## Flood Investigation Report



## 4.2.4

Location: Alnwick (west)				Incide	Incident Date: 28/06/12		
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Source(s) of f Ordinary	Iooding: Main	Surface				Tidal	
Watercourse	River		Groundwater	Sewer	Sea	Lock	
				OCWC!		LOCK	
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Impacts	Resident	ial Business	Other Buildings	Roads	Critical In	frastructure	
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FOR REFERE NOT TO	NCE PURPOSES O BE REPRODUCED	NLY			Willoughby's Bank		
	122			107	m Swansfield	V Com	
Northumberland C		FCERM	Title: Alnwick (west) - areas a by flooding 28/06/20	ffected Road	llings_areas ds_affected	Surface water flow direction	
Northumberland County Council County Hall Morpeth	000	his map is reproduced from Ordsance Survey material with the permit ridsance Survey on behalf of the Controller of Her Majesty's Stationa rown Copyright. Unauthorised reproduction infringes Crown Copyright ay lead to proceedings. Livense no. 100409046;	psice of y Office Date: Screen of y Office 06/12/2013	aic.	naryWatercourses imed_flow_route		
Northumberland NE61 2EF Tel: 010	670 533000	lay lead to prosecution or civil proceedings. License no. 100049048 (	2009).		r_Buildings		

## **Description**

Heavy rain on 28 June 2012 resulted in the flooding of properties, roads and businesses in the west of Alnwick. The intense rainfall resulted in surface water flooding to parts of the road network.

This rain caused residential properties to flood within Alwynside. Flooding occurred as a result of the Wash Burn, which is designated as an ordinary water course. The GIS data that we have available shows the Wash Burn as a straight line going directly under some properties in the northern side of Alwynside. This is an anomaly within the data. Often when a watercourse sinks and issues a straight line is drawn on the GIS data, as is the case here. After inspection we now know and can confirm that the Wash Burn runs in a culvert via the southern properties of Alwynside – shown by the cyan dashed line on the above map. Local residents were not aware of the presence of this watercourse.

On the 28<sup>th</sup> June and in subsequent rainfall events water was coming out of the gardens in Alwynside and causing properties to flood.

On closer inspection of the culvert, it was found that there were blockages that were causing

water to back up and subsequently flood the properties. **RMA Actions:** Exercised: Carried out Flood Investigation Report. Have investigated further the route of the Wash Burn through Alwynside, have removed blockages within the culvert and have installed manholes on two sections along the watercourse. NCC Have worked with Johnnie Johnson Housing Association, which has riparian owner responsibilities for a section of culvert passing through their land. Keep an eye out on the functionality of the culvert in the future. Proposed: Exercised: EΑ Proposed: Exercised: **NWL** Proposed: Exercised: Other Proposed: Additional supporting information The photo on the left shows the Wash Burn watercourse after excavations within the garden of a residential property. The photo on the right shows part of the culverted section of the Wash Burn. Here a square stone channel falls into a circular concrete pipe. Sign Off Date Drafted by: James Hitching 12/12/12 Approved by: NWL 🛛 RMA Notification: EA Other L (please specify)