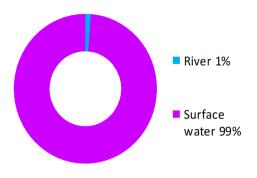
# **Coatbridge/Viewpark (Potentially Vulnerable Area 11/18)**

Local Plan District	Local authority	Main catchment
Clyde and Loch Lomond	North Lanarkshire Council	North Calder Water

## **Summary of flooding impacts**



#### At risk of flooding

- 50 residential properties
- <10 non-residential properties</li>
- £43,000 Annual Average Damages

(damages by flood source shown left)

#### Summary of objectives to manage flooding

Objectives have been set by SEPA and agreed with flood risk management authorities. These are the aims for managing local flood risk. The objectives have been grouped in three main ways: by reducing risk, avoiding increasing risk or accepting risk by maintaining current levels of management.

Many organisations, such as Scottish Water and energy companies, actively maintain and manage their own assets including their risk from flooding. Where known, these actions are described here. Scottish Natural Heritage and Historic Environment Scotland work with site owners to manage flooding where appropriate at designated environmental and/or cultural heritage sites. These actions are not detailed further in the Flood Risk Management Strategies.

#### Summary of actions to manage flooding

The actions below have been selected to manage flood risk.

Flood protection scheme/works	Natural flood management works	New flood warning	Community flood action groups	Property level protection scheme	Site protection plans
Flood protection study	Natural flood management study	Maintain flood warning	Awareness raising	Surface water plan/study	Emergency plans/response
Maintain flood protection scheme	Strategic mapping and modelling	Flood forecasting	Self help	Maintenance	Planning policies

# Coatbridge/Viewpark (Potentially Vulnerable Area 11/18)

Local Plan District	Local authority	Main catchment
Clyde and Loch Lomond	North Lanarkshire Council	North Calder Water

#### **Background**

This Potentially Vulnerable Area is located to the east of Glasgow, within the North Calder Water catchment and is 7km² (shown below). Kirkwood and Kirkshaw residential areas are in the north of the area, while Viewpark and Righead Industrial Estate is in the south.

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The area has a risk of river and surface water flooding. The majority of damages are caused by surface water flooding.

There are approximately 50 residential properties at risk of flooding. The Annual Average Damages are approximately £43,000.

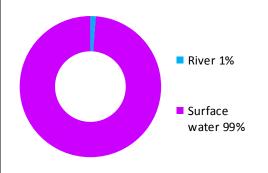


Figure 1: Annual Average Damages by flood source

#### Summary of flooding impacts

Almost all flood risk in this area comes from surface water flooding. Residential properties, as well as a number of local roads, are likely to be affected by surface water flooding within Viewpark. In Kirkshaw, a number of roads (including the A8) and residential properties are at risk of surface water flooding. There is also surface water flooding predicted in Righead industrial estate. Businesses in the estate are likely to experience restricted access and disruption due to flooded roads and yards. The areas at highest risk from surface water flooding will require the preparation of surface water management plans.

River flooding will mainly impact woodland and agricultural land in this area with a small section of the A8 also predicted to be impacted. The predicted flooding arises from possible capacity constraints imposed by a culverted section of the Luggie Burn which flows through Coatbridge and into the North Calder Water.

The risk of flooding to people and property, as well as to community facilities, utilities, the transport network, designated sites and agricultural land is summarised in Table 1. The damages associated with floods of different likelihood are shown in Figure 2. Residential properties affected by surface water flooding experience the highest economic impact at approximately 90% of the damages.

Within this Potentially Vulnerable Area it is estimated that climate change will increase the number of residential properties at risk of flooding from approximately 50 to 80.

The location of the impacts of flooding is shown in Figure 3. There are impacts to people and properties predominately in the west of the area with short sections of the A8 and A725 at risk of flooding.

	1 in 10	1 in 200	1 in 1000
	High likelihood	Medium likelihood	Low likelihood
Residential properties (total 5,000)	<10	50	80
Non-residential properties (total 500)	<10	<10	10
People	20	120	170
Community facilities	0	0	0
Utilities assets	<10	<10	10
Transport links- roads (km)	0.5 (of which 0.1 is A road)	1.8 (of which 0.7 is A road)	2.2 (of which 0.9 is A road)
Environmental designated areas (km²)	0	0	0
Designated cultural heritage sites	0	0	0
Agricultural land (Km²)	<0.1	<0.1	<0.1

**Table 1:** Summary of flooding impacts<sup>1</sup>

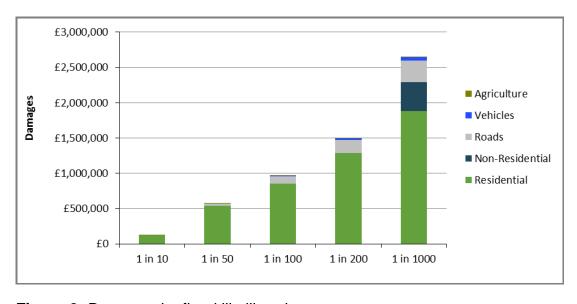


Figure 2: Damages by flood likelihood

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Some receptors are counted more than once if flooded from multiple sources

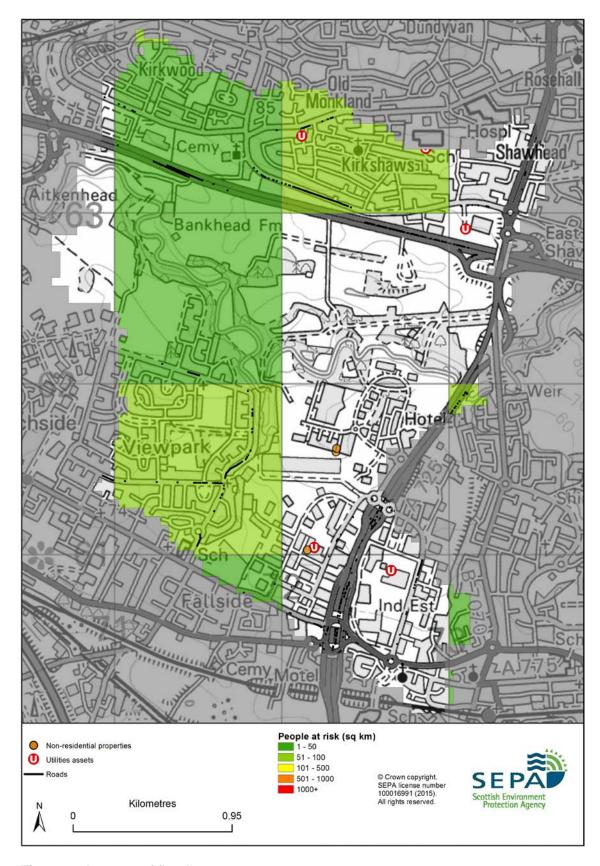


Figure 3: Impacts of flooding

# History of flooding

There have been reported incidents of flooding within this Potentially Vulnerable Area. These have not been directly related to river or surface water flooding. Rather, they have been caused by capacity exceedance of drainage systems, sewers and other artificial structures. All records are in the location of Kirkwood and Kirkshaw in Coatbridge and the floods have had only minor impacts on the surrounding area.

### Objectives to manage flooding in Potentially Vulnerable Area 11/18

Objectives provide a common goal and shared ambition for managing floods. These objectives have been set by SEPA and agreed with flood risk management authorities following consultation. They were identified through an assessment of the underlying evidence of the causes and impacts of flooding. Target areas have been set to focus actions; they do not necessarily correspond to areas at risk in SEPA's flood map. The objectives below have been set for Coatbridge/Viewpark Potentially Vulnerable Area.

Target area	Objective	ID	Indicators within PVA
Applies across Clyde and Loch Lomond Local Plan District	Avoid an overall increase in flood risk	11127	<ul><li>50 residential properties</li><li>£43,000 Annual Average Damages</li></ul>
Applies across Clyde and Loch Lomond Local Plan District	Reduce overall flood risk	11132	<ul><li>50 residential properties</li><li>£43,000 Annual Average Damages</li></ul>
Applies across Clyde and Loch Lomond Local Plan District	Organisations such as Scottish Water, energy companies and Historic Environment Scotland actively maintain and manage their own assets, including the risk of flooding. These actions are not detailed further in the Flood Risk Management Strategies.		

# Actions to manage flooding in Potentially Vulnerable Area 11/18

Actions describe where and how flood risk will be managed. These actions have been set by SEPA and agreed with flood risk management authorities following consultation. Selection of actions to deliver the agreed objectives was based on a detailed assessment and comparison of economic, social and environmental criteria. The actions shaded and then described below have been selected as the most appropriate for Coatbridge/Viewpark Potentially Vulnerable Area.

Selected acti	ons				
Flood protection scheme/works	Natural flood management works	New flood warning	Community flood action groups	Property level protection scheme	Site protection plans
Flood protection study	Natural flood management study	Maintain flood warning	Awareness raising	Surface water plan/study	Emergency plans/response
Maintain flood protection scheme	Strategic mapping and modelling	Flood forecasting	Self help	Maintenance	Planning policies

Action (ID):	STRATEGIC MAPPING AND MODELLING (111320019)			
Objective (ID):	Reduce overall flood risk (11132)			
Delivery lead:	Scottish Water			
Status:	Not started Indicative delivery: 2016-2021			
Description:	Scottish Water will review the assessment of flood risk within the highest risk sewer catchments to improve knowledge and understanding of surface water flood risk.			

Action (ID):	FLOOD FORECASTING	(111320009)	
Objective (ID):	Reduce overall flood risk	(11132)	
Delivery lead:	SEPA		
Status:	Existing	Indicative delivery:	Ongoing
Description:	The Scottish Flood Fored SEPA and the Met Office statements which are issuservice also provides infowarnings, giving people a flooding on their home or SEPA's website.	that produces daily ued to Category 1 au rmation which allow better chance of re	, national flood guidance nd 2 Responders. The is SEPA to issue flood educing the impact of

Action (ID):	<b>SELF HELP</b> (111320011)			
Objective (ID):	Reduce overall flood risk (11132)			
Delivery lead:	_			
Status:	Existing	Indicative delivery:	Ongoing	
Description:	Everyone is responsible for protecting themselves and their property from flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.			

Action (ID):	AWARENESS RAISING	(111320013)	
Objective (ID):	Reduce overall flood risk	(11132)	
Delivery lead:	Responsible authorities		
Status:	Existing	Indicative delivery:	Ongoing
Description:	SEPA and the responsible awareness of flood risk. It actions that prepare individual can reduce the overall important from 2016 SEPA will engal participation in national in Neighbourhood Watch Solocal authorities and complete authorities will be unactivities. Further details	mproved awareness iduals, homes and be pact. gage with the commitiatives, including pactland. In addition, munity resilience grandertaking additional	s of flood risk and pusinesses for flooding unity through local artnership working with SEPA will engage with pups where possible.

Action (ID):	<b>MAINTENANCE</b> (111320007)				
Objective (ID):	Reduce overall flood risk (11132)				
Delivery lead:	North Lanarkshire Council, asset / land managers				
Status:	Existing	Indicative delivery:	Ongoing		
Description:	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. They produce schedules of clearance and repair works and make these available for public inspection. Scottish Water undertake inspection and repair on the public sewer network. Asset owners and riparian landowners are responsible for the maintenance and management of their own assets including those which help to reduce flood risk.				

Action (ID):	EMERGENCY PLANS/RESPONSE (111320014)				
Objective (ID):	Reduce overall flood risk (11132)				
Delivery lead:	Category 1 and 2 Responders				
Status:	Existing	Indicative delivery:	Ongoing		
Description:	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA. Effective management of an emergency response relies on emergency plans that are prepared under the Civil Contingencies Act 2004 by Category 1 and 2 Responders. The emergency response by these organisations is co-ordinated through regional and local resilience partnerships. This response may be supported by the work of voluntary organisations.				

Action (ID):	PLANNING POLICIES (111270001)		
Objective (ID):	Avoid an overall increase in flood risk (11127)		
	Reduce overall flood risk (11132)		
Delivery lead:	Planning authority		
Status:	Existing	Indicative delivery:	Ongoing
Description:	Scottish Planning Policy and accompanying Planning Advice Notes set out Scottish Ministers' priorities for the operation of the planning system and for the development and use of land. In terms of flood risk management, the policy supports a catchment-scale approach to sustainable flood risk management and aims to build the resilience of our cities and towns, encourage sustainable land management in our rural areas, and to address the long-term vulnerability of parts of our coasts and islands. Under this approach, new development in areas with medium to high likelihood of flooding should be avoided. For further information on the application of national planning policies see Annex 2.		