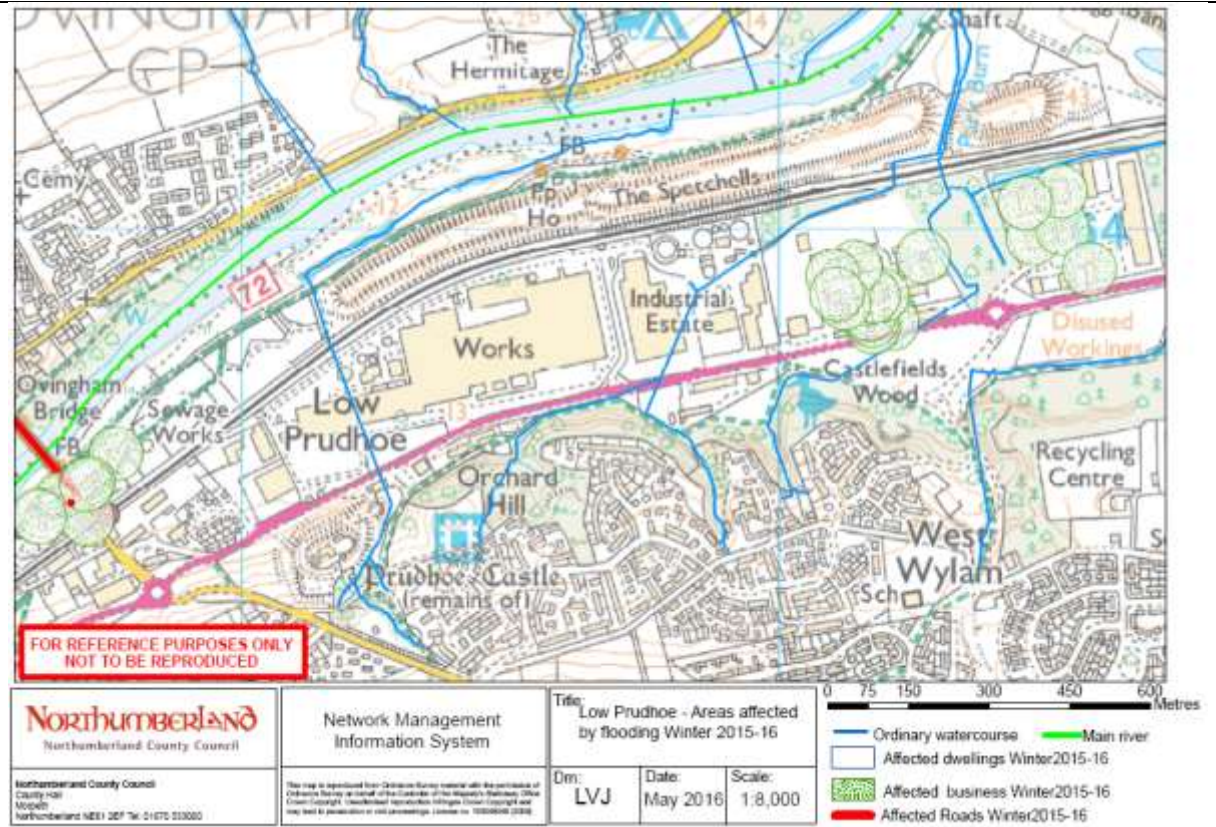


Flood Investigation Report

Location: **Low Prudhoe** Incident Date: **5/12/15**

Source(s) of flooding:						
Ordinary Watercourse	Main River	Surface Water	Groundwater	Sewer	Sea	Tidal Lock
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Impacts	Residential	Business	Other Buildings	Roads	Critical Infrastructure
(number)	1	21	3	0	0



Description

Prudhoe is a town on the south side of the River Tyne, 11 miles west of Newcastle. There are a number of businesses along the southern bank of the Tyne and the majority of residential properties further to the south.

On Friday 4th – Saturday 5th December, Storm Desmond passed to the northwest of the UK bringing severe gales and heavy and persistent rainfall across northern England. As a result, the River Tyne and its tributaries swelled and the defences at Low Prudhoe overtopped.

Towards the eastern end of the business estate flood water from the Tyne backed up into an ordinary watercourse flooding several businesses. Water was also conveyed by roads in and around the estate, presumably carrying flood water that had overtopped defences further west.

In total 21 business were flooded, one residential property and three of the Council's buildings in the area.

RMA Actions:	
<i>Exercised:</i>	- Property level resilience grant made available for business to install defences and make properties more resilient in flooding events.
NCC	- Control structure at railway underpass serviced to make operational again, and working to identify ownership of to agree a long term maintenance plan.
<i>Proposed:</i>	
EA	<i>Exercised:</i> - Reviewed the Flood Warning Service and implemented improvements based on data collected after the flood event.
	<i>Proposed:</i>
NW	<i>Exercised:</i> - Met with the EA to discuss whether the maximum water level in Kielder Reservoir can be reduced to provide greater flood water attenuation. - Transferring Kielder Reservoir to a new water resources modelling software (Aquator) in order to determine maximum water level.
	<i>Proposed:</i> - Test using Aquator software to help NW and the EA decide an acceptable maximum water level at Kielder. Any Viable changes to the maximum water level in Kielder Reservoir would be implemented from 1 November 2016.

Other	<i>Exercised:</i>
	<i>Proposed:</i>



Sign Off Drafted by: Lucia Vidal Approved by: Aaron McNeill	Date 12/08/16
RMA Notification: EA <input checked="" type="checkbox"/> NW <input checked="" type="checkbox"/> Other <input type="checkbox"/> (please specify)	