

# Flood Investigation Report

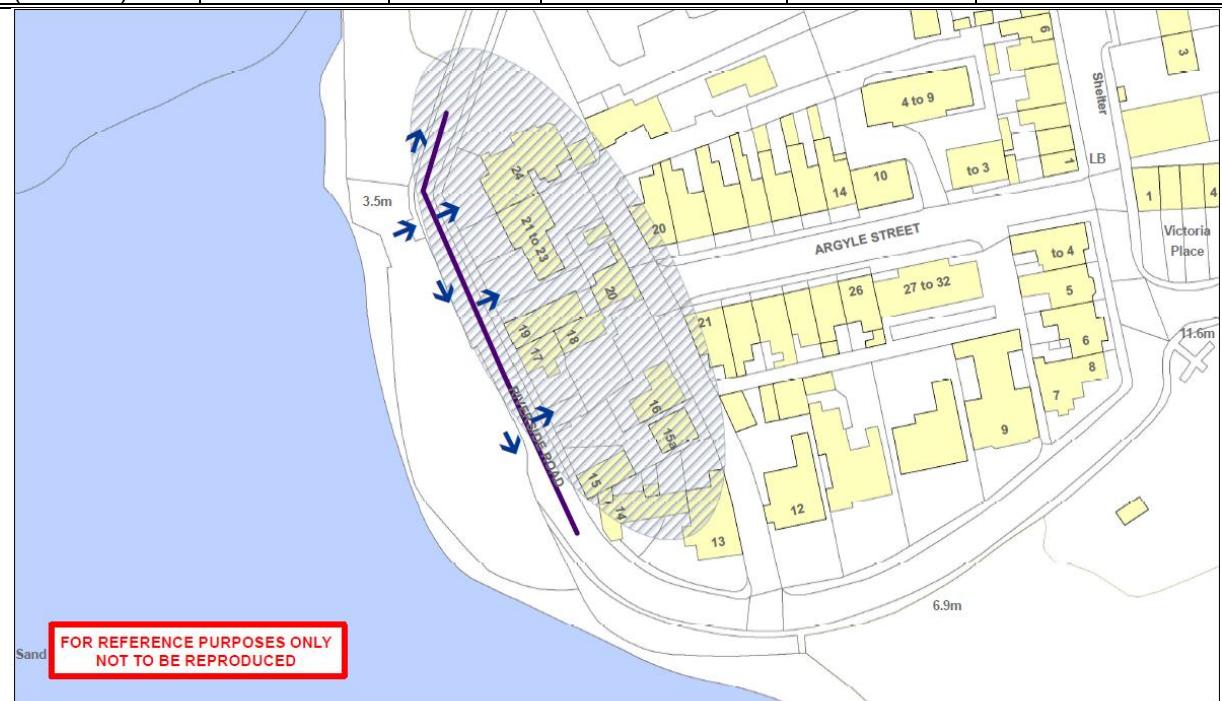
Location: **Alnmouth**

Incident Date: **05/12/13**

**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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Impacts	Residential	Business	Other Buildings	Roads	Critical Infrastructure
(number)	<b>6</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>



<b>NORTHUMBERLAND</b> Northumberland County Council	Network Management Information System	Title: Alnmouth tidal surge event 5 December 2013	<b>Legend</b>
Northumberland County Council County Hall Morpeth Northumberland NE61 2EF Tel: 01670 533000	This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office. Copyright © Crown Office and Courts of Great Britain. Unauthorised reproduction may lead to prosecution or civil proceedings. License no. 100049548 (2009).	Dra: DG Date: 05/09/2014 Scale: 1:1,000	<ul style="list-style-type: none"> <li>— Roads Affected</li> <li>▨ Area Affected</li> <li>→ Flow Direction</li> </ul>

## Description

Alnmouth is situated on the north side of the Aln Estuary, approximately 4 miles east of the larger settlement of Alnwick.

The tidal surge event on the 5<sup>th</sup> December 2013 coincided with a spring tide resulting in sea levels along the east coast reaching their highest in 60 years. As the sea level approached its peak at approximately 16:00, water began to flood Riverside Road from the boat slipway to the north of the road. As the sea level continued to rise, it overtopped the earth embankment along the western verge of Riverside Road. Progressively over the next hour, flooding along the street worsened entering driveways to properties and eventually internally flooding 6 properties along Riverside Road. The flooding depths were at their greatest to the north of the street next to the boat slipway, the water flowed in a southerly direction along the road. As the tide began to ebb flood waters retreated from Riverside Road within an hour.

It was also noted that surcharging drains were an issue during the event with 2 properties suffering surcharging baths, toilets, showers etc.

Despite the event being of such low probability Riverside Road will be at increased risk as mean sea level rises into the future.

## RMA Actions:

<b>NCC</b>	<i>Exercised:</i>	<ul style="list-style-type: none"> <li>• Carried out Flood Investigation Report.</li> <li>• Repair and Renew Grant has been utilised to provide the properties of Riverside Road with property level protection (PLP).</li> <li>• Updated information on website regarding sandbags.</li> <li>• Provide key messages via social media.</li> </ul>
	<i>Proposed:</i>	
<b>EA</b>	<i>Exercised:</i>	<ul style="list-style-type: none"> <li>• Further detail has been added to flood alert texts.</li> </ul>
	<i>Proposed:</i>	<ul style="list-style-type: none"> <li>• Discussion between the Environment Agency and Flood Forecasting Centre regarding changing the Flood Guidance Statements when there have been flood alerts issued in the County.</li> <li>• EA to carry out investigation in how they forecast in the future to provide more consistent information with regards to; height of tidal surge, the issuing of warnings etc.</li> </ul>
<b>NWL</b>	<i>Exercised:</i>	Investigation into issue of surcharging drains.
	<i>Proposed:</i>	
<b>Other</b>	<i>Exercised:</i>	
	<i>Proposed:</i>	

## Additional supporting information:

<b>Sign Off</b>	<b>Date</b>
Drafted by: David Green, Graduate FCERM Engineer Approved by: Trevor Dixon, Flood and Coastal Erosion Risk Manager	14/01/15
<b>RMA Notification:</b> EA <input checked="" type="checkbox"/> NWL <input checked="" type="checkbox"/> Other <input type="checkbox"/> (please specify)	