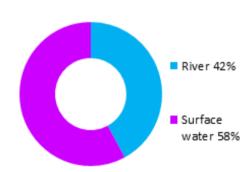
Philipstoun (Potentially Vulnerable Area 10/14)

Local Plan District	Local authority	Main catchment
Forth Estuary	Falkirk Council, West Lothian Council	Forth Estuary (south) coastal

Summary of flooding impacts



At risk of flooding

<10 residential properties
10 non-residential properties
£23,000 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

Actions

Philipstoun (Potentially Vulnerable Area 10/14)

Local Plan District	Local au	thority	Main catchment	
Forth Estuary	Falkirk C	Falkirk Council,Forth Estuary (soest Lothian Councilcoastal		
Background				
Artos B903 B Champany Palace LINLITHGOW Palace LINLITHGOW Caller Kingscavil Bridgend	h catchment nall, rural area of Philipstoun.	area, with the caused by su There are ap residential pu The Annual A approximate	w risk of flooding in this e majority of the damages urface water flooding. oproximately 10 non- roperties at risk of flooding. Average Damages are ly £23,000.	

Summary of flooding impacts

Work carried out since the National Flood Risk Assessment in 2011 has concluded that the risk of flooding in this Potentially Vulnerable Area is now relatively low. The designation of this Potentially Vulnerable Area will be reviewed in the next flood risk management planning cycle.

The risk of flooding to people, 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. Surface water damages may be under-represented in Figure 2 due to limitations in the available modelling output.

For this Potentially Vulnerable Area the highest damages are to agricultural land followed by damages to non-residential properties. The location of the impacts of flooding is shown in Figure 3.

The figures presented for Annual Average Damages include damages to residential properties, non-residential properties, transport and agriculture.

	1 in 10	1 in 200	1 in 1000
	High likelihood	Medium likelihood	Low likelihood
Residential properties (total 760)	<10	<10	<10
Non-residential properties (total 60)	<10	10	10
People	<10	<10	<10
Community facilities	0	0	0
Utilities	<10	<10	<10
Transport links (excluding minor roads)	1 M road (M9), 1 A road, 2 B roads at 17 locations 1 Railway route at 6 locations: Edinburgh Waverley to Glasgow Queen Street	1 M road (M9), 1 A road, 2 B roads at 17 locations 1 Railway route at 7 locations: Edinburgh Waverley to Glasgow Queen Street	1 M road (M9), 1 A road, 2 B roads at 17 locations 1 Railway route at 7 locations: Edinburgh Waverley to Glasgow Queen Street
Environmental designated areas (km ²)	0.1	0.1	0.1
Designated cultural heritage sites	3	3	3
Agricultural land (km ²)	0.6	0.7	0.7

Table 1: Summary of flooding impacts

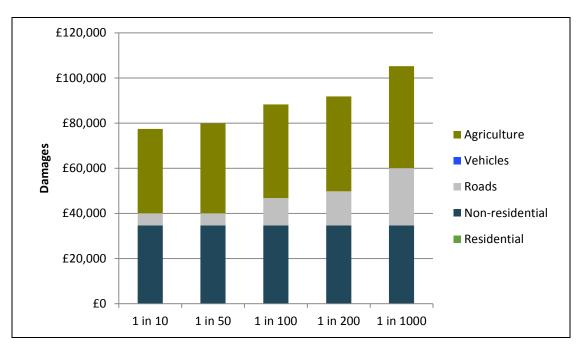


Figure 2: Damages by flood likelihood

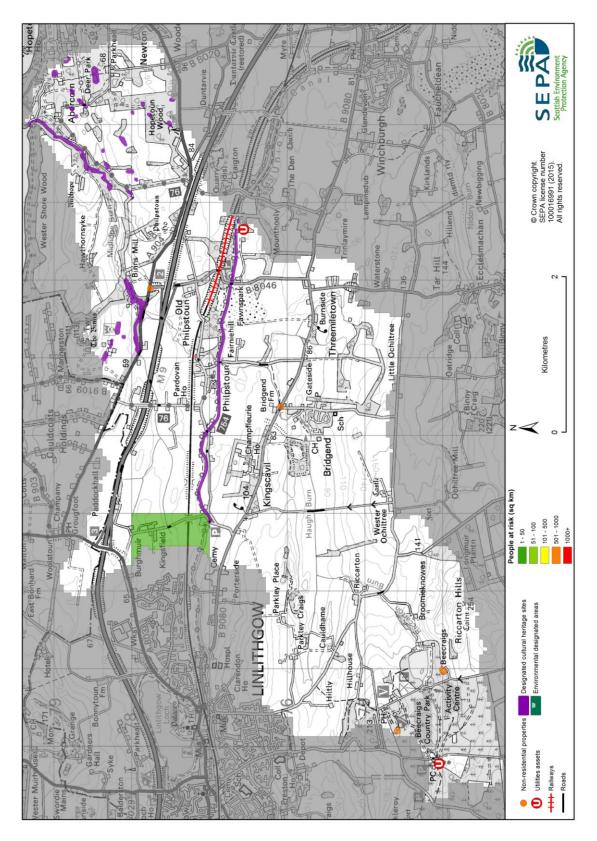


Figure 3: Impacts of flooding

History of flooding

No significant floods have been recorded in this Potentially Vulnerable Area.

Objectives to manage flooding in Potentially Vulnerable Area 10/14

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 Philipstoun Potentially Vulnerable Area.

Target area	Objective	ID	Indicators within PVA
Applies across Forth Estuary Local Plan District	Avoid an overall increase in flood risk	10001	 10 non-residential properties £23,000 Annual Average Damages
Applies across Forth Estuary Local Plan District	Reduce overall flood risk	10099	 10 non-residential properties £23,000 Annual Average Damages
Applies across Forth Estuary 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 10/14

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 Philipstoun 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 (100990016)				
Objective (ID):	Reduce overall flood risk (10099)				
Delivery lead:	SEPA				
Status:	Not started	Indicative delivery:	2016-2021		
Description:	SEPA will seek to incorporate additional surface water data into the flood maps to improve understanding of flood risk. Approximately 2,600km ² of improved surface water data is currently available within this Local Plan District.				

Action (ID):	STRATEGIC MAPPING AND MODELLING (100990019)				
Objective (ID):	Reduce overall flood risk (10099)				
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	(100990009)	
Objective (ID):	Reduce overall flood risk	(10099)	
Delivery lead:	SEPA		
Status:	Existing	Indicative delivery:	Ongoing
Description:	The Scottish Flood Forec SEPA and the Met Office statements which are issu service also provides info warnings, giving people a flooding on their home or SEPA's website.	that produces daily ued to Category 1 an irmation which allow better chance of re	, national flood guidance nd 2 Responders. The s SEPA to issue flood ducing the impact of

Action (ID):	SELF HELP (100990011	SELF HELP (100990011)				
Objective (ID):	Reduce overall flood risk (10099)					
Delivery lead:	—					
Status:	Existing	Indicative delivery:	Ongoing			
Description:	from flooding. Property ar to reduce damage and dis should flooding happen. T flood kit, installing proper and Resilient Communitie	Existing Indicative delivery: Ongoing 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	(100990013)	
Objective (ID):	Reduce overall flood risk	(10099)	
Delivery lead:	Responsible authorities		
Status:	Existing	Indicative delivery:	Ongoing
Description:	SEPA and the responsibl awareness of flood risk. I actions that prepare indiv can reduce the overall im From 2016 SEPA will eng participation in national in Neighbourhood Watch So local authorities and com Local authorities will be u activities. Further details	mproved awareness iduals, homes and b pact. gage with the comm itiatives, including p cotland. In addition, munity resilience gro ndertaking additiona	s of flood risk and businesses for flooding unity through local artnership working with SEPA will engage with bups where possible. al awareness raising

Action (ID):	MAINTENANCE (100990	007)			
Objective (ID):	Reduce overall flood risk (10099)				
Delivery lead:	Falkirk Council and West Lothian 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/R	ESPONSE (100990	0014)		
Objective (ID):	Reduce overall flood risk	(10099)			
	Category 1 and 2 Responders				
Delivery lead:	Category 1 and 2 Respor	nders			
Delivery lead: Status:	Category 1 and 2 Respor Existing	nders Indicative delivery:	Ongoing		

Action (ID):	PLANNING POLICIES (100010001)		
Objective (ID):	Avoid an overall increase in flood risk (10001)		
	Reduce overall flood risk (10099)		
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.		