and toilet block at Otterburn Mill flooded. 3 properties along the A68 in West Woodburn, and the outbuildings at Redesmouth Mill were flooded from fluvial and surface water.			
Flood Defences / Alleviation Schemes (if any)			
There are flood banks on the left and right banks at Otterburn Mill with a 1 in 10-year (10%) standard of protection. Flood banks are also found on both banks at the confluence between River Rede and the Otter burn with a 1 in 50-year (2%) standard of protection.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF907		
Flood Warning	121FWF202		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 5		High Risk
Impact <ul style="list-style-type: none">HealthSocialEconomicEnvironmental	(1-5) 2	Mean Impact	
	(1-5) 2	Score	
	(1-5) 2	(1-5) 2.75	
	(1-5) 3		

Additional Information:

Rest Centre Options (Capacity)	Otterburn First School NE19 1JF (40) Otterburn Memorial Hall NE19 1NP (155) Bellingham Middle and First School NE48 2EN (150)
Command and Control Locations	Bronze Options: Otterburn Memorial Hall Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at the time of incident.
Evacuation Routes	Use A696 and head towards Otterburn First School





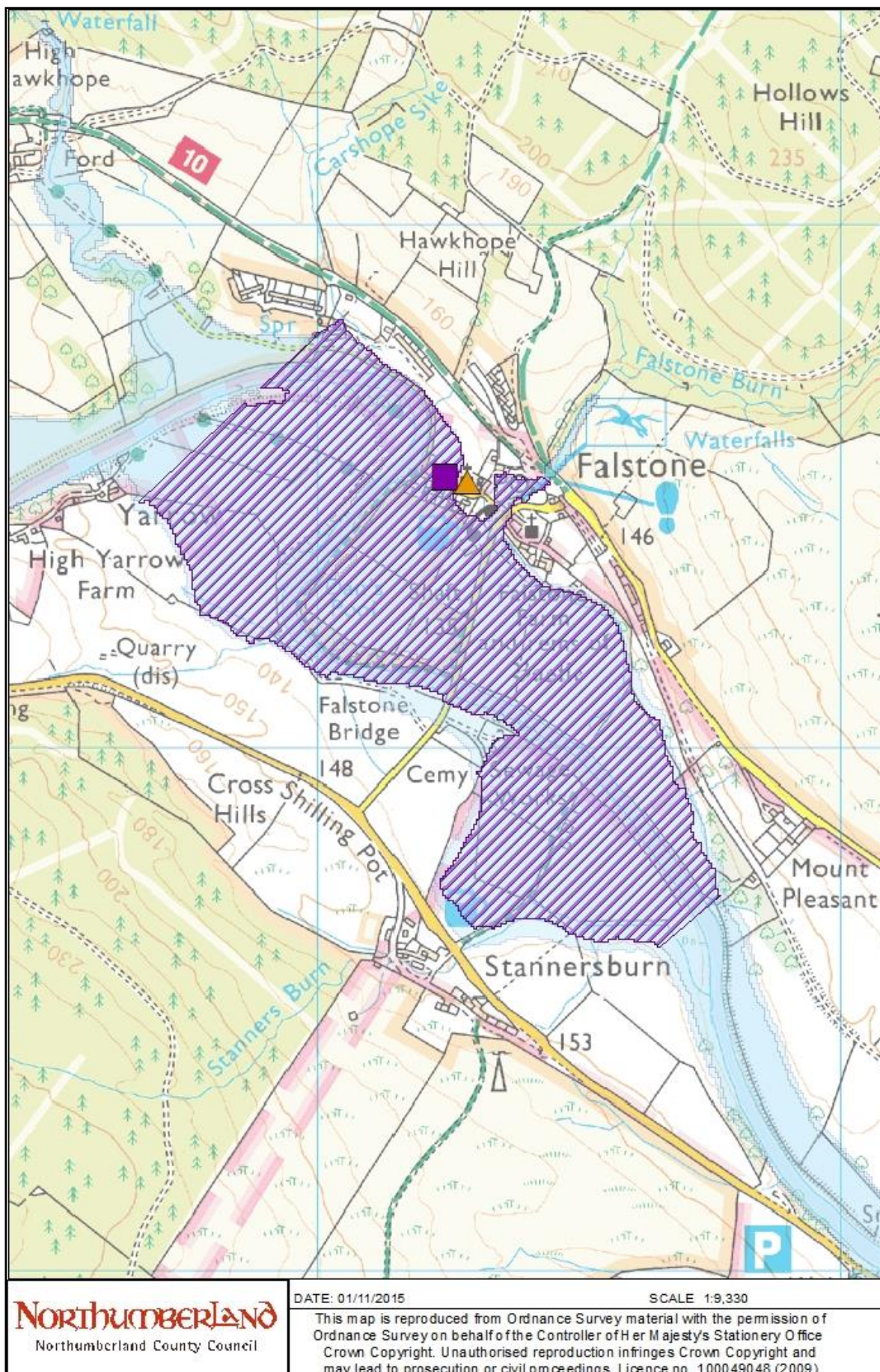


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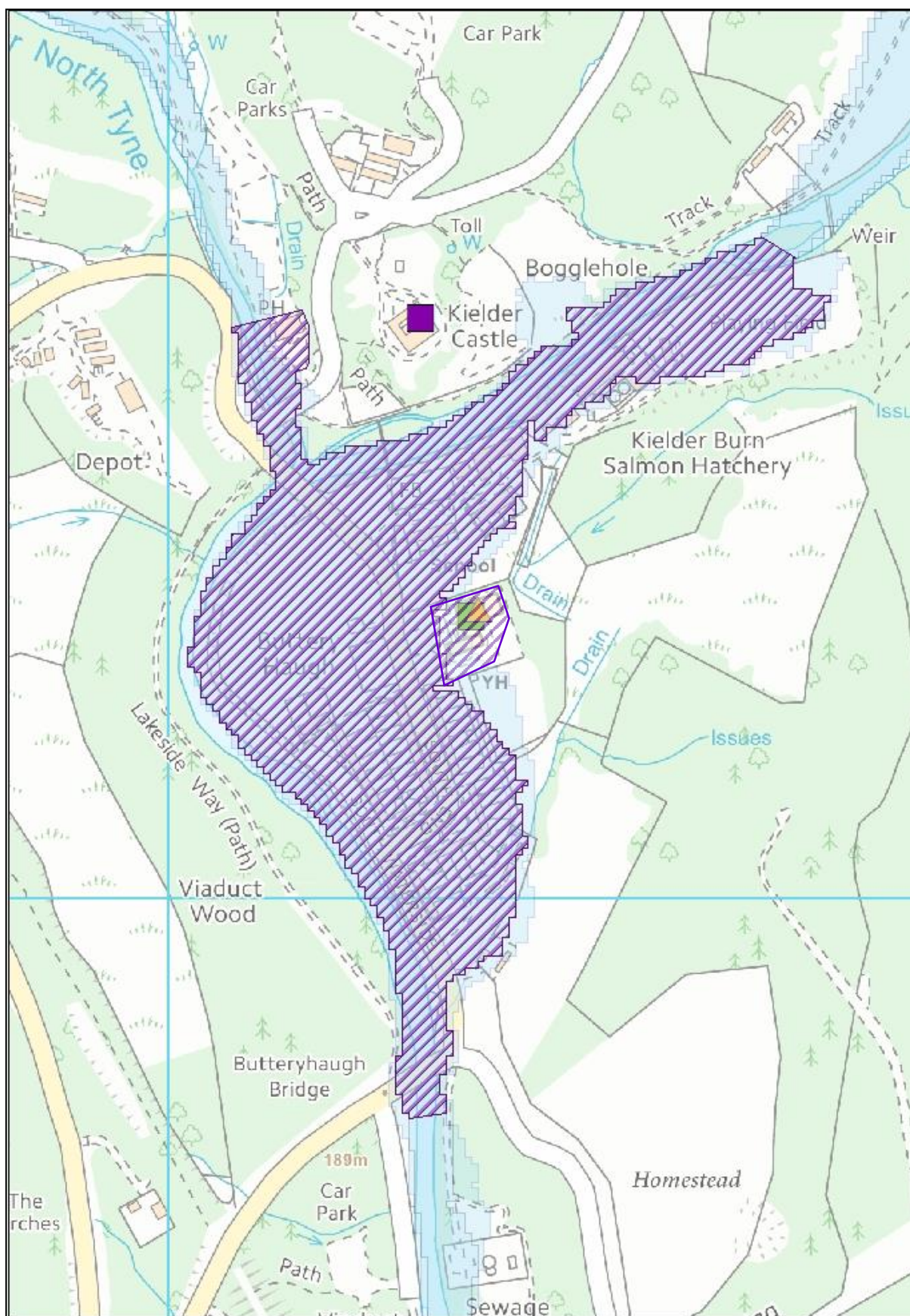
Flood Warning Ref Code:	121FWF204	Location:	River North Tyne at Falstone
Description:			
Properties at Stannershaugh Farm, Falstone Farm and those properties situated around The Croft.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
18	Refer to Section 2.1.9	Electric Sub Stn at Kielder Dam Falstone Sewage Works Falstone Bridge	
	Frequency of Flooding	Lead Time	
	1:10 (10%)	2 hrs.	
Flooding History (if known)			
1975 - flooding fields and roads. 1995 Stannershaugh Farm and a property in the Croft were flooded. 2005 - Extensive flooding of agricultural land. No property flooded however the road from Falstone Road to the village and the road to the north of the village were flooded. There was up to 3ft of flood water in outbuildings and fields at Stannershaugh Farm.			
Flood Defences / Alleviation Schemes (if any)			
There is an E.A. flood bank on the right bank of the river at Yarrow, its current standard of protection assessed as 1 in 30 years (3.3% AEP). There is another flood bank downstream on the left bank which provides a 1 in 20-year (5%) standard of protection.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF908		
Flood Warning	121FWF204		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 5		Medium Risk
Impact - Health - Social - Economic - Environmental	(1-5) 1	Mean Impact	
	(1-5) 3	Score	
	(1-5) 1	(1-5) 1.75	
	(1-5) 2		

Additional Information:

Rest Centre Options (Capacity)	Matthew Ridley Memorial Hall NE48 1AA Bellingham Town Hall NE48 2AA
Command and Control Locations	Bronze Options: Falstone Memorial hall or Church Hall Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at the time of incident.



Flood Warning Ref Code:	121FWF227	Location:	River North Tyne at Kielder Butteryhaugh	
Description:				
Properties and low-lying areas around the South End, South Waterside, Hatchery Cottages, the Anglers Arms and The Bakethin Fishing Lodge.				
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure		
63	Refer to Section 2.1.9 No Care Homes or Supported Housing Identification	Butteryhaugh Bridge Kielder Sewage Works Southend Road Bridge Catcleugh Camping Site Electrical Sub Station in Kielder Village		
	Frequency of Flooding	Lead Time		
	1:30 (3.3%)	1 hr.		
Flooding History (if known)				
1954 and 1955 – Butteryhaugh is known to have flooded. 1984 -The highest recorded floods occurred 2002 (Feb) - 8 properties were flooded when an ordinary watercourse blocked. 2002 (Nov) - Flooding reoccurred although no properties were damaged.				
Flood Defences / Alleviation Schemes (if any)				
There are Environment Agency flood banks around Kielder Village at South Waterside, Buttery Haugh and Kielder Castle and a flood wall at the south end of Kielder Village with a 1 in 30-year (3.3%) standard of protection. Further downstream there is a flood bank on the left bank adjacent to the Hatchery Building with a 1 in 50-year (2%) standard of defence.				
There are Environment Agency flood banks between Rivermead and the Salmon Hatchery with a 1.3-1% AEP standard of protection (SoP). A left bank embankment between the Salmon Hatchery to the North Tyne confluence, and from there to the flood wall at South Waterside/ Butteryhaugh gauge has a 2-1.3% AEP SoP. The flood wall along South Waterside has a SoP of 0.5-0.1% AEP and ties into an embankment with the same SoP to South End road junction. The left bank flood water at South End junction has SoP 0.5-0.1% AEP. Downstream of South End junction, an embankment has SoP 2-1.3 AEP.				
Flood Warning Status Area(s) at risk (refer to map)				
Flood Alert	121WAF908			
Flood Warning	121FWF227			
Severe Flood Warning	yes			
Risk Assessment				
Likelihood	(1-5) 4	High Risk		
Impact - Health	(1-5) 3			Mean Impact Score (1-5) 2.5
- Social	(1-5) 4			
- Economic	(1-5) 2			
- Environmental	(1-5) 1			
Rest Centre Options (Capacity)		Kielder Castle NE48 1ER (50) Kielder Community First School NE48 1HQ		
Command and Control Locations		Bronze Options: Kielder Castle or First School Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.		
Evacuation Route		The evacuation route for Kielder if the roads into the village become flooded due to an Extreme Flood would be via the Forrest Drive from Dam South		
NCC property in the flood zone		2254- Kielder Community First School.		



Northumberland
Northumberland County Council

DATE: 01/04/2016

SCALE 1:4,000

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Flood Warning Ref Code:	121FWF206	Location:	River North Tyne at Bellingham
Description:			
Properties around West View, Hawthorn Terrace, Brookside Place and Boat Road.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
46	Refer to Section 2.1.9	Bridge over North Tyne B6320	
	Frequency of Flooding	Lead Time	
	1:25 (4%)	2 hrs.	
Flooding History (if known)			
1968 - flooded East Greystead Farm, 10 properties at Fountain Square, and 3 properties at Burnside. 1975 – 88 mm of rain in 9 hours. It had severe impact on agricultural land, flooding the road and cutting off all access to Bellingham Show 2002 – roads were flooded when the river burst its banks. Adjacent to Hareshaw Burn is a rapid response catchment			
Flood Defences / Alleviation Schemes (if any)			
There is an Environment Agency flood bank upstream of Bellingham on the left bank. Its current standard of protection is to a 1 in 30year (3.3%) standard and protects the cricket ground. There is also a flood bank at Bellingham at the confluence with Hareshaw Burn. Its current standard of protection has been assessed as 1 in 200 year (0.5%). There is also a series of flood banks and flood walls along the right bank of Hareshaw Burn. The current standard of protection is 1 in 200 year (0.5%).			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF908		
Flood Warning	121FWF206		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 4	Medium Risk	
Impact	(1-5) 2		
- Health	(1-5) 2		
- Social	(1-5) 2		
- Economic	(1-5) 2		
- Environmental	(1-5) 2		

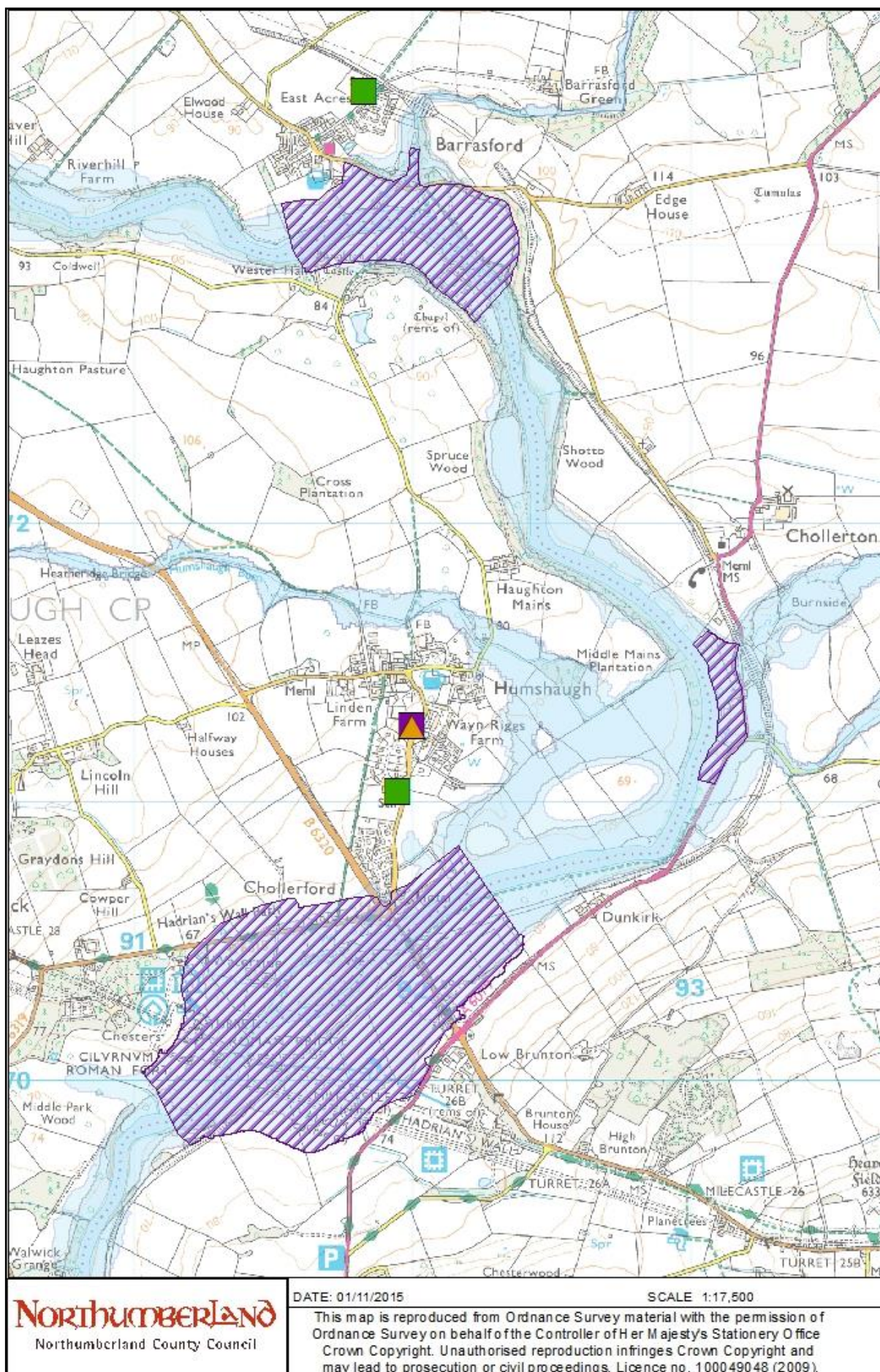
Additional Information:

Rest Centre Options (Capacity)	Bellingham Middle and First School NE48 2EN (150) Bellingham Town Hall NE48 2AA
Command and Control Locations	Bronze Options: Bellingham Fire Stn / Town Hall Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up Location to be confirmed at time of incident.

Flood Warning Ref Code:	121FWF207	Location:	River North Tyne at Barrasford, Haughton and Chollerford
Description:			
Riverside properties affected at Barrasford, Chollerford, Walk Mill and Wall Mill			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
30	Refer to Section 2.1.9	Bridge over North Tyne B3118 Sewage Works behind Recreation Ground	
	Frequency of Flooding	Lead Time	
	1:10 (10%)	2 hrs.	
Flooding History (if known)			
1975 – Flooding at Chollerford no records to indicate if any property damaged 2005 - 1 property was flooded through a combination of the North Tyne backing up and high levels of surface water. The George Hotel is reported to have flooded in the past.			
Flood Defences / Alleviation Schemes (if any)			
There are no known defences in this area.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF908		
Flood Warning	121FWF207		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 5		Medium Risk
Impact <ul style="list-style-type: none">- Health- Social- Economic- Environmental	(1-5) 2	Mean Impact	
	(1-5) 3	Score	
	(1-5) 1	(1-5) 1.75	
	(1-5) 1		

Additional Information:

Rest Centre Options (Capacity)	Humshaugh Village Hall NE46 4AG Humshaugh Community First School NE46 4AA (50)
Command and Control Locations	Bronze Options: Humshaugh Village Hall Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up Location to be confirmed by Police at time of incident



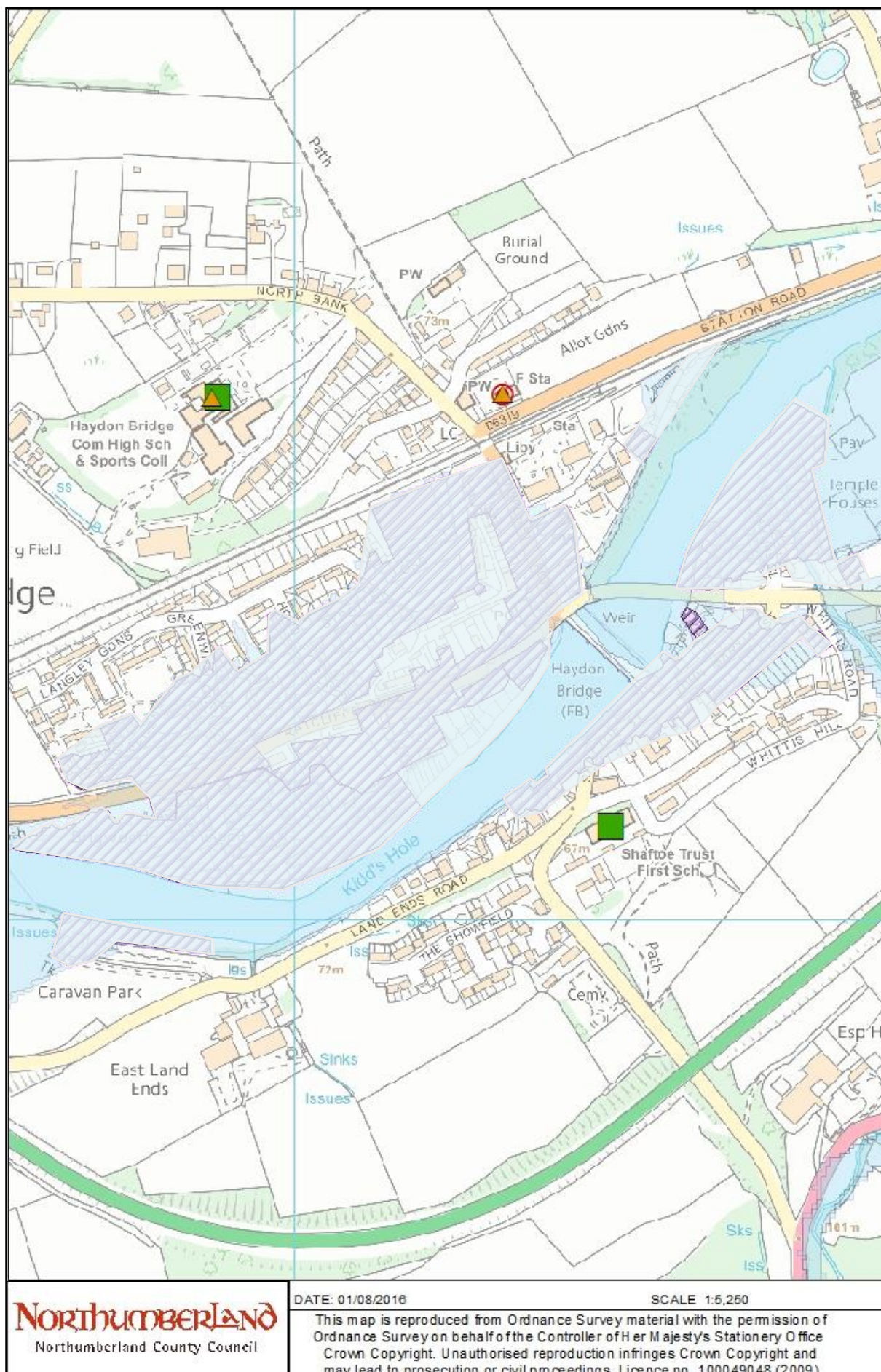
Flood Warning Ref Code:	121FWF209	Location:	River North Tyne at Wark
Description:			
Properties affected – Riverside Cottage, Old School House, Wark Sports Club and Sawmill Garage at Warksburn Bridge			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
2	Refer to Section 2.1.9	N/A	
	Frequency of Flooding	Lead Time	
	1:20 (5%)	2hrs.	
Flooding History (if known)			
Not known			
Flood Defences / Alleviation Schemes (if any)			
No EA defences in area.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF908		
Flood Warning	121FWF209		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 3		Low Risk
Impact	- Health	(1-5) 1	
	- Social	(1-5) 2	
	- Economic	(1-5) 1	
	- Environmental	(1-5) 1	
		Mean impact Score (1-5) 1	



Flood Warning Ref Code:	121FWF200	Location:	River South Tyne at Riverside Workshop Haydon Bridge.
Description:			
Property Affected The Riverside Workshop, John Street			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
1			
	Frequency of Flooding	Lead Time	
		2 hrs	
Flooding History (if known)			
1975 - 5 properties were flooded. 1976 - 7 Temple Cottages was flooded. 1979 - football field was saturated. 1986 - 1 property flooded 1995 - 60 properties were flooded. 2005 - 23 properties were reported to have flooded. 2015 – 36 properties flooded in Haydon Bridge including at Lipwood Well, Middle Lipwood, Brigwood (The Haughs & The Marton) Riverside Workshop, Martin's Close, Rocksprings Crescent and the Football Club. The floodwall (right bank) underneath the A686 road bridge was overtopped at approx. 1500 resulting in the flooding of 5 properties at Rocksprings Crescent and 10 at Martins Close.			
Flood Defences / Alleviation Schemes (if any)			
There are no flood defences for this Warning Area			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF909		
Flood Warning	121FWF200		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5)	1	Low
Impact - Health	(1-5)	1	
- Social	(1-5)	1	
- Economic	(1-5)	1	
- Environmental	(1-5)	1	

Additional Information:

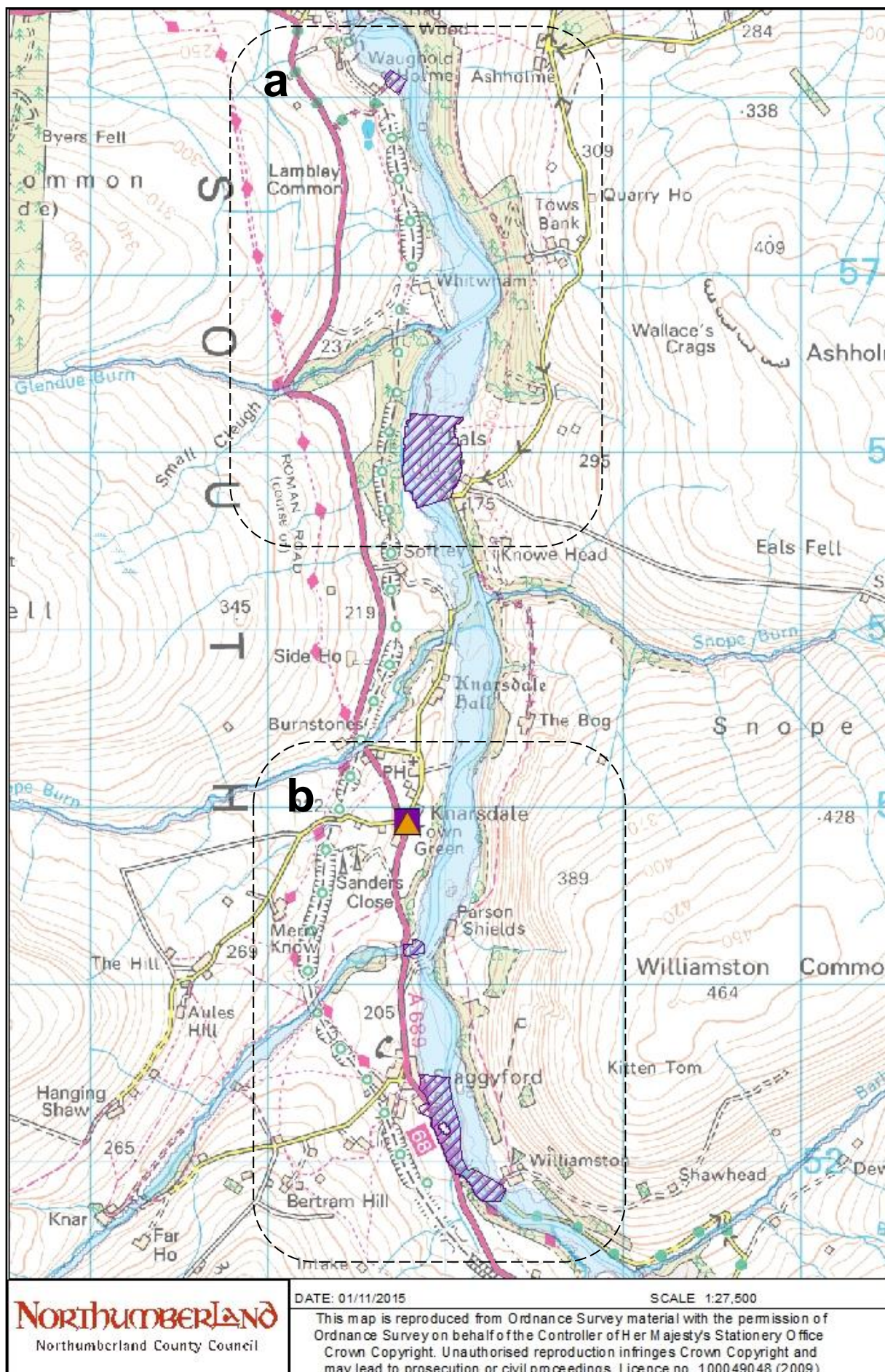
Rest Centre Options (Capacity)	Haydon Bridge Com High School & Sports College NE47 6LR (300) Shaftoe First School NE47 6BN (80)
Command and Control Locations	Bronze Options: Haydon Bridge High School Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.
Evacuation Route	The newly opened Haydon Bridge A69 bypass allows traffic to be diverted away from the flood area. Evacuation of the caravan site would be via the West Lands End Road.
NCC Properties in flood zones	Haydon Bridge Toilets - NE47 6AB Innerhaugh Mews (land) NE47 6DE

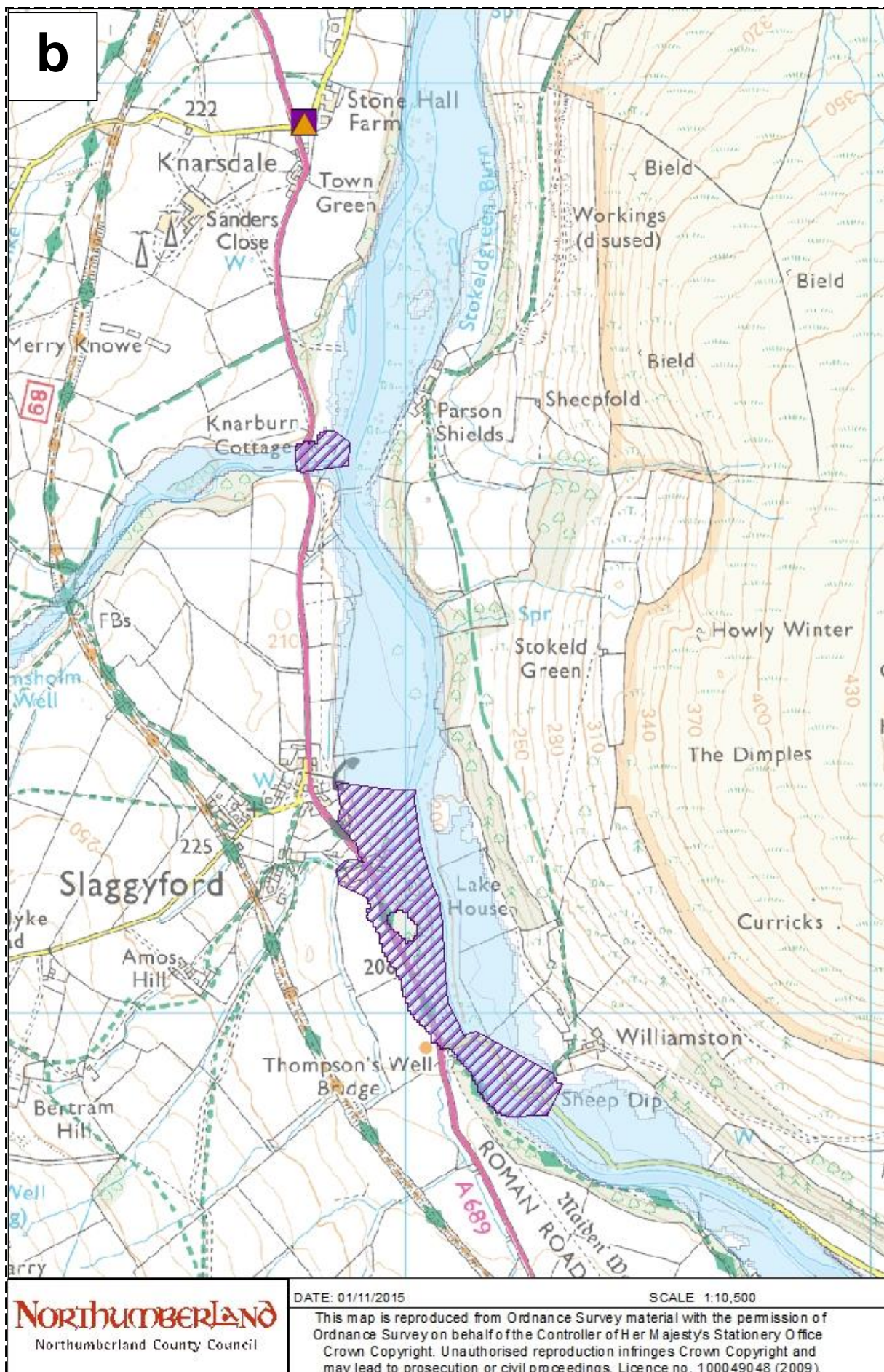


Flood Warning Ref Code:	121FWF208	Location:	River South Tyne at Slaggyford and Lambley
Description:			
Properties and low-lying areas around Slaggyford, including Lake House, Knarburn Cottage and the caravan park. Also around Lambley, including Eals Village and Waughold Holme.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
17	Refer to Section 2.1.9	Caravan Park at Slaggyford	
	Frequency of Flooding	Lead Time	
	1:25 (4%)	2 hrs.	
Flooding History (if known)			
The caravan park has flooded on numerous occasions (1979, 1991, 1998, 2005) however only fields were flooded on these occasions. In 1995 - 25 residential properties were flooded as well as one commercial property in Slaggyford. 2005 - The river came out of its bank however there are no records suggesting any damage to properties. The caravan park was flooded. 2013 – Flooding at caravan park Slaggyford.			
Flood Defences / Alleviation Schemes (if any)			
There are no known flood defences in this area, however the E.A. are responsible for the maintenance of the channel at Lambley.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF909		
Flood Warning	121FWF208		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5)	4	Low Risk
Impact - Health	(1-5)	1 Mean Impact	
- Social	(1-5)	1 Score	
- Economic	(1-5)	1 (1-5) 1	
- Environmental	(1-5)	1	

Additional Information:

Rest Centre Options (Capacity)	Knaresdale with Kirkhaugh Community Centre CA8 7NP (100)
Command and Control Locations	Bronze Options: Knaresdale with Kirkhaugh Hall Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.

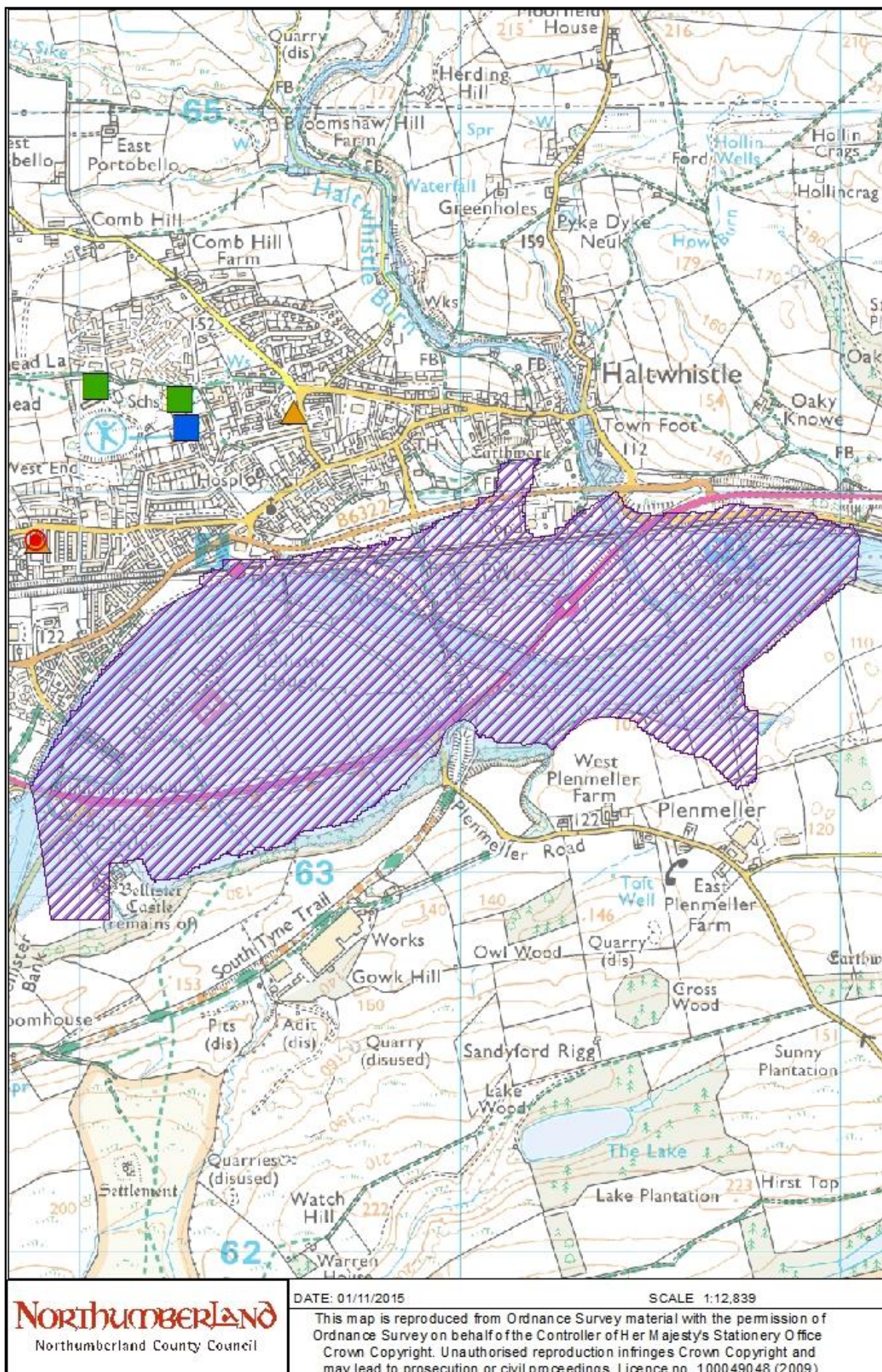




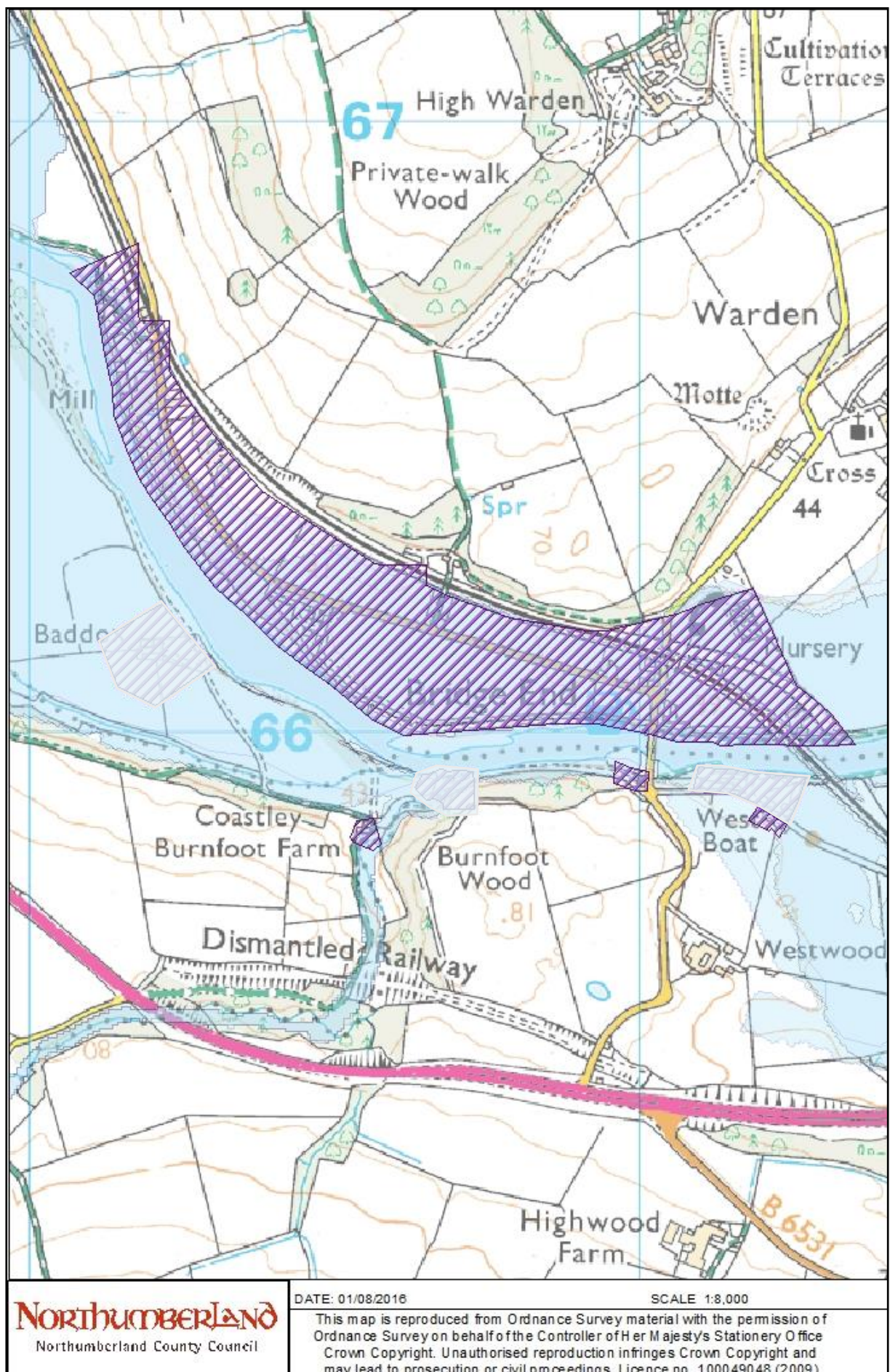
Flood Warning Ref Code:	121FWF210	Location:	River South Tyne at Haltwhistle
Description:			
Properties around Castle Glen, Station Court, Seldom Seen, Hadrian Varnish Works, Albion Works and Bellister Lodge			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
23	Refer to Section 2.1.9	Sewage works	
		Newcastle to Carlisle Railway Line	
	Frequency of Flooding	Lead Time	
	1:50 (2%)	2hrs	
Flooding History (if known)			
1966 - Seldom Seen Farm was flooded, 1967 - Kill Frost Farm was flooded. 1986 – fields, roads and a property were flooded. 1992 - Belise Farm was flooded. 1995 – flooding at Crown Burger Factory, 8 offices in Kilfrost Factory, the A69 and the A697. 2005 - Only 1 property was flooded on the lower caravan park, however, the Kilfrost Factory avoided flooding due to flood banks that had been installed in 1998. 2007 - the main river exceeded its channel capacity; no properties were damaged. 2015 – 2 properties at Haltwhistle flooded by storm Desmond (Bellister Haugh and Bellister Castle Lodge)			
Flood Defences / Alleviation Schemes (if any)			
Flood defences, such as bankside revetment in Kilfrost factory area, provide protection from a 1:100-year (1%) standard of protection. This stretch of river is also maintained by the E.A.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF909		
Flood Warning	121FWF210		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5)	4	High Risk
Impact - Health	(1-5)	2	
- Social	(1-5)	4	
- Economic	(1-5)	3	
- Environmental	(1-5)	2	
Mean Impact Score (1-5) 2.75			

Additional Information:

Rest Centre Options (Capacity)	Haltwhistle Community Campus Upper School NE49 9BA (200) Haltwhistle Community Campus Lower School NE49 9DP (150) Haltwhistle Swim and Leisure Centre NE49 9DL (50)
Command and Control Locations	Bronze Options: Haltwhistle Fire Stn or Leisure centre Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.
NCC property in the flood zone	3349- Greenhead C of E First School. Haltwhistle HWRC – NE49 OND Haltwhistle Toilets- NE49 OAX Greencroft Park- NE49 OAX Hadrian Business Park - NE49 0EX



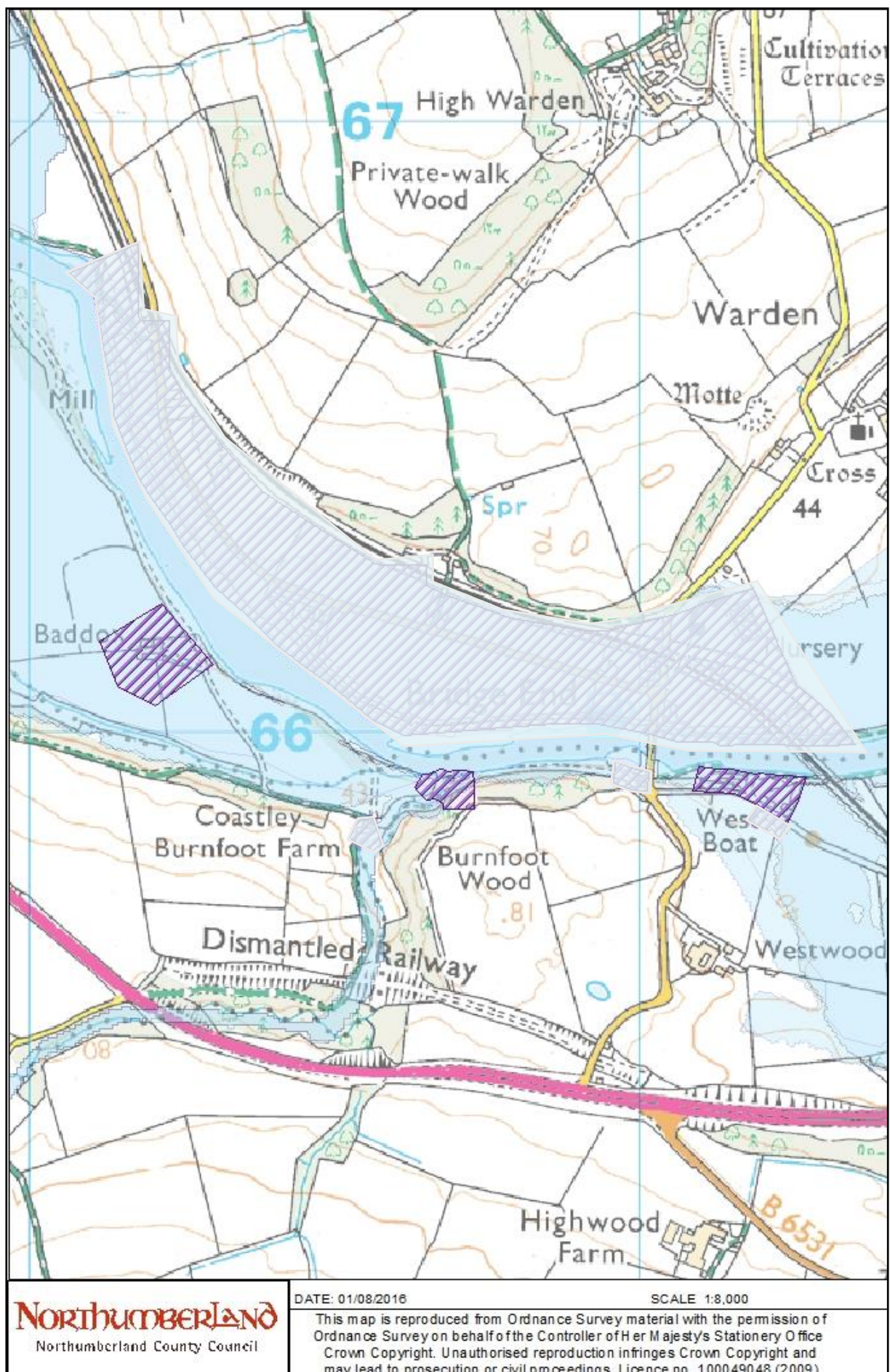
Flood Warning Ref Code:	121FWF211	Location:	River South Tyne at Warden
Description:			
Properties around the South Tyne Mill, West Boat and Hard Haugh, the Toll House, Bridge End Cottages, Westboat Cottages, Yew Tree Cottage, Joiner's hop, the Old Smithy, Coastley Burnfoot Farm and Boatside Inn.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
25	Refer to Section 2.1.9	Road and Rail bridges in this area	
	Frequency of Flooding	Lead Time	
	1:75 at Warden Riverside (1.3%) 1:100 at other locations (1%)	2 hrs.	
Flooding History (if known)			
1955 - 8 properties were flooded. 1979 - Coastly Banks Cottage was flooded and again in 1984 and 1986. 1995 – flood damaged properties on the South Bank 2005 - flood defences were breached, and 23 properties were flooded. 2015 – Storm Desmond caused flooding to 14 properties at Bridge End			
Flood Defences / Alleviation Schemes (if any)			
There is an Environment Agency flood bank and flood wall on the left bank of the river at Hard Haugh. The current standard of protection has been assessed as 1 in 100 year (1%). There is another set of defences just downstream on the left bank, which consists of a flood wall and flood bank, both which have a current standard of protection up to 1:100 year (1%). There is also a flood wall located at Church Room, which has a standard of protection of 1:100 year (1%). On the right bank of the river, there is a flood bank at Burnfoot Wood, which has a standard of protection of 1 in 15 year (6.6%). At West Boat there is a flood standard of protection of 1 in 10 year (10%). At Kingshaw Haugh there is a flood bank that has a standard of protection of 1 in 20 year (5%).			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF909		
Flood Warning	121FWF211		
Severe Flood Warning	N/A		
Risk Assessment			
Likelihood	(1-5)	4	High Risk
Impact - Health	(1-5)	3	
- Social	(1-5)	2	
- Economic	(1-5)	2	
- Environmental	(1-5)	2	
Mean Impact Score (1-5) 2.5			
Additional Information:			
Rest Centre Options (Capacity)	Queen Elizabeth High School, Hexham NE46 3JB (250) Wentworth Leisure Centre (70) Hexham Middle School NE46 1BU (150)		
Command and Control Locations	Bronze Options: Hexham Police or Fire Stn Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident		



Flood Warning Ref Code:	121FWF212	Location:	River South Tyne at Lower Warden	
Description:				
Properties at Baddox Farm. Riverside at Coastley Burnfoot, Ferryman's Cottage, Yew Tree Cottage and the Joiner's Shop				
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure		
5	Refer to Section 2.1.9	Road and Rail bridges in this area		
	Frequency of Flooding	Lead Time		
	1:75 at Warden Riverside	2 hrs.		
Flooding History (if known)				
1955 – 8 properties were flooded 1979 – Coastley Banks Cottage was flooded 11/1984 – Coastley Burnfoot Cottages flooded 1986 – Coastley Burnfoot Cottages flooded 1995 – Flood damaging properties on the South Bank 01/2005 – flood defences were breached and 23 properties were flooded 12/2015 – Storm Desmond caused flooding to 14 properties at Bridge End				
Flood Defences / Alleviation Schemes (if any)				
At Coastley Bankfoot, on the right bank, there is a privately owned flood Bank which has a standard of protection of 1 in 15 years (6.6%). There may be other defences which are not owned by E.A.				
Flood Warning Status	Area(s) at risk (refer to map)			
Flood Alert	121WAF909			
Flood Warning	121FWF212			
Severe Flood Warning	N/A			
Risk Assessment				
Likelihood	(1-5)	1	Low	
Impact	- Health	(1-5) 1		Mean Impact Score (1-5) 1-2
	- Social	(1-5) 1		
	- Economic	(1-5) 1		
	- Environmental	(1-5) 1		

Additional Information:

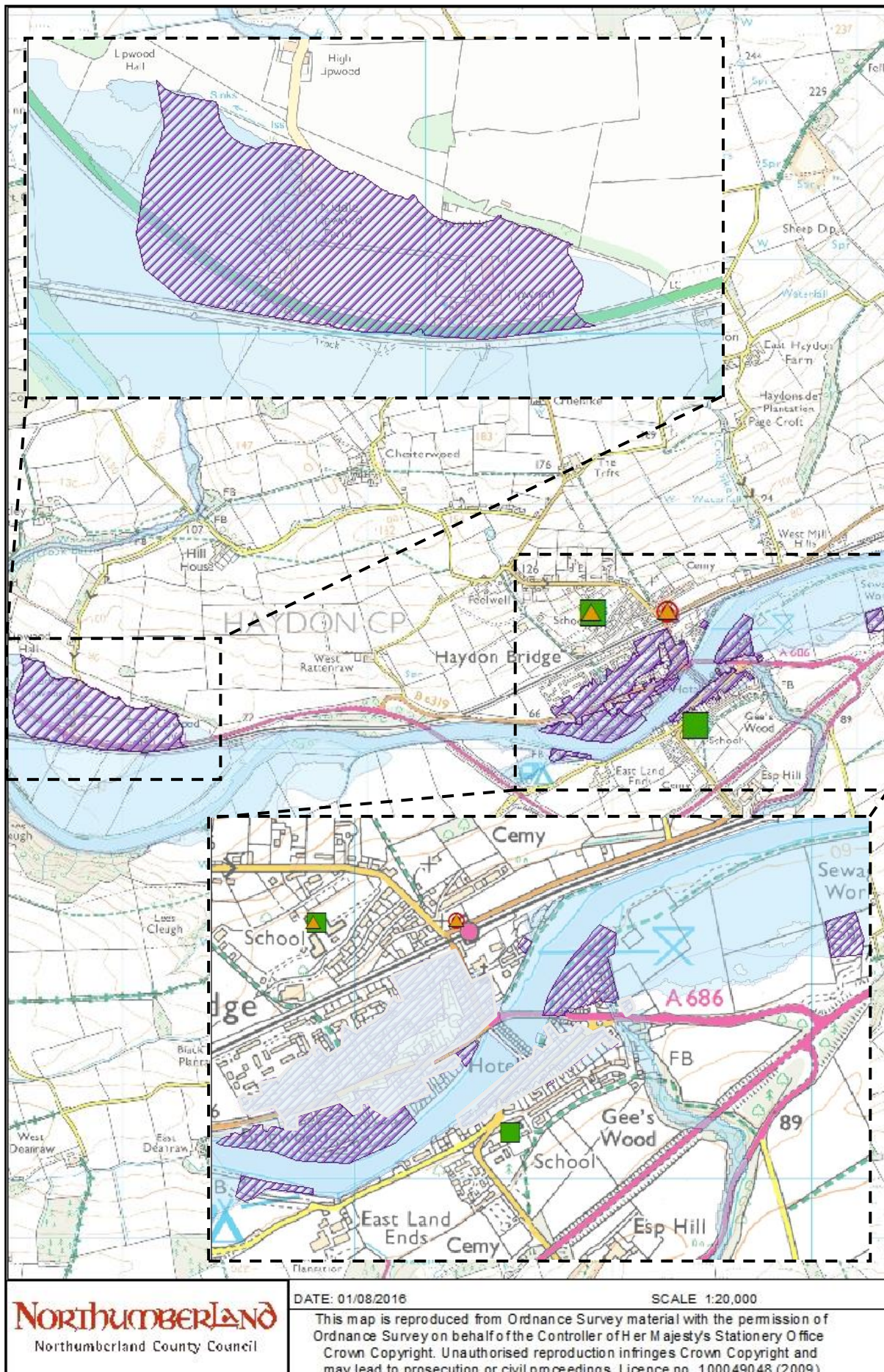
Rest Centre Options (Capacity)	Queen Elizabeth High School, Hexham NE46 3JB (250) Wentworth Leisure Centre (70) Hexham Middle School NE46 1BU (150)
Command and Control Locations	Bronze Options: Hexham Police or Fire Stn Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident



Flood Warning Ref Code:	121FWF235	Location:	River South Tyne at Brigwood, Middle Lipwood, and Temple Houses Haydon Bridge
Description:			
Properties and low-lying around Middle Lipwood Brigwood, Innerhaugh, Innerhaugh Mews, Ratcliffe Road, Martins Close, Rocksprings Cres., Temple Houses, Haydon Bridge Sewerage Works and Poplars Riverside caravan park.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
100	Refer to Section 2.1.9 No Care Homes or Supported Housing Identified	Road Bridge over Tyne	
	Frequency of Flooding	Lead Time	
		2 hrs	
Flooding History (if known)			
1947 - flood waters reached the door of Riverside House, Haydon Bridge. 1975 - 5 properties were flooded. 1995 - 60 properties were flooded. 2001 - 4 properties were flooded. 2005 - 23 properties were flooded. 2015 – 36 properties flooded in Haydon Bridge including at Lipwood Well, Middle Lipwood, Brigwood (The Haughs & The Marton) Riverside Workshop, Martin's Close, Rocksprings Cres and the Football Club. The floodwall (right bank) underneath the A686 road bridge was overtopped at approx. 1500 resulting in the flooding of 5 properties at Rocksprings Cres and 10 at Martins Cl.			
Flood Defences / Alleviation Schemes (if any)			
A series of 4 flood banks, one with stone revetment, are situated on the left bank of the River Tyne at Middle Lipwood with a 1 in 25-year (4%) standard of protection for this location. There is a flood wall on the left bank adjacent to Brigwood with a 1 in 50-year (2%) standard of protection. Downstream, on the right bank near Temple Houses, two flood banks, two walls and an access ramp protect the area to a 1 in 100-year (1%) standard of protection.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF909		
Flood Warning	121FWF235		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5)	4	High Risk
Impact - Health	(1-5)	3	
- Social	(1-5)	3	
- Economic	(1-5)	3	
- Environmental	(1-5)	3	

Additional Information:

Rest Centre Options (Capacity)	Haydon Bridge Com High School & Sports College NE47 9BW (300) Shaftoe Trust Primary NE47 6BN If South of the River is affected use a Rest Centre in Hexham or Haltwhistle
Command and Control Locations	Bronze Options: Haydon Bridge High School Silver: Northumberland Fire and Rescue HQ Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.
Evacuation Route	The Haydon Bridge A69 bypass allows traffic to be diverted away from the flood area. Evacuation of the caravan site would be via the West Lands End Road.
Properties in flood zones	Haydon Bridge Toilets - NE47 6AB

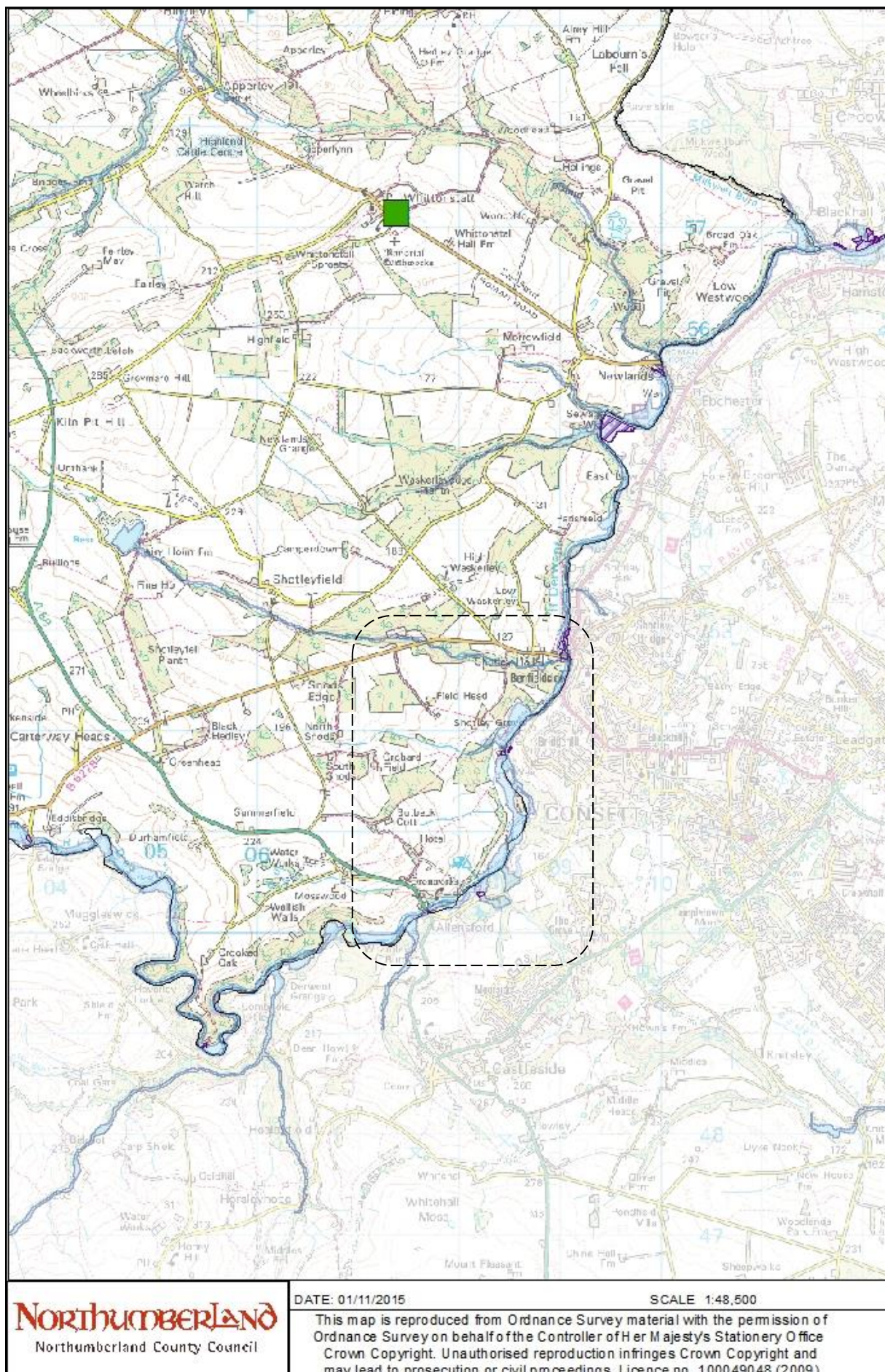


Flood Warning Ref Code:	121FWF236	Location:	South Tyne at Haydon Bridge.
Description:			
Properties and low-lying areas Lane Ends Road, Shaftoe St., John Martin St., Victoria Tce., Ratcliffe Road, Brigwood, Langley Gdns., Greenwich Gdns., Hordley Acres, Strother Close and Church St.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
263	Refer to Section 2.1.9 No Care Homes or Supported Housing Identified	Haydon Bridge Sewage Works	
	Frequency of Flooding	Lead Time	
		2 hrs.	
Flooding History (if known)			
1947, flood waters reached the door of Riverside House, Haydon Bridge. 1995 – flooding to 25 residential and 1 commercial property. 2005 the channel just managed to remain in the bank in this area, however water came up through the drains contributing to the flooding of 23 properties. 2015 – 36 properties flooded in Haydon Bridge including at Lipwood Well, Middle Lipwood, Brigwood (The Haughs & The Marton) Riverside Workshop, Martin’s Close, Rocksprings Crescent and the Football Club. The floodwall (right bank) underneath the A686 road bridge was overtopped at approx. 1500 resulting in the flooding of 5 properties at Rocksprings Crescent and 10 at Martins Close.			
Flood Defences / Alleviation Schemes (if any)			
There are no specific defences for this flood warning area			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF909		
Flood Warning	121FWF236		
Severe Flood Warning	N/A		
Risk Assessment			
Likelihood	(1-5) 4		High Risk
Impact - Health - Social - Economic - Environmental	(1-5) 3	Mean Impact	
	(1-5) 3	Score	
	(1-5) 3	(1-5) 3	
	(1-5) 3		

Additional Information:

Rest Centre Options (Capacity)	Haydon Bridge Com High School & Sports College NE47 6LR (300) Shaftoe First School NE47 6BN (80)
Command and Control Locations	Bronze Options: Haydon Bridge High School Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident
Evacuation Route	The newly opened Haydon Bridge A69 bypass allows traffic to be diverted away from the flood area. Evacuation of the caravan site would be via the West Lands End Road.
NCC Properties in flood zones	Haydon Bridge Toilets - NE47 6AB Former West Mills Landfill- NE47 6JP

Flood Warning Ref Code:	<u>121FWF325</u>	Location:	Rivers Derwent, Team and Don and estuarine tributaries
Description:			
Properties at Eddy's Bridge, Leadmill Bridge, Allensford, Shotley Bridge, Ebchester Bridge, Black Hall Mill, Lintzford Grange and Rowlands Gill.			
FOR NORTHUMBERLAND IT IS JUST THE PROPERTIES ON THE WEST OF THE RIVER DERWENT – BRIDGE ISLAND (23 IN TOTAL)			
CONSIDER MUTUAL AID OPTIONS FROM DURHAM AND GATESHEAD.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
183		N/A	
Please note this flood warning area covers properties in Northumberland (23) , Durham and Gateshead.	Frequency of Flooding	Lead Time	
	1:100 to 1:1000 1.0% to 0.1%	2 hrs.	
Flooding History (if known)			
No flood history recorded			
Flood Defences / Alleviation Schemes (if any)			
No flood defences at this location			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF912		
Flood Warning	121FWF325		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 4	High Risk	
Impact - Health	(1-5) 3 Mean Impact		
- Social	(1-5) 3 Score		
- Economic	(1-5) 3 (1-5) 3		
- Environmental	(1-5) 3		
Rest Centre Options (Capacity)	Whittonstall First School DH8 9JN (60)		
	<u>Rest Centres in Durham:</u> Leadgate Village Hall via County Durham and Darlington CCU.		
Command and Control Locations	Bronze Options: Mobile Operations Support Unit Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of Incident.		
Evacuation Route	B6278 out of the flood zone		





Northumberland
Northumberland County Council

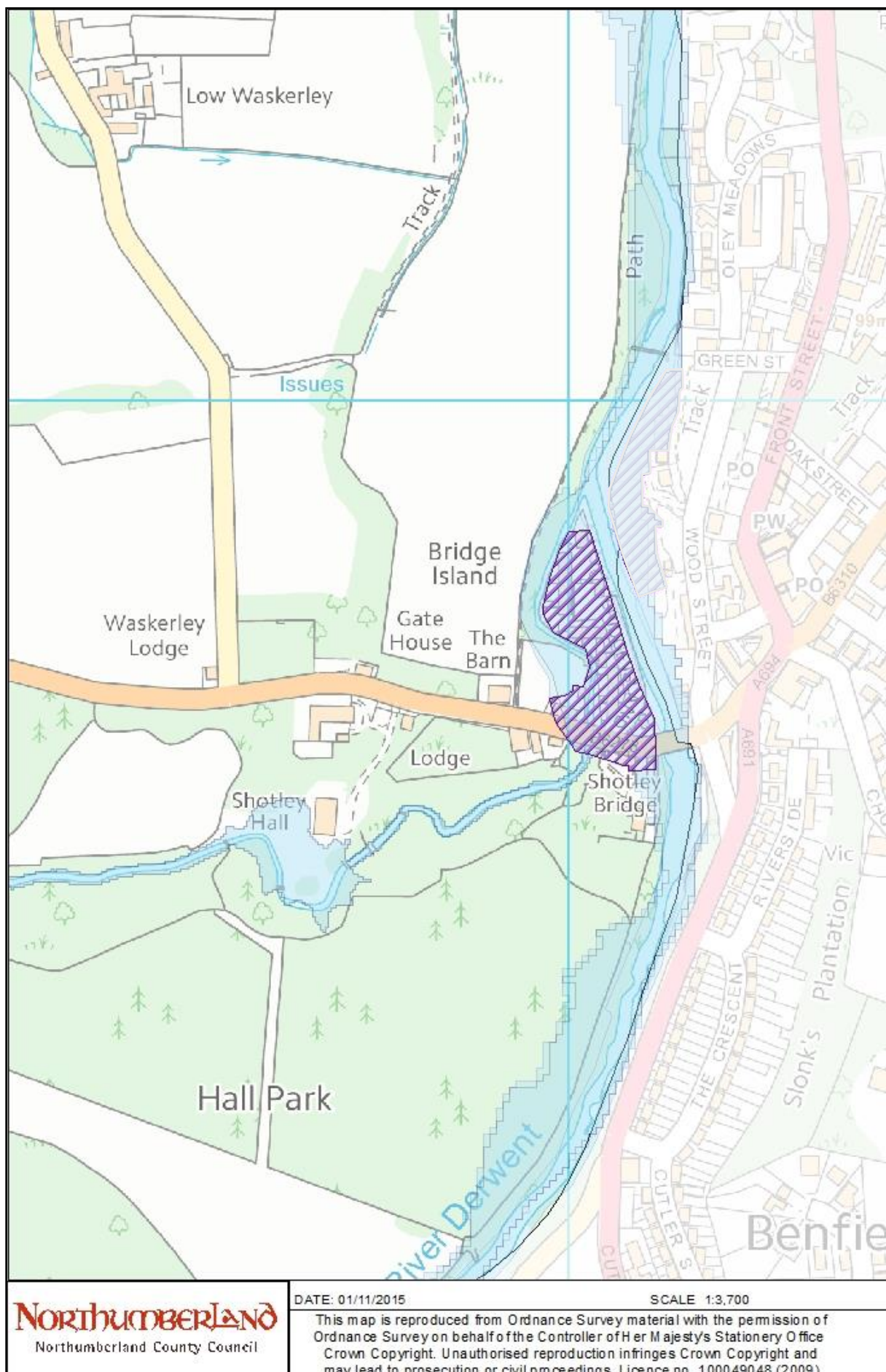
DATE: 01/11/2015

SCALE 1:12,000

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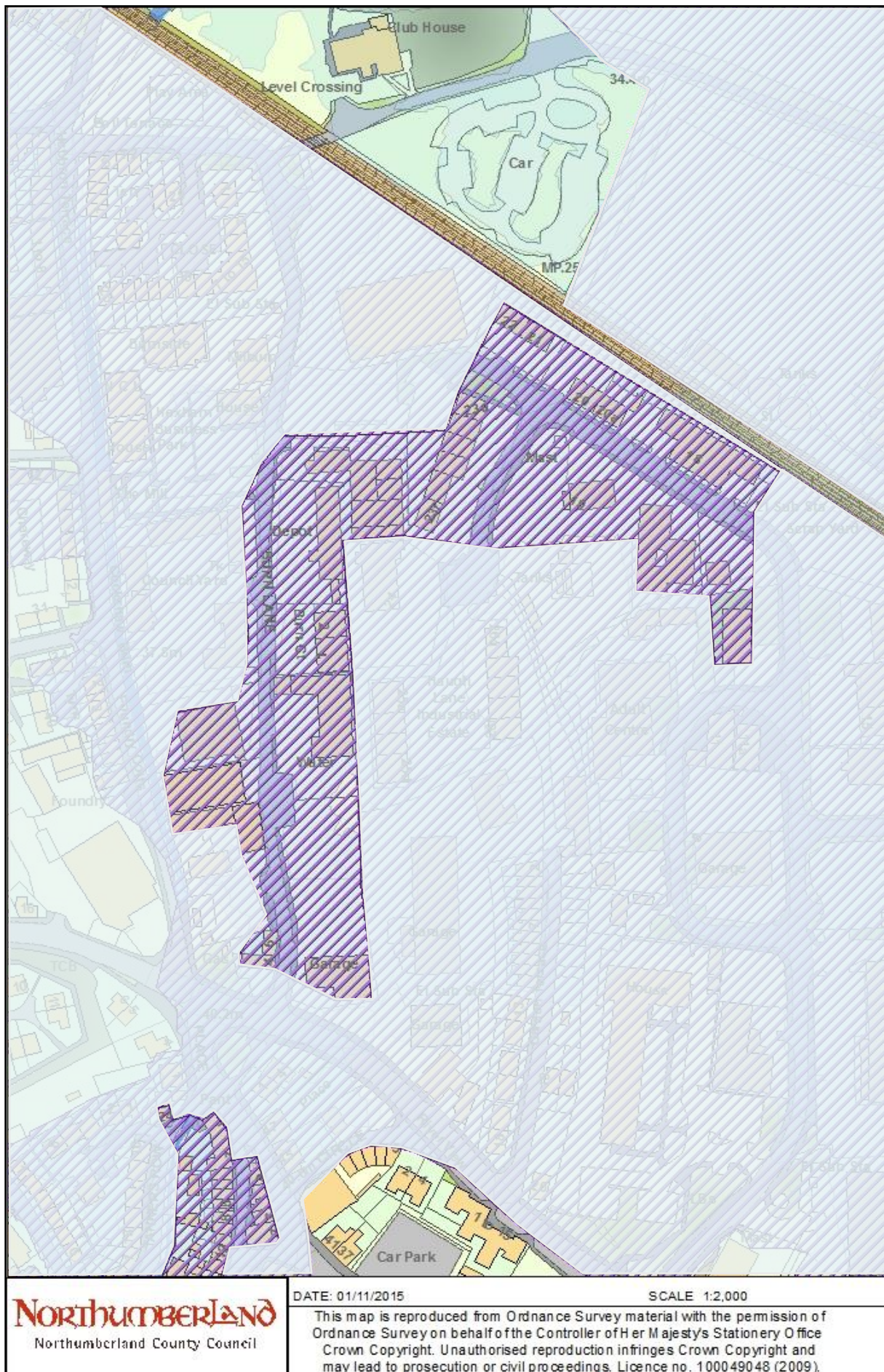
Flood Warning Ref Code:	<u>121FWF323</u>	Location:	River Derwent at Blaydon on Tyne, Rowlands Gill Lintzford and Shotley Bridge
Description:			
Properties and low-lying areas around Wood Street, Farriers Way, Lintzford, Riverside Way, The Copse, Bates Lane, Hexham Road, and the Sands Industrial estate FOR NORTHUMBERLAND IT IS JUST THE PROPERTIES ON THE WEST OF THE RIVER DERWENT AT SHOTLEY BRIDGE – BRIDGE ISLAND (23 IN TOTAL) CONSIDER MUTUAL AID OPTIONS FROM DURHAM AND GATESHEAD.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
77	Refer to Section 2.1.9		
	Frequency of Flooding	Lead Time	
	1:200 to 1:1000 (0.5 to 0.1%)	2 hrs	
Flooding History (if known)			
No recorded flood history			
Flood Defences / Alleviation Schemes (if any)			
No E.A. Flood defences			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF912		
Flood Warning	121FWF323		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5)	High	
Impact - Health - Social - Economic - Environmental			



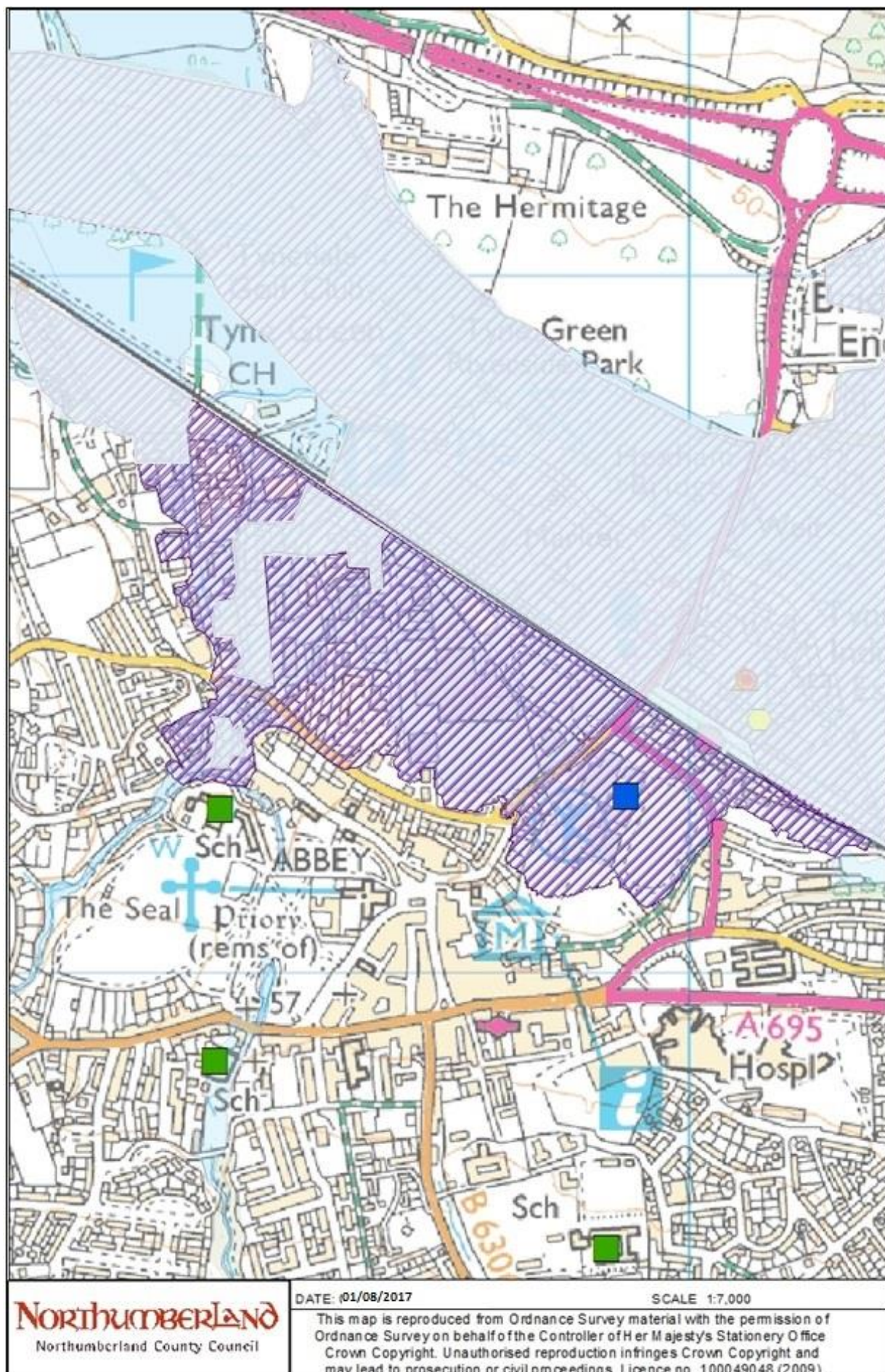
Flood Warning Ref Code:	121FWF199	Location:	Cockshaw Burn at Hexham	
Description:				
Properties around Holy Island, Glovers Place, Giles Place and Wilkinson Place				
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure		
47	Refer to Section 2.1.9	N/A		
	Frequency of Flooding	Lead Time		
	No assessment available	2 hrs		
Flooding History (if known)				
No flood history recorded				
Flood Defences / Alleviation Schemes (if any)				
At Tanners Row a series of defences, including Tanners Row Screen situated on both banks, two flood walls on the left bank, two flood walls on the right bank and a flood gate on the left bank, defend the properties to a 1 in 200-year (0.5%) standard of protection. At Foundry Cott's. there is a flood wall on the left bank with a1:200-year (0.5%) standard of protection.				
Flood Warning Status Area(s) at risk (refer to map)				
Flood Alert	121WAF910			
Flood Warning	121FWF199			
Severe Flood Warning	yes			
Risk Assessment				
Likelihood	(1-5)		No risk assessment available as E.A. have not provided probability figures.	
Impact <ul style="list-style-type: none">- Health- Social- Economic- Environmental	(1-5)	Mean Impact Score (1-5)		
	(1-5)			3
	(1-5)			
	(1-5)			

Additional Information:

Rest Centre Options (Capacity)	Wentworth Leisure Centre NE46 3PD (590) Queen Elizabeth High School NE46 3BJ (250) Hexham Middle School (150)
Command and Control Locations	Bronze: Hexham Police or Fire Stations Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland

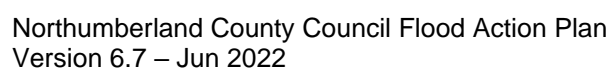


Flood Warning Ref Code:	121FWF201	Location:	Cockshaw Burn at Upper Hexham	
Description:				
Properties in northern Hexham including commercial properties at Gartan Ter, Hebron Ter, Ridley Ter, Garland Pl, Glovers Pl, Wilkinson Pl, Albion Ter, Chareway, Gilesgate, Tyne Green Rd, Railway Cottages, Tyne Court, Giles Place, Burn Lane, Haugh Lane Ind Est and Wentworth Park.				
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure		
219	Refer to Section 2.1.9	Electrical Sub Stns Telecommunications Council Depot Burn Lane		
	Frequency of Flooding	Lead Time		
	1:200 (0.5%)	2 hrs.		
Flooding History (if known)				
1979 - Cockshaw burn overflowed flooding Haugh Lane. 1986 - Floods damaged properties in Hexham 1993 - Very serious flooding of low-lying quarter of Hexham from the Cockshaw and Halgut Burns including Haugh Lane Industrial Estate. 1994 - Flooding from Halgut Burn at Tanners Yard. 1995 - Extensive flooding in Hexham (Tanners Row and Foundry Lane) due to overflowing of the Cockshaw Burn. 2000 - Flooding from Cockshaw Burn at Tanners Row this flowed into Haugh Lane Industrial Estate. No serious damage. 2005 - 3 properties were flooded at Kingshaw Haugh and 11 at Hexham Tyne Mills				
Flood Defences / Alleviation Schemes (if any)				
At Tanners Row a series of defences, including Tanners Row Screen situated on both banks, two flood walls on left bank, two flood walls on right bank and a flood gate on left bank, defend the properties to a 1 in 200-year (0.5%) standard of protection. At Foundry Cotts there is a flood wall on the left bank with a 1 in 200-year (0.5%) standard of protection. Further downstream there are flood walls adjacent to Cockshaw Terrace on both banks of the burn with a 1:200-year (0.5%) standard of protection. There is also a culverted flood relief channel which flows under Burn Lane with a 1:200-year (0.5%) standard of protection.				
Flood Warning Status Area(s) at risk (refer to map)				
Flood Alert	121WAF910			
Flood Warning	121FWF201			
Severe Flood Warning	yes			
Risk Assessment				
Likelihood	(1-5) 3	Very High Risk		
Impact - Health	(1-5) 4			Mean Impact Score (1-5) 3.5
- Social	(1-5) 4			
- Economic	(1-5) 4			
- Environmental	(1-5) 2			
Rest Centre Options (Capacity)		Queen Elizabeth High School NE46 3BJ (250) Wentworth Leisure Centre (70) Hexham Middle School (150)		
Command and Control Locations		Bronze Options: Hexham Police or Fire Stn Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed at time of incident.		
NCC Properties in flood zone		Hexham Waste Transfer Station – NE46 4JN Wentworth Leisure Centre- NE46 3PD Tyne Green Car Park- NE46 3SG Tyne Green Toilets - NE46 3SG Tyne Mills Offices - NE46 1XL Tyne Mills Vehicle Workshop - NE46 1XL Tyne Mills (land) NE46 1 XL Tyne Mills Public Car Park NE46 1XL		



Flood Warning Ref Code:	<u>121FWF203</u>	Location:	River Tyne at Tyne Green Hexham	
Description:				
Properties around Tyne Green, Railway Cottages, Spittal Cottages, Nursery Cottages and Riverside Leisure Caravan Site				
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure		
26	Refer to Section 2.1.9	N/A		
	Frequency of Flooding	Lead Time		
	1:200 (0.5%)	2 hrs.		
Flooding History (if known)				
No Flood History Recorded				
Flood Defences / Alleviation Schemes (if any)				
In August 2018 a FAS was completed at Tyne Green. This is a flood bank with a 1:200-year standard of protection. This scheme was uniquely funded as residents affected by Desmond 2015 pooled together grants for PLP and used them to fund the scheme.				
Flood Warning Status Area(s) at risk (refer to map)				
Flood Alert	121WAF910			
Flood Warning	121FWF203			
Severe Flood Warning	Yes			
Risk Assessment				
Likelihood	(1-5) 3	Medium		
Impact - Health	(1-5) 2			Mean Impact Score (1-5) 3.0
- Social	(1-5) 2			
- Economic	(1-5) 1			
- Environmental	(1-5) 1			
Rest Centre Options (Capacity)		Queen Elizabeth High School NE46 3BJ (250) Wentworth Leisure Centre (70) Hexham Middle School (150)		
Command and Control Locations		Bronze Options: Hexham Police or Fire Stn Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed at time of incident.		
NCC Properties in flood zone		N/A		

Flood Warning Ref Code:	<u>121FWF205</u>	Location:	River Tyne at Cockshaw Burn at Tyne Green Mews Hexham
Description:			
Properties around Tyne Green Mews.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
12	Refer to Section 2.1.9	N/A	
	Frequency of Flooding	Lead Time	
	1:200 (0.5%)	2 hrs.	
Flooding History (if known)			
No Flood History Recorded			
Flood Defences / Alleviation Schemes (if any)			
At Tanners Row a series of defences, including Tanners Row Screen situated on both banks, two flood walls on left bank, two flood walls on right bank and a flood gate on left bank, defend the properties to a 1 in 200-year (0.5%) standard of protection. At Foundry Cotts there is a flood wall on the left bank with a 1 in 200-year (0.5%) standard of protection. Further downstream there are flood walls adjacent to Cockshaw Terrace on both banks of the burn with a 1:200-year (0.5%) standard of protection. There is also a culverted flood relief channel which flows under Burn Lane with a 1:200-year (0.5%) standard of protection. There may be other defences which are not owned or operated by us. These are not listed in this section. In August 2018 a FAS was completed at Tyne Green. This is a flood bank with a 1:200-year standard of protection. This scheme was uniquely funded as residents affected by Desmond 2015 pooled together grants for PLP and used them to fund the scheme.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF910		
Flood Warning	121FWF205		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 3	Medium	
Impact - Health	(1-5) 2		
- Social	(1-5) 2		
- Economic	(1-5) 1		
- Environmental	(1-5) 1		
Rest Centre Options (Capacity)		Queen Elizabeth High School NE46 3BJ (250) Wentworth Leisure Centre (70) Hexham Middle School (150)	
Command and Control Locations		Bronze Options: Hexham Police or Fire Stn Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed at time of incident.	
NCC Properties in flood zone		N/A	

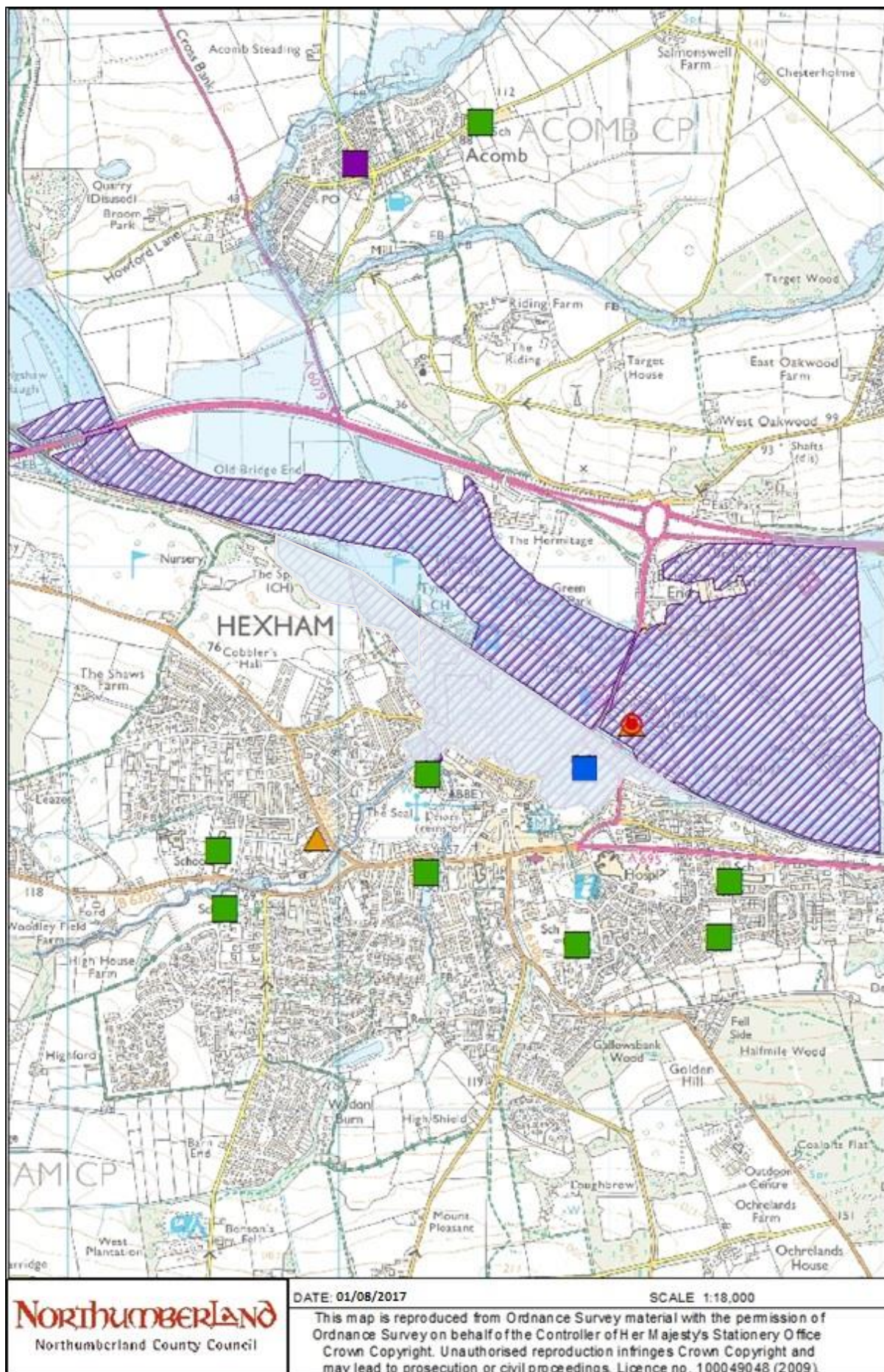


Flood Warning Ref Code:	121FWF213	Location:	River Tyne at Hexham
Description:			
Properties situated near the Hermitage and Kingshaw Green, Tyne Green, Tyne Mills, Ferry Road, Bridge End and Anick Road.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
88	Refer to Section 2.1.9	Fire Station Electrical Sub Stns Gas Governors Sewage works	
	Frequency of Flooding	Lead Time	
	1:20 At Tyne Green and Foundry Industrial (5%) 1:30 At Kingshaw Haugh (3.3%)	2hrs	
Flooding History (if known)			
1955 – Flooding occurred but no detailed record available 1995 - 10 residential properties and 2 commercial properties were flooded. 2005 - 20 commercial properties were flooded as well as 11 properties at Tyne Mills and Anick Grange Haugh. 3 properties were flooded at Kingshaw Haugh 2015 – Storm Desmond caused widespread flooding to over 30 properties at Tyne Green, Tyne Mills Industrial Estate and Bridge End Industrial Estate			
Flood Defences / Alleviation Schemes (if any)			
There is an Environment Agency flood bank situated on the right bank, adjacent to Kingshaw Haugh, its current standard of protection has been assessed as 1 in 25 year (4%). Further downstream at Hexham, there are two flood banks on the left bank, just down steam of Bridge End, the current standard of protection has been assessed as 1 in 100 year (1%). Continuing along the left bank, these flood banks tie in with another 3 banks, one upstream of the sewage works, one at the sewage works and one at Anick Grange Haugh. The current standard of protection for these has been assessed as 1 in 100 year (1%), 1 in 75 year (1.3%) and 1 in 25 year (4%) respectively.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF910		
Flood Warning	121FWF213		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5)	4	Very High Risk
Impact	(1-5)	3	
- Health	(1-5)	3	
- Social	(1-5)	4	
- Economic	(1-5)	4	
- Environmental	(1-5)	4	
		Mean Impact Score	
		(1-5)	3.5

Continued overleaf....

Rest Centre Options (Capacity)	The Sele First School NE46 3QZ (90) St Mary RC Vol Aided First School NE46 2EE (200) Queen Elizabeth High School NE46 3JB (250) Wentworth Leisure Centre (70) Hexham Middle School NE46 1BU (150)
Command and Control Locations	Bronze Options: Hexham Police or Fire Stn Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident
Evacuation Route	In the event of an Extreme Flood the evacuation of Hexham would be via the A695 to the A68 or to the west by the B6531 to the A69.
NCC properties in flood zones	7308- Tynedale Centre, 7226- St Mathews House, 7707- Hexham Fire Station, 5631- Tyne Mills Vehicle Workshops, 9226- Hexham Highways Depot, 7635- Hexham Library Garage, 5639- Tyne Mills Offices Hexham Waste Transfer Station – NE46 4JN Wentworth Leisure Centre- NE46 3PD Tyne Green Car Park- NE46 3SG Tyne Green Toilets - NE46 3SG Haugh Lane Industrial Estate - NE463QJ Hackwood Park (land) NE46 1AZ Canoe Store- NE46 3HF Tynedale Centre - NE46 3LF Hexham Library Garage- NE46 1XJ Hexham Fire Station - NE46 1XJ

Please note that Hexham has a Rapid Response Catchment area.



Flood Warning Ref Code:	121FWF221	Location:	River Tyne at Wellbank Riverside, Corbridge
Description:			
Low-lying areas around Wellbank and St. Andrews Terrace.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
5	Refer to Section 2.1.9	N/A	
	Frequency of Flooding	Lead Time	
	1:10 (10%)	2hrs	
Flooding History (if known)			
1995 - 10 residential properties and 2 commercial properties were flooded. 2005 - 37 properties were flooded, 4 of these were in Wellbank (this is believed to be a 1:5-year event). 2015 – 5 properties at Wellbank Riverside flooded during Storm Desmond			
Flood Defences / Alleviation Schemes (if any)			
There are no defence systems in this area however the E.A. is responsible for maintenance of the channel.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF910		
Flood Warning	121FWF221		
Severe Flood Warning	N/A		
Risk Assessment			
Likelihood	(1-5) 5		Medium Risk
Impact - Health - Social - Economic - Environmental	(1-5) 2	Mean Impact	
	(1-5) 3	Score	
	(1-5) 1	(1-5) 1.75	
	(1-5) 1		

Additional Information:

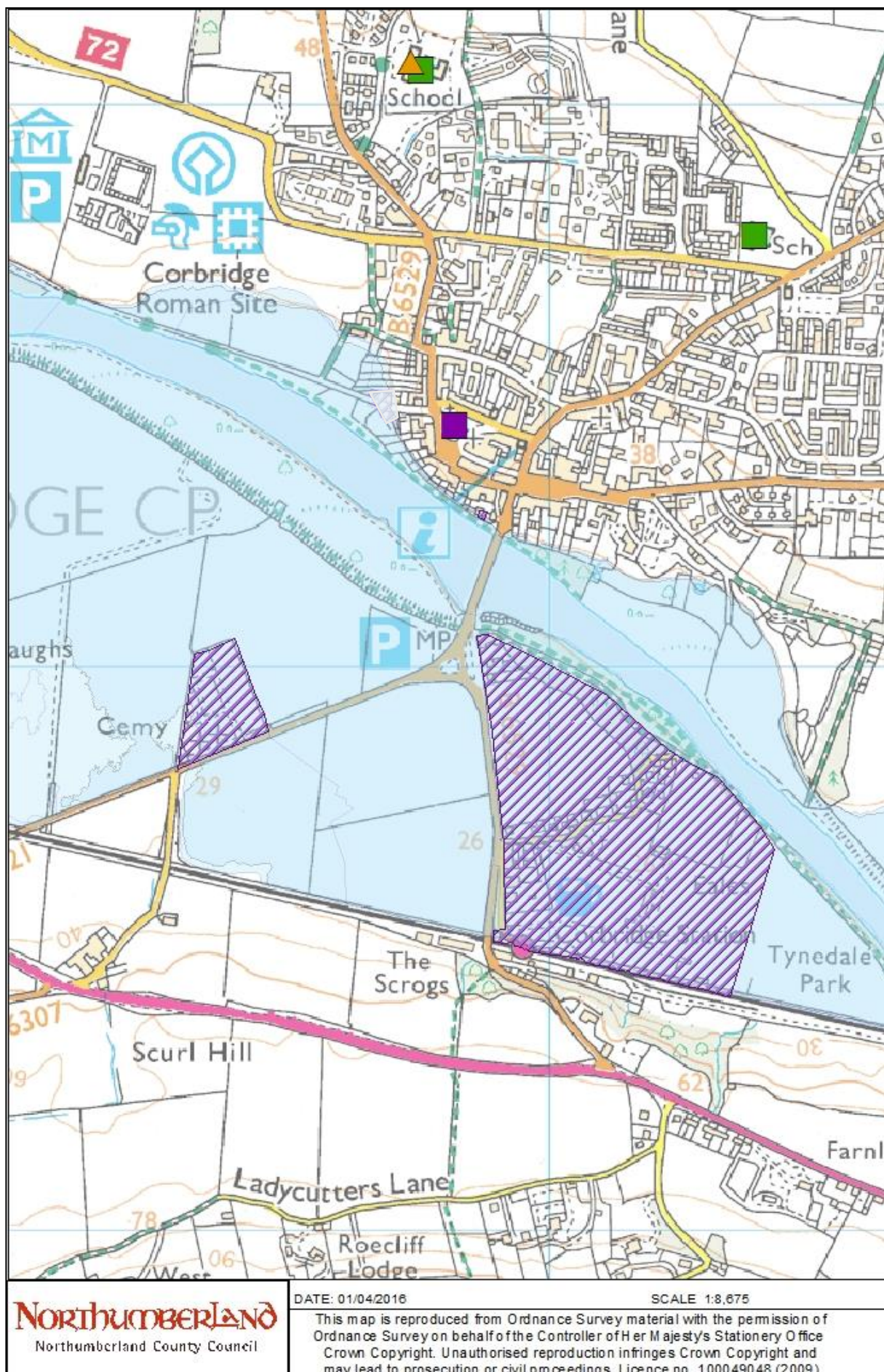
Rest Centre Options (Capacity)	Corbridge Middle School NE45 5HX (300) St Andrews Church Hall NE45 5AA
Command and Control Locations	Bronze Options: Corbridge Middle School Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up Location to be confirmed by Police at time of incident.
NCC Properties in flood zones	Corbridge Car Park - NE45 3QF



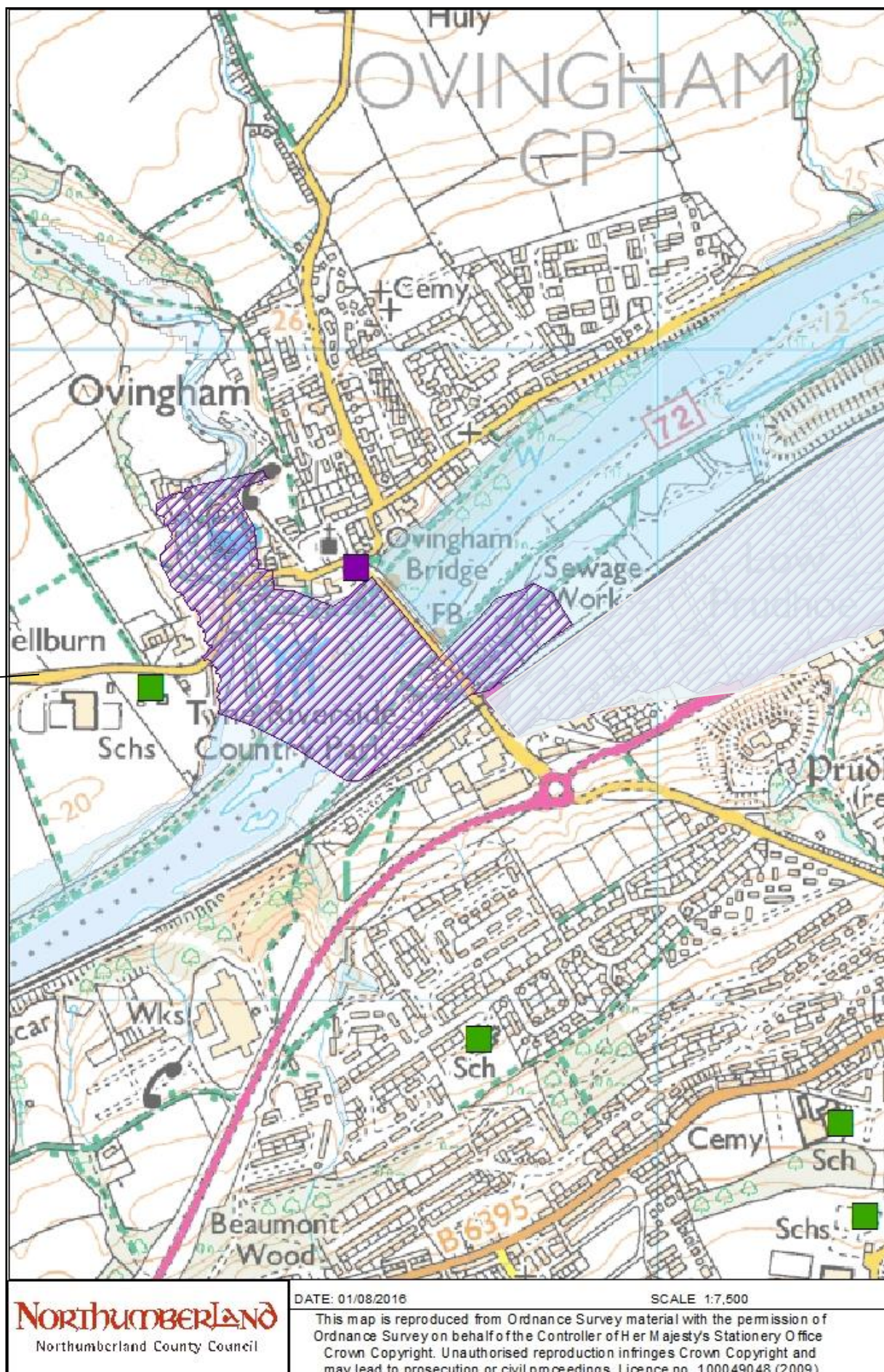
Flood Warning Ref Code:	121FWF237	Location:	River Tyne at Corbridge
Description:			
Properties around The Stanners, Station Road, Little Croft, Cemetery Lodge, Corbridge Mill and The Willows			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
52	Refer to Section 2.1.9 No Care Homes or Supported Housing Identified	N/A	
	Frequency of Flooding	Lead Time	
	1:75 (1.3%)	2 hrs	
Flooding History (if known)			
1963 - 5 properties were flooded at the Stanners, (Station Road is also liable to flooding). 1992 - fields around Station Road were saturated. 1995 - 23 properties were flooded. 2005 - 32 properties were flooded due to breaches and overtopping of the defences and have since been reinstated and strengthened. 2015 – 70 properties flooded during Storm Desmond			
Flood Defences / Alleviation Schemes (if any)			
There are a series of E.A. flood walls and banks located on the right bank of the River Tyne to protect the properties from Dilston Haugh downstream to Tynedale Park, including Station Road, Little Croft, The Stanners, the Pavilion and Sports Ground built to a 1:75-year (1.5%) standard of protection at South Bank and The Stanners. The section of flood wall from Corbridge Bridge (adjacent to The Stanners) downstream of the Pavilion has been refurbished in 2014/15.			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF910		
Flood Warning	121FWF237		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5)	4	High Risk
Impact	- Health	(1-5) 3	
	- Social	(1-5) 3	
	- Economic	(1-5) 2	
	- Environmental	(1-5) 2	
Mean Impact Score		(1-5) 2.5	

Additional Information:

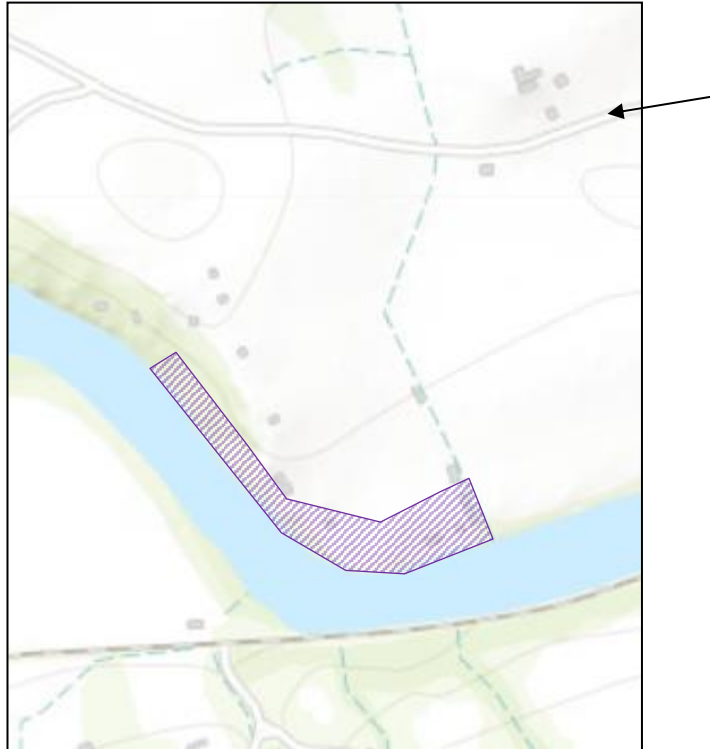
Rest Centre Options (Capacity)	Corbridge Middle School NE45 5HX (300) Corbridge St Andrews Church Hall NE45 5AA If bridge cut off look at Hexham options
Command and Control Locations	Bronze Options: Corbridge Middle School Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of Incident.
Evacuation Route	Evacuation via B6321 (North) into Corbridge or by the B6321 Corbridge Road joining the A695 Hexham to Prudhoe Road at Dilston also the B6529 Tinkers Bank Road which also leads onto A695 Hexham to Prudhoe Road.
NCC Property in flood zone	Corbridge Car Park - NE45 3QF



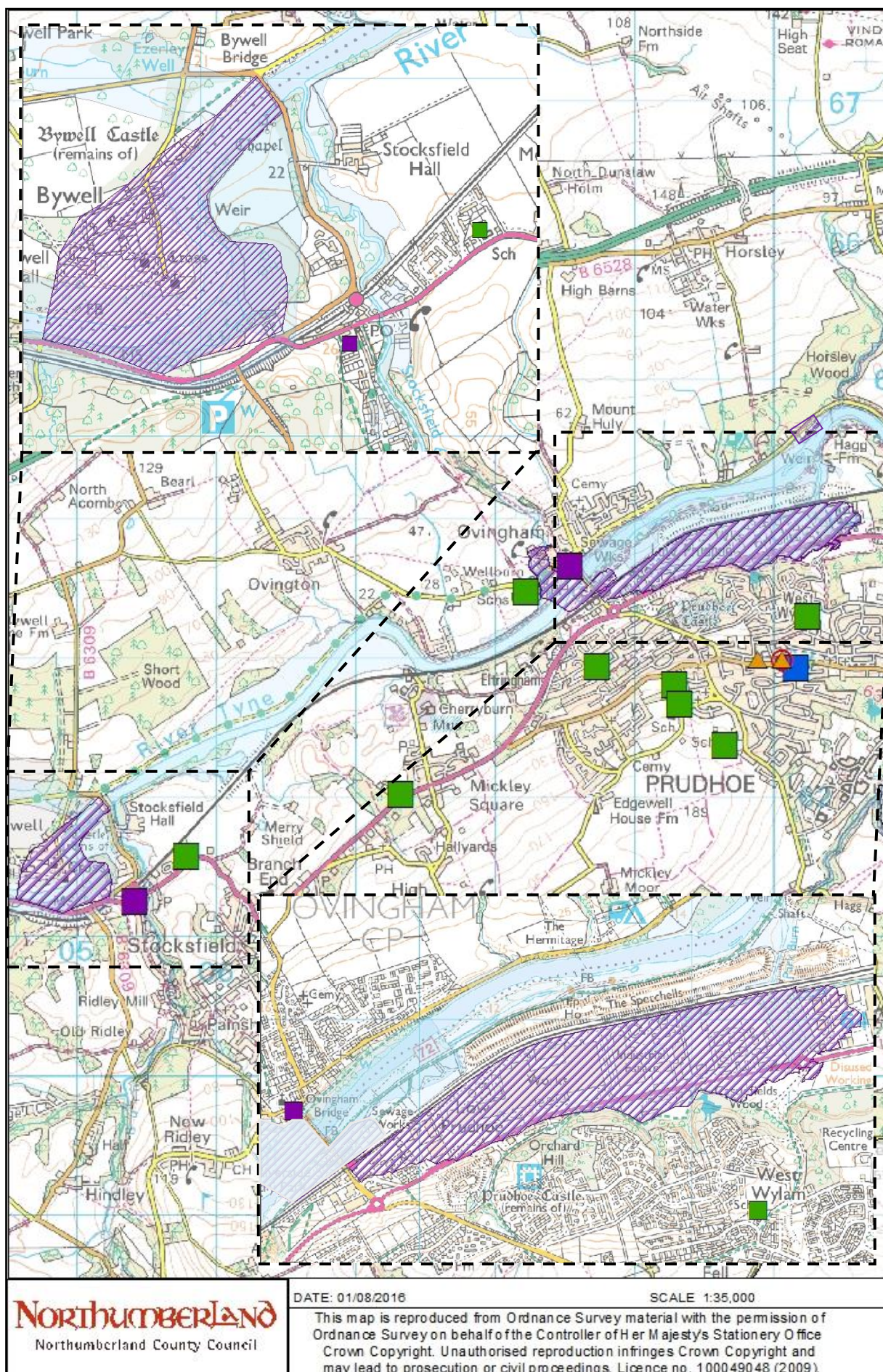
Flood Warning Ref Code:	121FWF305	Location:	River Tyne at Ovingham and Ferry Landing
Description:			
Properties and low lying areas around Ferry Landing, Ovingham and Tyne Riverside Country Park including The Old School House, Burnside Close, Bleach Green Farm Cottage, Dene House, The Bridge End Inn, Greenhaugh House and Tyne House			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
22	Refer to Section 2.1.9 No Care Homes or Supported Housing Identified	Prudhoe Railway Station Holiday Chalets	
	Frequency of Flooding	Lead Time	
	1:20 at Ovingham (5%)	2 hrs.	
Flooding History (if known)			
<p>The worst flood was in 1954 when Ovingham School was closed for one week.</p> <p>1995 – 5 properties were flooded in Ovingham.</p> <p>2005 - 4 properties at Ovingham were affected by backing up of the Tributary Whittle Burn and further properties were inundated at low Prudhoe.</p> <p>2008 - 8 residential properties flooded as a result of channel capacity being exceeded on the Whittle Burn and blockage to culvert.</p> <p>2015 – Flooding to properties at Ovingham due to high river levels and backing up of Whittle Burn</p>			
Flood Defences / Alleviation Schemes (if any)			
There is an Environment Agency flood bank downstream of Ovingham Bridge on the right bank, adjacent to the Station. Its current standard of protection has been assessed as 1 in 100 year (1%). There is also a flood bank on the right bank, north west of the Haughs at the pumping station. Its current standard of protection has been assessed as 1 in 25 year (4%).			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF910		
Flood Warning	121FWF305		
Severe Flood Warning	N/A		
Risk Assessment			
Likelihood	(1-5) 4	High Risk	
Impact - Health - Social - Economic - Environmental	(1-5) 3 Mean Impact		
	(1-5) 3 Score		
	(1-5) 4 (1-5) 2.5		
	(1-5) 3		
Rest Centre Options (Capacity)		Ovingham C of E First. NE42 6DE (100) Prudhoe Castle First School. NE42 6 PH (150) Prudhoe Community High School NE42 5LJ (400) Prudhoe West First School. NE42 6HR (110) Prudhoe Highfield Middle School NE42 6EY (240)	
Command and Control Locations		Bronze Options: Prudhoe Fire Stn Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident	
Evacuation Route		Closure of minor roads at West Road Ovingham to Coal Lane also Castle View to Wylam Road. Evacuation of Ovingham would be via Ovingham Bridge to Prudhoe via the A695, and the north evacuation route via Horsley Road which joins the A69 at Horsley.	
NCC property in the flood zone		7637- Wylam Library (CCT file G63)	



Ovingham Ferry Landing



Flood Warning Ref Code:	121FWF306	Location:	River Tyne at Bywell and Low Prudhoe
Description:			
Properties at East and West Cottages, Bywell, Low Prudhoe Industrial Estate including castle Lea, Princess way, Dukes Way, Dukes Court, Earls Court and Regents Drive.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
99	Refer to Section 2.1.9 No Care Homes or Supported Housing Identified	Sewage works within extreme flood outline Council Yard Ovingham School Holiday Chalets	
	Frequency of Flooding	Lead Time	
	1:25 at Bywell (4%) 1:30 at Prudhoe (3.3%)	2 hrs	
Flooding History (if known)			
1985 and 1991 Roads flooded in Bywell. 1995 - 10 residential properties and 2 commercial properties flooded in Bywell. 2005 - 18 holiday chalets were flooded. 12/2015 – Flooding to properties at Bywell and Low Prudhoe Industrial Estate. Highest ever recorded river levels			
Flood Defences / Alleviation Schemes (if any)			
The is an Environment Agency flood bank down stream of Ovingham Bridge on the right bank, adjacent to the Station. Its current standard of protection has been assessed as 1 in 100 year (1%).			
Flood Warning Status Area(s) at risk (refer to map)			
Flood Alert	121WAF910		
Flood Warning	121FWF306		
Severe Flood Warning	yes		
Risk Assessment			
Likelihood	(1-5) 4	Very High Risk	
Impact - Health	(1-5) 2		
- Social	(1-5) 3		
- Economic	(1-5) 3		
- Environmental	(1-5) 4		
Rest Centre Options (Capacity)		Broomley First School NE437 NN (160) Stocksfield Community centre NE42 7AR Prudhoe Community High School NE42 5LJ (400) Prudhoe Highfield Middle School NE42 6EY (240) Prudhoe West First School NE432 6HR	
Command and Control Locations		Bronze Options: Prudhoe Fire Stn Silver: Northumberland Fire and Rescue HQ West Hartford Gold: Northumbria Police HQ, Ponteland. Back-up location to be confirmed by Police at time of incident.	
Evacuation Route		Road closure from Styford Bridge, Low Shilford to Peepy Road junction. Also from Bywell Bridge to the Alders. Traffic to use the B6309 North.	
NCC Properties in Flood Zones		Castle Lea (land) NE426NH Bay View (land) NE65 0AZ Radsley Court Community Centre- NE65 7UY Bay View (land) - NE65 7SE	



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Appendix 1- Northumberland Flood Action Plan Risk Assessment Scoring Matrix

Likelihood Scores:

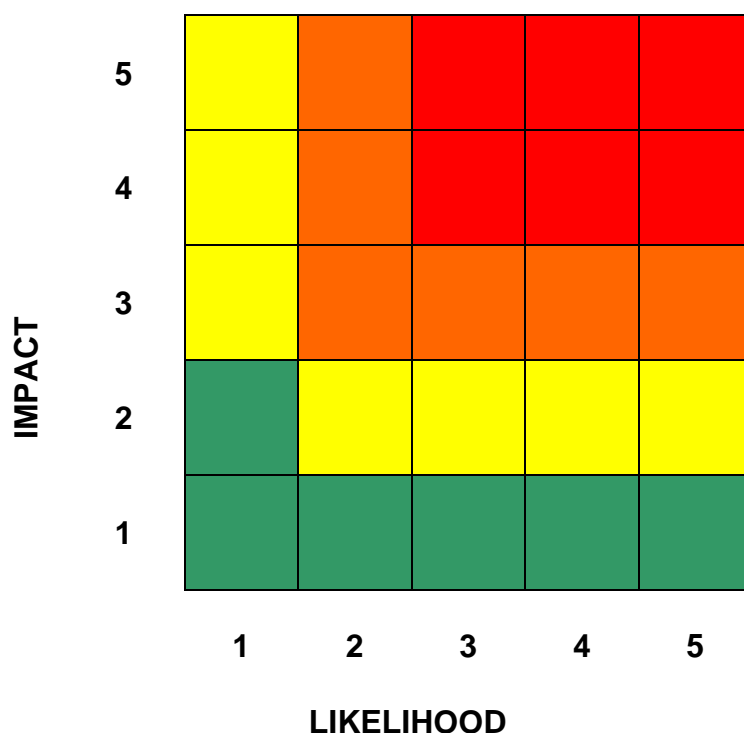
Use the following table to identify a likelihood score for each flood warning area in the Northumberland area.

Definition	Likelihood of circumstances	Indicator	Score
Low	>0.005%	>1 in 20,000 chance	1
Medium Low	>0.05%	> 1 in 2,000 chance	2
Medium	>0.5%	> 1 in 200 chance	3
Medium High	>5%	> 1 in 20 chance	4
High	>50%	> 1 in 2 chance	5

Impact Scores: The following should be used in order to generate an impact score for the Flood Warning areas in Northumberland.

Impact Score ↓	Health	Social	Economic	Environmental
1 Insignificant	<ul style="list-style-type: none"> Insignificant number of injuries or impact on health 	<ul style="list-style-type: none"> Insignificant number of persons displaced and insignificant personal support required Insignificant disruption to community services, including transport services and infrastructure 	<ul style="list-style-type: none"> Insignificant impact on local economy 	<ul style="list-style-type: none"> Insignificant impact on environment
2 Minor	<ul style="list-style-type: none"> Small number of people affected, no fatalities, and small number of minor injuries with first aid treatment 	<ul style="list-style-type: none"> Minor damage to properties Minor displacement of a small number of people for < 24 hours and minor personal support required Minor localised disruption to community services or infrastructure < 24 hours 	<ul style="list-style-type: none"> Negligible impact on local economy and cost easily absorbed 	<ul style="list-style-type: none"> Minor impact on environment with no lasting effects
3 Moderate	<ul style="list-style-type: none"> Moderate number of fatalities with some casualties requiring hospitalisation and medical treatment and activation of MAJAX, the automated intelligent alert notification system, procedures in one or more hospitals 	<ul style="list-style-type: none"> Damage that is confined to a specific location, or to a number of locations, but requires additional resources Localised displacement of >100 people for 1–3 days Localised disruption to infrastructure and community services 	<ul style="list-style-type: none"> Limited impact on local economy with some short-term loss of production, with possible additional clean-up costs 	<ul style="list-style-type: none"> Limited impact on environment with short-term or long-term effects
4 Significant	<ul style="list-style-type: none"> Significant number of people in affected area impacted with multiple fatalities, multiple serious or extensive injuries, significant hospitalisation and activation of MAJAX procedures across a number of hospitals 	<ul style="list-style-type: none"> Significant damage that requires support for local responders with external resources 100 to 500 people in danger and displaced for longer than 1 week. Local responders require external resources to deliver personal support Significant impact on and possible breakdown of delivery of some local community service 	<ul style="list-style-type: none"> Significant impact on local economy with medium-term loss of production Significant extra clean-up and recovery costs 	<ul style="list-style-type: none"> Significant impact on environment with medium- to long-term effects
5 Catastrophic	<ul style="list-style-type: none"> Very large numbers of people in affected area(s) impacted with significant numbers of fatalities, large number of people requiring hospitalisation with serious injuries with longer-term effects 	<ul style="list-style-type: none"> Extensive damage to properties and built environment in affected area requiring major demolition • General and widespread displacement of more than 500 people for prolonged duration and extensive personal support required • Serious damage to infrastructure causing significant disruption to, or loss of, key services for prolonged period. Community unable to function without significant support 	<ul style="list-style-type: none"> Serious impact on local and regional economy with some long-term, potentially permanent, loss of production with some structural change Extensive clean-up and recovery costs 	<ul style="list-style-type: none"> Serious long-term impact on environment and/or permanent damage

Risk Matrix:



Key

	Very High Risk	High frequency of return period (<1 in 10years), very high number of properties (>100) and infrastructure at risk. Very high likelihood of flooding with potential risk to life.
	High Risk	High frequency of return period (<1 in 25 years), high number of properties (>50) and infrastructure at risk. High likelihood of flooding with potential risk to life.
	Medium Risk	Low to medium frequency of return period (<1 in 100 years), medium risk to property (>15) and infrastructure at risk. There is a potential for the flood to occur but is likely not to risk to life.
	Low Risk	Low to medium frequency of return period. (>1 in 100 years), minimal risk to property (<15) and infrastructure. There is potential for the flood to occur but is not risk to life.

Appendix 2- Sandbags

The County Council do not provide sandbags direct to any residents in the event of flooding. Residents in known flood risk areas are encouraged to make their own arrangements for protecting their properties against threat of flood water ingress including purchase of sandbags if appropriate.

However if residents feel that their property is in danger of water ingress and they do not have suitable protection then they should phone the emergency number on 0345 600 6400 with their details. The Council will arrange for the area to be inspected at the earliest opportunity. Upon inspection, if water ingress is imminent, then a decision will be made by the inspector to arrange for sandbags to be deployed.

It is important to stress whilst every effort is made to ensure that water ingress is avoided, we must also ensure that our resources are carefully utilised and only where immediate water ingress to properties is verified will sandbags be deployed

Environment Agency website also offers useful tips for home and business owners to protect their premises. www.environment-agency.gov.uk

Appendix 3 - Rapid Response Catchments

Catchments	No. Properties	River Name	Associated to a current Flood Warning?	Category	Community Flood Plan
Acomb	83	Red Burn	No	High	Yes
Bellingham	tbc	North Tyne / Hareshaw Burn			No
Greenhead	20	Tipalt Burn	No	High	Yes
Haltwhistle	tbc	Haltwhistle Burn	No		Yes
Hexham	tbc	Cockshaw Burn / Halgut Burn	Yes		No
Kielder	60	Kielder Burn / River North Tyne / Butteryhaugh	Yes	High	Yes
Morpeth	tbc	Church Burn / Postern Burn / Cotting Burn			Yes
Otterburn	7	Otter Burn	No	High	No
Rothbury	tbc	Coplish Burn	No		Yes
Stocksfield	33	Stocksfield Burn	No	High	Yes
Wark	tbc	Dean Burn	No		Yes

The Environment Agency are working towards developing 11 Local Rapid Response Catchment Plans within Northumberland. They are working with the following communities:

Acomb
Haltwhistle
Morpeth
Stocksfield

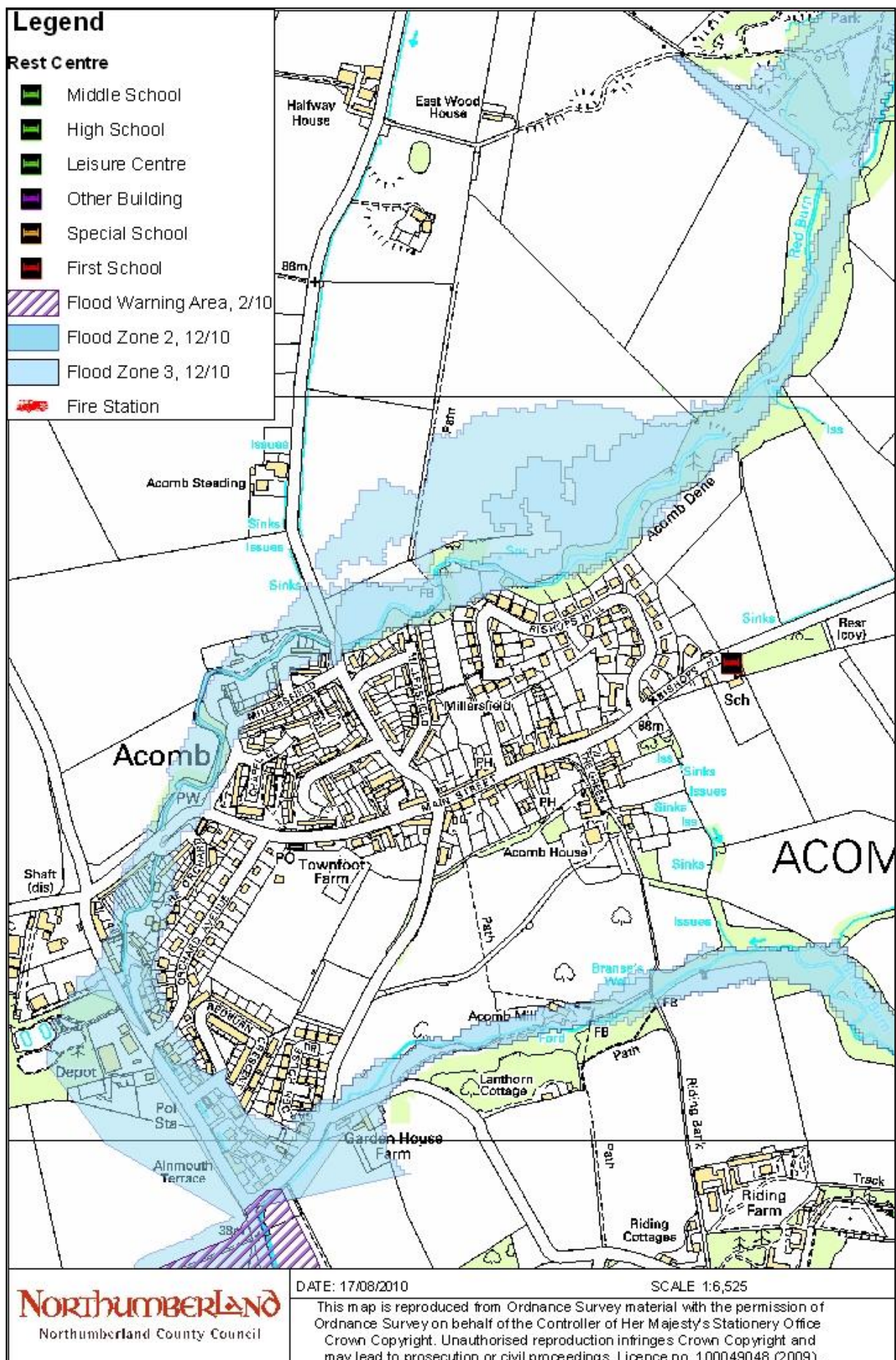
Bellingham
Hexham
Otterburn
Wark

Greenhead
Kielder
Rothbury

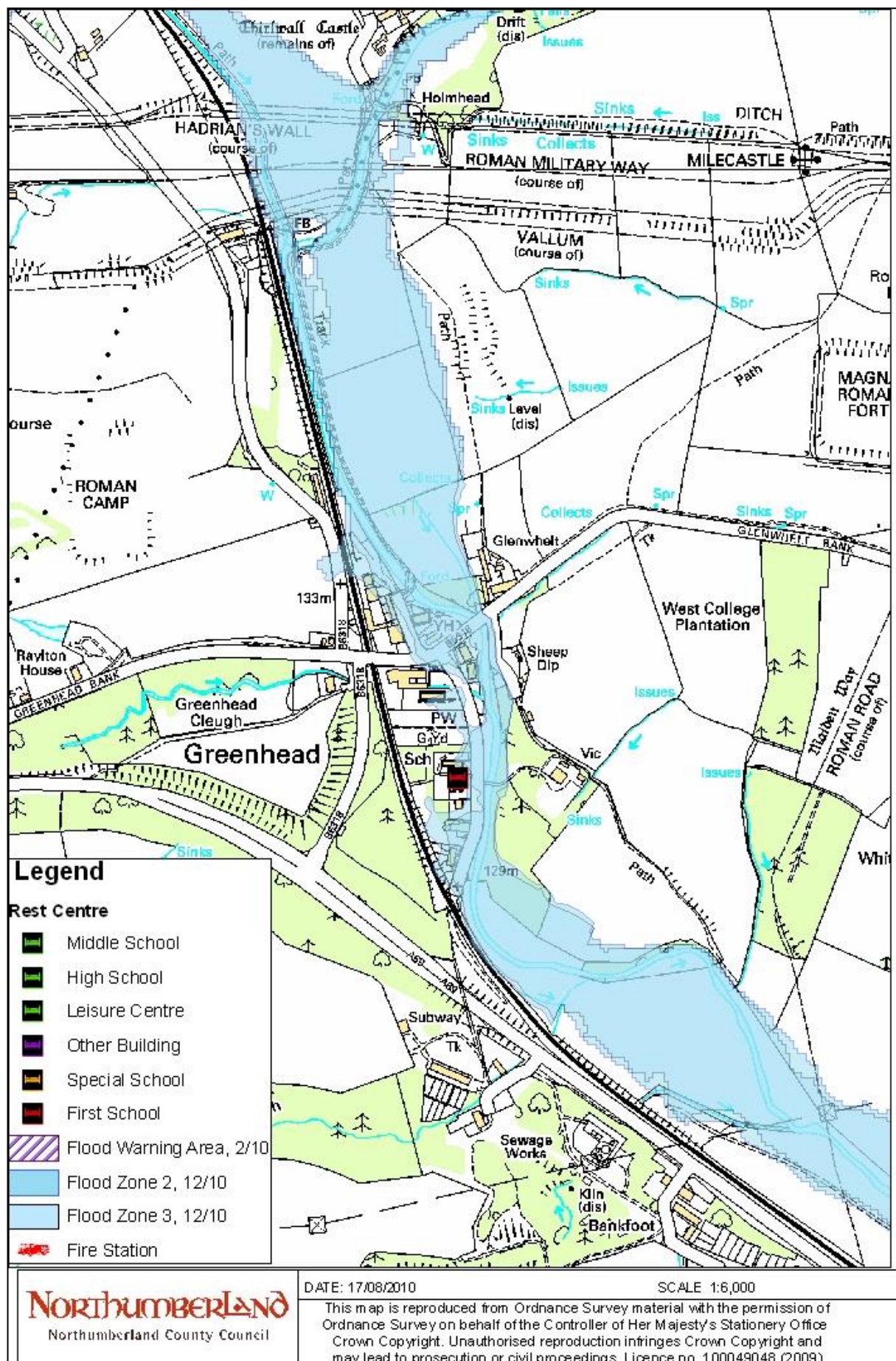
Once the plans are finalized specific reference will be made to them on the relevant flood data sheets within this document.

There are no further details relating to medium Risk Rapid Response Catchments contained within this plan.

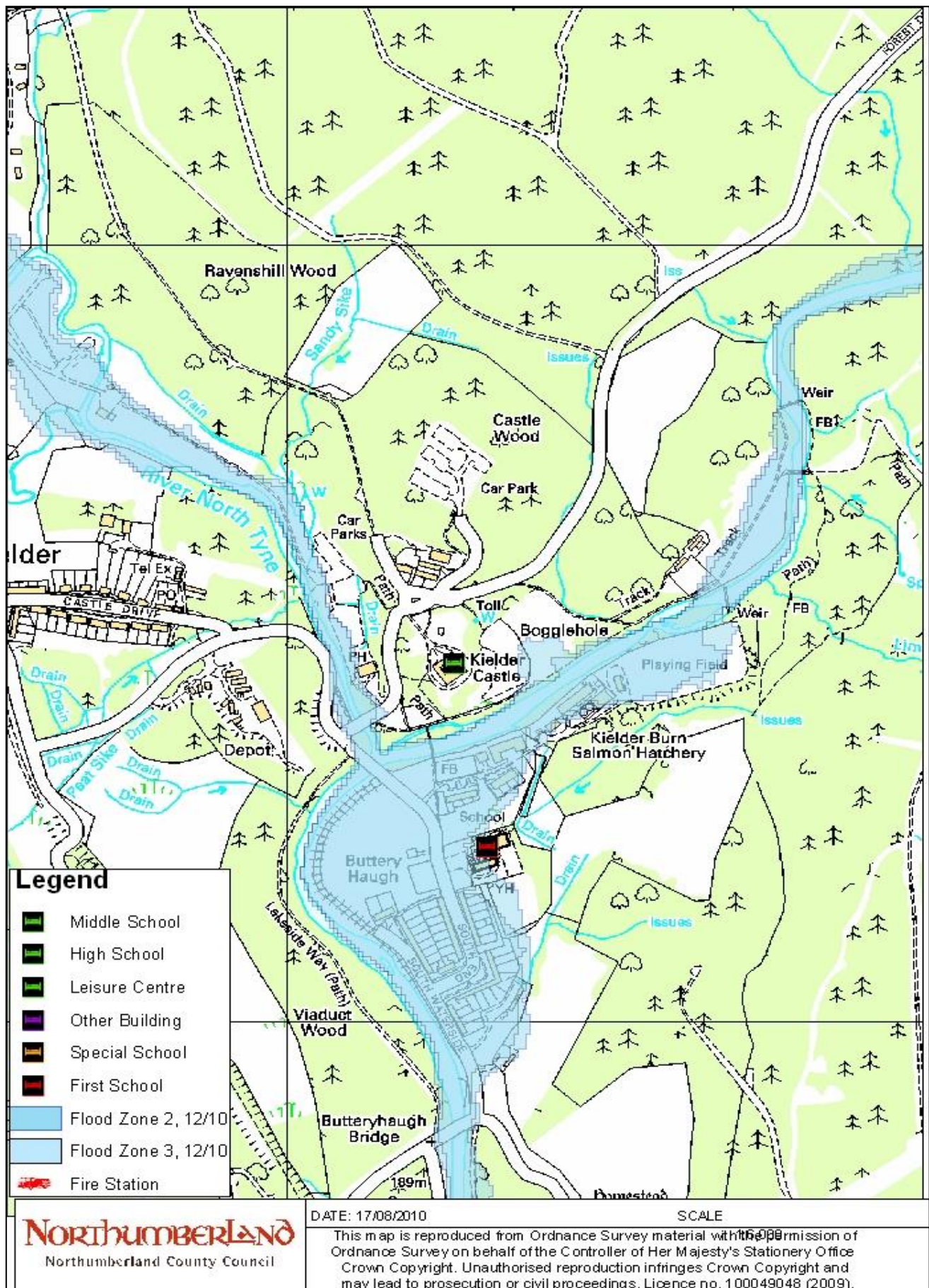
Catchment:	Acomb	River:	Red Burn
Description:			
Fluvial risk is mainly confined to the north, west and south west edges of the village but surface water flooding can occur at any location following intense rainfall and runoff from the surrounding steeper higher ground.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
100	Caravan Site (NE of Acomb, Nr Mariners cottage hotel)	Police Station	
	Frequency of Flooding	Lead Time	
	Not available	Rapid Response Required	
Flooding History (if known)			
Flooding has occurred in the village on several occasions from fluvial flooding from the Red Burn, surcharging of culverts and from surface water flooding. In 2008 Morrison Terrace was particularly badly affected with several properties being flooded.			
Flood Defences / Alleviation Schemes (if any)			
None. Although some channels are engineered.			
Community Flood Plan exists and Wardens see Civil Contingencies file P18			
Associated Flood Warnings			
Flood Alert	None		
Flood Warning	None		
Severe Flood Warning	None		
E.A. Risk Assessment			
High Risk			
Rest Centre Location	Acomb First School. NE46 4PL (30)		
Command and Control Location	Due to the dynamic nature and uncertainty of rapid response flooding, bronze control points have not been identified within this plan. It is anticipated the lead officer at the scene will identify a suitable location.		



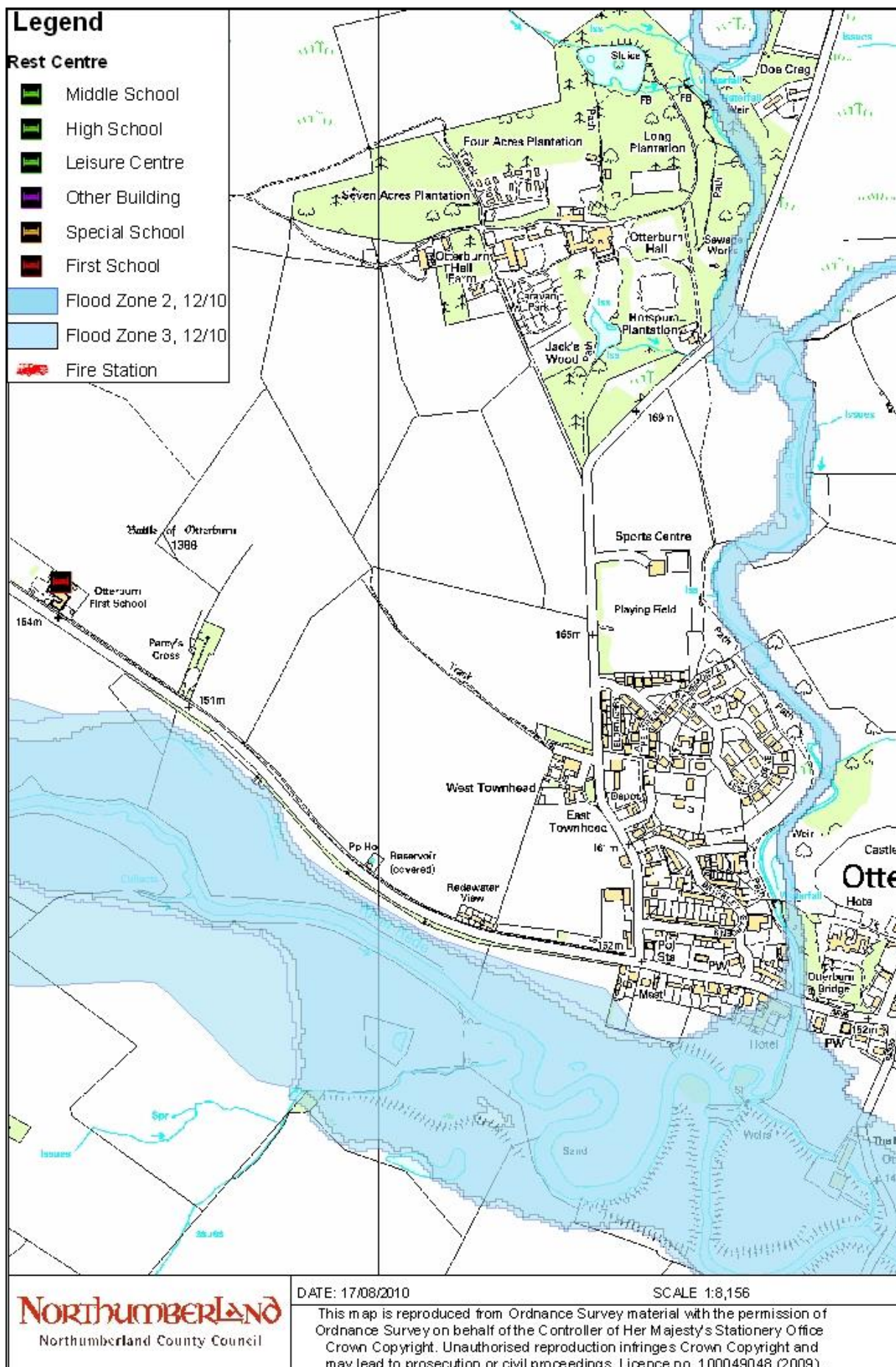
Catchment:	Greenhead	River:	Tipalt Burn
Description:			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
20 (Longbyre is also at risk)			
	Frequency of Flooding	Lead Time	
	1 %1:100- 0.1% 1:1000	Rapid Response Catchments	
Flooding History (if known)			
There is a long history of flooding due to heavy rainfall in the Tipalt Burn at Greenhead. Records go as far back as 1758. The most recent flood events were: (1967) school and homes were flooded, (1979) Flooding of the A69 and (2005) 1 property was flooded.			
Flood Defences / Alleviation Schemes (if any)			
None recorded			
Community Flood Plan and Wardens exist see Civil Contingencies file P18			
Associated Flood Warnings			
Flood Alert	None		
Flood Warning	None		
Severe Flood Warning	None		
E.A. Risk Assessment			
High Risk			
Rest Centre Location	Greenhead Church of England First School. CA8 7BH (50)		
Command and Control Location	Due to the dynamic nature and uncertainty of rapid response flooding, bronze control points have not been identified within this plan. It is anticipated the lead officer at the scene will identify a suitable location.		



Catchment:	Kielder	River:	Kielder Burn/ River North / Butteryhaugh
Description:			
Kielder Burn Salmon Hatchery, the two properties adjacent, the club and the playing field in the northern part of the village. 12 new properties, the school car park, playing area, the community centre and the housing estate in the southern area of the village.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
60			
	Frequency of Flooding	Lead Time	
	1.3% (1:75)	Rapid Response Catchment E.A. aims to give 1hr notice	
Flooding History (if known)			
The most severe flooding was experienced in December 1954 and January 1955. There are no specific records for these events. In 2002 the E.A. has records of properties being affected by an unnamed watercourse to the east of Butteryhaugh which caused the flooding of 8 houses on South Waterside.			
Flood Defences / Alleviation Schemes (if any)			
Some defences in place and a planned revision of flood warnings are expected. 408m flood bank and 2 small sections of flood wall. Community Flood Plan and Wardens exist see Civil Contingencies file P18			
Associated Flood Warnings			
Flood Alert	121WAF908		
Flood Warning	121FWF227		
Severe Flood Warning			
E.A. Risk Assessment			
High Risk			
Rest Centre Location	Kielder Castle NE48 1HQ (50) Kielder Castle First School NE48 1HQ		
Command and Control Location	Due to the dynamic nature and uncertainty of rapid response flooding, bronze control points have not been identified within this plan. It is anticipated the lead officer at the scene will identify a suitable location.		



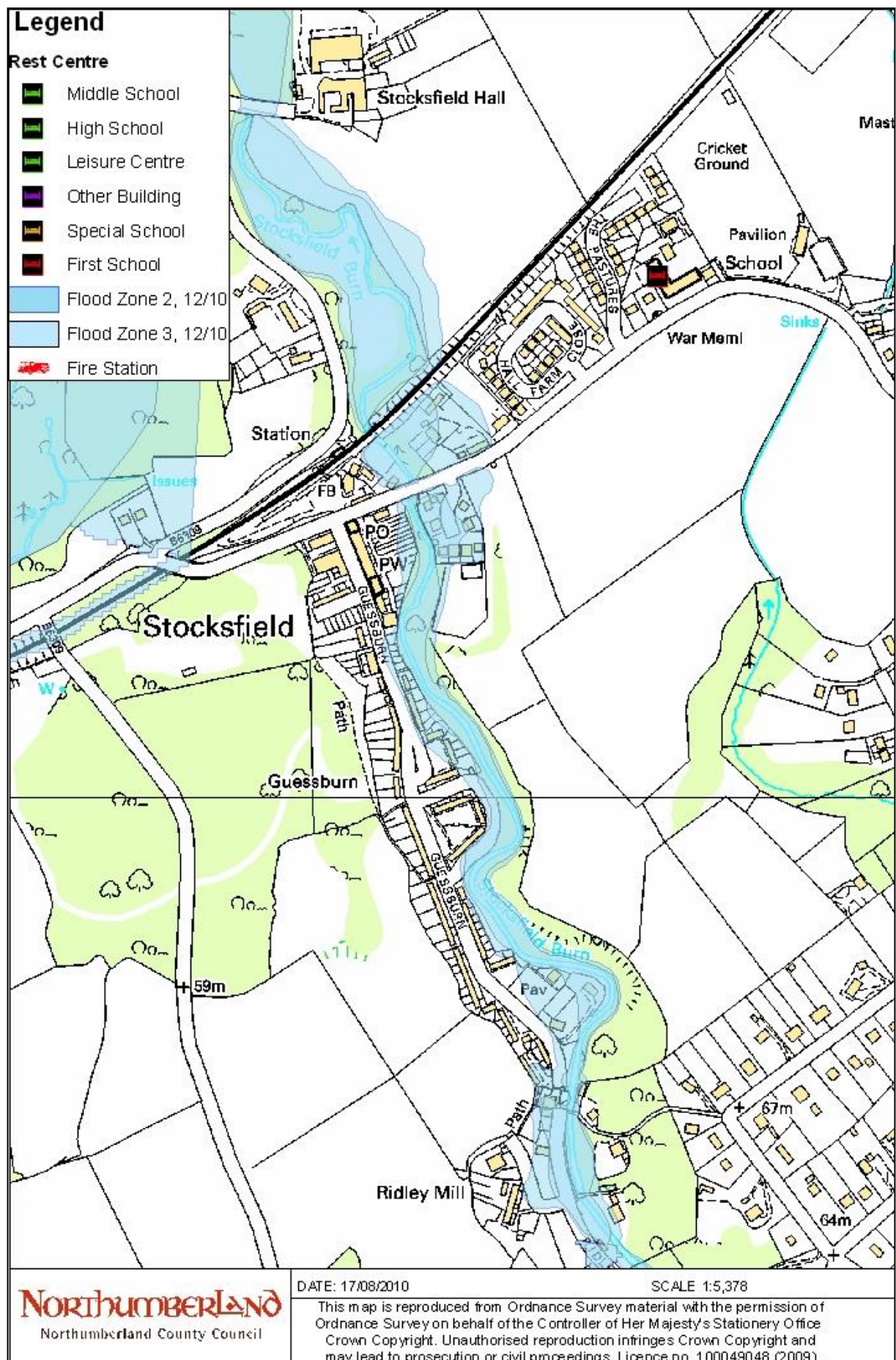
Catchment:	Otterburn	River:	Otter Burn
Description:			
No description available of the location of properties that may be affected.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
7			
	Frequency of Flooding	Lead Time	
	There are areas of Flood Zone 2 and 3 associated with Otter Burn that affect properties in the village	Rapid Response Catchment	
Flooding History (if known)			
Flooding has occurred in the village on many occasions from fluvial flooding from both Otter Burn and the River Rede. Flood history dates back to 1818 when the Otter Burn flooded most of the houses in Otterburn. There are also records of flooding in Otterburn in 1907, 1955 and 1968 although it is not clear whether the source of flooding was the Otter Burn, River Rede or surface water flooding.			
Flood Defences / Alleviation Schemes (if any)			
None- there are several telemetry gauges on the River Rede that could provide a level of predication for the Otter Burn.			
Associated Flood Warnings			
Flood Alert	None		
Flood Warning	None		
Severe Flood Warning	None		
E.A. Risk Assessment			
High Risk			
Rest Centre Location	Otterburn First School NE19 1JF (40)		
Command and Control Location	Due to the dynamic nature and uncertainty of rapid response flooding, bronze control points have not been identified within this plan. It is anticipated the lead officer at the scene will identify a suitable location.		



Catchment:	Wark	River:	Dean Burn
Description:			
Elliot Terrace, Storey Terrace and Tucksholme.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
33			
	Frequency of Flooding	Lead Time	
	1% (1 in 100) and 0.1% (1 in 1000)	Rapid Response Catchment	
Flooding History (if known)			
<p>There is little documented evidence of flooding of property directly from Dean Burn. The section 24(5) schedule has a record of 2 houses flooding from Dean Burn. The old Tynedale District Council had also suggested that in times of flood the river flows onto Hexham Road and potentially flooding up to 5 properties.</p> <p>Residents have also spoken of an event on an unknown date where water was known to have flowed along Hexham Road and then along the track adjacent to Shielings Cottage and the old school. It is possible that this event could have been exacerbated by the effects of rainwater running down the very steep northern section of the B6320 and into the town resulting from a very heavy rainfall event.</p> <p>There are also known surface drainage problems in the Elliott Terrace area of Wark where water is known to pond for significant periods of time following a major rainfall event. This could exacerbate the effects of a flood event.</p> <p>There is also a history of flooding in Wark directly from the North Tyne. This however only relates to the period prior to the building of Kielder Reservoir.</p>			
Flood Defences / Alleviation Schemes (if any)			
Community Plan and Wardens exist see Civil Contingencies file P18			
Associated Flood Warnings			
Flood Alert	None		
Flood Warning	None		
Severe Flood Warning	None		
E.A. Risk Assessment			
High Risk			
Rest Centre Location	Wark Church of England First School NE48 3LR (50)		
Command and Control Location	Due to the dynamic nature and uncertainty of rapid response flooding, bronze control points have not been identified within this plan. It is anticipated the lead officer at the scene will identify a suitable location.		
NCC Properties with the flood zone			
Wark CE First School- NE48 3LR			



Catchment:	Stocksfield	River:	Stocksfield Burn
Description:			
There are 33 properties at risk of flooding from Stocksfield Burn in Stocksfield. Ridley Mill is also at risk of flooding.			
No. Properties at risk	No. of vulnerable people at risk	Critical vulnerable infrastructure	
33			
	Frequency of Flooding	Lead Time	
	1% (1 in 100) and 0.1% (1 in 1000)	Rapid Response Catchment	
Flooding History (if known)			
Local newspaper reports quote instances of flooding in recent times, noting that the frequency of flooding has increased in recent years with September being particularly bad. With the exception of the 2008 event and the 1771 event there are very few actual recorded events in 1907, 1955 and 1968 although it is not clear whether the source of flooding was the Otter Burn, River Rede or surface water flooding.			
Flood Defences / Alleviation Schemes (if any)			
Community Flood Plan and Wardens exist see Civil Contingencies file P18			
Associated Flood Warnings			
Flood Alert	None		
Flood Warning	None		
Severe Flood Warning	None		
E.A. Risk Assessment			
High Risk			
Rest Centre Location	Broomley First School NE43 7NN (160)		
Command and Control Location	Due to the dynamic nature and uncertainty of rapid response flooding, bronze control points have not been identified within this plan. It is anticipated the lead officer at the scene will identify a suitable location.		



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