

Flood Risk Management (Scotland) Act 2009

Local Flood Risk Management Plan 2022 – 2028











CAIRNGORMS NATIONAL PARK AUTHORITY UGHDARRAS PAIRC NAISEANTA A MHONAIDH RUAIDH

Abstract

This is the second Local Flood Risk Management Plan for the North East Local Plan District, describing the actions which will contribute to managing the risk of flooding and recovering from any future flood events. The task for local authorities, Scottish Water, the Scottish Environment Protection Agency (SEPA), the Scottish Government and all other responsible authorities and public bodies is to deliver this plan.

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Foreword

The impacts of flooding experienced by individuals, communities and businesses can be devastating and long lasting. It is vital that we continue to reduce the risk of any such future events and improve the area's ability to manage and recover from any events which do occur.

The publication of this Plan is an important milestone in implementing the Flood Risk Management (Scotland) Act 2009 and improving how we cope with and manage floods in the North East Local Plan District. The Plan translates this legislation into actions over the second planning cycle from 2022 to 2028 to reduce the risk of damage and distress caused by flooding.

The North East Local Plan District is led and is published by Aberdeenshire Council on behalf of a partnership comprising three local authorities: Aberdeenshire Council, Aberdeen City Council and The Moray Council, together with the following Responsible Authorities: Scottish Water; SEPA; Forestry Scotland; and the Cairngorms National Park Authority.

This Plan presents actions to avoid and reduce the risk of flooding and prepare and protect ourselves and our communities within the Potentially Vulnerable Areas (PVAs) and across the Local Plan District (LPD). The delivery of many of these actions may be dependent on the availability of funding. However, we can all play our part in managing flood risk.

Individuals are the first line of defence against flooding and have responsibilities to protect themselves from flooding.

The publication of this Plan shows that the coordinated and collaborative efforts of public bodies can be brought together to deliver sustainable outcomes. However, the actions in this Plan can only be delivered with the support of all the public bodies, The Scottish Government, and most importantly you and your community.

This Plan, therefore, provides the blueprint upon which Local Authorities, SEPA, and Scottish Water and any other responsible authorities will deliver their flood risk management duties under the Flood Risk Management (Scotland) Act 2009.

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With thanks to the following who contributed to the development of this Plan which will help shape the way in which floods and their impacts are managed across the North East Local Plan District:

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List of Acronyms and Abbreviations

CoSLA	Convention of Scottish Local Authorities
FRM	Flood Risk Management
ICS	Integrated Catchment Study
LA	Local Authority
LFRMP	Local Flood Risk Management Plan
LLA	Lead Local Authority
LPD	Local Plan District
NFRA	National Flood Risk Assessment
NFM	Natural Flood Management
PVA	Potentially Vulnerable Area
RBMP	River Basin Management Plan
SAC	Special Area of Conservation
SSSI	Site of Special Scientific Interest
SEPA	Scottish Environmental Protection Agency
SEA	Strategic Environmental Assessment
SFRA	Strategic Flood Risk Assessment
SPA	Special Protection Area
SuDS	Sustainable Drainage Systems
SWMP	Surface Water Management Plan

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Flood Risk Management in The North East Local Plan District

What is a local flood risk management plan?

Local Flood Risk Management Plans are required under the Flood Risk Management (Scotland) Act 2009 and are updated every 6 years.

Flood Risk Management Plans are Scotland's route map for reducing the effects of flooding on our communities. This is key to health, well-being and economic success. They are also important in our response to the climate emergency as flooding is increasing due to climate change.

The Local Flood Risk Management Plan (the Plan) for the North East Local Plan District has been designed to ensure effort to reduce flood risk in this catchment area is coordinated. This is achieved by working in partnership with all organisations responsible for flood risk management and the plan focuses the work of these organisations to where the risk of flooding and benefits of action are greatest. The roles and responsibilities of some of the key organisations involved are set out later in the plan.

This Plan sets out how and when actions to reduce the impact of flooding in the North East Local Plan District (LPD) identified in the National Flood Risk Management Plan will be delivered. The Plan identifies where the risk of flooding and benefit of investment is greatest and says how and when actions will be delivered. Flood Risk Management Plans are delivered over six-year cycles. This plan is for Cycle 2 and will be delivered between 2022 and 2028.

The content of the local Plan has been produced by Aberdeenshire Council as the Lead Local Authority for this LPD, in agreement with the designated Responsible Authorities, that are listed below.

- Aberdeenshire Council
- Aberdeen City Council
- The Moray Council
- Scottish Water
- SEPA
- Forestry Scotland; and
- Cairngorms National Park Authority

This plan replaces the flood risk management plan for Cycle 1, published in 2016.

Managing flooding in North East Local Plan District

Flooding needs to be managed sustainably so that flood risk is reduced without moving the problem elsewhere. It must be done in a way that contributes to the health and wellbeing of communities, supports the protection and regeneration of the environment, improves resilience to climate change and enables a sustainable economy. Actions are needed on all sources of flooding – including from rivers, the sea, surface water and groundwater – to meet the needs of present and future generations while also protecting and enhancing the environment.

Using a 6 year planning cycle enables new data, improved techniques and developing knowledge and understanding to be incorporated regularly into the Flood Risk Management approach. Using all the latest information to regularly review our assessment of flood risk forms the foundation of a risk-based, plan-led approach to managing flooding sustainably. We have outlined below the key stages of the flood risk management process.

Progress in cycle 1: 2016-2022

The 2016 local flood risk management plan outlined the long term objectives to tackle flooding in the areas at highest risk within the North East Local Plan District. The objectives for each area were agreed and actions were developed to meet these objectives. Actions to reduce flood risk included developing flood studies and flood protection schemes and providing public flood warnings and alerts. Actions to avoid flooding included maintenance of flood defences and storage areas and producing strong planning policies, which prevent development from taking place in flood risk areas. In 2019 Aberdeenshire Council published the interim report for the North East Local Plan District LPD.

This report gave the status of each action at that time and reported them as red, amber or green:

- Red: The action is running late or over budget and is unlikely to meet its aims.
- Amber: The action is running late or over budget but is still likely to meet its aims.
- Green: The action is complete or is on track to meet its aims.

Actions with a green or amber status can be expected to succeed in working towards their objectives.

The final report was published December 2022. These reports are published here. <u>https://www.aberdeenshire.gov.uk/environment/flooding/flood-risk-management-scotland-act-2009/</u>

How the flood risk management plans were developed

Partnership working

Many organisations and individuals are involved in flood risk management in Scotland. The causes and effects of flooding are complex, and issues cross the boundaries of neighbouring authorities as well as the responsibilities of different organisations. To be successful, flood risk management needs coordination, as set out in the flood risk management plans. Collaboration by those responsible for flood management is essential along with a commitment to work in partnership with the other organisations and stakeholders who can contribute to the sustainable management of flooding. Partnership working is at the heart of the Plan and will be central to delivery of the objectives and actions out.

Strong relationships between these organisations were developed through the first cycle of The Plan. Working with these organisations has allowed us to gather local knowledge, expertise and experience from the actions delivered in the first cycle, to inform development of the new plans. The roles and responsibilities of some of the organisations with formal flood risk management responsibilities are set out below. There are a wide range of other stakeholders involved in flood risk management. Some work directly with Responsible Authorities through the local partnerships and advisory groups. Others, by virtue of their interests and activities, deliver direct action which can benefit flood risk management. Through the lifetime of the Plan, we will seek to strengthen existing partnerships and establish new ones to achieve the best outcomes for flood risk management.

Roles and responsibilities for flood risk management

Individuals have a personal responsibility to protect themselves and their property from flooding. However, public bodies have responsibilities too and are working together to reduce the impacts of flooding in Scotland. Some of the key roles are outlined below and more information is available from the Aberdeenshire Council website.

Your responsibilities

It is your responsibility to manage your own flood risk and protect yourself, your family, property or business. There are steps you can take now to be flood prepared and reduce the damage and disruption flooding can have on your life.

- View SEPA's flood maps to check if your area is affected by flooding <u>https://map.sepa.org.uk/floodmaps</u>
- Sign up to Floodline to receive messages when flooding is forecast in your area https://www.floodlinescotland.org.uk/

 Know who to contact if flooding happens <u>https://www.sepa.org.uk/media/28952/who_to_contact_2014.pdf</u>

Other useful tools and advice on how to be prepared are available on SEPA's Floodline website and on the Scottish Flood Forum website.

Local authorities and Lead Local Authorities

Local authorities are responsible for working together to produce Scotland's local flood risk management plans and work in partnership with SEPA, Scottish Water and other responsible authorities to develop these.

It is the responsibility of local authorities to implement action to manage flooding and maintain flood defences. Local authorities also inspect, clear and repair watercourses to reduce flood risk and routinely maintain road gullies on public roads and highways. During severe flooding, local authorities will work with the emergency services and coordinate shelter for people evacuated from their homes.

SEPA

SEPA is Scotland's national flood forecasting, flood warning and strategic flood risk management authority. SEPA works in partnership with the Met Office to forecast flooding and operate Floodline to warn the public and emergency responders when flooding is likely. SEPA produces Scotland's flood risk management plans, working closely with other organisations responsible for managing flood risk to ensure that a nationally consistent approach to flood risk management is adopted. SEPA also provides flood risk advice on land use planning when requested and raises awareness of flooding at a national level through education initiatives, community engagement and campaigns.

Scottish Water

Scottish Water is a responsible authority for flood risk management and is working closely with SEPA, local authorities and others to coordinate plans to manage flood risk. Scottish Water has the public drainage duty and is responsible for draining wastewater from properties and businesses, and rainwater run-off from roofs and paved areas within the boundary of properties. Pipework and guttering within the boundary, are the responsibility of the property owner.

Scottish Water helps to protect homes from flooding caused by sewers either overflowing or becoming blocked. This is done in a way that is fair and consistent to customers across the country, with sewer flooding investment prioritised to provide the biggest benefit for customers and the environment first. Currently investment to reduce the risk of sewer

flooding is prioritised towards properties that have experienced internal sewer flooding and are at the highest risk of repeat occurrence of sewer flooding during frequent rainfall events.

National parks

The National Park Authorities, Loch Lomond & Trossachs National Park and Cairngorms National Park, work with SEPA and other responsible authorities to develop the flood risk management plans and local flood risk management plans. They also fulfil a key role in land use planning, carrying out and permitting activities that can help manage and reduce flood risk.

Other organisations

The **Scottish Government** oversees the implementation of the Flood Risk Management (Scotland) Act 2009, which requires the production of flood risk management plans and local flood risk management plans. Scottish Ministers are responsible for setting the policy framework for how organisations collectively manage flooding in Scotland.

Scottish Forestry and **Forestry and Land Scotland** took over the roles of Forestry Commission Scotland in 2018 when the Forestry and Land Management (Scotland) Act 2018 came into force. While these executive agencies of Scottish Government are not formally designated as a responsible authority under the Flood Risk Management (Scotland) Act 2009, they support Scottish Government in delivering its flood risk related duties. This includes engaging in the development of the flood risk management plans through national and local advisory groups, Local Plan District partnerships, and collaborative projects. This reflects the widely held view that forestry can play a significant role in managing flooding.

The **Met Office** provides a wide range of forecasts and weather warnings. SEPA and the Met Office work together through the <u>Scottish Flood Forecasting Service</u>, combining SEPA's hydrological expertise with the Met Office's meteorological data to predict the likelihood and timing of river, coastal and surface water flooding.

The **emergency services** provide emergency relief when flooding occurs and can coordinate evacuations. You should call the emergency services on 999 if you are concerned about your safety or the safety of others and act immediately on any advice provided.

The **Scottish Flood Forum** aims to reduce the impacts of flooding by providing immediate support and by establishing a network of community resilience groups in flood risk areas, to equip communities to cope with flooding.

Consultation, engagement and advice

Further to the strong partnership approach to flood risk management planning in Scotland, it is essential to work with the people and communities that experience and live with the threat of flooding. This ensures that our assessment of the risk is accurate. How flooding is managed should support the communities at risk and effort needs to be targeted to where most can be achieved. Public consultations have been held, jointly with SEPA, during the development of the Plan.

The most recent consultation ran from July 2021 to October 2021 and covered information on the objectives and actions planned for each target area within the North East LPD. The consultation was advertised widely by both Aberdeenshire Council and SEPA.

Aberdeenshire Council submitted a Strategic Environmental Assessment (SEA) Screening Report to the SEA Gateway. The SEA Gateway advised that a Strategic Environmental Assessment was not required for the Plan.

A Habitats Regulations Appraisal (HRA) has been undertaken for the Suite of National Flood Risk Management Plan that has informed the Plan. Where the HRA identified mitigation measures to protect the nature interests, these have been incorporated into the Plan, this only includes actions identified in the Suite of National Flood Risk Management Plan. Studies included in the Suite of National Flood Risk Management Plan and the Plan may recommend schemes or works that will be the subject of future plans and full assessment would be undertaken as part of the development process. Where studies identify actions likely to have significant effects on qualifying interests of nature sites an appropriate assessment will be required. Where it cannot be shown that there will be no adverse effect on site integrity, proposals will be refused.

Consultation Report

A joint consultation was undertaken for both the National and Local Flood Risk Management Plans between 31 July and 31 October 2021. A total of 194 replies were received for the North East LPD area. The responses received were split across the following representatives:-

	Aberdeenshire Council	Aberdeen City Council	The Moray Council
Community group	11	-	-
Local Authority	1	2	2
Local business	12	-	-
Member of the public	151	5	1
Not Answered	1	1	-
Other organisation	5	1	-

Links with other plans and policies

River basin management planning

River basin management aims to protect and improve the condition of Scotland's rivers, lochs, estuaries, coastal waters and groundwater. Taking action to reduce flood risk in Scotland provides opportunities to deliver joint objectives for restoration and flood risk management. Coordination between river basin management and flood risk management can reduce flood risk, while also improving water quality and biodiversity. SEPA is leading the delivery of both the river basin management plan and the flood risk management plans so has worked to ensure that there is integration and coordination between them. This coordination, particularly in regard to consultation and engagement, is important for stakeholders who have an interest in the objectives of both plans.

Land use and spatial planning

Land use planning decisions are pivotal to achieving sustainable flood risk management. Flood risk management can have significant implications for the location of development and similarly the location of development can have an impact on flood risk. There are four planning authorities within the North East LPD: Aberdeenshire Council, Aberdeen City Council, Moray Council and Cairngorms National Park Authority. Each produces a Local Development Plan for their area.

Aberdeenshire Council develops and adopts a new Local Development Plan currently every five years. It sets out the Council's strategy for delivering appropriate development in Aberdeenshire, considering a number of potential constraints, including flooding. The current plan was adopted in December 2022.

Periodically Planning Authorities will review and update their Local Development Plans. These plans set out the strategy for delivering appropriate development within each area and take into account a number of constraints, including taking account of the flood risk and the actions proposed in this Plan.

Emergency planning and response

Emergency planning and response is undertaken by Category 1 and 2 responders including Police Scotland, the Scottish Fire and Rescue Service, the Scottish Ambulance Service, both local authorities, the NHS, the Met Office and SEPA. Emergency plans are prepared under the Civil Contingencies Act 2004. Aberdeenshire Council produces its own Community Resilience Strategy whilst Local Resilience Partnerships coordinate the emergency response to flood events, such as road closures, evacuations and temporary accommodation.

Scottish Water investment plans

There is a close relationship between Local Flood Risk Management Plans and Scottish Water's 25 year strategic plan. Sewer flooding is not considered in detail in the Flood Risk Management Plans as it remains a high priority for Scottish Water and its customers. Scottish Water's close involvement in flood risk management planning aims to ensure that there is strong coordination between the management of sewer flooding and wider surface water flood risk, and the actions to be taken forward by local authorities and others.

Duty to assess bodies of water and schedule clearance and repair works

The duty to assess bodies of water and schedule clearance and repair works lies with Aberdeenshire Council, Aberdeen City Council and The Moray Council. Each Council has a risk-based approach to assessing bodies of water that may give rise to flooding. Where potential flood risk has been identified the relevant water body has been included in the relevant Council's routine inspection schedule. The frequency of inspection is dependent on the assessed risk, any works identified during these inspections are included in the Council's schedule of clearance and repair. Each schedule of clearance and repair works are made available for public inspection.

The following are links from each local authority to access schedules of clearance and repair under Section 18 of the Flood Risk Management (Scotland) Act 2009:

Local Authority	Method of	Hyperlink or web access
	access	
Aberdeenshire	Website	https://www.aberdeenshire.gov.uk/environment/flooding/
Council		
Aberdeen City	On request	https://www.aberdeencity.gov.uk
Council		
The Moray	Website	www.moray.gov.uk/flooding
Council		

Next steps and monitoring progress

Aberdeenshire Council and the other responsible authorities are committed to continue to work together, improving the understanding and response to flooding and managing flood risk for the good of Scotland through this and subsequent planning cycles.

Progress will be monitored throughout the years covered by this plan through ongoing joint working arrangements under the Local Plan District partnerships. Lead local authorities will provide an interim report on the progress of delivering all actions in the local flood risk management plans not earlier than 2 years and not later than 3 years from its publication. A final report will also be prepared at the end of the second planning cycle. A third set of flood risk management plans and local flood risk management plans will be published in 2027/2028.

Funding review for future Local flood risk management actions

The distribution of Scottish Government grant funding for actions in the plan for the period 2022 – 2028 is currently being considered by a flood risk management working group¹. This group will put forward options and recommendations to Scottish Ministers and COSLA, through the Settlement and Distribution Group, for consideration. A decision will not be made in time for the publication of this plan. As such it should be noted that it may not be possible for all actions identified in the Plan to be grant funded. Inclusion of an action in this plan does not formally commit a Council to implement it, if reasons arise which make any actions undeliverable, including inability to secure adequate funding.

This plan remains the best understanding of the objectives and actions required over the long term to manage flood risk in the identified high risk areas within this LPD. The delivery of the Plan, particularly the ambitions on how quickly actions can be delivered, may have to be adapted to reflect wider developments in public funding, the ability of responsible authorities to access funding from other sources, pandemic recovery, and other national priorities.

¹ Membership of the group includes representatives from Scottish Government, the Convention of Scottish Local Authorities (COSLA), local authorities, Society of Chief Officers of Transportation in Scotland (SCOTS) flood risk management group and SEPA.

North East Local Plan District (LPD 6)

Local flood risk management plans 2022-2028

The North East Local Plan District covers an area of around 6,500km² and has a population of approximately 500,000 people. It covers part of the northeast of Scotland from the central and eastern Grampians, north to the Outer Moray Firth and east to the Aberdeenshire coastline.

Within the Cairngorms National Park, heather and montane habitats dominate. Elsewhere, land use is typically arable, horticultural farmland and improved grasslands. The main urban area is around Aberdeen City. The River Dee, River Don, River Deveron and the River Ythan are the main rivers in the area. There are a few large lochs in the area including Loch Muick, Loch of Strathbeg, Loch of Skene and Loch Kinord. The coastline is approximately 220km in length with variable extents of beach and hard rock.

There is river, surface water and coastal flood risk in the Local Plan District, with the main risk coming from river and surface water flooding. The area has been affected by several large floods, including in December 2015 when Storm Frank caused considerable damage throughout Deeside, most notably in Ballater. Subsequent storms in January 2016 caused significant damage throughout the area including in Inverurie, Port Elphinstone, Kemnay, Kintore and Ellon. Significant flooding from the sea and from smaller watercourses and surface water has also occurred, most notably in Aberdeen and Stonehaven, with many towns and villages also affected by flooding.

Currently it is estimated that there are 51,000 people and 30,000 homes and businesses at risk from flooding. This is estimated to increase to 64,000 people and 38,000 homes and businesses by the 2080s due to climate change. The annual cost of flooding is approximately £26 million. Note however that flooding from wave overtopping is not fully represented in the assessment of flood risk and the impact of coastal flooding may be underestimated.

Local flood risk management planning is led by Aberdeenshire Council who are the lead authority. Other responsible authorities include Aberdeen City Council, Moray Council, Cairngorms National Park Authority and Scottish Water. They are supported by Scottish Government agencies including Forestry and Land Scotland, Scottish Forestry and Transport Scotland. Within this Local Plan District, actions are regularly carried out by responsible authorities to help prepare communities for potential flooding and reduce the impact of any flooding that does occur.

Actions across the Local Plan District

Responsible authorities carry out actions in all areas of the Local Plan District which help to manage current and future flooding. These actions help to ensure that key aspects of flood risk management are taken forward in all locations. They ensure that for example new housing developments occur in the right places, and that critical flood risk information is developed and updated for all areas. The following actions are due to take place over the next 6 years, and most of these are carried out on an ongoing basis.

	Awareness raising
Action	SEPA, the responsible authorities and other organisations such as the Scottish Flood Forum work together through national and local initiatives to help communities understand the risk of flooding and what actions individuals can take. Improved awareness of flood risk and actions that prepare individuals, homes and businesses for flooding can reduce the overall impact of flooding.
	Local authorities undertake additional awareness raising activities when developing any specific project proposals and will engage with community resilience groups and local communities.
	Scottish Flood Forum support flood risk communities by raising
	community awareness, promoting self-help, developing community groups and establish a recovery support programme after a flood.
Funding	This will be funded via relevant Local Authorities revenue budgets. SEPA's role in this action is funded by Scottish Government through SEPA's grant in aid settlement.
Co-ordination	Aberdeenshire, Aberdeen City and Moray Councils will work with local partners and responsible authorities to ensure that the most
	appropriate approach is undertaken.
Timing	2022-2028

	Data to support climate resilience
Action	As Scotland's hydrometric authority, SEPA operates a network of
	stations to measure river level, flow, rainfall, sea level, loch and
	groundwater level. The data goes into a long term data archive and
	is critical to underpin all flood risk management activities including

	flood warning, flood mapping, design of flood protection and
	sustainable development as well as supporting a range of
	regulatory and recreational uses.
	SEPA will continue to maintain and develop its hydrometric
	network, contribute to UK and international data archives, and
	improve and update the datasets used for flood frequency analysis.
	SEPA will support research and development of data, methods and
	guidance to improve the evidence on which decisions can be
	made, and to enable the impact of climate change to be included in
	all flood risk management activities.
Funding	SEPA's role in this action is funded by Scottish Government
	through SEPA's grant in aid settlement.
Co-ordination	SEPA will coordinate with a range of other parties as required to
	deliver better and more accessible data, and ongoing
	improvements to the use of the data to underpin flood risk
	management activities and decisions.
Timing	2022-2028

	Emergency plans
Action	Many organisations, including local authorities, the emergency
	services and SEPA provide an emergency response to flooding.
	Emergency plans are prepared and maintained under the Civil
	Contingencies Act 2004 by Category 1 and 2 Responders and are
	coordinated through regional and local resilience partnerships,
	often supported by voluntary organisations. They set out the steps
	to be taken to maximise safety and minimise impacts during
	flooding. Emergency plans may also be prepared by individuals,
	businesses, organisations or communities. Scottish Water is a
	Category 2 responder under the Civil Contingencies Act 2004 and
	will support regional and local resilience partnerships as required.
Funding	Aberdeenshire, Aberdeen City and Moray Councils provide
	emergency planning and response through their respective annual
	revenue budget.
Co-ordination	Local Resilience Partnership
Timing	2022-2028

	Flood forecasting
Action	The Scottish Flood Forecasting Service is a partnership between
	SEPA and the Met Office. The service continues to produce a

	daily, national flood guidance statement, issued to emergency responders, local authorities, and other organisations with flood risk management duties. As the flood warning authority for Scotland SEPA continues to provide its flood warning service issuing flood alerts and warnings when required, giving people a better chance of reducing the impact of flooding on their home or business.
Funding	SEPA work in partnership with the Met Office and will work closely with all other authorities involved in emergency response to
	flooding.
Co-ordination	SEPA's role in this action is funded by Scottish Government
	through SEPA's grant in aid settlement.
Timing	2022-2028

	Flood warning development framework
Action	SEPA published a new flood warning development framework in 2022, which details the ambition and strategic actions to maintain and improve the flood warning service across Scotland.
	SEPA will further develop phase 1 of the Scottish Flood Forecast based on feedback gathered during public beta release before fully launching the service to the public formally in early 2023. Phase 1 is the national 3-day flood forecast and the starting point of our journey in providing the public with earlier and improved flood information.
	SEPA will continue to follow the service design approach for phase 2 of the Scottish Flood Forecast, which will provide the public with more localised flood forecast information. User research will determine what information will be displayed on the regional flood forecast webpages. It is anticipated that the final service will bring together all live information such as flood warnings, river levels and rainfall data into a central hub that is easily accessible for the public.
	Working in close partnership with the Met Office through the Scottish Flood Forecasting Service, SEPA will develop its capability in surface water flooding forecasting, focusing initially on the transport sector to support climate-ready infrastructure. SEPA will also undertake a prioritised improvement programme of existing river and coastal flood warning schemes to provide more

	accurate forecasting with improved lead time.
Funding	SEPA's role in this action is funded by Scottish Government
	through SEPA's grant in aid settlement.
Co-ordination	SEPA work in partnership with the Met Office. Appropriate
	engagement with the other authorities involved in emergency
	response will happen as the flood warning developments are
	progressed.
Timing	2022 - 2028

	Future flood risk management planning
Action	The years covered by the lifetime of this plan are crucial. Radical
	progress is needed in how we reduce our impact on the climate
	and respond to the effects of climate change. How we plan to
	manage flooding to our communities is on the front line of the
	challenges of this decade. The 2027 flood risk management
	plans will be more ambitious than ever before. The plans will look
	to develop long term plans for more flood resilient communities
	prepared for the impacts of climate change.
	The priority areas which will be the focus points of the next flood
	risk management plans will be identified in 2024 with the
	designation of PVAs. A 3-month public consultation will be held to
	inform the PVA designation.
	We will plan for a better future by publishing our flooding services
	strategy in 2023 with a clear and measurable delivery plan. We
	will put greener, fairer communities at the heart of our ambitions.
	SEPA has set its own target to be a regenerative organisation by
	2030 and the next set of plans will further this ambition.
	During this plan cycle, SEPA will work to develop new
	partnerships with a wider range of stakeholders, including
	businesses and commercial sectors. We will investigate
	alternative sources of finance to tackle flooding and drive forward
	practical options for adaptation.
Funding	SEPA's role in this action is funded by Scottish Government through
	SEPA's grant in aid settlement.
Co-ordination	SEPA will lead the work, in partnership with the Scottish Government and other responsible authorities. A wider range of partners and
	stakeholders will be developed to support the action. SEPA will carry
	out a full consultation on the next draft flood risk management plans in
	out a fair concentration on the next afait need not management plane in

	2026.
Timing	Ongoing / 2022-2028
	Flooding services strategy 2023
	Next flood risk management plans 2027
	Guidance development
Action	The Scottish Government and SEPA will develop and update guidance to inform flood risk management projects. This guidance will be produced in 2022 and will look at how best to adapt to the long-term impacts of climate change and the most appropriate methods of assessing the benefits of flood risk management actions.
	Technical guidance to support flood risk management partners will be reviewed and updated by SEPA where required.
	Scottish Forestry, in collaboration with its UK counterparts, will produce guidance on designing and managing forests to reduce flood risk.
	Guidance will be developed to help local authorities understand the requirements for mapping relevant bodies of water and sustainable urban drainage systems in their areas.
Funding	SEPA's role in this action is funded by Scottish Government through SEPA's grant in aid settlement.
Co-ordination	The Scottish Government, SEPA and Scottish Forestry all have lead roles in delivering the new or updated guidance outlined. A range of forums will be used to help coordinate and develop the guidance with the appropriate input from others, including SAIFF (The Scottish Advisory Implementation Forum for Flooding) and cross-party working groups.
Timing	Draft flood studies guidance (SEPA) 2023 Options appraisal & Adaptation guidance (SG & SEPA) 2023 Other guidance & updates 2023-2028
	Hazard mapping updates
Action	An understanding of flooding is essential to develop a plan led risk-based approach to flood risk management. SEPA will continue

risk-based approach to flood risk management. SEPA will continue
to update their national hazard mapping, which shows the
likelihood of flooding in Scotland from different flooding sources:
https://www.sepa.org.uk/environment/water/flooding/flood-maps/.
SEPA will continue to develop the hazard mapping viewer to make

	it easier for the public, partners and stakeholders to access data on the likelihood of flooding. SEPA will also review how modelling and mapping updates are undertaken to develop a more effective method of regional and national updates for the hazard maps.
Funding	SEPA's role in this action is funded by Scottish Government through SEPA's grant in aid settlement.
Co-ordination	SEPA will work with other relevant parties - including authorities who have ownership of data used in flood mapping - to develop the quality and accessibility of flood hazard mapping.
Timing	2022-2028

	Land use planning
Action	Local authorities, SEPA and Scottish Water all have a responsibility under the Flood Risk Management (Scotland) Act 2009 to support sustainable flood risk management through the land use planning process. National planning policies set out the Scottish Ministers' priorities for the development and use of land. Under this approach, new development in areas with medium to high likelihood of flooding should generally be avoided. Current national planning policies aim to restrict development within the floodplain and limit exposure of new receptors to flood risk, promote flood reduction via natural and structural flood management measures and restoration of natural features, and avoid increased surface water flooding through sustainable drainage and the minimisation of impermeable surfaces. Locally determined planning policies may place further requirements within their area of operation to restrict inappropriate development and prevent unacceptable risk.
Funding	SEPA's role in this action is funded by Scottish Government through SEPA's grant in aid settlement.
Co-ordination	SEPA will work with other relevant parties - including authorities who have ownership of data used in flood mapping - to develop the quality and accessibility of flood hazard mapping.
Timing	2022-2028

	Maintenance
Action	Local authorities have a duty to assess bodies of water and to
	carry out clearance and repair works where such works would
	substantially reduce flood risk. Local authorities are also
	responsible for the drainage of roads. In addition, local authorities

	may also be responsible for maintenance of any existing flood protection schemes or works. Scottish Water will continue to undertake risk-based inspection,
	maintenance 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.
Funding	The assessment of watercourses, clearance and repair works and
	maintenance of all council assets are funded through the Council's
	annual revenue budget
Co-ordination	Scottish Water will keep responsible authorities informed of large
	scale capital maintenance work to identify opportunities for co-
	ordination.
Timing	2022-2028

	Natural flood management mapping
Action	SEPA will continue to support activities that improve our
	understanding of how to effectively target and deliver natural flood
	management. As part of this, SEPA will review and update the
	opportunities mapping for natural flood management. This will
	include linking blue-green infrastructure with the surrounding
	natural catchment and coastline. Natural flood management seeks
	to store or slow down flood waters through measures such as the
	planting of woodlands, wetland creation, river restoration, or the
	creation of intertidal habitats.
Funding	In addition to flooding benefits, natural flood management
	measures can also provide many additional benefits to
	biodiversity, water quality, recreation, and carbon storage.
Co-ordination	SEPA's role in this action is funded by Scottish Government
	through SEPA's grant in aid settlement.
Timing	SEPA will work with key stakeholders to review and update the
	opportunities mapping.
	National flood risk assessment
Action	Understanding the future impacts of climate change remains a central theme of SEPA's flood risk management activity. SEPA will

Action	Understanding the future impacts of climate change remains a
	central theme of SEPA's flood risk management activity. SEPA will
	use the latest UK information on climate change to support an
	improved understanding of the changes in flood risk across the
	21st century. SEPA will use the most suitable data to develop the

	national flood risk assessment (NFRA) 2024. This assessment will
	be used to identify future potentially vulnerable areas.
Funding	SEPA's role in this action is funded by Scottish Government
	through SEPA's grant in aid settlement.
Co-ordination	SEPA will work with others as the NFRA is updated, including to
	keep other responsible authorities informed through the Local Plan
	District Partnerships.
Timing	December 2024

	National surface water mapping
Action	The national flood risk assessment 2018 identified that surface
	water flooding has the potential to impact more properties in
	Scotland than any other source of flooding. Over the next 6 year
	cycle SEPA will look to vastly improve its national understanding of
	surface flood risk by undertaking a wholescale update of the
	national surface water maps to reflect developments in data and
	understanding, including the impact of climate change.
Funding	SEPA's role in this action is funded by Scottish Government through
	SEPA's grant in aid settlement.
Co-ordination	SEPA will work with others as the NFRA is updated, including to keep
	other responsible authorities informed through the Local Plan District
	Partnerships.
Timing	December 2024

	Reservoirs
Action	SEPA will continue to develop its assessment of flood risk from
	dam failure and use these assessments to direct a proportionate
	regulatory approach to ensure reservoir safety. Over the next
	management cycle, we will implement further developments of our
	flood warning capabilities in the unlikely event of reservoir failure.
Funding	SEPA's role in this action is funded by Scottish Government
	through SEPA's grant in aid settlement.
Co-ordination	SEPA will work with others as the NFRA is updated, including to
	keep other responsible authorities informed through the Local
	Plan District Partnerships.
Timing	December 2024

	Scottish Flood Defence Asset Database					
Action	The Scottish Flood Defence Asset Database provides information					
	on existing flood protection schemes. National data on flood					
	protection infrastructure is needed to understand flood risk and to					
	develop adaptation planning for Scotland. SEPA will continue to					
	host SFDAD and look for opportunities to support the development					
	of our understanding of how and when Scotland's flood defence					
	assets should be adapted to continue to maintain protection from					
	flooding in the future.					
Funding	SEPA's role in this action is funded by Scottish Government through					
	SEPA's grant in aid settlement.					
Co-ordination	SEPA will work with others as the NFRA is updated, including to keep					
	other responsible authorities informed through the Local Plan District					
	Partnerships.					
Timing	December 2024					

	Self help					
Action	Everyone is responsible for protecting themselves and their					
	property from flooding. People can take 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 flood resilience measures, signing up to					
	Floodline, engaging with their local flood group, and ensuring that					
	properties and businesses are insured against flood damage. The					
	following places offer help with taking steps to protect yourself:					
	https://www.floodre.co.uk/					
	https://www.biba.org.uk/current-issues/flood-insurance/					
	https://floodlinescotland.org.uk/					
	https://scottishfloodforum.org/					
	Responsible authorities and SEPA will continue to develop the					
	understanding of flood risk to communities and promote measures					
	to help individuals and businesses to reduce their risk.					
Funding	SEPA's role in this action is funded by Scottish Government					
	through SEPA's grant in aid settlement.					
Co-ordination	SEPA will work with others as the NFRA is updated, including to					
	keep other responsible authorities informed through the Local Plan					
	District Partnerships.					
Timing	December 2024					

More specific local actions to manage flood risk in target areas are detailed in the potentially vulnerable areas (PVAs) sections below.

Potentially vulnerable areas

Potentially vulnerable areas (PVAs) were designated in 2018 based on the potential current or future risk from all sources of flooding.

This designation was informed by the national flood risk assessment (available to view at: <u>https://www.sepa.org.uk/data-visualisation/nfra2018/</u>).

As part of continued analysis of flood risk, the national flood risk assessment and potentially vulnerable areas (PVAs) will be reviewed every 6 years to take on board any new information.

There are 26 potentially vulnerable areas (PVAs) in this Local Plan District.

The following sections provide more information on these areas.

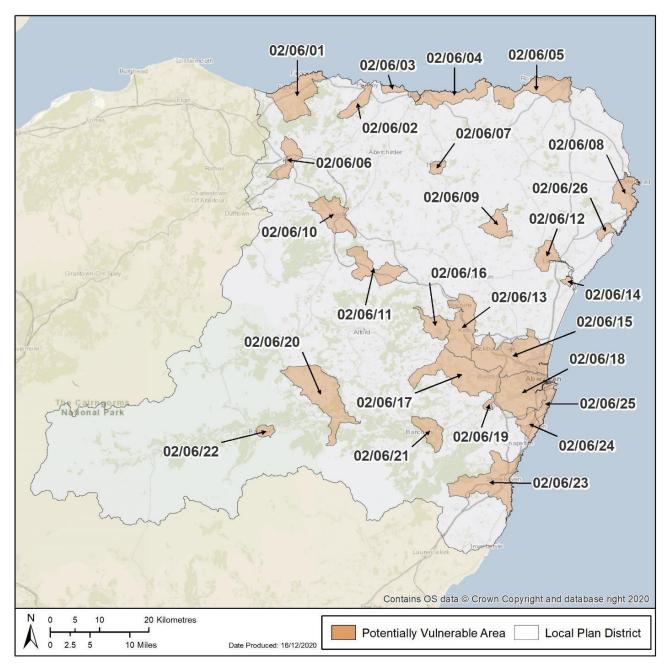


Figure 1. Potentially vulnerable areas in the North East Local Plan District © Crown copyright and database rights 2022. All rights reserved. Ordnance Survey Licence number 01000020767

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LPD 6 North East – List of PVAs

Click the blue text to select your area of interest

PVA Ref	PVA Name	Local authority area	Page number
02/06/01	Portgordon and Buckie	Moray	
02/06/02	Portsoy	Aberdeenshire	
02/06/03	Banff and Whitehills	Aberdeenshire	
02/06/04	Macduff	Aberdeenshire	
02/06/05	Fraserburgh and Rosehearty	Aberdeenshire	
02/06/06	Keith and Newmill	Moray	
02/06/07	Turriff	Aberdeenshire	
02/06/08	Peterhead	Aberdeenshire	
02/06/09	Methlick	Aberdeenshire	
02/06/10	Huntly	Aberdeenshire	
02/06/11	Insch	Aberdeenshire	
02/06/12	Ellon	Aberdeenshire	
02/06/13	Inverurie and Kintore	Aberdeenshire	
02/06/14	Newburgh	Aberdeenshire	
02/06/15	Aberdeen City - North	Aberdeen City	
02/06/16	Kemnay	Aberdeenshire	
02/06/17	Westhill	Aberdeenshire	

PVA Ref	PVA Name	Local authority	Page number
02/06/18	Aberdeen City - South	Aberdeen City	
02/06/19	Peterculter	Aberdeen City	
02/06/20	<u>Aboyne</u>	Aberdeenshire	
02/06/21	Banchory	Aberdeenshire	
02/06/22	Ballater	Aberdeenshire	
02/06/23	Stonehaven	Aberdeenshire	
02/06/24	Portlethen	Aberdeenshire	
02/06/25	Cove and Nigg Bay	Aberdeen City	
02/06/26	Cruden Bay	Aberdeenshire	

02/06/01 (Portgordon and Buckie)

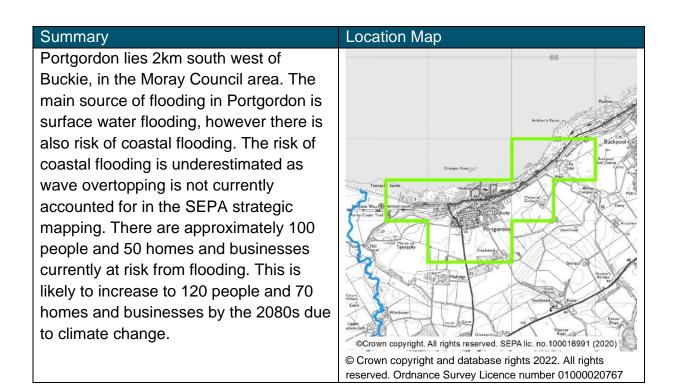
This area is designated as a potentially vulnerable area due to Buckie and Portgordon being at risk of coastal and surface water flooding. Due to climate change induced sea-level rise, this flood risk is expected to increase. Recent flooding has occurred due to coastal, river and surface water flooding.

There are 2 target areas in this potentially vulnerable area, which have been the focus of further assessment, these are listed below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Portgordon Buckie and Portessie (target area 398) (target area 455)

North East Local Flood Risk Management Plan datasheet				
Target Area name	Portgordon	Target Area ID	398	



What is the current understanding of Flood Risk

This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved for coastal flooding by the Portgordon Flood Study (2019). The understanding of surface water flooding is improved by the Moray Surface Water Management Plan. There is a long history of coastal flooding in the Portgordon target area including notable flooding during the North Sea flood of January 1953. There are also periodic records of surface water flooding.

The Dynamic Coast project has shown that parts of the shoreline in or adjacent to this target area are subject to erosion at present or are considered likely to erode in the future. Consideration should be given to how erosion might impact flood risk. Any actions taken should aim to support building natural resilience to flooding and not lead to an increase in erosion.

Objective	ID	Description		
Avoid flood risk	3981	Avoid inappropriate development that		
		increases flood risk in Portgordon		
Prepare for flooding	3982	Prepare for current flood risk and future		
		flooding as a result of climate change in		
		Portgordon		
Reduce flood risk	3983	Reduce the risk of surface water flooding in		
		Portgordon		
Reduce flood risk	3984	Reduce the risk of coastal flooding in		
		Portgordon		

Target Area	Portgordon	Action ID	39801	
Action Type	Strategic mapping improve	ments		
Delivery Lead	SEPA			
Indicative Delivery	2023-2024			
Description	SEPA has undertaken impi	roved coastal	modelling in this	
	target area including taking account of the impact of waves on			
	coastal flooding. We will complete and publish the outcomes of			
	this modelling work to inform decision making with respect to			
	flooding at the coast.			
Funding	SEPA's role in this action is funded by Scottish Government			
	through SEPA's grant in aid settlement.			
Coordination	SEPA will work with the local authority on the potential to			
	coordinate the flood map update with any other actions being			
	carried out to understand o	r reduce coas	stal flooding.	

Target Area	Portgordon	Action ID	39802	
Action Type	Sewer flood risk assessme	nt		
Delivery Lead	Scottish Water			
Indicative Delivery	2023-2025			
Description	Scottish Water will undertake a modelling			
	assessment in the Buckie (Moray East) sewer catchment to			
	improve knowledge and understanding of flood risk in this area			
	as required under Section 16 of the Flood Risk Management			
	(Scotland) Act 2009			
Funding	Funding for this action is secured within Scottish Water's			
	business plan			

Coordination	Outputs of this modelling assessment will be shared with local authorities and SEPA		
Target Area	Portgordon	Action ID	39803
Action Type	Flood defence maintenance	Э	
Delivery Lead	Moray Council		
Indicative Delivery	Ongoing		
Description	Maintenance of the existing coastal defences should continue and updates to the maintenance regime be made based on the findings of the flood study. The surface water management plan did not make any recommendations for improvement works in Portgordon.		
Funding	Moray Council Revenue		
Coordination	Moray Council will continue to maintain the scheme liaising with responsible authority and the community on issues that may arise		

Target Area	Portgordon	Action ID	39804	
Action Type	Flood warning maintenance	Э		
Delivery Lead	SEPA			
Indicative Delivery	Ongoing			
Description	SEPA should maintain the	Moray Firth c	oastal flood warning	
	scheme.			
Funding	SEPA's role in this action is funded by Scottish Government			
	through SEPA's grant in aid settlement.			
Coordination	SEPA will work with the local authorities on the potential to use			
	information from any flood studies around the Moray Firth			
	coast to inform ongoing flood warning. SEPA will continue to			
	raise awareness of flood warning and engage with			
	communities about the serv	vice when req	uired.	

North East Local Flood Risk Management Plan datasheet					
Target Area name	Buckie and	Target Area ID	455		
	Portessie				

Summary	Location Map
Buckie and Portessie front onto Spey	
Bay on the south coast of the Moray	00 coper 100
Firth in the Moray Council area. The	Same for Cargon of Cargon
main sources of flooding are coastal and	
surface water flooding. The flood maps	
currently don't include the impact of	
waves. As a result, the assessment of	
coastal flood risk is considered to be an	
underestimate. There are approximately	
520 people and 300 homes and	
businesses currently at risk from	
flooding. This is likely to increase to 810	
people and 460 homes and businesses	
by the 2080s due to climate change.	©Crown copyright. All rights reserved. SEPA lic. no.100016991 (2020)
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What is the current understanding of Flood Risk

This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved for surface water by the Moray Surface Water Management Plan which includes Buckie as a priority area. The understanding of coastal flooding is improved in Portessie by the coastal flood risk assessment completed in 2016 and is improved across the target area by the development and operation of the Moray Firth flood warning scheme. There is a long history of flooding in the Buckie and Portessie area including notable coastal flooding during the North Sea flood of January 1953. There are also frequent records of surface water flooding in Buckie.

The Dynamic Coast project has shown that parts of the shoreline in or adjacent to this target area are subject to erosion at present or are considered likely to erode in the future. Consideration should be given to how erosion might impact flood risk.

Any actions taken should aim to support building natural resilience to flooding and not lead to an increase in erosion.

Objective	ID	Description	
Avoid flood risk	4551	Avoid inappropriate development that	
		increases flood risk in Buckie and Portessie	
Prepare for flooding	4552	Prepare for current flood risk and future	
		flooding as a result of climate change in	
		Buckie and Portessie	
Reduce flood risk	4553	Reduce the risk of coastal flooding in	
		Portessie	
Reduce flood risk	4554	Reduce the risk of surface water flooding in	
		Buckie and Portessie	

Target Area	Buckie and Portess	ie	Action ID	45501		
Action Type	Flood scheme or works design					
Delivery Lead	Moray Council	Indicative Delivery 2025-27				
Description	The detailed design for the coastal flood works identified in the Portessie Options Appraisal Report (2016) should be progressed. It is proposed that the existing setback wall is rebuilt to a greater height. This option would provide a 200yr (0.5% annual exceedance probability) event plus climate change standard of protection.					
	The responsible authority proposes this action as the best viable option for managing flood risk in this community. The delivery of this action is subject to capital funding being made available.					
Funding	This works is subject to funding via the Scottish Government flood capital monies. This monies have not been allocated at the time of the production of this report.					
Coordination	The action delivery lead is The Moray Council in coordination					
	with other responsible authority including community engagement					
Target Area	Buckie and Portess		Action ID	45502		
Action Type	Flood scheme or works implementation					
Delivery Lead	Moray Council Indicative Delivery 2027-28					
Description	Progress the coastal Portessie Flood Protection Scheme based on the detailed design. As built drawings should be made					

	available to SEPA, for consideration in the Scottish Flood
	Defence Asset Database, flood map updates and flood warning
	scheme updates.
	The responsible authority proposes this action as the best viable
	option for managing flood risk in this community. The delivery of
	this action is subject to capital funding being made available.
Funding	This works is subject to funding via the Scottish Government
	flood capital monies. This monies have not been allocated at the
	time of the production of this report.
Coordination	The action delivery lead is The Moray Council in coordination
	with other responsible authority including community engagement

Target Area	Buckie and Portessi	е	Action ID	45503	
Action Type	Flood scheme or wo	Flood scheme or works design			
Delivery Lead	Moray Council	Indica	tive Delivery	2026-27	
Description	Further work may be required to determine business case prior to progressing to detailed design. The detailed design for the flood works identified in the surface water management plan should be progressed. The preferred options for surface water management in Buckie provides a 30 year (3.33% annual exceedance probability) event standard of protection and consists of drainage improvements, including a new combined sewer overflow, flap valves and an interception trench.				
	The responsible authority proposes this action as the best viable option for managing flood risk in this community. The delivery of this action is subject to capital funding being made available.				
Funding	This works is subject to funding via the Scottish Government flood capital monies. This monies have not been allocated at the time of the production of this report.				
Coordination		The action delivery lead is The Moray Council in coordination with other responsible authority including community engagement			

Target Area	Buckie and Portessie		Action ID	45504
Action Type	Flood scheme or works implementation			
Delivery Lead	Moray Council Indica		tive Delivery	2027-28
Description	Progress the flood works identified in the surface water			
	management plan based on the detailed design. As built			
	drawings should be made available to SEPA, for consideration in			
	the Scottish Flood Defence Asset Database, flood map updates			
	and flood warning s	cheme up	dates.	

	The responsible authority proposes this action as the best viable
	option for managing flood risk in this community. The delivery of
	this action is subject to capital funding being made available.
Funding	This works is subject to funding via the Scottish Government
	flood capital monies. This monies have not been allocated at the
	time of the production of this report.
Coordination	The action delivery lead is The Moray Council in coordination
	with other responsible authority including community engagement

Target Area	Buckie and Portessie		Action ID	45505
Action Type	Community engage	ment		
Delivery Lead	Moray Council	Indica	tive Delivery	Ongoing
Description	The responsible authorities to continue to engage with the community, with particular focus on the detailed design of the Portessie Flood Protection Scheme and the works identified in the surface water management plan for Buckie, and building community resilience			
Funding	Moray Council Revenue			
Coordination	Moray will coordinate with responsible authority to ensure that communities are aware of the risk and resilient to the risk of flooding			

Target Area	Buckie and Portessie		Action ID	45506
Action Type	Sewer flood risk ass	Sewer flood risk assessment		
Delivery Lead	Scottish Water Indicative Delivery 2023-2025		2023-2025	
Description	Scottish Water will u	undertake	a modelling	
	assessment in the E	assessment in the Buckie (Moray East) sewer catchment to		
	improve knowledge and understanding of flood risk in this area			
	as required under Section 16 of the Flood Risk Management			
	(Scotland) Act 2009			
Funding	Funding for this action is secured within Scottish Water's			
	business plan			
Coordination	Outputs of this modelling assessment will be shared with local			
	authorities and SEP	PA A		

Target Area	Buckie and Portessie		Action ID	45507
Action Type	Surface water management plan			
Delivery Lead	Moray Council	Indica	tive Delivery	Ongoing

Description	The surface water management plan will be implemented. It		
	should regularly be updated and reviewed.		
Funding	Moray Council Revenue Funds		
Coordination	The action delivery lead is The Moray Council in coordination		
	with Scottish Water.		

Target Area	Buckie and Portessie		Action ID	45508
Action Type	Strategic mapping i	mproveme	nts	
Delivery Lead	SEPA Indicative Delivery 2023-2024			2023-2024
Description	SEPA has undertaken improved coastal modelling in this target area including taking account of the impact of waves on coastal flooding. We will complete and publish the outcomes of this modelling work to inform decision making with respect to flooding at the coast.			
Funding	SEPA's role in this action is funded by Scottish Government through SEPA's grant in aid settlement.			
Coordination	SEPA will work with the local authority on the potential to coordinate the flood map update with any other actions being carried out to understand or reduce coastal flooding.			

Target Area	Buckie and Portessie		Action ID	45509
Action Type	Flood warning main	tenance		
Delivery Lead	SEPA	SEPA Indicative Delivery Ongoing		
Description	SEPA should maint	ain the Mo	oray Firth coas	stal flood warning
	scheme.			
Funding	SEPA's role in this action is funded by Scottish Government			
	through SEPA's grant in aid settlement.			
Coordination	SEPA will work with the local authorities on the potential to use			
	information from any flood studies around the Moray Firth coast			
	to inform ongoing flood warning. SEPA will continue to raise			
	awareness of flood warning and engage with communities about			
	the service when required.			

02/06/02 (Portsoy)

This area is designated as a potentially vulnerable area due to a risk of river flooding in Portsoy from the Soy Burn and the Burn of Durn, and surface water flooding. Recent flooding was caused by rivers.

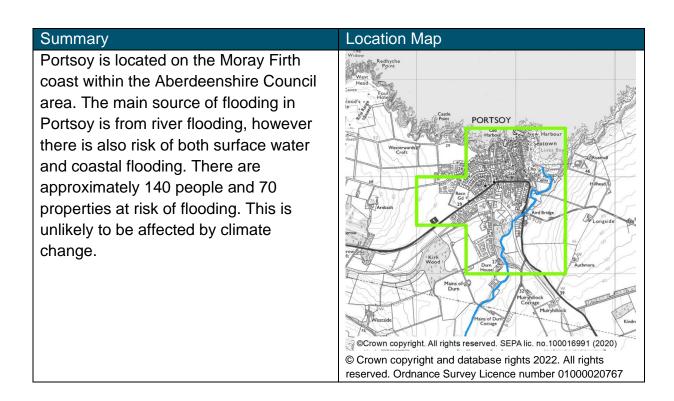
There is 1 target area in this potentially vulnerable area, which has been the focus of further assessment, this is identified below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Portsoy

(target area 399)

North East Local Flood Risk Management Plan datasheet				
Target Area name	Portsoy	Target Area ID	399	



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is underpinned for flood risk from the Soy Burn and Loch Soy by a flood study completed in 2010. The understanding of surface water flooding is improved by a sewer flood risk assessment. There are records of frequent flooding from the Soy Burn in Portsoy including notable flooding in September 2010 and June 2017 following persistent rainfall. There are also records of past flooding from the Burn of Durn.

Objective	ID	Description
Avoid flood risk	3991	Avoid inappropriate development that
		increases flood risk in Portsoy
Prepare for flooding	3992	Prepare for current flood risk and future

		flooding as a result of climate change in Portsoy
Reduce flood risk	3993	Reduce the risk of flooding from the Soy Burn, Loch Soy and surface water in Portsoy

Target Area	Portsoy		Action ID	39901
Action Type	Flood warning main	tenance		
Delivery Lead	SEPA Indicative Delivery Ong		Ongoing	
Description	SEPA should maint	ain the Mo	oray Firth coas	stal flood warning
	scheme.	scheme.		
Funding	SEPA's role in this action is funded by Scottish Government			
	through SEPA's grant in aid settlement.			
Coordination	SEPA will maintain the Moray Firth coastal flood warning			
	scheme. SEPA will continue to raise awareness of flood warning			
	and engage with co	mmunities	about the se	rvice when required.

02/06/03 (Banff and Whitehills)

This area is designated as a potentially vulnerable area due to the risk of flooding to Banff and Whitehills. Banff has been affected by river, coastal and surface water flooding, while Whitehills has been affected by surface water and coastal flooding. Coastal flood risk is likely to increase due to sea level rise caused by climate change. Recent flooding has occurred due to surface water.

There are 2 target areas in this potentially vulnerable area, which have been the focus of further assessment, these are listed below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Banff Whitehills (target area 400) (target area 401)

North East Local Flo	od Risk Management	Plan datasheet	
Target Area name	Banff	Target Area ID	400

Summary	Location Map
The town of Banff is located in the north east of Scotland and faces onto Banff Bay. It is in the Aberdeenshire Council area. The main source of flooding to Banff is coastal flooding which is underestimated in SEPA's flood maps as they do not currently include the impact of waves. There is also a risk from river and surface water flooding. Approximately 230 people and 130 homes and businesses currently are at risk from flooding. This is estimated to increase to 350 people and 210 homes and businesses by the 2080s due to climate change.	Soyndie Bay With the second s

This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved for river and coastal flood risk by the development and operation of the Moray Firth and River Deveron flood warning schemes. There is a long history of flooding in Banff which includes recent flash flooding in September 2019.

Objective	ID	Description
Avoid flood risk	4001	Avoid inappropriate development that increases
		flood risk in Banff
Prepare for flooding	4002	Prepare for current flood risk and future flooding as
		a result of climate change in Banff
Reduce flood risk	4003	Reduce the risk of coastal flooding and flooding
		from the River Deveron in Banff

Target Area	Banff		Action ID	40001
Action Type	Strategic mapping in	mproveme	ents	
Delivery Lead	SEPA	Indica	tive Delivery	2023-2024
Description	SEPA has undertaken improved coastal modelling in this target area including taking account of the impact of waves on coastal flooding. We will complete and publish the outcomes of this modelling work to inform decision making with respect to flooding at the coast.			
Funding	SEPA's role in this action is funded by Scottish Government through SEPA's grant in aid settlement.			
Coordination	SEPA will work with coordinate the flood carried out to under	l map upda	ate with any o	ther actions being

Target Area	Banff		Action ID	40002
Action Type	Flood warning main	tenance		
Delivery Lead	SEPA	Indica	tive Delivery	2026-28
Description	SEPA should maint	ain the Riv	er Deveron fl	ood warning scheme.
	The scheme should	l be investi	gated for imp	rovement and/or
	recalibration.			
Funding	SEPA's role in this action is funded by Scottish Government			
	through SEPA's grant in aid settlement.			
Coordination	SEPA will maintain the River Deveron flood warning scheme.			
	SEPA will continue to raise awareness of flood warning and			
	engage with commu	unities abo	ut the service	when required.

Target Area	Banff		Action ID	40003
Action Type	Flood warning maintenance			
Delivery Lead	SEPA Indica		tive Delivery	Ongoing
Description	SEPA should maintain the Moray Firth coastal flood warning			
	scheme.			

Funding	SEPA's role in this action is funded by Scottish Government
	through SEPA's grant in aid settlement.
Coordination	SEPA will work with the local authorities on the potential to use
	information from any flood studies around the Moray Firth coast
	to inform ongoing flood warning. SEPA will continue to raise
	awareness of flood warning and engage with communities about
	the service when required.

North East Local Flo	od Risk Management	Plan datasheet	
Target Area name	Whitehills	Target Area ID	401

Summary	Location Map
Whitehills is located on the Moray Firth coast in the Aberdeenshire Council area. There are known surface water flooding issues. There is also a risk of coastal flooding, which may increase with sea level risk due to climate change. There are approximately 120 people and 70 homes and businesses currently at risk of flooding. This is likely to increase to 140 people and 80 homes and businesses by the 2080s due to climate change.	Site Nes Site N

This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources, and this national assessment has highlighted the risk of surface water and coastal flooding in this target area. Whitehills has therefore been identified as a new target area for the 2021 flood risk management plans. The national level assessment is improved for surface water by the development of works designed to reduce flooding. A sewer flood risk assessment has also been completed. The understanding of coastal flood risk is improved by the development and operation of the Moray Firth flood warning scheme. There are frequent records of surface water flooding in Whitehills including notable flooding in September 2019. The outflow of surface water to the sea can be restricted by single build-up. There are limited records of coastal flooding.

The Dynamic Coast project has shown that parts of the shoreline in or adjacent to this target area are subject to erosion at present or are considered likely to erode in the future. Consideration should be given to how erosion might impact flood risk. Any actions taken should aim to support building natural resilience to flooding and not lead to an increase in erosion.

Objective	ID	Description
Avoid flood risk	4011	Avoid inappropriate development that
		increases flood risk in Whitehills
Prepare for flooding	4012	Prepare for current flood risk and future
		flooding as a result of climate change in
		Whitehills
Reduce flood risk	4013	Reduce the risk of coastal and surface water
		flooding in Whitehills

Target Area	Whitehills		Action ID	40101
Action Type	Strategic mapping i	mproveme	ents	
Delivery Lead	SEPA	Indica	tive Delivery	2023-2024
Description	SEPA has undertak	en improv	ed coastal mo	odelling in this target
	area including takin	g account	of the impact	of waves on coastal
	flooding. We will co	mplete and	d publish the	outcomes of this
	modelling work to inform decision making with respect to flooding			
	at the coast.			
Funding	SEPA's role in this action is funded by Scottish Government			
	through SEPA's grant in aid settlement.			
Coordination	SEPA will work with the local authority on the potential to			
	coordinate the flood map update with any other actions being			
	carried out to under	stand or re	educe coastal	flooding.

Target Area	Whitehills		Action ID	40102
Action Type	Flood warning main	tenance		
Delivery Lead	SEPA	Indica	tive Delivery	Ongoing
Description	SEPA should maint	ain the Mo	oray Firth coas	stal flood warning
	scheme.	scheme.		
Funding	SEPA's role in this action is funded by Scottish Government			
	through SEPA's grant in aid settlement.			
Coordination	SEPA will work with the local authorities on the potential to use			
	information from any flood studies around the Moray Firth coast			
	to inform ongoing flood warning. SEPA will continue to raise			
	awareness of flood warning and engage with communities about			
	the service when re	quired.		

02/06/04 (Macduff)

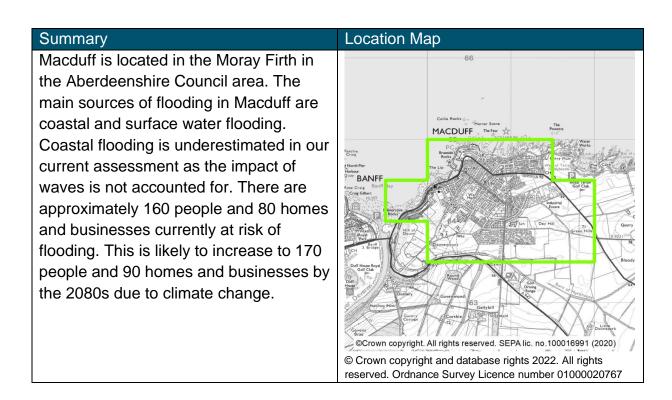
This area is designated as a potentially vulnerable area as Crovie, Gardenstown and Macduff are at coastal flood risk.

There are 3 target areas in this potentially vulnerable area, which have been the focus of further assessment, these are listed below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Macduff Gardenstown Crovie (target area 402) (target area 458) (target area 459)

North East Local Flood Risk Management Plan datasheet				
Target Area name	Macduff	Target Area ID	402	



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

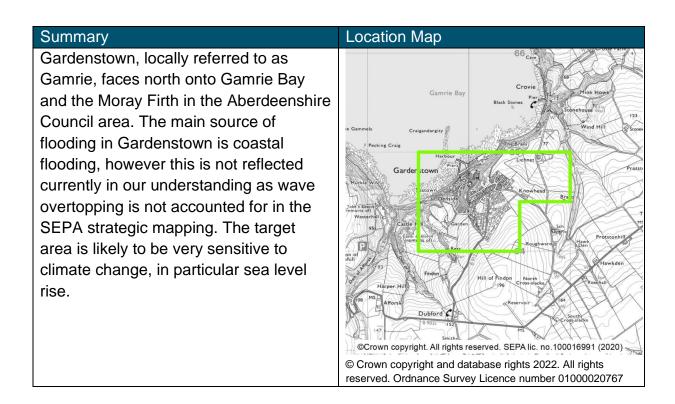
Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved for coastal flooding by the development and operation of the Moray Firth flood warning scheme. The understanding of surface water flooding is improved by a sewer flood risk assessment. There is a long history of flooding recorded in Macduff which includes recent flooding in September 2019 following persistent rain. Spring tides prevented surface water from draining into the sea.

Objective	ID	Description
Avoid flood risk	4021	Avoid inappropriate development that
		increases flood risk in Macduff
Improve data and	4022	Improve data and understanding of the risk of
understanding		coastal flooding in Macduff
Prepare for flooding	4023	Prepare for current flood risk and future
		flooding as a result of climate change in
		Macduff
Reduce flood risk	4024	Reduce the risk of surface water flooding in
		Macduff

Target Area	Macduff		Action ID	40201
Action Type	Strategic mapping in	mproveme	ents	
Delivery Lead	SEPA	Indica	tive Delivery	2023-2024
Description	SEPA has undertaken improved coastal modelling in this target area including taking account of the impact of waves on coastal flooding. We will complete and publish the outcomes of this modelling work to inform decision making with respect to flooding at the coast.			
Funding	SEPA's role in this action is funded by Scottish Government through SEPA's grant in aid settlement.			
Coordination	SEPA will work with coordinate the flood carried out to under	l map upda	ate with any o	ther actions being

Target Area	Macduff		Action ID	40202
Action Type	Flood warning main	tenance		
Delivery Lead	SEPA	Indica	tive Delivery	Ongoing
Description	SEPA should maint	ain the Mo	oray Firth coas	stal flood warning
	scheme.	scheme.		
Funding	SEPA's role in this action is funded by Scottish Government			
	through SEPA's grant in aid settlement.			
Coordination	SEPA will work with the local authorities on the potential to use			
	information from any flood studies around the Moray Firth coast			
	to inform ongoing flood warning. SEPA will continue to raise			
	awareness of flood warning and engage with communities about			
	the service when re	quired.		

North East Local Flood Risk Management Plan datasheet				
Target Area name	Gardenstown	Target Area ID	458	



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

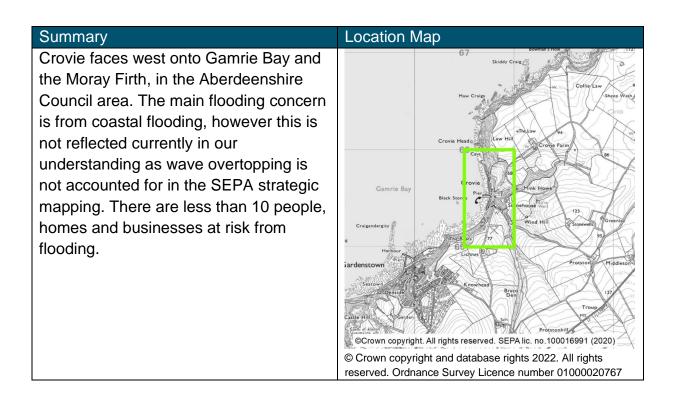
Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources, and this national assessment has highlighted the risk of coastal flooding (particularly associated with climate change) in this target area. Gardenstown has therefore been identified as a new target area for the 2021 flood risk management plans. The national assessment is improved for coastal flood risk by the development and operation of the Moray Firth flood warning scheme. There is a long history of coastal flooding in Gardenstown.

Objective	ID	Description
Avoid flood risk	4581	Avoid inappropriate development that
		increases flood risk in Gardenstown / Gamrie
Improve data and	4582	Improve data and understanding of the risk of
understanding		coastal flooding including the impacts of
		climate change in Gardenstown / Gamrie
Prepare for flooding	4583	Prepare for current flood risk and future
		flooding as a result of climate change in
		Gardenstown / Gamrie

Target Area	Gardenstown		Action ID	45801	
Action Type	Strategic mapping in	mproveme	nts		
Delivery Lead	SEPA	Indica	tive Delivery	2023-2024	
Description	SEPA has undertak	en improv	ed coastal mo	odelling in this target	
	area including takin	g account	of the impact	of waves on coastal	
	flooding. We will co	flooding. We will complete and publish the outcomes of this			
	modelling work to inform decision making with respect to flooding				
	at the coast.				
Funding	SEPA's role in this action is funded by Scottish Government				
	through SEPA's grant in aid settlement.				
Coordination	SEPA will work with the local authority on the potential to				
	coordinate the flood map update with any other actions being				
	carried out to under	stand or re	educe coastal	flooding.	

Target Area	Gardenstown		Action ID	45802
Action Type	Flood warning main	tenance		
Delivery Lead	SEPA	Indica	tive Delivery	Ongoing
Description	SEPA should maint	ain the Mo	oray Firth coas	stal flood warning
	scheme.	scheme.		
Funding	SEPA's role in this action is funded by Scottish Government			
	through SEPA's grant in aid settlement.			
Coordination	SEPA will work with the local authorities on the potential to use			
	information from any flood studies around the Moray Firth coast			
	to inform ongoing flood warning. SEPA will continue to raise			
	awareness of flood warning and engage with communities about			
	the service when re	quired.		

North East Local Flood Risk Management Plan datasheet				
Target Area name	Crovie	Target Area ID	459	



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources, and this national assessment has highlighted the risk of coastal flooding in the target area. This risk could increase as a result of climate change. Crovie has therefore been identified as a new target area for the 2021 flood risk management plans. The national assessment is improved for coastal flood risk by the development and operation of the Moray Firth flood warning scheme. There is a long history of coastal flooding in Crovie including notable flooding in 1953 and 1957.

Objective	ID	Description
Avoid flood risk	4591	Avoid inappropriate development that
		increases flood risk in Crovie
Prepare for flooding	4592	Prepare for current flood risk and future
		flooding as a result of climate change in Crovie
Reduce flood risk	4593	Reduce the risk of coastal flooding in Crovie

Target Area	Crovie		Action ID	45901		
Action Type	Strategic mapping in	mproveme	ents			
Delivery Lead	SEPA	SEPA Indicative Delivery 2023-2024				
Description	SEPA has undertaken improved coastal modelling in this target area including taking account of the impact of waves on coastal flooding. We will complete and publish the outcomes of this modelling work to inform decision making with respect to flooding at the coast.					
Funding	SEPA's role in this action is funded by Scottish Government through SEPA's grant in aid settlement.					
Coordination	SEPA will work with the local authority on the potential to coordinate the flood map update with any other actions being carried out to understand or reduce coastal flooding.					

Target Area	Crovie		Action ID	45902		
Action Type	Flood warning main	tenance				
Delivery Lead	SEPA	Indica	tive Delivery	Ongoing		
Description	SEPA should maint	ain the Mo	oray Firth coas	stal flood warning		
	scheme.					
Funding	SEPA's role in this a	SEPA's role in this action is funded by Scottish Government				
	through SEPA's grant in aid settlement.					
Coordination	SEPA will work with the local authorities on the potential to use					
	information from any flood studies around the Moray Firth coast					
	to inform ongoing flood warning. SEPA will continue to raise					
	awareness of flood warning and engage with communities about					
	the service when required.					

02/06/05 (Fraserburgh and Rosehearty)

This area is designated as a potentially vulnerable area due to river, coastal and surface water flood risk. Fraserburgh is at risk from coastal, river and surface water flooding. Pennan and Sandhaven are at coastal flood risk. Rosehearty is at risk of river and surface water flooding. Recent surface water flooding affected parts of the potentially vulnerable area in September 2019.

There are 4 target areas in this potentially vulnerable area, which have been the focus of further assessment, these are listed below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Fraserburgh	(target area 408)
Pennan	(target area 460)
Sandhaven	(target area 461)
Rosehearty	(target area 462)

North East Local Flood Risk Management Plan datasheet						
Target Area name	Target Area nameFraserburghTarget Area ID408					

Summary	Location Map
Fraserburgh is located on the shoreline of the Moray Firth in Aberdeenshire. The main sources of flooding in Fraserburgh are surface water and coastal flooding. Flooding is also reported from the Kessock Burn. There are approximately 680 people and 410 homes and businesses currently at risk from flooding. This is likely to increase to 880 people and 540 homes and businesses by the 2080s due to climate change.	Crown copyright and database rights 2022. All rights reserved. Ordnance Survey Licence number 01000020767

This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved for coastal flood risk by the operation and development of the Moray Firth flood warning scheme. Understanding of surface water flood risk is improving by the development of a surface water management plan. A sewer flood risk assessment has also been completed. There is a long history of coastal flooding in the Fraserburgh target area. There are records of surface water flooding and flooding from the Kessock Burn after heavy rainfall. This can be exacerbated when the burn cannot drain into the sea at high tide as happened in September 2019.

The Dynamic Coast project has shown that parts of the shoreline in or adjacent to this target area are subject to erosion at present or are considered likely to erode in the future. Consideration should be given to how erosion might impact flood risk.

Any actions taken should aim to support building natural resilience to flooding and not lead to an increase in erosion.

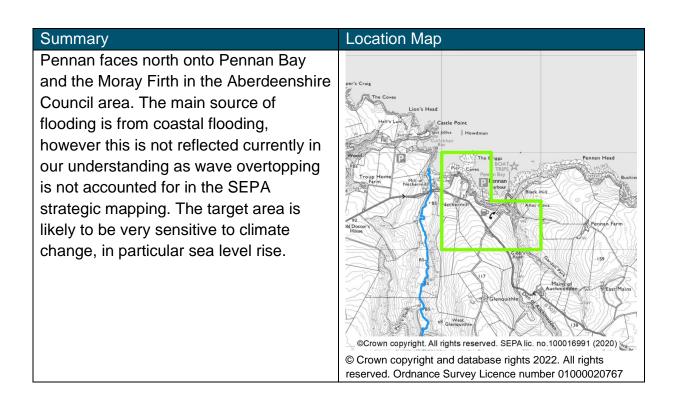
Objective	ID	Description
Avoid flood risk	4081	Avoid inappropriate development that
		increases flood risk in Fraserburgh
Prepare for flooding	4082	Prepare for current flood risk and future flood
		risk in Fraserburgh
Reduce flood risk	4083	Reduce the risk of flooding from the Kessock
		Burn, surface water and coastal flooding in
		Fraserburgh

Target Area	Fraserburgh		Action ID	40801	
Action Type	Strategic mapping i	mproveme	ents		
Delivery Lead	SEPA	Indica	tive Delivery	2023-2024	
Description	SEPA has undertaken improved coastal modelling in this target area including taking account of the impact of waves on coastal flooding. We will complete and publish the outcomes of this modelling work to inform decision making with respect to flooding at the coast.				
Funding	SEPA's role in this action is funded by Scottish Government through SEPA's grant in aid settlement.				
Coordination	SEPA will work with the local authority on the potential to coordinate the flood map update with any other actions being carried out to understand or reduce coastal flooding.				

Target Area	Fraserburgh		Action ID	40802
Action Type	Surface water mana	igement p	lan	
Delivery Lead	Aberdeenshire	Indica	tive Delivery	Ongoing
	Council			
Description	The surface water n	nanageme	ent plan will be	e implemented. It
	should regularly be	updated a	nd reviewed.	The impacts of
	climate change on flood risk are to be considered			
Funding	Funding for this action will be subject to Scottish Government's			
	block grant and capital support,			
	and budget allocations over the six years of the Plan, 2022-2028.			
Coordination	The action delivery lead is Aberdeenshire Council in coordination			
	with Scottish Water	and will co	onsider other	actions in the area.

Target Area	Fraserburgh		Action ID	40803	
Action Type	Flood warning maintenance				
Delivery Lead	SEPA Indicative Delivery Ongoing			Ongoing	
Description	SEPA should maintain the Moray Firth coastal flood warning				
	scheme.				
Funding	SEPA's role in this action is funded by Scottish Government				
	through SEPA's grant in aid settlement.				
Coordination	SEPA will maintain the Moray Firth coastal flood warning				
	scheme. SEPA will continue to raise awareness of flood warning				
	and engage with communities about the service when required.				

North East Local Flood Risk Management Plan datasheet						
Target Area name	Target Area namePennanTarget Area ID460					



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

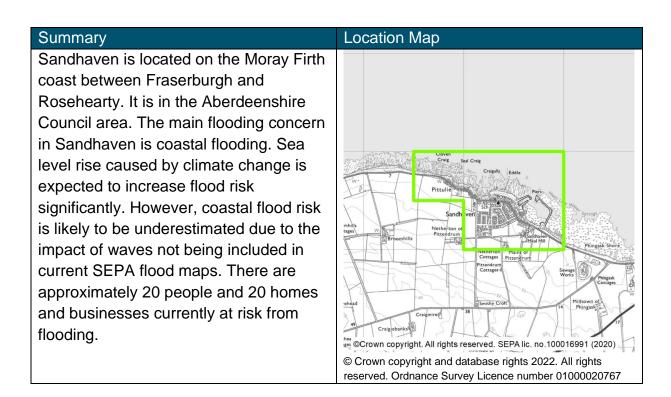
Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources, and this national assessment has highlighted the risk of coastal flooding in the target area. This risk could increase as a result of climate change. Pennan has therefore been identified as a new target area for the 2021 flood risk management plans. The national assessment is improved for coastal flood risk by the development and operation of the Moray Firth flood warning scheme. There is a long history of coastal flooding in Pennan including notable flooding in January 1953.

Objective	ID	Description	
Avoid flood risk	4601	Avoid inappropriate development that	
		increases flood risk in Pennan	
Improve data and	4602	Improve data and understanding of the risk of	
understanding		coastal flooding including the impacts of	
		climate change in Pennan	
Prepare for flooding	4603	Prepare for current flood risk and future	
		flooding as a result of climate change in	
		Pennan	

Target Area	Pennan		Action ID	46001		
Action Type	Strategic mapping in	Strategic mapping improvements				
Delivery Lead	SEPA	SEPA Indicative Delivery 2023-2024				
Description	SEPA has undertak	en improv	ed coastal mo	odelling in this target		
	area including takin	g account	of the impact	of waves on coastal		
	flooding. We will co	mplete and	d publish the	outcomes of this		
	modelling work to inform decision making with respect to flooding					
	at the coast.					
Funding	SEPA's role in this action is funded by Scottish Government					
	through SEPA's grant in aid settlement.					
Coordination	SEPA will work with the local authority on the potential to					
	coordinate the flood map update with any other actions being					
	carried out to under	stand or re	educe coastal	flooding.		

Target Area	Pennan		Action ID	46002
Action Type	Flood warning main	tenance		
Delivery Lead	SEPA	Indica	tive Delivery	Ongoing
Description	SEPA should maint	ain the Mo	oray Firth coas	stal flood warning
	scheme.			
Funding	SEPA's role in this a	action is fu	inded by Scot	tish Government
	through SEPA's grant in aid settlement.			
Coordination	SEPA will work with the local authorities on the potential to use			
	information from any flood studies around the Moray Firth coast			
	to inform ongoing flood warning. SEPA will continue to raise			
	awareness of flood warning and engage with communities about			
	the service when re	quired.		

North East Local Flood Risk Management Plan datasheet					
Target Area name Sandhaven Target Area ID 461					



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

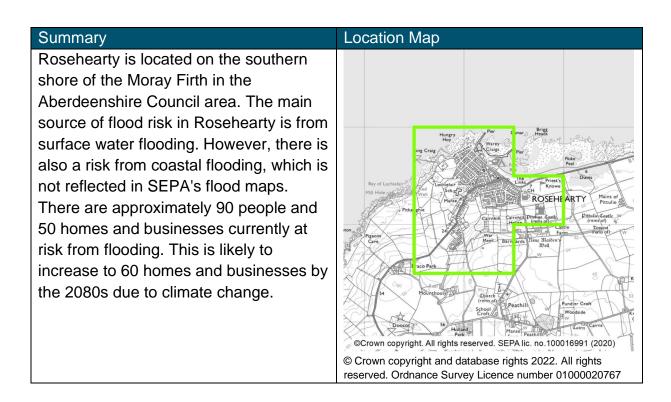
Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources, and this national assessment has highlighted the risk of coastal flooding (particularly associated with climate change) in the target area. Sandhaven has therefore been identified as a new target area for the 2021 flood risk management plans. The national assessment is improved for coastal flood risk by the development and operation of the Moray Firth flood warning scheme. There are limited records of flooding in the Sandhaven target area.

Objective	ID	Description
Avoid flood risk	4611	Avoid inappropriate development that
		increases flood risk in Sandhaven
Improve data and	4612	Improve data and understanding of the risk of
understanding		coastal flooding including the impacts of
		climate change in Sandhaven
Prepare for flooding	4613	Prepare for current flood risk and future
		flooding as a result of climate change in
		Sandhaven

Target Area	Sandhaven		Action ID	46101		
Action Type	Strategic mapping in	mproveme	nts			
Delivery Lead	SEPA	Indica	tive Delivery	2023-2024		
Description	SEPA has undertak	en improv	ed coastal mo	odelling in this target		
	area including takin	g account	of the impact	of waves on coastal		
	flooding. We will co	mplete and	d publish the o	outcomes of this		
	modelling work to ir	modelling work to inform decision making with respect to flooding				
	at the coast.					
Funding	SEPA's role in this action is funded by Scottish Government					
	through SEPA's grant in aid settlement.					
Coordination	SEPA will work with the local authority on the potential to					
	coordinate the flood map update with any other actions being					
	carried out to under	stand or re	educe coastal	flooding.		

Target Area	Sandhaven		Action ID	46102
Action Type	Flood warning main	tenance		
Delivery Lead	SEPA	Indica	tive Delivery	Ongoing
Description	SEPA should maint	ain the Mo	oray Firth coas	stal flood warning
	scheme.			
Funding	SEPA's role in this	action is fu	unded by Scot	tish Government
	through SEPA's grant in aid settlement.			
Coordination	SEPA will work with the local authorities on the potential to use			
	information from any flood studies around the Moray Firth coast			
	to inform ongoing flood warning. SEPA will continue to raise			
	awareness of flood warning and engage with communities about			
	the service when re	quired.		

North East Local Flood Risk Management Plan datasheet					
Target Area name	Rosehearty	Target Area ID	462		



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved for coastal flood risk through the development and operation of the Moray Firth flood warning scheme. Understanding of surface water flooding is improving through the development of a surface water management plan for Rosehearty and Fraserburgh. A sewer flood risk assessment has also been completed. There are periodic records of coastal and surface water flooding in Rosehearty.

Objective	ID	Description
Avoid flood risk	4621	Avoid inappropriate development that
		increases flood risk in Rosehearty
Improve data and	4622	Improve data and understanding of the risk of
understanding		coastal flooding including the impacts of
		climate change in Rosehearty
Prepare for flooding	4623	Prepare for current flood risk and future
		flooding as a result of climate change in
		Rosehearty
Reduce flood risk	4624	Reduce the risk of surface water flooding in
		Rosehearty

Target Area	Rosehearty		Action ID	46201		
Action Type	Strategic mapping i	mproveme	ents			
Delivery Lead	SEPA	Indica	tive Delivery	2023-2024		
Description	SEPA has undertak	en improv	ed coastal mo	odelling in this target		
	area including takin	g account	of the impact	of waves on coastal		
	flooding. We will co	mplete and	d publish the	outcomes of this		
	modelling work to ir	modelling work to inform decision making with respect to flooding				
	at the coast.					
Funding	SEPA's role in this action is funded by Scottish Government					
	through SEPA's grant in aid settlement.					
Coordination	SEPA will work with the local authority on the potential to					
	coordinate the flood map update with any other actions being					
	carried out to under	stand or re	educe coastal	flooding.		

Target Area	Rosehearty		Action ID	46202	
Action Type	Surface water mana	agement p	lan		
Delivery Lead	Aberdeenshire	Indica	tive Delivery	Ongoing	
	Council				
Description	Progress the surfac	e water m	anagement p	an. The results from	
	Scottish Water's se	wer flood r	isk assessme	ent should be	
	incorporated. The ir	mpacts of o	climate chang	e on flood risk should	
	be considered. Interactions with coastal flooding should be noted.				
Funding	Funding for this action will be subject to Scottish Government's				
	block grant and capital support,				
	and budget allocations over the six years of the Plan, 2022-2028.				

Coordination	The action delivery lead is Aberdeenshire Council in coordination
	with Scottish Water and will consider other actions in the area.

Target Area	Rosehearty		Action ID	46203		
Action Type	Flood warning main	itenance				
Delivery Lead	SEPA	Indica	tive Delivery	Ongoing		
Description	SEPA should maintain the Moray Firth coastal flood warning scheme.					
Funding		SEPA's role in this action is funded by Scottish Government through SEPA's grant in aid settlement.				
Coordination	SEPA s grant in aid settlement. SEPA will work with the local authorities on the potential to use information from any flood studies around the Moray Firth coast to inform ongoing flood warning. SEPA will continue to raise awareness of flood warning and engage with communities about the service when required.					

02/06/06 (Keith and Newmill)

This area is designated as a potentially vulnerable area due to surface water flood risk in Keith and Newmill. Newmill benefits from a flood scheme, which reduces the risk of flooding from surface water and the Burn of Kimminitie at Low Road.

There are 2 target areas in this potentially vulnerable area, which have been the focus of further assessment, these are listed below. Further information on the objectives and actions to manage flood risk within these areas is provided below.

List of target areas

Keith Newmill (Keith) (target area 404) (target area 444)

North East Local Flood Risk Management Plan datasheet					
Target Area name	Keith	Target Area ID	404		

Summary	Location Map
Keith is located in north east Scotland within the Moray Council area. The main source of flooding in Keith is from surface water flooding. There are approximately 60 people and 70 homes and businesses currently at risk from flooding. This is likely to remain the same by the 2080s due to climate change.	Order to the served SEPAlic no 100016991 (2020)

This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources, and this national assessment has highlighted the risk of surface water flooding. Keith has therefore been identified as a new target area for the 2021 flood risk management plans. The national assessment is improved for surface water by the Moray Surface Water Management Plan. The understanding of river flooding is improved by the operation of the River Deveron flood warning scheme. There are records of surface water flooding in the Keith target area.

Objective	ID	Description	
Avoid flood risk	4041	Avoid inappropriate development that increases	
		flood risk in Keith	
Prepare for flooding	4042	Prepare for current flood risk and future flooding	
		as a result of climate change in Keith	

Reduce flood risk	4043	Reduce the risk of surface water flooding in Keith

Target Area	Keith		Action ID	40401		
Action Type	Flood warning maintenance					
Delivery Lead	SEPA Indicative Delivery 2026-28			2026-28		
Description	SEPA should maint	SEPA should maintain the River Deveron flood warning scheme.				
	The scheme should be investigated for improvement and/or					
	recalibration.					
Funding	SEPA's role in this action is funded by Scottish Government					
	through SEPA's grant in aid settlement.					
Coordination	SEPA will maintain the River Deveron flood warning scheme.					
	SEPA will continue to raise awareness of flood warning and					
	engage with communities about the service when required.					

North East Local Flood Risk Management Plan datasheet					
Target Area name Newmill (Keith) Target Area ID 444					

Summary	Location Map
Newmill lies just north of the town of Keith and is within the Moray Council area. The main source of flooding in Newmill is from surface water flooding. There are approximately 40 people and 20 homes and businesses at risk of flooding. This is expected to remain the same by the 2080s, despite the impact of climate change.	Were allowed and the second allowed

This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved for surface water by the studies to develop the Newmill Flood Protection Scheme (2016) and the development of the Moray Surface Water Management Plan. Prior to the construction of the flood protection scheme there are records of periodic flooding from surface water including notable flooding in September 2009 and September 2013. Flooding was also recorded in June 2017 when surface water flooding damaged flood defences.

Objective	ID	Description
Avoid flood risk	4441	Avoid inappropriate development that
		increases flood risk in Newmill
Avoid flood risk	4442	Avoid an increase in flood risk by the
		appropriate management and maintenance of
		the Newmill flood protection scheme
Improve data and	4443	Improve data and understanding of the
understanding		performance of the Newmill flood protection
		scheme
Prepare for flooding	4444	Prepare for current flood risk and future
		flooding as a result of climate change in
		Newmill

Target Area	Newmill (Keith)		Action ID	44401
Action Type	Flood defence maintenance			
Delivery Lead	Moray Council	Indica	tive Delivery	Ongoing
Description	Continue to maintain the Newmill Flood Protection Scheme.			
Funding	Moray Council Revenue			
Coordination	Moray Council will continue to maintain the scheme liaising with			
	responsible authority and the community on issues that may arise			

Target Area	Newmill (Keith)		Action ID	44402	
Action Type	Flood warning maintenance				
Delivery Lead	SEPA Indicative Delivery 2026-28			2026-28	
Description	SEPA should maintain the River Deveron flood warning scheme.				
	The scheme should be investigated for improvement and/or				
	recalibration.				
Funding	SEPA's role in this action is funded by Scottish Government				
	through SEPA's grant in aid settlement.				
Coordination	SEPA will maintain the River Deveron flood warning scheme.				
	SEPA will continue to raise awareness of flood warning and				
	engage with communities about the service when required.				

02/06/07 (Turriff)

This area is designated as a potentially vulnerable area due to river and surface water flood risk in Turriff. Recently flooding was caused by surface water.

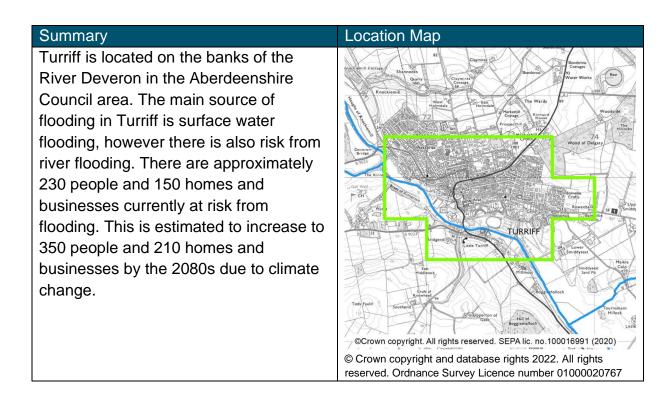
There is 1 target area in this potentially vulnerable area, which has been the focus of further assessment, this is identified below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Turriff

(target area 449)

North East Local Flood Risk Management Plan datasheet				
Target Area name	Turriff	Target Area ID	449	



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved for surface water flooding by the sewer flood risk assessment. There is a long history of flooding in Turriff, including notable flooding in December 2015. There are also periodic records of surface water flooding.

Objective	ID	Description
Avoid flood risk	4491	Avoid inappropriate development that
		increases flood risk in Turriff
Prepare for flooding	4492	Prepare for current flood risk and future
		flooding as a result of climate change in Turriff
Reduce flood risk	4493	Reduce the risk of flooding from surface water
		and small water courses in Turriff

Target Area	Turriff		Action ID	44901
Action Type	Flood warning main	itenance		
Delivery Lead	SEPA Indicative Delivery 2026-28			2026-28
Description	SEPA should maint	ain the Riv	/er Deveron fl	ood warning scheme.
	The scheme should	The scheme should be investigated for improvement and/or		
	recalibration.			
Funding	SEPA's role in this action is funded by Scottish Government			
	through SEPA's grant in aid settlement.			
Coordination	SEPA will maintain the River Deveron flood warning scheme.			
	SEPA will continue to raise awareness of flood warning and			
	engage with communities about the service when required.			

02/06/08 (Peterhead)

This area is designated as a potentially vulnerable area due to the risk of surface water and coastal flooding to Boddam and Peterhead. Coastal flood risk is likely to increase due to sea level rise caused by climate change. Recent flooding was caused by surface water.

There are 2 target areas in this potentially vulnerable area, which have been the focus of further assessment, these are listed below. Further information on the objectives and actions to manage flood risk within these areas is provided below.

List of target areas

Boddam Peterhead (target area 406) (target area 407)

North East Local Flood Risk Management Plan datasheet				
Target Area name	Boddam	Target Area ID	406	

Summary	Location Map
Boddam is located just south of Peterhead in the Aberdeenshire Council area. The main source of flooding in Boddam is surface water flooding. There are approximately 70 people and 50 homes and businesses currently at risk from flooding. This is likely to increase to 80 people and 60 homes and businesses by the 2080s due to climate change.	Surfice Window Windo

This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources, and this national assessment has highlighted the risk of surface water flooding in this target area. Boddam has therefore been identified as a new target area for the 2021 flood risk management plans. The understanding of surface water flood risk is improving through the sewer assessment and the development of a surface water management plan for Peterhead and the surrounding area, including Boddam. There are limited records of flooding in the Boddam target area.

Objective	ID	Description
Avoid flood risk	4061	Avoid inappropriate development that increases
		flood risk in Boddam
Prepare for flooding	4062	Prepare for current flood risk and future flooding as
		a result of climate change in Boddam

4063

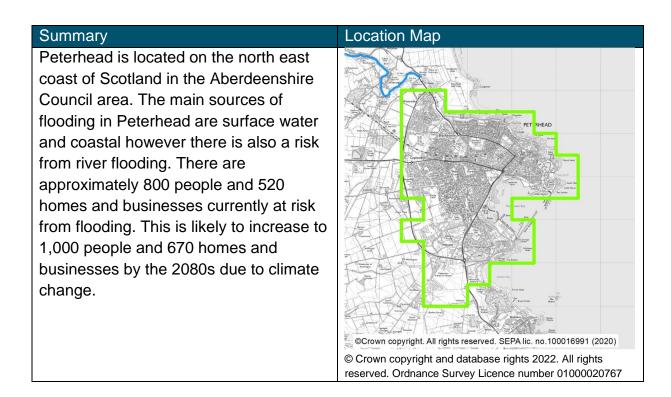
Reduce the risk of surface water flooding in Boddam

Target Area	Boddam		Action ID	40601
Action Type	Sewer flood risk asse	essment		
Delivery Lead	Scottish Water	Scottish Water Indicative Delivery 2024-2026		2024-2026
Description	Scottish Water will ur	ndertake	a modelling	
	assessment in the Pe	assessment in the Peterhead sewer catchment to improve		
	knowledge and understanding of flood risk in this area as			
	required under Section 16 of the Flood Risk Management			
	(Scotland) Act 2009			
Funding	Funding for this action is secured within Scottish Water's			
	business plan			
Coordination	Outputs of this modelling assessment will be shared with local			
	authorities and SEPA			

Target Area	Boddam		Action ID	40602
Action Type	Surface water mana	agement p	lan	
Delivery Lead	Aberdeenshire	Indica	tive Delivery	Ongoing
	Council			
Description	The surface water n	The surface water management plan will be implemented. It		
	should regularly be	should regularly be updated and reviewed. The impacts of		
	climate change on flood risk are to be considered			
Funding	Funding for this action will be subject to Scottish Government's			
	block grant and capital support,			
	and budget allocations over the six years of the Plan, 2022-2028.			
Coordination	The action delivery lead is Aberdeenshire Council in coordination			
	with Scottish Water	and will co	onsider other	actions in the area.

Target Area	Boddam		Action ID	40603
Action Type	Flood warning main	Flood warning maintenance		
Delivery Lead	SEPA			
Description	SEPA should maint	ain the Ab	erdeenshire a	and Angus coastal
	flood warning scheme.			
Funding	SEPA's role in this action is funded by Scottish Government			
	through SEPA's grant in aid settlement.			
Coordination	SEPA will maintain the Aberdeenshire and Angus coastal flood			
	warning scheme. SEPA will continue to raise awareness of flood			
	warning and engage with communities about the service when			
	required.			

North East Local Flood Risk Management Plan datasheet				
Target Area name	Peterhead	Target Area ID	407	



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved for coastal flooding by the development and operation of the North East flood warning scheme. The understanding of surface water flood risk is improving through the sewer assessment and the development of a surface water management plan for Peterhead. There is a long history of flooding recorded in the Peterhead target area including notable flooding in August 2012 when high tides and a storm surge led to flooding.

The Dynamic Coast project has shown that parts of the shoreline in or adjacent to this target area are subject to erosion at present or are considered likely to erode in the future. Consideration should be given to how erosion might impact flood risk. Any actions taken should aim to support building natural resilience to flooding and not lead to an increase in erosion.

Objective	ID	Description
Avoid flood risk	4071	Avoid inappropriate development that
		increases flood risk in Peterhead
Prepare for flooding	4072	Prepare for current flood risk and future
		flooding as a result of climate change in
		Peterhead
Reduce flood risk	4073	Reduce the risk of surface water and coastal
		flooding in Peterhead

Target Area	Peterhead		Action ID	40701	
Action Type	Strategic mapping in	mproveme	ents		
Delivery Lead	SEPA	Indica	tive Delivery	2023-2024	
Description	SEPA has undertak	en improv	ed coastal mo	odelling in this target	
	area including takin	g account	of the impact	of waves on coastal	
	flooding. We will co	mplete and	d publish the (outcomes of this	
	modelling work to inform decision making with respect to flooding				
	at the coast.				
Funding	SEPA's role in this action is funded by Scottish Government				
	through SEPA's grant in aid settlement.				
Coordination	SEPA will work with the local authority on the potential to				
	coordinate the flood	l map upda	ate with any o	ther actions being	
	carried out to under	stand or re	educe coastal	flooding.	

Target Area	Peterhead Action ID 40702				
Action Type	Flood warning main	tenance			
Delivery Lead	SEPA	Indica	tive Delivery	Ongoing	
Description	SEPA should maint	ain the Ab	erdeenshire a	and Angus coastal	
	flood warning scher	ne.			
Funding	SEPA's role in this action is funded by Scottish Government				
	through SEPA's grant in aid settlement.				
Coordination	SEPA will work with the local authorities on the potential to use				
	information from the flood schemes and studies along the north				
	east coast to inform ongoing flood warning. SEPA will continue				
	to raise awareness of flood warning and engage with				
	communities about	the service	e when requir	ed.	

Target Area	Peterhead		Action ID	40703		
Action Type	Sewer flood risk ass	essment				
Delivery Lead	Scottish Water	Indica	tive Delivery	2024-2026		
Description	Scottish Water will u	Indertake	a modelling			
	assessment in the F	Peterhead	sewer catchn	nent to improve		
	knowledge and unde	knowledge and understanding of flood risk in this area as				
	required under Section 16 of the Flood Risk Management					
	(Scotland) Act 2009					
Funding	Funding for this action is secured within Scottish Water's					
	business plan					
Coordination	Outputs of this modelling assessment will be shared with local					
	authorities and SEP	A				

Target Area	Peterhead		Action ID	40704	
Action Type	Surface water mana	agement p	lan		
Delivery Lead	Aberdeenshire	Indica	tive Delivery	Ongoing	
	Council				
Description	The surface water n	nanageme	ent plan will be	e implemented. It	
	should regularly be updated and reviewed. The impacts of				
	climate change on flood risk are to be considered				
Funding	Funding for this action will be subject to Scottish Government's				
	block grant and capital support,				
	and budget allocations over the six years of the Plan, 2022-2028.				
Coordination	The action delivery	lead is Ab	erdeenshire C	Council in coordination	
	with Scottish Water	and will co	onsider other	actions in the area.	

02/06/09 (Methlick)

Methlick is designated as a potentially vulnerable area due to river and surface water flood risk. Recently flooding was caused by rivers.

There is 1 target area in this potentially vulnerable area, which has been the focus of further assessment, this is identified below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Methlick

(target area 450)

North East Local Flood Risk Management Plan datasheet					
Target Area name	Methlick	Target Area ID	450		

Summary	Location Map
Methlick is located to the north west of Aberdeen on the River Ythan. It is in the Aberdeenshire Council area. The main sources of flooding in Methlick are from surface water and the River Ythan. There are approximately 100 people and 50 homes and businesses currently at risk from flooding. This is likely to increase to 110 people and 60 homes and businesses by the 2080s due to climate change.	Crown copyright and database rights 2022. All rights reserved. Ordnance Survey Licence number 01000020767

This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources, and this national level assessment has highlighted the risk of flooding in this target area. There are records of periodic flooding in the Methlick target area from the River Ythan, including the notable flooding of January 2016.

Objective	ID	Description
Avoid flood risk	4501	Avoid inappropriate development that
		increases flood risk in Methlick
Prepare for flooding	4502	Prepare for current flood risk and future
		flooding in Methlick as a result of climate
		change

Target Area	Methlick		Action ID	45001		
Action Type	Flood risk management review					
Delivery Lead	SEPA	Indica	tive Delivery	2022-2028		
Description	No local actions spe	ecific to this	s target area	have been identified		
	yet. However, there	are natior	nal actions to	be taken forward		
	which will help ident	•				
			•	e the understanding of		
	current and future s					
	vulnerable areas wi			•		
	information, which v	•		J		
	management actions will be reviewed in 2026. SEPA will					
	continue to collect information on any flooding that occurs in the					
Funding	area, to inform the review process.					
Funding	SEPA's role in this action is funded by Scottish Government through SEPA's grant in aid settlement.					
Coordination	SEPA will work with the other responsible authorities to review					
Coordination	flood risk management for this area, through the Local Plan					
	District Partnerships. A public consultation on priority areas will					
	be held in 2024 by SEPA, which will be open for three months. A					
	public consultation of		•			
	held in December 2		•			
	months.					

02/06/10 (Huntly)

This area is designated as a potentially vulnerable area due to flood risk from the River Deveron, River Bogie, and the Ittingstone and Meadows Burns. River flood risk to the Meadows area of Huntly is managed by a flood protection scheme. There is also a risk of surface water flooding. There is a history of flooding, with recent flooding being caused by river and surface water.

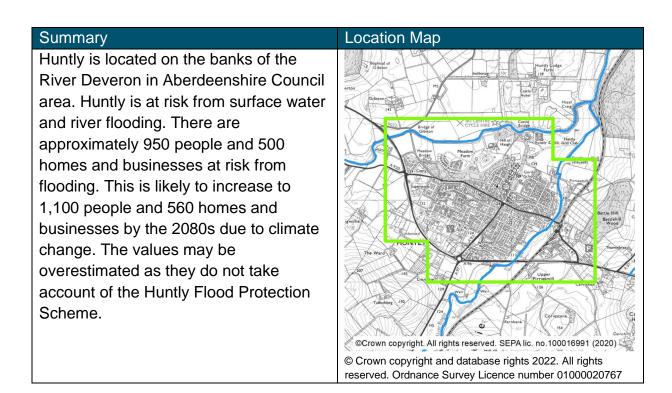
There is 1 target area in this potentially vulnerable area, which has been the focus of further assessment, this is identified below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Huntly

(target area 403)

North East Local Flood Risk Management Plan datasheet						
Target Area name	Huntly	Target Area ID	403			



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved for flooding from the River Deveron and the Meadows Burn by the studies to develop the Huntly Flood Protection Scheme (2017). The understanding of surface water flood risk is improving by the development of a surface water management plan. There were frequent records of river flooding in Huntly prior to the completion of the flood scheme including notable floods in November 2009 when the River Deveron and Meadow Burn flooded the Meadows area of the town. Surface water flooding has been recorded in several areas of Huntly.

Objective	ID	Description
Avoid flood risk	4031	Avoid an increase in river flood risk by the
		appropriate management and maintenance of
		the Huntly Flood Protection Scheme
Avoid flood risk	4032	Avoid inappropriate development that
		increases flood risk in Huntly
Prepare for flooding	4033	Prepare for current flood risk and future
		flooding as a result of climate change in Huntly
Reduce flood risk	4034	Reduce the risk of surface water flooding in
		Huntly

Target Area	Huntly		Action ID	40301	
Action Type	Surface water mana	agement p	lan		
Delivery Lead	Aberdeenshire	Indica	tive Delivery	Ongoing	
	Council				
Description	The surface water n	nanageme	ent plan will be	e implemented. It	
	should regularly be updated and reviewed. The impacts of				
	climate change on flood risk are to be considered				
Funding	"Funding for this action will be subject to Scottish Government's				
	block grant and capital support,				
	and budget allocations over the six years of the Plan, 2022-				
	2028."				
Coordination	The action delivery lead is Aberdeenshire Council in coordination				
	with Scottish Water	and will co	onsider other	actions in the area.	

Target Area	Huntly		Action ID	40302	
Action Type	Flood defence maintenance				
Delivery Lead	Aberdeenshire Indicat Council		tive Delivery	Ongoing	
Description	Continue to maintain the Huntly Flood Protection Scheme.				
Funding	Aberdeenshire Council Revenue				
Coordination	Aberdeenshire Council will continue to maintain the scheme				
	liaising with responsible authorities and the community on issues				
	that may arise				

Target Area	Huntly		Action ID	40303	
Action Type	Flood warning main	tenance			
Delivery Lead	SEPA	Indica	tive Delivery	2026-28	
Description	SEPA should maint	ain the Riv	/er Deveron a	nd the Bogie flood	
	warning schemes.	The schem	es should be	investigated for	
	improvement and/or recalibration.				
Funding	SEPA's role in this action is funded by Scottish Government				
	through SEPA's grant in aid settlement.				
Coordination	SEPA will work with Aberdeenshire Council on the potential to				
	coordinate flood warning improvements with the Huntly flood				
	scheme works. SEPA will continue to raise awareness of flood				
	warning and engage with communities about the service when				
	required.				

02/06/11 (Insch)

Insch is designated as a potentially vulnerable area due to the risk of flooding from surface water, the Valentine Burn and The Shevock. There is a history of flooding, with floods recorded as a result of river and surface water flooding.

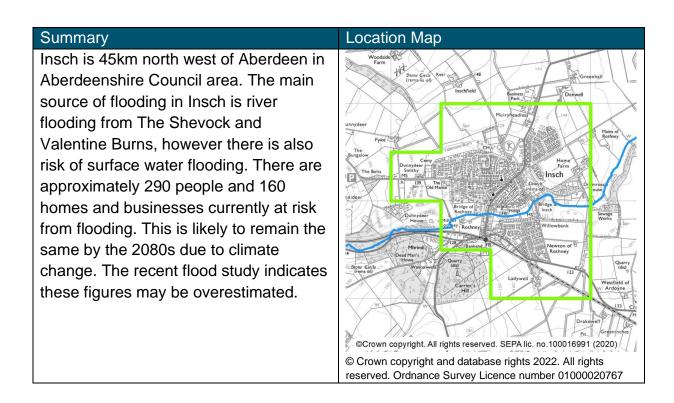
There is 1 target area in this potentially vulnerable area, which has been the focus of further assessment, this is identified below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Insch

(target area 411)

North East Local Flood Risk Management Plan datasheet				
Target Area name	Insch	Target Area ID	411	



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved for river flooding by the Insch Flood Study (2019). The study focuses on flood risk from The Shevock, Mill of Rothney Burn and Newton of Rothney Burn. The understanding of surface water flooding is improved by a sewer flood risk assessment. There is a long history of river flooding in Insch with frequent records of flooding from The Shevock. Notable flooding was recorded in November 2002 and in January 2016. There are also records of surface water flooding.

Objective	ID	Description
Avoid flood risk	4111	Avoid inappropriate development that
		increases flood risk in Insch
Prepare for flooding	4112	Prepare for current flood risk and future
		flooding as a result of climate change in Insch
Reduce flood risk	4113	Reduce the risk of flooding from The Shevock

			and the Va	lentine Burn i	n Insch
Target Area	Insch			Action ID	41101
Action Type	Commun	Community engagement			
Delivery Lead	Aberdeer	nshire	Indica	tive Delivery	Ongoing
	Council				
Description	The resp	The responsible authorities to continue to engage with the			
	communi	community, with particular focus on improving community			
	resilience to flood risk.				
Funding	Funding for this action will be subject to Scottish Government's				
	block grant and capital support,				
	and budget allocations over the six years of the Plan, 2022-2028.				
Coordination	Aberdeenshire Council will coordinate with other responsible				
	authorities to ensure that communities are aware of the risk and				
	assist with becoming more resilient to the risk of flooding				

02/06/12 (Ellon)

This area is designated as a potentially vulnerable area due to river and surface water flood risk to Ellon. Recent flooding has been river and surface water flooding.

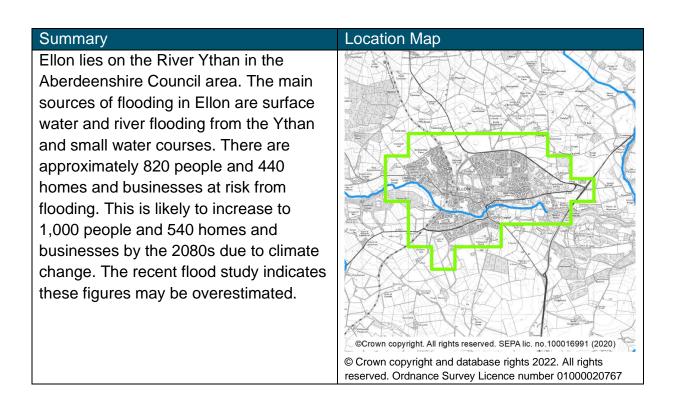
There is 1 target area in this potentially vulnerable area, which has been the focus of further assessment, this is identified below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Ellon

(target area 405)

North East Local Flood Risk Management Plan datasheet				
Target Area name	Ellon	Target Area ID	405	



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved for river flood risk by the Ellon Flood Study (2019) which focuses on the River Ythan and its tributaries. The understanding of surface water flooding is improved by a sewer flood risk assessment. There is a long history of flooding in the Ellon target area including notable flooding in January 2016 when the River Ythan flooded. There are more frequent records of flooding from the smaller watercourses.

Objective	ID	Description
Avoid flood risk	4051	Avoid inappropriate development that
		increases flood risk in Ellon
Prepare for flooding	4052	Prepare for current flood risk and future
		flooding as a result of climate change in Ellon
Reduce flood risk	4053	Reduce the risk of flooding from the River
		Ythan and small water courses in Ellon
Reduce flood risk	4054	Reduce the risk of surface water flooding in
		Ellon

Target Area	Ellon		Action ID	40501			
Action Type	New flood warning	New flood warning area					
Delivery Lead	SEPA Indicative Delivery 2026-28						
Description	SEPA will investiga	SEPA will investigate the potential to develop and implement a					
	new flood warning scheme for the River Ythan catchment						
Funding	SEPA's role in this action is funded by Scottish Government						
	through SEPA's grant in aid settlement.						
Coordination	SEPA will work with Aberdeenshire Council on the potential to						
	coordinate flood warning development with the flood study						
	investigation.	investigation.					

Target Area	Ellon		Action ID	40502			
Action Type	Sewer flood risk ass	Sewer flood risk assessment					
Delivery Lead	Scottish Water	Scottish Water Indicative Delivery 2024-2026					
Description	Scottish Water will u	Scottish Water will undertake a modelling					
	assessment in the Ellon sewer catchment to improve knowledge						
	and understanding of flood risk in this area as required under						
	Section 16 of the Flood Risk Management (Scotland) Act 2009						
Funding	Funding for this action is secured within Scottish Water's						
	business plan						
Coordination	Outputs of this modelling assessment will be shared with local						
	authorities and SEPA						

Target Area	Ellon		Action ID	40503		
Action Type	Surface water management plan					
Delivery Lead	Aberdeenshire	Aberdeenshire Indicative Delivery Ongoing				
	Council					
Description	The Ellon Flood Stu	idy recom	mended furthe	er assessment of		
	drainage in Ellon. T	he drainag	ge study shou	ld be progressed as		
	part of this surface	water man	agement plar	n. This should consider		
	risk from surface wa	ater and sr	nall water cou	urses with a particular		
	focus on the Meado	ws and Hi	Ilhead areas	of Ellon. The results of		
	Scottish Water's se	Scottish Water's sewer flood risk assessment should be				
	considered. The impacts of climate change on flood risk should					
	be assessed. Opportunities to disconnect surface water from the					
	sewerage system should be identified. Opportunities for natural					
	flood management should also be identified.					
Funding	Funding for this action will be subject to Scottish Government's					
	block grant and capital support,					
	and budget allocations over the six years of the Plan, 2022-2028.					
Coordination	The action delivery lead is Aberdeenshire Council in coordination					
	with Scottish Water	and will co	onsider other	actions in the area.		

02/06/13 (Inverurie and Kintore)

This area is designated as a potentially vulnerable area due to the recent occurrence of surface water and river flooding in Inverurie and Kintore.

There are 2 target areas in this potentially vulnerable area, which have been the focus of further assessment, these are listed below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Inverurie Kintore (target area 409) (target area 410)

North East Local Flood Risk Management Plan datasheet				
Target Area name	Inverurie	Target Area ID	409	

Summary	Location Map
Inverurie and Port Elphinstone are at the	All and a second
confluence of the River Urie and River	And
Don in the Aberdeenshire Council area.	
The main sources of flooding in Inverurie	
and Port Elphinstone are river and	
surface water. There are approximately	
1,100 people and 700 homes and	
businesses at risk from flooding. This is	12 INVERINE
likely to increase to 1,300 people and	
810 homes and businesses by the 2080s	
due to climate change. The recent flood	
study indicates these figures may be	
overestimated.	
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This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved for river flooding by the by the Inverurie and Port Elphinstone Flood Study (2019). The understanding of surface water flood risk is improving through the development of a surface water management plan. A sewer flood risk assessment has also been completed. There is a long history of flooding recorded in the target area, including notable flooding from the River Don and the River Urie throughout Inverurie and Port Elphinstone in November 2002 and in January 2016.

Objective	ID	Description
Avoid flood risk	4091	Avoid an increase in flood risk by the
		appropriate management and maintenance of
		Strathburn and Overburn Flood Prevention
		Scheme 1978 and the Overburn culvert 2001
Avoid flood risk	4092	Avoid inappropriate development that
		increases flood risk in Inverurie
Improve data and	4093	Improve data and understanding of the
understanding		performance of the Strathburn and Overburn
		Flood Prevention Scheme 1978 and the
		Overburn Culvert 2001
Prepare for flooding	4094	Prepare for current flood risk and future
		flooding as a result of climate change in
		Inverurie
Reduce flood risk	4095	Reduce the risk of flooding from the River Don
		and River Urie in Inverurie and Port
		Elphinstone
Reduce flood risk	4096	Reduce the risk of surface water flooding in
		Inverurie

Target Area	Inverurie		Action ID	40901		
Action Type	Flood scheme or works design					
Delivery Lead	Aberdeenshire Council	Indicative Delivery 2025-27				
Description	The detailed design for the Inverurie Flood Protection Scheme should be progressed based on the preferred option identified from the Inverurie and Port Elphinstone Flood Protection Scheme Appraisal Report - December 2019. The responsible authority proposes this action as the best viable option for managing flood risk in this community. The delivery of this action is subject to capital funding being made available.					
Funding	This works is subject to funding via the Scottish Government flood capital monies. This monies has not been allocated at the time of the production of this report.					
Coordination	The action delivery lead is Aberdeenshire Council in coordination with other responsible authorities and including community engagement					

Target Area	Inverurie		Action ID	40902			
Action Type	Community engager	Community engagement					
Delivery Lead	Aberdeenshire	Indica	tive Delivery	Ongoing			
	Council						
Description	The responsible authorities to continue to engage with the						
	community on the de	etailed de	sign of the Inv	verurie Flood Scheme.			
Funding	Funding for this action will be subject to Scottish Government's						
	block grant and capital support,						
	and budget allocations over the six years of the Plan, 2022-2028.						
Coordination	Aberdeenshire Council will coordinate with other responsible						
	authorities to ensure that communities are aware of the risk and						
	assist with becoming	g more res	silient to the ri	sk of flooding			

Target Area	Inverurie		Action ID	40903		
Action Type	Flood scheme or works implementation					
Delivery Lead	Aberdeenshire	Indica	tive Delivery	2027-28		
	Council					
Description	Progress the Inverurie Flood Protection Scheme based on the detailed design. As built drawings should be made available to SEPA, for consideration in the Scottish Flood Defence Asset Database, flood map updates and flood warning scheme updates.					
	The responsible authority proposes this action as the best viable option for managing flood risk in this community. The delivery of this action is subject to capital funding being made available.					
Funding	This works is subject to funding via the Scottish Government flood capital monies. This monies has not been allocated at the time of the production of this report.					
Coordination	The action delivery with other responsite engagement			Council in coordination ding community		

Target Area	Inverurie		Action ID	40904		
Action Type	Flood defence main	tenance				
Delivery Lead	Aberdeenshire Council					
Description	Continue to maintain the Inverurie (Strathburn and Overburn) Flood Prevention Scheme (1978) and the Overburn Culvert (2001).					
Funding	Aberdeenshire Council Revenue					
Coordination	Aberdeenshire Council will continue to maintain the scheme liaising with responsible authorities and the community on issues that may arise					

Target Area	Inverurie		Action ID	40905			
Action Type	Sewer flood risk ass	essment					
Delivery Lead	Scottish Water	Indica	tive Delivery	2025-2027			
Description	Scottish Water will u	Indertake	a modelling				
	assessment in the Ir	nverurie s	ewer catchme	ent to improve			
	knowledge and unde	erstanding	g of flood risk	in this area as			
	required under Sect	required under Section 16 of the Flood Risk Management					
	(Scotland) Act 2009						
Funding	Funding for this action is secured within Scottish Water's						
	business plan						
Coordination	Outputs of this modelling assessment will be shared with local						
	authorities and SEP	A					

Target Area	Inverurie		Action ID	40906	
Action Type	Surface water mana	agement p	lan		
Delivery Lead	Aberdeenshire	Indica	tive Delivery	Ongoing	
	Council				
Description	The surface water n	nanageme	ent plan will be	e implemented. It	
	should regularly be updated and reviewed. The impacts of				
	climate change on flood risk are to be considered				
Funding	Funding for this action will be subject to Scottish Government's				
	block grant and capital support and budget allocations over the				
	six years of the Plan, 2022-2028.				
Coordination	The action delivery lead is Aberdeenshire Council in coordination				
	with Scottish Water	and will c	onsider other	actions in the area.	

Target Area	Inverurie		Action ID	40907		
Action Type	Flood warning main	itenance		·		
Delivery Lead	SEPA	SEPA Indicative Delivery Ongoing				
Description	SEPA should maint	ain the Riv	/er Don flood	warning scheme.		
Funding	SEPA's role in this action is funded by Scottish Government					
	through SEPA's gra	through SEPA's grant in aid settlement.				
Coordination	SEPA will work with the local authorities on the potential to use					
	information from flood studies in the River Don catchment to					
	inform ongoing flood warning. SEPA will continue to raise					
	awareness of flood warning and engage with communities about					
	the service when re	quired.				

North East Local Flood Risk Management Plan datasheet						
Target Area nameKintoreTarget Area ID410						

Summary	Location Map
Summary Kintore is located to the north west of Aberdeen on the River Don. It is within the Aberdeenshire Council area. The main source of flooding in Kintore is river flooding, however there is also risk of surface water flooding. There are approximately 370 people and 200 homes and businesses currently at risk from flooding. This is likely to increase to	Location Map
440 people and 240 homes and businesses by the 2080s due to climate change.	©Crown copyright All rights reserved. SEPA lic. no. 100016991 (2020) ©Crown copyright and database rights 2022. All rights reserved. Ordnance Survey Licence number 01000020767

This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved for flooding from the River Don through the development and operation of the flood warning scheme. The modelling of the River Urie between Pitcaple and Kintore has also been revised, informing an update to SEPA flood maps. The understanding of surface water flooding is improving through the sewer flood risk assessment and development of a surface water management plan. There is a long history of flooding in the Kintore target area, including notable flooding in January 2016.

Objective	ID	Description
Avoid flood risk	4101	Avoid inappropriate development that
		increases flood risk in Kintore
Prepare for flooding	4102	Prepare for current flood risk and future
		flooding as a result of climate change in
		Kintore
Reduce flood risk	4103	Reduce the risk of flooding from the River
		Don, Torry Burn, Tuach Burn, Loch Burn and
		surface water flooding in Kintore

Target Area	Kintore		Action ID	41001			
Action Type	Flood study						
Delivery Lead	Aberdeenshire	Indica	tive Delivery	2023-25			
	Council						
Description	A flood study should	d be carrie	d out to impro	ove understanding of			
	flooding from the Ri	ver Don, 1	Forry Burn, Tu	ach Burn and Loch			
	Burn. Interaction wi	th surface	water should	be considered. The			
	impacts of climate of	hange on	flood risk sho	uld be assessed.			
Funding	Funding for the study will be subject to Scottish Government's						
	block grant and capital support,						
	and budget allocations over the six years of the Plan, 2022-2028.						
Coordination	The action delivery lead is Aberdeenshire Council and require						
	coordination with other responsibilities (SEPA, Scottish Water,						
	Transport Scotland and Network Rail) and will also include						
	community engager	ment.					

Target Area	Kintore		Action ID	41002		
Action Type	Sewer flood risk ass	essment				
Delivery Lead	Scottish Water	Indica	tive Delivery	2025-2027		
Description	Scottish Water will u	ndertake	a modelling			
	assessment in the In	iverurie s	ewer catchme	ent to improve		
	knowledge and unde	erstanding	g of flood risk	in this area as		
	required under Section 16 of the Flood Risk Management					
	(Scotland) Act 2009					
Funding	Funding for this action is secured within Scottish Water's					
	business plan					
Coordination	Outputs of this modelling assessment will be shared with local					
	authorities and SEP	4				

Target Area	Kintore		Action ID	41003
Action Type	Surface water management plan			
Delivery Lead	Aberdeenshire Council	Indicative Delivery		Ongoing
Description	The surface water management plan will be implemented. It should regularly be updated and reviewed. The impacts of climate change on flood risk are to be considered			
Funding	Funding for this action will be subject to Scottish Government's block grant and capital support, and budget allocations over the six years of the Plan, 2022-2028.			
Coordination	The action delivery lead is Aberdeenshire Council in coordination with Scottish Water and will consider other actions in the area.			

Target Area	Kintore		Action ID	41004
Action Type	Flood warning maintenance			
Delivery Lead	SEPA Indicative Delivery Ongoing			Ongoing
Description	SEPA should maintain the River Don flood warning scheme.			
Funding	SEPA's role in this action is funded by Scottish Government			
	through SEPA's grant in aid settlement.			
Coordination	SEPA will work with the local authorities on the potential to use			
	information from flood studies in the River Don catchment to			
	inform ongoing flood warning. SEPA will continue to raise			
	awareness of flood warning and engage with communities about			
	the service when required.			

02/06/14 (Newburgh)

This area is designated as a potentially vulnerable area due to coastal flood risk to Newburgh. There is potential for a significant increase in flood risk as a result of sea level rise due to climate change.

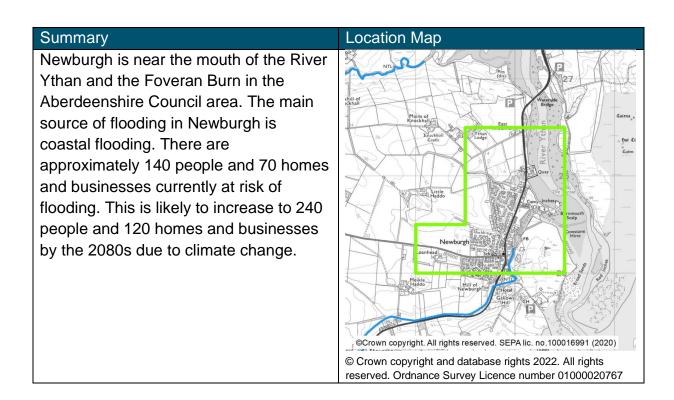
There is 1 target area in this potentially vulnerable area, which has been the focus of further assessment, this is identified below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Newburgh (Aberdeenshire)

(target area 423)

North East Local Flood Risk Management Plan datasheet					
Target Area name	Newburgh	Target Area ID	423		
	(Aberdeenshire)				



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources, and this national assessment has highlighted the risk of coastal flooding (particularly associated with climate change) in this target area. Newburgh has therefore been identified as a new target area for the 2021 flood risk management plans. The national assessment is underpinned by a coastal flood study completed in 2008. The understanding is also improved by the development and operation of the North East flood warning scheme. There are limited records of flooding in the Newburgh area.

The Dynamic Coast project has shown that parts of the shoreline in or adjacent to this target area are subject to erosion at present or are considered likely to erode in the future. Consideration should be given to how erosion might impact flood risk.

Any actions taken should aim to support building natural resilience to flooding and not lead to an increase in erosion.

Objective	ID	Description
Avoid flood risk	4231	Avoid inappropriate development that
		increases flood risk in Newburgh
Improve data and	4232	Improve data and understanding of the risk of
understanding		coastal flooding including the impacts of
		climate change in Newburgh
Prepare for flooding	4233	Prepare for current flood risk and future
		flooding as a result of climate change in
		Newburgh

Target Area	Newburgh (Aberdeenshire)		Action ID	42301	
Action Type	Strategic mapping improvements				
Delivery Lead	SEPA Indicative Delivery 2023-2024				
Description	SEPA has undertaken improved coastal modelling in this target				
	area including taking account of the impact of waves on coastal				
	flooding. We will complete and publish the outcomes of this				
	modelling work to inform decision making with respect to flooding				
	at the coast.				
Funding	SEPA's role in this action is funded by Scottish Government				
	through SEPA's grant in aid settlement.				
Coordination	SEPA will work with the local authority on the potential to				
	coordinate the flood map update with any other actions being				
	carried out to understand or reduce coastal flooding.				

Target Area	Newburgh (Aberdeenshire)		Action ID	42302
Action Type	Flood warning maintenance			
Delivery Lead	SEPA Indicative Delivery O			Ongoing
Description	SEPA should maintain the Aberdeenshire and Angus coastal			
	flood warning scheme.			
Funding	SEPA's role in this action is funded by Scottish Government			
	through SEPA's grant in aid settlement.			
Coordination	SEPA will work with the local authorities on the potential to use			
	information from the flood schemes and studies along the north			
	east coast to inform ongoing flood warning. SEPA will continue			
	to raise awareness of flood warning and engage with			
	communities about the service when required.			

02/06/15 (Aberdeen City – North)

This area is designated as a potentially vulnerable area due to the risk of flooding from surface water, small watercourses and the River Don to Bridge of Don, Dyce and Kingswells (north). There is a history of flooding to parts of the potentially vulnerable area from these sources, including recent flooding from surface water and small watercourses.

There are 3 target areas in this potentially vulnerable area, which have been the focus of further assessment, these are listed below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Bridge of Don Dyce Kingswells (north) (target area 412) (target area 430) (target area 445)

North East Local Flood Risk Management Plan datasheet				
Target Area name	Bridge of Don	Target Area ID	412	

Summary	Location Map
Bridge of Don covers the northern	
section of Aberdeen, including Old	
Aberdeen, Hilton and Bucksburn. It is in	
the Aberdeen City Council area. The	And a second sec
main source of flooding in Bridge of Don	
is from surface water flooding, however	
there is also a risk of river flooding from	
the River Don and small water courses.	
There are approximately 7,600 people	
and 4,200 homes and businesses	
currently at risk from flooding. This is	ABERDEE V. du Y
likely to increase to 11,000 people and	
6,200 homes and businesses by the	
2080s due to climate change.	A REAL PROPERTY AND A REAL
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This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improving for surface water flood risk by the development of a flood study for Jesmond Drive and a surface water management plan which addresses flood risk from smaller water courses including the Glashie Burn. An integrated catchment study has also improved understanding of surface water flood risk and its interactions with other flood sources. There is a long history of river flooding and surface water in the Bridge of Don target area. Recent flooding from surface water water was recorded in August 2020 following persistent rain during thunderstorms.

Objective	ID	Description
Avoid flood risk	4121	Avoid an increase in flood risk by the
		appropriate management and maintenance of
		the Glashieburn Flood Prevention scheme
Avoid flood risk	4122	Avoid inappropriate development that
		increases flood risk in Bridge of Don
Prepare for flooding	4123	Prepare for current flood risk and future
		flooding as a result of climate change in Bridge
		of Don
Reduce flood risk	4124	Reduce the risk of flooding from surface water,
		small water courses and the River Don in
		Bridge of Don

Target Area	Bridge of Don		Action ID	41201	
Action Type	Flood study (options appraisal)				
Delivery Lead	Scottish Water and Aberdeen City Council	Indicative Delivery		Complete	
Description	to reduce surface w the integrated catch includes the Glashie FRMPs published, f action. The Joint Flo optioneering flood s options to reduce flo local watercourses w influence to flood ris the surface water se	ater and s ment stud aburn and urther prop ood study b tudy did no ood risk in were ident sk in the ar ewers. The e catchme option dev fater and A	ewer flooding y optioneering the Silver Buil gress has been has been com ot identify any this area. Th ified to be the rea along with a study recom nt scale strate eloped throug Aberdeen City	g project. The study rn. Since Cycle 2 en made on this pleted. The ICS cost-beneficial e Glashie Burn and most significant network incapacity in mended that further egy is carried out, with gh the study in the council will use	
Funding	Progress on this act from all relevant age		-		

Coordination	The action delivery leads are Scottish Water and Aberdeen City
	Council and coordination will be determined once the actions
	have been finalised.

Target Area	Bridge of Don		Action ID	41202	
Action Type	Flood scheme or works design				
Delivery Lead	Scottish Water	Indica	tive Delivery	2022-2028	
	and Aberdeen				
	City Council				
Description	The Jesmond Drive	Flood Stu	dy in conjunc	tion with Scottish	
	Water is underway.	Identified	flood risk and	actions will advise	
	further investigation	s for detai	led design to	be undertaken to	
	address surface wa	ter flood ri	sk. Since Cyc	cle 2 FRMPs	
	published, further p	rogress ha	ive been mad	e on this action. The	
	Joint Flood study ha	as been co	mpleted. The	ICS optioneering	
	flood study did not i	dentify any	<pre>/ cost-benefic</pre>	ial options to reduce	
	flood risk in this are	a. The Gla	ashie Burn ar	d local watercourses	
	were identified to be	e the most	significant inf	fluence to flood risk in	
	the area along with				
	sewers. The study r			•	
		•••		with the inclusion of	
		-	-	he strategy. Scottish	
	Water and Aberdee	-			
	ICS Optioneering study to inform future strategic planning.				
Funding	Progress on this action will be dependent on securing funding				
	from all relevant agencies to carry out and support this work				
Coordination	The action delivery		ottish Water in	n coordination with	
	Aberdeen City Cour	ncil.			

Target Area	Bridge of Don		Action ID	41203	
Action Type	Community engage	Community engagement			
Delivery Lead	Scottish Water Indicative Delivery and Aberdeen City Council		Ongoing		
Description	Community engagement should continue during the development of detailed design of works identified in the Jesmond Drive Flood Study.				
Funding	Progress on this action will be dependent on securing funding from all relevant agencies to carry out and support this work.				

Coordination	The action delivery lead is Scottish Water in coordination with
	Aberdeen City Council.

Target Area	Bridge of Don		Action ID	41204	
Action Type	Flood scheme or works implementation				
Delivery Lead	Scottish Water and Aberdeen City Council	Indicative Delivery		2028-2034	
Description	conjunction with Sca developed to addres FRMPs published, f action. The Joint Fla optioneering flood s options to reduce fla local watercourses influence to flood ris the surface water se investigation into the strategy. Scottish W information from the strategic planning.	ottish Wat ss surface further pro bod study tudy did n bod risk in were ident sk in the a ewers. The e catchme option dev /ater and / e ICS Option	er, an approp water flood ri gress has been has been com ot identify any this area. The tified to be the rea along with e study recom ent scale strate veloped throug Aberdeen City oneering stud	en made on this npleted. The ICS / cost-beneficial le Glashie Burn and e most significant network incapacity in mended that further egy is carried out, with gh the study in the / Council will use y to inform future	
Funding		ction will be dependent on securing funding gencies to carry out and support this work			
Coordination	The action delivery Aberdeen City Cour	lead is Scottish Water in coordination with			

Target Area	Bridge of Don		Action ID	41206
Action Type	Sewer flood risk ass	essment		
Delivery Lead	Scottish Water	Indica	tive Delivery	2024-2026
Description	Scottish Water will u	ndertake	a modelling	
	assessment in the N	ligg and F	Persley sewer	catchments to
	improve knowledge	and unde	rstanding of fl	ood risk in this area
	as required under Se	ection 16	of the Flood F	Risk Management
	(Scotland) Act 2009			
Funding	Funding for this action is secured within Scottish Water's			
	business plan			
Coordination	Outputs of this modelling assessment will be shared with local			
	authorities and SEP	A		

Target Area	Bridge of Don		Action ID	41207	
Action Type	Surface water management plan				
Delivery Lead	Aberdeen City	Indica	tive Delivery	Ongoing	
	Council in				
	coordination with				
	Scottish Water.				
Description	Aberdeen City Cour	ncil should	finalise and i	mplement the surface	
	water management	plan for th	e Bridge of D	on area. This also	
	includes the Buckst	ourn and N	lorthfield to S	eaton areas. A surface	
	water management	plan shou	ld focus on a	reas at high risk of	
	surface water floodi	ng. This sl	hould incorpo	rate the results of the	
	integrated catchme	nt study ar	nd sewer flood	d risk assessment.	
	The impacts of climate change on flood risk should be				
	considered. Opportunities to disconnect surface water drainage				
	from the sewerage system should be identified.				
Funding	Progress on this action will be dependent on securing funding				
	from all relevant agencies to carry out and support this work.				
Coordination	The action delivery lead is Aberdeen City Council in coordination				
	with Scottish Water				

Target Area	Bridge of Don		Action ID	41208	
Action Type	Flood study				
Delivery Lead	Aberdeen City	Indica	tive Delivery	2022-2034	
	Council				
Description	A flood study should	d be carrie	d out for the F	River Don from Dyce	
	to the sea. This sho	uld build c	on the work do	one by SEPA and	
	Aberdeenshire Cou	ncil. Aberc	leen City Cou	ncil and SEPA should	
	work jointly to build	an agreed	hydrology fo	r the River Don and to	
	review the need to e	extend the	River Don flo	od warning scheme.	
	Interactions with surface water and coastal flooding should be				
	considered.				
Funding	Progress on this action will be dependent on securing funding				
	from all relevant agencies to carry out and support this work.				
Coordination	The action delivery lead is Aberdeen City Council in coordination				
	with				
	SEPA.				

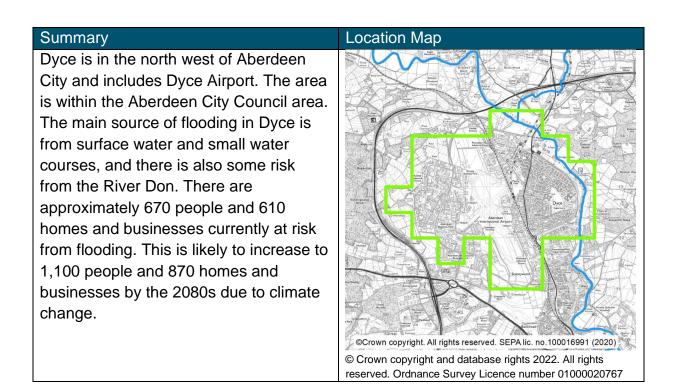
Target Area	Bridge of Don		Action ID	41209		
Action Type	Shoreline management plan (coastal adaptive plan)					
Delivery Lead	Aberdeen City	Indica	tive Delivery	2022-2034		
	Council					
Description	be required. In line shoreline managem City. There may be Aberdeenshire Cou impacts of climate of considered. Coasta	ic overview Council alcond Blackdo ow the sho nagement with recom ent plan s opportunit ncil as par change on l erosion s Grampian	w of the coast ong the frontag og. The aim w reline may de needs. A det nmendations of hould be deve ties to develop t of a wider ea coastal flood hould also be Marine Plan	al protection being ge of Aberdeen vas to improve evelop in the future ailed flood study may of the flood study, a eloped for Aberdeen o this with ast coast plan. The risk should be e considered. Linkages should be considered.		
Funding	Funding to come from	om existing	g ACC floodin	g capital budget		

Coordination	The action delivery lead is Aberdeen City Council and any
	coordination will be determined once the actions have been
	finalised.

Target Area	Bridge of Don		Action ID	41210	
Action Type	Flood defence mair	itenance			
Delivery Lead	Aberdeen City	Indica	tive Delivery	Ongoing	
	Council				
Description	The Glashieburn Flood Prevention Scheme should be				
	maintained. Consid	eration she	ould be given	to review the	
	performance of the	scheme, g	jiven that new	climate change data	
	and hydraulic data has been developed since the scheme was				
	built in the late 2000s.				
Funding	Funding to come from existing ACC Flood revenue budget.				
Coordination	The action delivery	lead is Ab	erdeen City C	Council.	

Target Area	Bridge of Don		Action ID	41211	
Action Type	Flood warning main	tenance			
Delivery Lead	SEPA	Indica	tive Delivery	Ongoing	
Description	SEPA should maint	ain the Riv	ver Don and th	he Aberdeenshire and	
	Angus coastal flood	warning s	chemes.		
Funding	SEPA's role in this action is funded by Scottish Government				
	through SEPA's grant in aid settlement.				
Coordination	SEPA will work with the local authorities on the potential to use				
	information from flood studies in the River Don catchment to				
	inform ongoing flood warning. SEPA will continue to raise				
	awareness of flood warning and engage with communities about				
	the service when re	quired.			

North East Local Flood Risk Management Plan datasheet					
Target Area name	Dyce	Target Area ID	430		



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. For Dyce, the national level assessment is improving for surface water by the development of a surface water management plan. This incorporates the results of the integrated catchment study and sewer flood risk assessment. There is a long history of flooding in Dyce. Notable flooding was recorded in January 2016 and August 2020 when persistent rainfall caused flooding from surface water, the Far Burn and the River Don.

Objective	ID	Description
Avoid flood risk	4301	Avoid inappropriate development that
		increases flood risk in Dyce
Prepare for flooding	4302	Prepare for current flood risk and future
		flooding as a result of climate change in Dyce

Reduce flood risk	4303	Reduce the risk of flooding from surface water,
		small water courses and River Don in Dyce

Target Area	Dyce		Action ID	43001	
Action Type	Flood study				
Delivery Lead	Aberdeen City Indica Council		tive Delivery	2022-2028	
Description	of solutions that ma reduce flood risk. Th	dies should urface wat y be applid he need fo	d look at the f ter in this area cable in these r further studi		
Funding	Progress on this action will be dependent on securing funding from all relevant agencies to carry out and support this work.				
Coordination	The action delivery coordination will be finalised.			,	

Target Area	Dyce		Action ID	43002		
Action Type	Flood study					
Delivery Lead	Aberdeen City Council	Indica	tive Delivery	2022-2036		
Description	to the sea. This sho Aberdeenshire Cou work jointly to build	uld build c ncil. Aberc an agreec extend the	on the work do deen City Cou I hydrology fo River Don flo	ncil and SEPA should r the River Don and to ood warning scheme.		
Funding	Progress on this action will be dependent on securing funding from all relevant agencies to carry out and support this work.					
Coordination	The action delivery lead is Aberdeen City Council in coordination with SEPA.					

Target Area	Dyce		Action ID	43003	
Action Type	Sewer flood risk asse	essment			
Delivery Lead	Scottish Water	Indica	tive Delivery	2023-2025	
Description	Scottish Water will u	ndertake	a modelling		
	assessment in the P	ersley sev	wer catchmen	it to improve	
	knowledge and unde	erstanding	of flood risk	in this area as	
	required under Section 16 of the Flood Risk Management				
	(Scotland) Act 2009				
Funding	Funding for this action is secured within Scottish Water's				
	business plan				
Coordination	Outputs of this modelling assessment will be shared with local				
	authorities and SEP	4			

Target Area	Dyce	Action ID	43004		
Action Type	Surface water management plan				
Delivery Lead	Aberdeen City Council & Scottish Water	Indicative Delivery	Ongoing		
Description	Aberdeen City Council should finalise and implement the Dyce Surface Water Management Plan. A surface water management plan should focus on areas at high risk of surface water flooding. This should incorporate the results of the integrated catchment study and sewer flood risk assessment. The impacts of climate change on flood risk should be considered. Opportunities to disconnect surface water drainage from the sewerage system should be identified.				
Funding	Progress on this action will be dependent on securing funding from all relevant agencies to carry out and support this work.				
Coordination	The action delivery lead is with Scottish Water.	Aberdeen City Cou	Incil in coordination		

North East Local Flood Risk Management Plan datasheet					
Target Area name	Kingswell (North)	Target Area ID	445		

Summary	Location Map
Kingswells (north) is a suburb located to	
the west of Aberdeen City. It is within the	ar Phil
Aberdeen City Council area. The only	Brinnord Hill's County Part
significant source of flooding in	Professor Professor
Kingswells (north) is surface water.	Part Participante and P
There are approximately 100 people and	
50 homes and businesses at risk from	antige Home
flooding. This is estimated to increase to	
130 people and 70 homes and	Coord
businesses by the 2080s due to climate	
change.	Marco Marco Di La constante de
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	reserved. Ordnance Survey Licence number 01000020767

This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improving for surface water by the development of a surface water management plan. This incorporates the results of the integrated catchment study and sewer flood risk assessment. There are no records of flooding in the Kingswell (north) target area, but this does not confirm that there is no flood risk.

Objective	ID	Description
Avoid flood risk	4451	Avoid inappropriate development that
		increases flood risk in Kingswells
Prepare for flooding	4452	Prepare for current flood risk and future
		flooding as a result of climate change in
		Kingswells as a result of climate change

Reduce flood risk	4453	Reduce the risk of surface water flooding in
		Kingswells

Target Area	Kingswells (north)		Action ID	44501
Action Type	Sewer flood risk as	sessment		
Delivery Lead	Scottish Water	Indica	tive Delivery	2023-2025
Description	Scottish Water will u assessment in the N and understanding Section 16 of the FI	Nigg sewe of flood ris	r catchment to k in this area	
Funding	Funding for this action is secured within Scottish Water's business plan			
Coordination	Outputs of this modelling assessment will be shared with local authorities and SEPA			

Target Area	Kingswells (north)		Action ID	44502		
Action Type	Surface water managem	ent p	lan			
Delivery Lead	Aberdeen City Council	Ind	icative Delivery	Ongoing		
	& Scottish Water.					
Description	Aberdeen City Council sl	nould	finalise and imp	lement the		
	Kingswells Surface Wate	er Ma	nagement Plan.	A surface water		
	management plan should	d focu	us on areas at hi	gh risk of surface		
	water flooding. This shou	uld ind	corporate the res	sults of the		
	integrated catchment stu	dy ar	nd sewer flood ri	sk assessment.		
	The impacts of climate cl	hang	e on flood risk sł	nould be		
	considered. Opportunities to disconnect surface water drainage					
	from the sewerage system should be identified.					
Funding	Progress on this action will be dependent on securing funding					
	from all relevant agencies to carry out and support this work.					
Coordination	The action delivery lead is Aberdeen City Council in coordination					
	with Scottish Water.					

02/06/16 (Kemnay)

Kemnay is designated as a potentially vulnerable area due to river and surface water flooding. Recent flooding occurred due to river flooding.

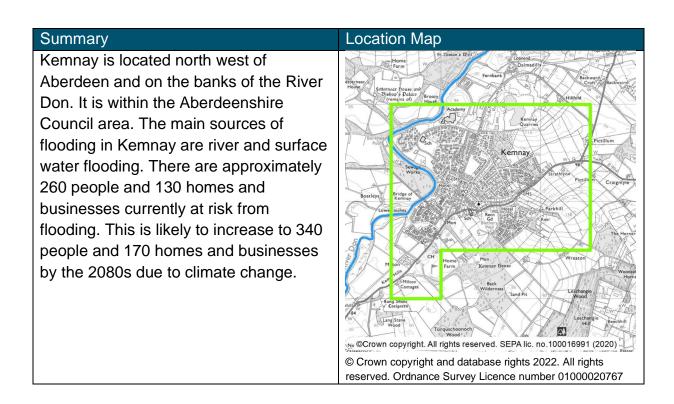
There is 1 target area in this potentially vulnerable area, which has been the focus of further assessment, this is identified below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Kemnay

(target area 422)

North East Local Flood Risk Management Plan datasheet					
Target Area name	Kemnay	Target Area ID	422		



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources, and this national assessment has highlighted the risk of river and surface water flooding in this target area. Kemnay has therefore been identified as a new target area for the 2021 flood risk management plans. The national level assessment is improved for river flooding by the development and operation of the River Don flood warning scheme. There are records of periodic flooding in the Kemnay target area including notable flooding in January 2016 when persistent rain caused the River Don to burst its banks.

Objective	ID	Description
Avoid flood risk	4221	Avoid inappropriate development that
		increases flood risk in Kemnay
Prepare for flooding	4222	Prepare for current flood risk and future
		flooding as a result of climate change in
		Kemnay
Reduce flood risk	4223	Reduce the risk of flooding from the River Don
		and surface water in Kemnay

Target Area	Kemnay		Action ID	42201			
Action Type	Flood study	Flood study					
Delivery Lead	Aberdeenshire	Indica	tive Delivery	2023-25			
	Council						
Description	Aberdeenshire Cou	ncil to dev	elop a flood s	tudy for Kemnay,			
	addressing flood ris	k from the	River Don. T	he council should			
	work closely with th	e SEPA to	agree the hy	drology, so that			
	improvements to the	e flood wa	rning and floo	d maps can be			
	considered.						
Funding	Funding for the study will be subject to Scottish Government's						
	block grant and capital support,						
	and budget allocations over the six years of the Plan, 2022-2028.						
Coordination	The action delivery lead is Aberdeenshire Council and require						
	coordination with other responsibilities (including SEPA and						
	Scottish Water) and will also include community engagement.						

Target Area	Kemnay		Action ID	42202	
Action Type	Sewer flood risk asse	essment			
Delivery Lead	Scottish Water	Indica	tive Delivery	2025-2027	
Description	Scottish Water will undertake a modelling assessment in the Inverurie sewer catchment to improve knowledge and understanding of flood risk in this area as required under Section 16 of the Flood Risk Management (Scotland) Act 2009				
Funding	Funding for this action is secured within Scottish Water's business plan				
Coordination	Outputs of this modelling assessment will be shared with local authorities and SEPA				

Target Area	Kemnay		Action ID	42203
Action Type	Surface water mana	agement p	lan	
Delivery Lead	Aberdeenshire	Indica	tive Delivery	2025-2027
	Council			
Description	A surface water ma	nagement	plan for Kem	nay will be developed.
	The impacts of clim	ate change	e on flood risk	are to be considered.
Funding	Funding for this action will be subject to Scottish Government's			
	block grant and capital support,			
	and budget allocations over the six years of the Plan, 2022-2028.			
Coordination	The action delivery lead is Aberdeenshire Council in coordination			
	with Scottish Water and other actions in the area.			

Target Area	Kemnay		Action ID	42204	
Action Type	Community flood al	ert			
Delivery Lead	Aberdeenshire Indica Council		tive Delivery	Ongoing	
Description	Milton Meadows has its own community flood warning system on a small unnamed watercourse at Milton Drive.				
Funding	Aberdeenshire Council Revenue				
Coordination	The action delivery lead is the community in coordination with Aberdeenshire Council and SEPA.				

Target Area	Kemnay		Action ID	42205	
Action Type	Flood warning main	tenance			
Delivery Lead	SEPA	SEPA Indicative Delivery Ongoing			
Description	SEPA should maint	ain the Riv	/er Don flood	warning scheme.	
Funding	SEPA's role in this action is funded by Scottish Government through SEPA's grant in aid settlement.				
Coordination	SEPA will work with the local authorities on the potential to use information from flood studies in the River Don catchment to inform ongoing flood warning. SEPA will continue to raise awareness of flood warning and engage with communities about the service when required.				

02/06/17 (Westhill)

This area is designated as a potentially vulnerable area due to the risk of surface water flooding to Westhill. There are some records of surface water and small water courses flooding roads.

There is 1 target area in this potentially vulnerable area, which has been the focus of further assessment, this is identified below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Westhill

(target area 416)

North East Local Flood Risk Management Plan datasheet			
Target Area name	Westhill	Target Area ID	416

Summary	Location Map
Westhill lies approximately 10km west of	
Aberdeen and includes Kirkton of Skene.	
It is within the Aberdeenshire Council	
area. The main source of flooding in	And States and And States
Westhill is surface water flooding. There	
are approximately 870 people and 440	The second secon
homes and businesses currently at risk	And the second s
of flooding. This is likely to increase to	
1,200 people and 600 homes and	
businesses by the 2080s due to climate	
change. Westhill is sensitive to the effect	
of climate change, particularly in Elrick,	
Kirkton on Skene and in areas	
surrounding the Westhill Golf Course.	©Crown copyright. All rights reserved. SEPA lic. no.100016991 (2020)
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This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved through the integrated catchment study and sewer flood risk assessment. Understanding is improving further through the development of a surface water management plan. There are limited records of flooding in the Westhill target area. These records relate to flooding from surface water and smaller water courses and include notable flooding during January 2016.

Objective	ID	Description
Avoid flood risk	4161	Avoid inappropriate development that increases
		flood risk in Westhill
Prepare for flooding	4162	Prepare for current flood risk and future flooding
		as a result of climate change in Westhill
Reduce flood risk	4163	Reduce the risk of surface water flooding in

Westhill		
		Westhill

Target Area	Westhill		Action ID	41601	
Action Type	Sewer flood risk as	sessment			
Delivery Lead	Scottish Water	Scottish Water Indicative Delivery 2023-2025			
Description	Scottish Water will u	undertake	a modelling		
	assessment in the N	assessment in the Nigg sewer catchment to improve knowledge			
	and understanding	and understanding of flood risk in this area as required under			
	Section 16 of the Fl	Section 16 of the Flood Risk Management (Scotland) Act 2009			
Funding	Funding for this acti	Funding for this action is secured within Scottish Water's			
	business plan				
Coordination	Outputs of this modelling assessment will be shared with local				
	authorities and SEF	ΡA			

Target Area	Westhill		Action ID	41602
Action Type	Surface water mana	agement p	lan	
Delivery Lead	Aberdeenshire	Indica	tive Delivery	Ongoing
	Council			
Description	The surface water n	The surface water management plan will be implemented. It		
	should regularly be	should regularly be updated and reviewed. The impacts of		
	climate change on flood risk are to be considered			
Funding	Funding for this action will be subject to Scottish Government's			
	block grant and capital support,			
	and budget allocations over the six years of the Plan, 2022-2028.			
Coordination	The action delivery lead is Aberdeenshire Council in coordination			
	with Scottish Water	and will c	onsider other	actions in the area.

02/06/18 (Aberdeen City – South)

This area is designated as a potentially vulnerable area due to the risk of river, coastal and surface water flooding to Aberdeen. Coastal flood risk is likely to increase due to sea level rise caused by climate change. Riverside Drive floods from the River Dee due to high tides. Surface water flooding affected Aberdeen on a number of occasions, causing roads to flood. The Merchant Quarter was particularly affected in the past.

There is 1 target area in this potentially vulnerable area, which has been the focus of further assessment, this is identified below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Aberdeen Central

(target area 413)

North East Local Flood Risk Management Plan datasheet			
Target Area name	Aberdeen Central	Target Area ID	413

Location Map
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This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level understanding of flood risk for surface water flood risk is improving through the development of a surface water management plan which focuses on addressing flood risk in 10 areas across the city considered to be at high risk of surface water flooding. This incorporates the results of the integrated catchment study and the sewer flood risk assessment. The understanding of coastal flood risk is improved by the Footdee Coastal Flood Study (2018) and the Aberdeen Strategic Overview of Coast Protection (2019). The understanding of river flooding is improved by the development and operation of the River Dee flood warning scheme and the development of the existing flood protection. There is a long history of flooding from all sources in the Aberdeen Central target area. Affected areas include known hot

spots, such as Merchant Quarter, Duthie Park's car park, Golf Road near Pittodrie, Riverside Drive, Holburn Street, Hutcheon Street and Fraser Road. The Dynamic Coast project has shown that parts of the shoreline in or adjacent to this target area are subject to erosion at present or are considered likely to erode in the future. Consideration should be given to how erosion might impact flood risk. Any actions taken should aim to support building natural resilience to flooding and not lead to an increase in erosion.

Objective	ID	Description
Avoid flood risk	4131	Avoid an increase in flood risk by the
		appropriate management and maintenance of
		the Aberdeen coastal flood protection scheme
Avoid flood risk	4132	Avoid an increase in flood risk by the
		appropriate management and maintenance of
		the Fraser Road, Maidencraig and Stronsay
		Park flood protection schemes and the Dee
		flood gates
Avoid flood risk	4133	Avoid inappropriate development that
		increases flood risk in Aberdeen
Improve data and	4134	Improve data and understanding of the
understanding		performance of the flood protection assets in
		Aberdeen
Improve data and	4135	Improve data and understanding of coastal
understanding		erosion, flooding and the impacts of climate
		change related to coastal flooding in Aberdeen
Prepare for flooding	4136	Prepare for current flood risk and/or future
		flooding in Aberdeen as a result of climate
		change
Reduce flood risk	4137	Reduce the risk of surface water flooding in
		Aberdeen
Reduce flood risk	4138	Reduce the risk of flooding from the River Dee
		and small water courses in Aberdeen

Target Area	Aberdeen Central		Action ID	41301
Action Type	Flood defence main	itenance		
Delivery Lead	Aberdeen City	Aberdeen City Indicative Delivery Ongoing		
	Council			
Description	Aberdeen City Council should maintain the Fraser Road,			
	Maidencraig and Stronsay Park Flood Protection Schemes and			
	the Dee flood gates. The existing coastal defences should also			
	be maintained.			
Funding	Funding to come from existing ACC Flood revenue budget.			
Coordination	The action delivery lead is Aberdeen City Council.			

Target Area	Aberdeen Central		Action ID	41302
Action Type	Flood scheme or wo	orks desig	n	
Delivery Lead	Scottish Water in coordination with Aberdeen City Council	Indica	tive Delivery	This action will likely cover multiple FRM cycles given the scale of intervention required.
Description	scheme or works, the the action will not have River Dee Special A The ICS Optioneering potential options to flooding in the Merce scale and cost of option recommended to be In FRM Cycle 1, Sc of an option to redut however this did no In Cycle 2, Scottish	wards ider erchant Q the flood r ne respons ave an adv Area of Co ng study ir reduce the chants Qua portunities develope ottish Wat ce sewer f t address f Water and portunities f flooding a	ntifying flood r uarter. isk managem sible authority verse effect or nservation. In Cycle 1 iden e risk of surfac arter area of A s, these option ed in further de er have devel flooding (see n the residual si d Aberdeen C to manage si at Merchant Q	isk mitigation ent plan, as part of the should aim to ensure in the integrity of the atified a range of ce water and sewer berdeen. Due to the ins were etail in phases. oped detailed design related Action 41304), urface water flooding. ity Council will work urface water, in order guarter. Due to the

	improvements to be delivered in a phased manner over a number of FRM cycles.
Funding	Progress on this action will be dependent on securing funding from all relevant agencies to carry out and support this work.
Coordination	The action delivery lead is Scottish Water in coordination with Aberdeen City Council.

Target Area	Aberdeen Central		Action ID	41303	
Action Type	Community engage	ment			
Delivery Lead	Scottish Water &	Indicative Delivery		Ongoing	
	Aberdeen City				
Description	Community engagement should continue during the development				
	of the detailed design of works for Merchant Quarter.				
Funding	Progress on this action will be dependent on securing funding				
	from all relevant agencies to carry out and support this work.				
Coordination	The action delivery lead is Scottish Water in coordination with				
	Aberdeen City Cour	ncil.			

Target Area	Aberdeen Central		Action ID	41304	
Action Type	Flood scheme or works implementation				
Delivery Lead	Scottish Water in coordination with Aberdeen City Council	Indica	tive Delivery	This action will likely cover multiple FRM cycles given the scale of intervention required.	
Description	schemes or works for be made available to Flood Defence Assess warning scheme up The responsible aut option for managing this action is subject Scottish Water appressever flooding in the however detailed site planned work is not	or Mercha o SEPA, fo et Databas dates. thority prop flood risk t to capital oved a £5 e Merchar te investig currently f	nt Quarter. As or consideration e, flood map boses this act in this comm funding being m project to r at Quarter are ation work in the feasible due to	updates and flood ion as the best viable unity. The delivery of g made available. educe the risk of a in FRM Cycle 1, 2022 has found this	

	on the improved site specific knowledge. It is expected that the required re-design activities will be linked in with Action 41302
	Scottish Water will continue to seek opportunities to manage the risk of flooding from the sewerage system in the shorter term. There is no developed scheme to address surface water flooding. ACC and Scottish Water will work together to identify a scheme to manage surface water flooding. This will be linked with action 41302.
Funding	Progress on this action will be dependent on securing funding from all relevant agencies to carry out and support this work.
Coordination	Scottish Water in coordination with Aberdeen City Council

Target Area	Aberdeen Central		Action ID	41305		
Action Type	Flood study					
Delivery Lead	Aberdeen City	Indica	tive Delivery	Completed		
	Council in					
	coordination with SEPA					
Description	A flood study has bee	n comm	issioned to ur	nderstand flood risk in		
	the valley of Denburn.	The stu	idy should co	ntinue to be		
	progressed. Since Cy		•			
	has been made on this action. The Flood study has been					
	completed along with a geomorphology appraisal study to reduce					
	flood risk. The geomo		•			
	significant flooding red					
	environmental and so		•			
	Currently, the results a		•	nd a decision will be		
Funding	made to further progre			aga prograda an thia		
Funding	If this project is taken					
	action will be depende		-	-		
Coordination	agencies to carry out and support this work.					
Coordination	The action delivery lead is Aberdeen City Council and will be delivered in coordination with SEPA. Once the actions have					
	been finalised further coordination requirements will be considered.					

Target Area	Aberdeen Central		Action ID	41306	
Action Type	Flood warning maintenance				
Delivery Lead	SEPA Indicative Delivery 2026-28				

Description	SEPA should maintain the River Dee flood warning scheme. The
	performance of the scheme at Riverside Drive should be
	investigated.
Funding	SEPA's role in this action is funded by Scottish Government
	through SEPA's grant in aid settlement.
Coordination	SEPA will maintain the River Dee flood warning scheme. SEPA
	will continue to raise awareness of flood warning and engage
	with communities about the service when required.

Target Area	Aberdeen Central		Action ID	41307		
Action Type	Flood warning main	tenance				
Delivery Lead	SEPA	Indica	tive Delivery	Ongoing		
Description	SEPA should maint	ain the Ab	erdeenshire a	and Angus coastal		
	flood warning scher	ne.				
Funding	SEPA's role in this action is funded by Scottish Government					
	through SEPA's grant in aid settlement.					
Coordination	SEPA will work with the local authorities on the potential to use					
	information from the flood schemes and studies along the north					
	east coast to inform ongoing flood warning. SEPA will continue					
	to raise awareness of flood warning and engage with					
	communities about	the service	e when requir	ed.		

Target Area	Aberdeen Central		Action ID	41308		
Action Type	Strategic mapping in	mproveme	ents			
Delivery Lead	SEPA	Indica	tive Delivery	2023-2024		
Description	SEPA has undertak	en improv	ed coastal mo	odelling in this target		
	area including takin	g account	of the impact	of waves on coastal		
	flooding. We will co	mplete and	d publish the	outcomes of this		
	modelling work to ir	form decis	sion making w	vith respect to flooding		
	at the coast.					
Funding	SEPA's role in this action is funded by Scottish Government					
	through SEPA's grant in aid settlement.					
Coordination	SEPA will work with the local authority on the potential to					
	coordinate the flood map update with any other actions being					
	carried out to under	stand or re	educe coastal	flooding.		

Target Area	Aberdeen Central		Action ID	41309		
Action Type	Shoreline management plan (coastal adaptive plan)					
Delivery Lead	Aberdeen City Council	Indica	tive Delivery	2022-2036		
Description	be required. In line shoreline managem City. There may be Aberdeenshire Cou impacts of climate of considered. Coasta	ic overview Council alcond Blackdo ow the sho nagement with recond ent plan so opportunit ncil as par change on l erosion so Grampian	w of the coast ong the frontag og. The aim w reline may de needs. A det nmendations of hould be develop t of a wider ea coastal flood hould also be Marine Plan	al protection being ge of Aberdeen vas to improve evelop in the future ailed flood study may of the flood study, a eloped for Aberdeen o this with ast coast plan. The risk should be considered. Linkages should be considered.		
Funding	Funding to come from existing ACC Flood capital budget.					
Coordination	The action delivery coordination will be finalised.		•	•		

Target Area	Aberdeen Central		Action ID	41310			
Action Type	Sewer flood risk ass	Sewer flood risk assessment					
Delivery Lead	Scottish Water	Indica	tive Delivery	2023-2025			
Description	Scottish Water will u	undertake	a modelling				
	assessment in the N	ligg sewe	r catchment to	o improve knowledge			
	and understanding	of flood ris	k in this area	as required under			
	Section 16 of the Flood Risk Management (Scotland) Act 2009						
Funding	Funding for this action is secured within Scottish Water's						
	business plan						
Coordination	Outputs of this modelling assessment will be shared with local						
	authorities and SEP	PA					

Target Area	Aberdeen Central		Action ID	41311		
Action Type	Surface water management plan					
Delivery Lead	Aberdeen City	Indica	tive Delivery	Ongoing		
	Council in					
	coordination with					
	Scottish Water.					
Description	Aberdeen City Cour	ncil should	finalise and i	mplement the surface		
	water management	plans for t	he Aberdeen	Central area. This		
	includes the Denbui	rn Valley, I	Millside and C	Cults, Garthdee to		
	Ferryhill, and part of	f Northfield	d to Seaton ar	eas. A surface water		
	management plan s	hould focu	is on areas at	t high risk of surface		
	water flooding. This	should inc	corporate the	results of the		
	integrated catchmer	nt study ar	nd sewer flood	d risk assessment.		
	The impacts of climation	ate change	e on flood risk	should be		
	considered. Opportu	unities to c	lisconnect su	rface water drainage		
	from the sewerage system should be identified.					
Funding	Progress on this action will be dependent on securing funding					
	from all relevant agencies to carry out and support this work.					
Coordination	The action delivery lead is Aberdeen City Council in coordination					
	with Scottish Water.					

02/06/19 (Peterculter)

Peterculter is designated as a potentially vulnerable area due to river flooding from the Culter Burn, and surface water flooding. Recent flooding occurred due to river and surface water flooding.

There is 1 target area in this potentially vulnerable area, which has been the focus of further assessment, this is identified below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Peterculter

(target area 415)

North East Local Flood Risk Management Plan datasheet						
Target Area name	Peterculter	Target Area ID	415			

Summary	Location Map
Peterculter is in Deeside, west of Aberdeen in the Aberdeen City Council area. The main source of flooding in Peterculter is river flooding from the Culter Burn. There is also a risk from surface water flooding. There are approximately 790 people and 430 homes and businesses at risk from flooding. This is likely to increase to 910 people and 510 homes and businesses by the 2080s due to climate change.	Orown copyright and database rights 2022. All rights reserved. Ordnance Survey Licence number 01000020767

This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level understanding of flood risk for river flooding is improved by a flood study of the Culter Burn which was completed in 2019. The understanding of surface water flood risk is improving through the development of a surface water management plan for Peterculter. This incorporates the results of the integrated catchment study and the sewer flood risk assessment. There is a long history of flooding from the Culter Burn including the notable flood in January 2016.

Objective	ID	Description		
Avoid flood risk	4151	Avoid inappropriate development that		
		increases flood risk in Peterculter		
Prepare for flooding	4152	Prepare for current flood risk and future		
		flooding as a result of climate change in		
		Peterculter		
Reduce flood risk	4153	Reduce the risk of flooding from the Culter		
		Burn in Peterculter		
Reduce flood risk	4154	Reduce the risk of surface water flooding in		
		Peterculter		

Target Area	Peterculter		Action ID	41501
Action Type	Data collection			
Delivery Lead	Aberdeen City	Indica	tive Delivery	Ongoing
	Council			
Description	Based on the result	s of the Pe	eterculter Floo	od Study, a monitoring
	scheme is being de	veloped. T	his includes t	he installation of river
	and rain gauges to i	improve u	nderstanding	of the catchment
	dynamics. An app is being developed which will allow local			
	residents to engage with the monitoring.			
Funding	Funding to come from existing ACC Flood capital budget and			
	external resources (SCORE Interregg European project)			
Coordination	The action delivery lead is Aberdeen City Council and any			
	coordination will be determined once the actions have been			
	finalised.			

Target Area	Peterculter		Action ID	41502		
Action Type	Community flood al	ert				
Delivery Lead	Aberdeen City	Indica	tive Delivery	Ongoing		
	Council					
Description	A community river level alerting system for the Culter Burn should					
	be implemented and	d maintain	ed based on t	the monitoring		
	scheme which is being developed.					
Funding	Funding to come from existing ACC Flood capital budget and					
	external resources (SCORE Interregg European project)					
Coordination	The action delivery lead is Aberdeen City Council in coordination					
	with the Community	[,] Council.	with the Community Council.			

Target Area	Peterculter		Action ID	41503
Action Type	Sewer flood risk ass	sessment		
Delivery Lead	Scottish Water	Indica	tive Delivery	2023-2025
Description	Scottish Water will u	undertake	a modelling	
	assessment in the N	ligg sewe	r catchment to	o improve knowledge
	and understanding of flood risk in this area as required under			
	Section 16 of the Flood Risk Management (Scotland) Act 2009			
Funding	Funding for this action is secured within Scottish Water's			
	business plan			
Coordination	Outputs of this modelling assessment will be shared with local			
	authorities and SEPA			

Target Area	Peterculter		Action ID	41504	
Action Type	Surface water management plan				
Delivery Lead	Aberdeen City	Indicative Delivery Ongoing			
	Council in				
	coordination with				
	Scottish Water.				
Description	Aberdeen City Council should finalise and implement the				
	Peterculter Surface Water Management Plan. A surface water				
	management plan should focus on areas at high risk of surface				
	water flooding. This should incorporate the outputs of the				
	integrated catchment study and sewer flood risk assessment.				
	The impacts of climate change on future flood risk should be				
	considered. Opportunities to disconnect surface water drainage				
	from the sewerage system should be identified.				
Funding	Progress on this action will be dependent on securing funding				
	from all relevant agencies to carry out and support this work.				
Coordination	Aberdeen City Council in coordination with Scottish Water.				

Target Area	Peterculter		Action ID	41505
Action Type	Flood warning maintenance			
Delivery Lead	SEPA Indica		tive Delivery	Ongoing
Description	SEPA should maintain the River Dee flood warning scheme.			
Funding	SEPA's role in this action is funded by Scottish Government			
	through SEPA's gra	nt in aid s	ettlement.	

Coordination	SEPA will maintain the River Dee flood warning scheme. SEPA
	will continue to raise awareness of flood warning and engage
	with communities about the service when required.

02/06/20 (Aboyne)

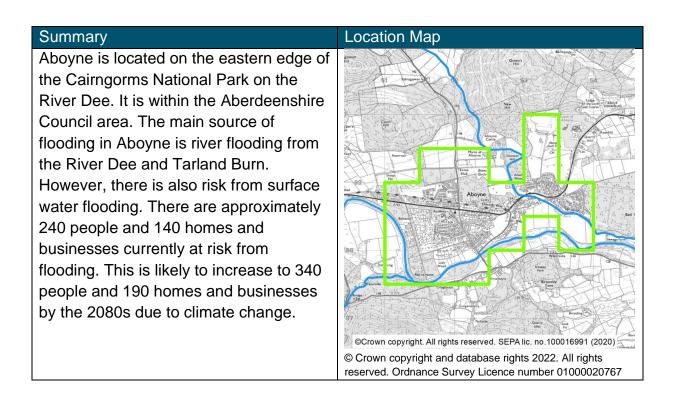
This area is designated as a potentially vulnerable area due to past flooding in Aboyne and Tarland from the Tarland Burn. Surface water flooding has also occurred in Aboyne. Recent flooding was caused by both river and surface water flooding.

There are 2 target areas in this potentially vulnerable area, which have been the focus of further assessment, these are listed below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Aboyne Tarland (target area 417) (target area 418)

North East Local Flood Risk Management Plan datasheet				
Target Area name	Aboyne	Target Area ID	417	



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improving for surface water by the development of a surface water management plan for Aboyne. A sewer flood risk assessment has also been completed. The understanding of river flooding is improved through the development and operation of the River Dee flood warning scheme. There is a long history of flooding in Aboyne including notable flooding during Storm Frank in December 2015 and into January 2016 when the River Dee and Tarland Burn burst their banks.

Objective	ID	Description
Avoid flood risk	4171	Avoid inappropriate development that
		increases flood risk in Aboyne
Prepare for flooding	4172	Prepare for current flood risk and future
		flooding as a result of climate change in
		Aboyne
Reduce flood risk	4173	Reduce the risk of flooding from the River
		Dee, Tarland Burn and surface water in
		Aboyne

Target Area	Aboyne		Action ID	41701		
Action Type	Flood study	Flood study				
Delivery Lead	Aberdeenshire	Indica	tive Delivery	2023-25		
	Council					
Description	A flood study should	d be unde	rtaken for the	River Dee and		
	Tarland Burn at Abo	oyne. SEP	A should be c	consulted early to		
	agree the hydrology, as it may affect the River Dee flood warning					
	scheme. There may	be oppor	tunities for co	llaboration. The		
	impacts of climate change on flood risk should be assessed.					
Funding	Funding for the study will be subject to Scottish Government's					
	block grant and capital support,					
	and budget allocations over the six years of the Plan, 2022-2028.					
Coordination	The action delivery lead is Aberdeenshire Council and require					
	coordination with other responsibilities (including SEPA and					
	Scottish Water) and	Scottish Water) and will also include community engagement.				

Target Area	Aboyne		Action ID	41701	
Action Type	Surface water management plan				
Delivery Lead	Aberdeenshire Indicative Delivery Council		Ongoing		
Description	The surface water management plan will be implemented. It should regularly be updated and reviewed. The impacts of climate change on flood risk are to be considered				
Funding	Funding for this action will be subject to Scottish Government's block grant and capital support, and budget allocations over the six years of the Plan, 2022-2028.				

Coordination	The action delivery lead is Aberdeenshire Council in coordination				
	with Scottish Water and will consider other actions in the area.				

Target Area	Aboyne		Action ID	41701	
Action Type	Flood warning main	itenance			
Delivery Lead	SEPA Indica		tive Delivery	Ongoing	
Description	SEPA should maint	ain the Riv	/er Dee flood	warning scheme.	
Funding	SEPA's role in this action is funded by Scottish Government				
	through SEPA's grant in aid settlement.				
Coordination	SEPA will work with Aberdeenshire Council on the potential to				
	use the findings of flood studies in the River Dee catchment to				
	inform ongoing flood warning. SEPA will continue to raise				
	awareness of flood warning and engage with communities about				
	the service when required.				

North East Local Flood Risk Management Plan datasheet					
Target Area name	Tarland	Target Area ID	418		

Summary	Location Map
The village of Tarland is located around 50km west of Aberdeen, on the Tarland Burn, a tributary of the River Dee. The area is within the Aberdeenshire Council area. The main source of flooding is river flooding. There are approximately 190 people and 100 homes and businesses at risk from flooding. This is not estimated to increase significantly by the 2080s, due to climate change.	Provide a served

This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources, and this national assessment has highlighted the risk of river flooding in this target area. Tarland has therefore been identified as a new target area for the 2021 flood risk management plans. The national level assessment is improved for river flooding due to the previous studies investigating options to reduce flood risk in the target area. There are frequent records of flooding in Tarland.

Objective	ID	Description
Avoid flood risk	4181	Avoid inappropriate development that increases
		flood risk in Tarland
Prepare for flooding	4182	Prepare for current flood risk and future flooding
		as a result of climate change in Tarland

Reduce flood risk	4183	Reduce the risk of flooding from the Tarland
		Burn in Tarland

Target Area	Tarland		Action ID	41801
Action Type	Flood study			
Delivery Lead	Aberdeenshire	Indica	tive Delivery	2023-25
	Council			
Description	A flood study should be carried out for the Tarland Burn. This should be based on existing flood studies. Any existing models should be reviewed and updated to take account of new climate change data.			
Funding	Funding for the study will be subject to Scottish Government's block grant and capital support, and budget allocations over the six years of the Plan, 2022-2028.			
Coordination	The action delivery lead is Aberdeenshire Council and require coordination with other responsibilities (including SEPA and Scottish Water) and will also include community engagement.			

02/06/21 (Banchory)

This area is designated as a potentially vulnerable area as Banchory is at risk of surface water flooding. There is a history of flooding, with recent flooding due to surface water.

There is 1 target area in this potentially vulnerable area, which has been the focus of further assessment, this is identified below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Banchory

(target area 433)

North East Local Flood Risk Management Plan datasheet					
Target Area name	Banchory	Target Area ID	433		

Summary	Location Map
Banchory is located approximately 30km west of Aberdeen, on the banks of the River Dee. It is within the Aberdeenshire Council area. The main source of flooding in Banchory is surface water flooding. There are approximately 340 people and 200 homes and businesses currently at risk of flooding. This is likely to increase to 470 people and 260 homes and businesses by the 2080s due to climate change.	Cocation Map For the second
	reserved. Ordnance Survey Licence number 01000020767

This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved for surface water by a sewer flood risk assessment. There are limited records of flooding in Banchory.

Objective	ID	Description	
Avoid flood risk	4331	Avoid inappropriate development that	
		increases flood risk in Banchory	
Prepare for flooding	4332	Prepare for current flood risk and future	
		flooding as a result of climate change in	
		Banchory as a result of climate change	
Reduce flood risk	4333	Reduce the risk of surface water flooding in	
		Banchory	

Target Area	Banchory		Action ID	43301	
Action Type	Flood warning maintenance				
Delivery Lead	SEPA Indica		tive Delivery	Ongoing	
Description	SEPA should maintain the River Dee flood warning scheme.				
Funding	SEPA's role in this action is funded by Scottish Government				
	through SEPA's grant in aid settlement.				
Coordination	SEPA will maintain the River Dee flood warning scheme. SEPA				
	will continue to raise awareness of flood warning and engage				
	with communities about the service when required.				

02/06/22 (Ballater)

This area is designated as a potentially vulnerable area due to flood risk from the River Dee and surface water flooding to Ballater. Recent floods have occurred in the area from both surface water and river flooding.

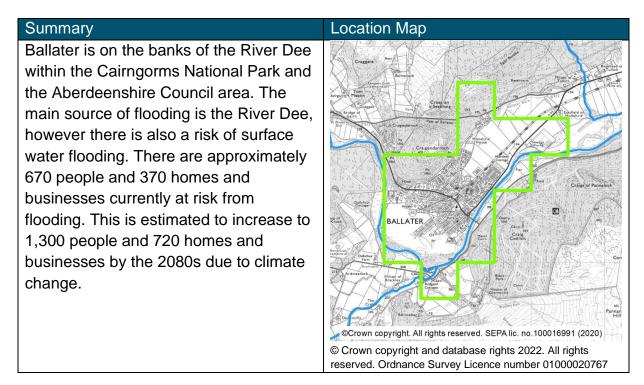
There is 1 target area in this potentially vulnerable area, which has been the focus of further assessment, this is identified below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Ballater

(target area 414)

North East Local Flood Risk Management Plan datasheet					
Target Area name	Ballater	Target Area ID	414		



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved for river flooding by the Ballater Flood Study (2019). The study focuses on flood risk from the River Dee and its tributaries the River Gairn and the River Muick. Understanding of surface water flood risk is improved by a sewer flood risk assessment. There is a long history of occasional flooding recorded in the Ballater target area, including severe flooding from the River Dee in December 2015.

Objective	ID	Description	
Avoid flood risk	4141	Avoid inappropriate development that	
		increases flood risk in Ballater	
Prepare for flooding	4142	Prepare for current flood risk and/or future	
		flooding in Ballater as a result of climate	
		change	

Reduce flood risk	4143	Reduce the risk of flooding from the River Dee
		in Ballater

Target Area	Ballater		Action ID	41401		
Action Type	Flood scheme or works design					
Delivery Lead	Aberdeenshire Council	Indica	Indicative Delivery 2025-27			
Description	The detailed design for the Ballater Flood Protection Scheme should be progressed based on the preferred option identified from the Ballater Flood Protection Study - Feasibility Report - December 2019. Further development of the preferred option will be required prior					
	to commencing with the detailed design. Aberdeenshire Council to work closely with Cairngorms National Park Authority to identify any planning constraints and opportunities associated with the proposals.					
	option for managing	e responsible authority proposes this action as the best viable tion for managing flood risk in this community. The delivery of s action is subject to capital funding being made available.				
	scheme or works, th	h the flood risk management plan, as part of the the responsible authority will aim to ensure the re an adverse effect on the integrity of the River of Conservation.				
Funding	flood capital monies time of the production	ect to funding via the Scottish Government es. This monies has not been allocated at the ion of this report.				
Coordination		lead is Aberdeenshire Council in coordination ble authorities and including community				

Target Area	Ballater		Action ID	41402	
Action Type	Community engage	ment			
Delivery Lead	Aberdeenshire	Indica	tive Delivery	Ongoing	
	Council				
Description	The responsible aut	thorities to	continue to e	ngage with the	
	community (includir	ng the Con	nmunity Coun	cil's Flood Issues	
	Group), with particu	lar focus o	on the detailed	d design of the flood	
	scheme in order to	balance th	e requiremen	ts for flood	
	management with wider social, economic and environmental				
	considerations.				
Funding	Funding for this action will be subject to Scottish Government's				
	block grant and capital support,				
	and budget allocations over the six years of the Plan, 2022-2028.				
Coordination	Aberdeenshire Council will coordinate with other responsible				
	authorities to ensure that communities are aware of the risk and				
	assist with becomin	g more re	silient to the ri	sk of flooding	

Target Area	Ballater		Action ID	41403		
Action Type	Flood scheme or wo	Flood scheme or works implementation				
Delivery Lead	Aberdeenshire	Indica	tive Delivery	2027-28		
	Council					
Description	Progress the Ballater Flood Protection Scheme based on the detailed design. As built drawings should be made available to SEPA, for consideration in the Scottish Flood Defence Asset Database, flood map updates and flood warning scheme updates.					
	The responsible authority proposes this action as the best viable option for managing flood risk in this community. The delivery of this action is subject to capital funding being made available.					
Funding	This works is subject to funding via the Scottish Government flood capital monies. This monies has not been allocated at the time of the production of this report.					
Coordination	The action delivery with other responsite engagement			Council in coordination ding community		

Target Area	Ballater		Action ID	41404	
Action Type	Community resilience	e group			
Delivery Lead	Aberdeenshire	Indica	tive Delivery	2022-28	
	Council				
Description	Aberdeenshire Counc	cil to sup	port Commur	ity Council's Flood	
	Issues Group in prom	noting ac	tions in their (Community Resilience	
	Plan.				
Funding	Funding for this action will be subject to Scottish Government's				
	block grant and capital support,				
Coordination	Aberdeenshire Council to support Community Council's Flood				
	Issues Group including coordination with other responsible				
	authorities.				

Target Area	Ballater		Action ID	41405	
Action Type	Flood warning maintenance				
Delivery Lead	SEPA Indica		tive Delivery	Ongoing	
Description	SEPA should maintain the River Dee flood warning scheme.				
Funding	SEPA's role in this action is funded by Scottish Government				
	through SEPA's grant in aid settlement.				
Coordination	SEPA will maintain the River Dee flood warning scheme. SEPA				
	will continue to raise awareness of flood warning and engage				
	with communities a	bout the se	ervice when re	equired.	

02/06/23 (Stonehaven)

This area is designated as a potentially vulnerable area due to river, coastal and surface water flood risk. Coastal flood risk is likely to increase due to sea level rise caused by climate change. Recent floods have occurred as a result of all flood sources.

There is 1 target area in this potentially vulnerable area, which has been the focus of further assessment, this is identified below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Stonehaven

(target area 419)

North East Local Flood Risk Management Plan datasheet					
Target Area name	Stonehaven	Target Area ID	419		

Summary	Location Map
Summary Stonehaven and Cowie are located south of Aberdeen in the Aberdeenshire Council area. Flooding is from river, coastal and surface water sources. The River Carron Flood Protection Scheme is under construction and will help address the river flood risk identified. There are	Location Map
approximately 3,100 people and 1,600 homes and businesses currently at risk from flooding. This is likely to increase to 3,600 people and 1,800 homes and businesses by the 2080s due to climate change.	© Crown copyright and database rights 2022. All rights

This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. The national level assessment is improved for river flood risk by the studies to develop the River Carron Flood Protection Scheme.

Understanding of coastal flood risk is improved by the Stonehaven Bay coastal flood study (2019) which includes wave action. The study confirms there is a significant risk of coastal flooding in the target area.

Understanding of surface water flood risk is improving through the Aberdeen Integrated Catchment Study, which also covers Stonehaven. It is also improving through the ongoing development of a surface water management plan for Stonehaven.

There is a long history of flooding in Stonehaven. This includes notable river flooding from the River Carron in November 2009 and from the River Carron and its tributary, the Glaslaw Burn in December 2012. There was also notable coastal flooding in December 2012 in Stonehaven and Covie and wave overtopping occurs

several times a year. There are also records of surface water which includes recent flooding during August 2020.

The Dynamic Coast project has shown that parts of the shoreline in or adjacent to this target area are subject to erosion at present or are considered likely to erode in the future. Consideration should be given to how erosion might impact flood risk. Any actions taken should aim to support building natural resilience to flooding and not lead to an increase in erosion.

Objective	ID	Description	
Avoid flood risk	4191	Avoid inappropriate development that	
		increases flood risk in Stonehaven	
Avoid flood risk	4192	Avoid an increase in flood risk by the	
		appropriate management and maintenance of	
		the River Carron flood protection scheme	
Reduce flood risk	4193	Reduce the risk of flooding from the River	
		Carron in Stonehaven	
Prepare for flooding	4194	Prepare for current flood risk and future	
		flooding as a result of climate change in	
		Stonehaven as a result of climate change	
Reduce flood risk	4195	Reduce the risk of coastal flooding in	
		Stonehaven	
Reduce flood risk	4196	Reduce the risk of surface water flooding in	
		Stonehaven	

Target Area	Stonehaven		Action ID	41901			
Action Type	Flood scheme or wo	Flood scheme or works implementation					
Delivery Lead	Aberdeenshire	Indica	tive Delivery	Ongoing			
	Council						
Description	The River Carron F	lood Prote	ction Scheme	e started in cycle 1 to			
	be completed. As b	uilt drawin	gs should be	made available to			
	SEPA for considera	tion in the	Scottish Floo	d Defence Asset			
	Database, flood map updates and flood warning scheme						
	updates.						
Funding	The Stonehaven Flood Protection Scheme is funded by the 80%						
	funding from the Scottish Government's Flooding Component of						
	the general Capital Grant. The remaining funding is met from the						
	Harbours, Coast & Flooding line from Aberdeenshire						
	Council's Capital Plan 2022-2037.						
Coordination	The action delivery lead is Aberdeenshire Council and						
	coordination will be	coordination will be determined once the actions have been					
	finalised.						

Target Area	Stonehaven		Action ID	41902		
Action Type	Flood defence maintenance					
Delivery Lead	Aberdeenshire Indicat Council		tive Delivery	Ongoing		
Description	Once completed, the River Carron Flood Protection Scheme should be maintained.					
Funding	Aberdeenshire Council Revenue					
Coordination	The action delivery lead is Aberdeenshire Council and coordination will be determined once the actions have been finalised.					

Target Area	Stonehaven		Action ID	41903
Action Type	Sewer flood risk as	sessment		
Delivery Lead	Scottish Water	Indica	tive Delivery	2023-2025
Description	Scottish Water will u	undertake	a modelling	
	assessment in the N	ligg sewe	r catchment to	o improve knowledge
	and understanding of flood risk in this area as required under			
	Section 16 of the Flood Risk Management (Scotland) Act 2009			
Funding	Funding for this action is secured within Scottish Water's			
	business plan			
Coordination	Outputs of this modelling assessment will be shared with local			
	authorities and SEP	PA		

Target Area	Stonehaven		Action ID	41904	
Action Type	Surface water mana	agement p	lan		
Delivery Lead	Aberdeenshire	Indica	tive Delivery	Ongoing	
	Council				
Description	The surface water management plan will be implemented. It				
	should regularly be	should regularly be updated and reviewed. The impacts of			
	climate change on flood risk are to be considered				
Funding	Funding for this action will be subject to Scottish Government's				
	block grant and capital support,				
	and budget allocations over the six years of the Plan, 2022-2028.				
Coordination	The action delivery	lead is Ab	erdeenshire C	Council in coordination	
	with Scottish Water	and will co	onsider other	actions in the area.	

Target Area	Stonehaven		Action ID	41905	
Action Type	Flood scheme or works design				
Delivery Lead	Aberdeenshire	Indicative Delivery 2025-27			
	Council				
Description	The detailed design	for the St	onehaven Ba	y Coastal Flood	
	Protection Scheme	should be	progressed b	ased on the preferred	
	option identified fror	n the Stor	ehaven Bay (Coastal Flood	
	Protection Study - D			•	
	adaptive approach a	•	nenting furthe	er changes to	
	defences after 30 years.				
	•			ion as the best viable	
				unity. The delivery of	
Europhic e	this action is subject	•		*	
Funding	This works is subject		•		
	•			een allocated at the	
Coordination	time of the production of this report.				
Coordination	The action delivery lead is Aberdeenshire Council in coordination				
	with other responsible authorities and including community				
	engagement				
Target Area	Stonehaven		Action ID	41906	
Target Area		orko imple		41900	
Action Type	Flood scheme or works implementation				

Target Area	Stonehaven		Action ID	41906
Action Type	Flood scheme or works implementation			
Delivery Lead	Aberdeenshire Council	Indica	tive Delivery	2027-28

Description	Progress the Stonehaven Bay Coastal Flood Protection Scheme based on the detailed design. As built drawings should be made available to SEPA, for consideration in the Scottish Flood Defence Asset Database, flood map updates and flood warning scheme updates.
	The responsible authority proposes this action as the best viable option for managing flood risk in this community. The delivery of this action is subject to capital funding being made available.
Funding	
Funding	This works is subject to funding via the Scottish Government
	flood capital monies. This monies has not been allocated at the time of the production of this report.
Coordination	The action delivery lead is Aberdeenshire Council in coordination
	with other responsible authorities and including community
	engagement

Target Area	Stonehaven		Action ID	41907	
Action Type	Community engage	ment			
Delivery Lead	Aberdeenshire	Indica	tive Delivery	Ongoing	
	Council				
Description	The responsible aut	horities to	continue to e	engage with the	
	community, with particular focus on the design of the Coastal and				
	Farrochie Burn flood	d schemes	3.		
Funding	Funding for this action will be subject to Scottish Government's				
	block grant and capital support,				
	and budget allocations over the six years of the Plan, 2022-2028.				
Coordination	Aberdeenshire Council will coordinate with other responsible				
	authorities to ensure	e that com	munities are a	aware of the risk and	
	assist with becomin	g more res	silient to the r	isk of flooding	

Target Area	Stonehaven		Action ID	41908	
Action Type	Strategic mapping i	mproveme	ents		
Delivery Lead	SEPA	Indica	tive Delivery	2023-2024	
Description	SEPA has undertak	en improv	ed coastal mo	odelling in this target	
	area including takin	g account	of the impact	of waves on coastal	
	flooding. We will co	mplete and	d publish the	outcomes of this	
	modelling work to inform decision making with respect to flooding				
	at the coast				
Funding	SEPA's role in this action is funded by Scottish Government				
	through SEPA's grant in aid settlement.				
Coordination	SEPA will work with the local authority on the potential to				
	coordinate the flood map update with any other actions being				
	carried out to under	stand or re	educe coastal	flooding.	

Target Area	Stonehaven		Action ID	41909	
Action Type	Flood warning main	tenance			
Delivery Lead	SEPA	Indica	tive Delivery	Ongoing	
Description	SEPA should maint	ain the Ab	erdeenshire a	and Angus coastal	
	flood warning scher	ne and the	e River Carror	n flood warning	
	scheme.				
Funding	SEPA's role in this action is funded by Scottish Government				
	through SEPA's grant in aid settlement.				
Coordination	SEPA will work with Aberdeenshire Council on the potential to				
	use information on the Stonehaven flood scheme to inform				
	ongoing flood warning. SEPA will continue to raise awareness of				
	flood warning and engage with communities about the service				
	when required.				

Target Area	Stonehaven		Action ID	41910
Action Type	Flood study (options appraisal)			
Delivery Lead	Scottish Water and Aberdeenshire Council		tive Delivery	Completed
Description	The Cycle 1 ICS Optioneering study identified options to reduce the risk of surface water and sewer flooding which were dependent on managing flows in the Farrochie Burn which also has a historical risk of flooding. Therefore, there is a need to expand on the scope of the previous study to widen the exploration of opportunities to reduce flood risk across the extent of the Farrochie Burn catchment. This will allow for partners to fully understand the interactions between the watercourse, surface flows and the sewer network and for a holistic plan for flood risk management to be developed across the catchment.			
Funding	This phase of the study was fully funded and completed in Cycle 1. Funding to take the study forward to the next stage is yet to be confirmed			
Coordination	The action will be constrained and a constraint of the constraint	Aberdeen	•	collaboration between and is linked to

Target Area	Stonehaven		Action ID	41911	
Action Type	Flood scheme or works design				
Delivery Lead	Aberdeenshire	Indica	tive Delivery	2025-27	
	Council				
Description	The detailed design	for the Fa	arrochie Burn	Flood Protection	
	Scheme should be	progresse	d based on th	e preferred option	
	identified from the lu	ntegrated	Catchment St	udy - Optioneering	
	Development Study	[,] - July 202	21.		
	Aberdeenshire Cou	ncil and S	cottish Water	propose this action as	
	the best viable option for managing surface water flood risk in this				
	community. The delivery of this action is subject to capital funding				
	being made available.				
Funding	This works is subject to funding via the Scottish Government				
	flood capital monies. This monies has not been allocated at the				
	time of the production of this report.				
Coordination	The action delivery	lead is Ab	erdeenshire C	Council in coordination	
	with Scottish Water	and other	actions in the	e area.	

Target Area	Stonehaven		Action ID	41912	
Action Type	Flood scheme or works implementation				
Delivery Lead	Aberdeenshire Council and Scottish Water	-		2027-28	
Description	Progress the Farrochie Burn Flood Protection Scheme based on the detailed design. As built drawings should be made available to SEPA, for consideration in the Scottish Flood Defence Asset Database, flood map updates and flood warning scheme updates. The responsible authorities propose this action as the best viable option for managing flood risk in this community. The delivery of this action is subject to capital funding being made available.				
Funding	This works is subject to funding via the Scottish Government flood capital monies. This monies has not been allocated at the time of the production of this report.				
Coordination	The action delivery lead is Aberdeenshire Council in coordination with Scottish Water and other responsible authorities and including community engagement				

02/06/24 (Portlethen)

Portlethen is designated as a potentially vulnerable area due to the risk of river and surface water flooding. Recent flooding occurred due to surface water flooding.

There is 1 target area in this potentially vulnerable area, which has been the focus of further assessment, this is identified below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Portlethen

(target area 425)

North East Local Flood Risk Management Plan datasheet					
Target Area name	Target Area namePortlethenTarget Area ID425				

Summary	Location Map
Portlethen is located south of Aberdeen in the Aberdeenshire Council area. The main sources of flooding in Portlethen are surface water and river flooding from the Burn of Findon. There are approximately 630 people and 310 homes and businesses currently at risk from flooding. This is likely to increase to 810 people and 400 homes and businesses by the 2080s due to climate change.	Order to the served. SEPA lic. no. 100016991 (2020)

This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources, and this national assessment has highlighted the risk of surface water and river flooding in this target area. Portlethen has therefore been identified as a new target area for the 2021 flood risk management plans. The national level understanding of flooding is improved by the Aberdeen Integrated Catchment Study which covers Portlethen. The understanding of surface water flooding is also improving through the development of a surface water management plan. There are records of periodic flooding in Portlethen including recent flooding in August 2020 from the Burn of Findon.

Objective	ID	Description
Avoid flood risk	4251	Avoid inappropriate development that increases
		flood risk in Portlethen
Prepare for flooding	4252	Prepare for current flood risk and future flooding as
		a result of climate change in Portlethen
Reduce flood risk	4253	Reduce the risk of flooding from surface water and
		small water courses in Portlethen

Target Area	Portlethen		Action ID	42501
Action Type	Sewer flood risk ass	sessment		
Delivery Lead	Scottish Water	Scottish Water Indicative Delivery 2023-2025		
Description	Scottish Water will u	undertake	a modelling	
	assessment in the N	ligg sewe	r catchment to	o improve knowledge
	and understanding	of flood ris	k in this area	as required under
	Section 16 of the Flood Risk Management (Scotland) Act 2009			
Funding	Funding for this action is secured within Scottish Water's			
	business plan			
Coordination	Outputs of this modelling assessment will be shared with local			
	authorities and SEP	PA		

Target Area	Portlethen		Action ID	42502	
Action Type	Surface water mana	Surface water management plan			
Delivery Lead	Aberdeenshire	Indica	tive Delivery	Ongoing	
	Council				
Description	The surface water n	nanageme	ent plan will be	e implemented. It	
	should regularly be	updated a	nd reviewed.	The impacts of	
	climate change on flood risk are to be considered				
Funding	Funding for this action will be subject to Scottish Government's				
	block grant and capital support,				
	and budget allocations over the six years of the Plan, 2022-2028.				
Coordination	The action delivery	lead is Ab	erdeenshire C	Council in coordination	
	with Scottish Water	and will c	onsider other	actions in the area.	

02/06/25 (Cove and Nigg Bay)

This area is designated as a potentially vulnerable area due to the risk of surface water flooding in the Cove Bay and Nigg Bay areas of Aberdeen.

There are 2 target areas in this potentially vulnerable area, which have been the focus of further assessment, these are listed below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Cove Bay Nigg Bay (target area 424) (target area 426)

North East Local Flood Risk Management Plan datasheet						
Target Area name	Target Area name Cove Bay Target Area ID 424					

Summary	Location Map
The area of Cove Bay covers the southern suburb of Aberdeen and is within the Aberdeen City Council area. The main source of flooding is surface water. There are approximately 260 people and 150 homes and businesses currently at risk of flooding. This is likely to increase to 340 people and 190 homes and businesses by the 2080s due to climate change.	Crown copyright and database rights 2022. All rights reserved. Ordnance Survey Licence number 01000020767

This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

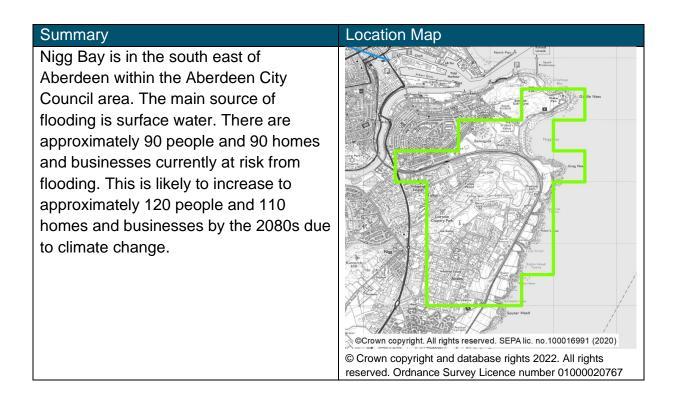
Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources. This national level assessment has highlighted the risk of flooding, (principally associated with surface water) in this target area. Cove Bay has therefore been identified as a new target area for the 2021 flood risk management plans. The national level assessment is improving for surface water by the development of a surface water management plan for Torry and Cove. This incorporates the results of the integrated catchment study and sewer flood risk assessment. There are limited records of flooding in the Cove Bay target area.

Objective	ID	Description
Avoid flood risk	4241	Avoid inappropriate development that
		increases flood risk in Cove
Prepare for flooding	4242	Prepare for current flood risk and future
		flooding as a result of climate change in Cove
Reduce flood risk	4243	Reduce the risk of surface water flooding in
		Cove

Target Area	Cove Bay		Action ID	42401
Action Type	Sewer flood risk ass	sessment		
Delivery Lead	Scottish Water Indicative Delivery 2023-2025			
Description	Scottish Water will u	undertake	a modelling	
	assessment in the N	ligg sewe	r catchment to	o improve knowledge
	and understanding	of flood ris	k in this area	as required under
	Section 16 of the Flood Risk Management (Scotland) Act 2009			
Funding	Funding for this action is secured within Scottish Water's			
	business plan			
Coordination	Outputs of this modelling assessment will be shared with local			
	authorities and SEP	PA		

Target Area	Cove Bay		Action ID	42402	
Action Type	Surface water management plan				
Delivery Lead	Aberdeen City Council in coordination with Scottish Water.	Indica	tive Delivery	Ongoing	
Description	Aberdeen City Council should finalise and implement the Torry and Cove Surface Water Management Plan. A surface water management plan should focus on areas at high risk of surface water flooding. This should incorporate the results of the integrated catchment study and sewer flood risk assessment. The impacts of climate change on flood risk should be considered. Opportunities to disconnect surface water drainage from the sewerage system should be identified.				
Funding	Progress on this action will be dependent on securing funding from all relevant agencies to carry out and support this work.				
Coordination	The action delivery lead is Aberdeen City Council in coordination with Scottish Water.				

North East Local Flood Risk Management Plan datasheet				
Target Area name	Nigg Bay	Target Area ID	426	



This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources, and this national assessment has highlighted the risk of flooding, (principally associated with surface water) in this target area. Nigg Bay has therefore been identified as a new target area for the 2021 flood risk management plans. The national level assessment is improving for surface water by the development of a surface water management plan for Torry and Cove, which includes Nigg Bay. This incorporates the results of the integrated catchment study and sewer flood risk assessment. There are limited records of flooding in the Nigg Bay target area.

Objective	ID	Description
Avoid flood risk	4261	Avoid inappropriate development that
		increases flood risk in the Nigg Bay area of
		Aberdeen
Reduce flood risk	4262	Reduce the risk of surface water flooding in
		Nigg

Target Area	Nigg Bay		Action ID	42601
Action Type	Sewer flood risk ass	sessment		
Delivery Lead	Scottish Water	Scottish Water Indicative Delivery 2023-2025		
Description	Scottish Water will undertake a modelling assessment in the Nigg sewer catchment to improve knowledge and understanding of flood risk in this area as required under Section 16 of the Flood Risk Management (Scotland) Act 2009			as required under
Funding	Funding for this action is secured within Scottish Water's business plan			
Coordination	Outputs of this modelling assessment will be shared with local authorities and SEPA			

Target Area	Nigg Bay		Action ID	42602
Action Type	Surface water management plan			
Delivery Lead	Aberdeen City	Indica	tive Delivery	Ongoing
	Council in			
	coordination with			
	Scottish Water.			
Description	Aberdeen City Council should finalise and implement the Torry			
	and Cove Surface Water Management Plan, which covers Nigg			
	Bay. A surface water management plan should focus on areas at			
	high risk of surface water flooding. This should incorporate the			
	outputs of the integrated catchment study and sewer flood risk			
	assessment. The impacts of climate change on future flood risk			
	should be considered. Opportunities to disconnect surface water			
	drainage from the sewerage system should be identified.			
Funding	Progress on this action will be dependent on securing funding			
	from all relevant age	encies to c	carry out and	support this work.

Coordination	The action delivery lead is Aberdeen City Council in coordination
	with Scottish Water.

02/06/26 (Cruden Bay)

Cruden Bay is designated as a potentially vulnerable area due to river flooding. There is a history of flooding, with recent flooding due to river flooding.

There is 1 target area in this potentially vulnerable area, which has been the focus of further assessment, this is identified below. Further information on the objectives and actions to manage flood risk within this area is provided below.

List of target areas

Cruden Bay

(target area 447)

North East Local Flood Risk Management Plan datasheet				
Target Area nameCruden BayTarget Area ID447				

Summary	Location Map
Cruden Bay is located approximately	Ardmachron
40km north of Aberdeen on the east	Crighead Grott
coast of Scotland and within the	
Aberdeenshire Council area. The main	Charles Charle
source of flooding in Cruden Bay is river	Nethermill Detroit
flooding. There are approximately 100	Viterside Cruden
people and 50 homes and businesses	-Venter of Cruster
currently at risk from flooding. This is	Militown State Carter Control States Carter
estimated to increase a little to 60 homes	Frei School Honge
and businesses by the 2080s due to	Parionage Farm
climate change.	A Gordon Bay Gord Cab Whiting Crait Surling Craig
	Ardendraught St. Ohreet
	a Have Ja Bay of Cruden
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This section provides a summary of information, which has helped to develop an understanding of flood risk in the area.

Since 2011 SEPA has developed and updated national level assessments of flooding from rivers, surface water and coastal sources, and this national assessment has highlighted the risk of flooding from the Slains Burn (Back Burn) and the Water of Cruden. Cruden Bay has therefore been identified as a new target area for the 2021 flood risk management plans. There are limited records of flooding in Cruden Bay.

Objective	ID	Description
Avoid flood risk	4471	Avoid inappropriate development that
		increases flood risk in Cruden Bay
Improve data and	4472	Improve data and understanding of the risk of
understanding		flooding from the Water of Cruden in Cruden
		Вау
Prepare for flooding	4473	Prepare for current flood risk and future
		flooding as a result of climate change in
		Cruden Bay

Target Area	Cruden Bay		Action ID	44701
Action Type	Data collection			
Delivery Lead	Aberdeenshire	Indica	tive Delivery	2023-24
	Council			
Description	This may include data collection and monitoring to improve the confidence in flood sources, mechanisms and risk for the Water of Cruden. A review may be required to assess the need for rain and/or river gauges. Post flood event surveys may be required to collect data on flooding mechanisms, risk and damage caused.			
Funding	Aberdeenshire Council Revenue			
Coordination	The action delivery lead is Aberdeenshire Council and			
	coordination will be determined once the actions have been			
	finalised.			

Target Area	Cruden Bay		Action ID	44702
Action Type	Sewer flood risk ass	sessment		
Delivery Lead	Scottish Water	Indica	tive Delivery	2024-2026
Description	Scottish Water will u	undertake	a modelling	
	assessment in the F	Peterhead	sewer catchn	nent to improve
	knowledge and understanding of flood risk in this area as			
	required under Section 16 of the Flood Risk Management			
	(Scotland) Act 2009			
Funding	Funding for this action is secured within Scottish Water's			
	business plan			
Coordination	Outputs of this modelling assessment will be shared with local			
	authorities and SEPA			

Target Area	Cruden Bay		Action ID	44703
Action Type	Flood warning main	Flood warning maintenance		
Delivery Lead	SEPA	Indica	tive Delivery	Ongoing
Description	SEPA should maint	SEPA should maintain the Aberdeenshire and Angus coastal		
	flood warning scheme.			
Funding	SEPA's role in this action is funded by Scottish Government			
	through SEPA's grant in aid settlement.			
Coordination	SEPA will work with the local authorities on the potential to use			
	information from the flood schemes and studies along the north			
	east coast to inform ongoing flood warning. SEPA will continue to			
	raise awareness of flood warning and engage with communities			
	about the service when required.			

Next Steps and Monitoring Progress

This Plan will run for six years from 2022. Over this period, the North East partnership will meet from time to time to monitor progress on implementing the actions detailed in Section two of the Plan.

Each partner organisation will receive reports through its governance processes and actions arising will be considered by the Steering Group.

Between years two and three of the cycle (i.e., before December 2025), Aberdeenshire Council, as lead local authority, will publish a report on the conclusions of a review of the Plan, including information on the progress that has been made towards delivering the actions identified in the Plan.

Between years five and six of the cycle (i.e., before June 2028), Aberdeenshire Council as lead local authority will publish a report on the Plan containing an assessment of the progress made towards delivering the "current actions", a summary of the actions not implemented, with reasons why, and a description of any other actions undertaken since the plan was finalised, which the lead local authority considers have contributed to the achievement of the objectives in the Plan.

Aberdeenshire Council will make these reports available for public inspection.

Land Use Planning

Flood risk management actions from national planning policies

AVOID DEVELOPMENT IN MEDIUM TO HIGH RISK AREAS

a) **Planning authorities** work in partnership undertaking catchment-wide Strategic Flood Risk Assessments to inform their development plan allocations in line with SEPA's guidance and Land Use Vulnerability.

b) **Planning authorities and SEPA** require the submission of flood risk assessments that accord with SEPA's Technical Flood Risk Guidance for Stakeholders, to support planning applications where there is a potential flood risk. The flood risk assessment should be used to demonstrate as far as possible that the development will be safe for its lifetime, without increasing flood risk elsewhere and, where possible, takes opportunities to reduce flood risk overall.

c) **SEPA** ensures that its flood risk advice to planning authorities is clear and appropriate. SEPA, in consultation with planning authorities, undertakes an annual assessment of planning advice and its contribution to flood risk.

d) **SEPA and planning authorities** engage at an early stage of the development plan process to agree appropriate forms of development to help inform the preparation and implementation of Strategic Flood Risk Assessments.

REDUCE IMPACTS TO EXISTING BUILDINGS

SEPA, planning authorities and local communities are required to engage at an early stage of the development plan process to agree the best long-term land uses for areas where relocation, abandonment and/or change of use have been identified to deliver sustainable flood risk management. Where possible, new land uses should aim to achieve multiple benefits for local communities such as the creation of blue / green infrastructure and increased resilience to climate change.

PROTECT AND ENHANCE NATURAL FEATURES THAT HAVE A POSITIVE IMPACT ON REDUCING OVERALL FLOOD RISK

SEPA and planning authorities are required to engage early in the development plan process to identify opportunities for the restoration and protection of natural features which help manage flood risk. Opportunities should be maximised to achieve multiple benefits such as the development of green / blue infrastructure and improved place making. Areas of land that may contribute to flood management should be identified and protected.

NEW DEVELOPMENTS ARE DESIGNED TO ENSURE THAT SURFACE WATER DRAINAGE DOES NOT INCREASE FLOOD RISK ON OR OFF SITE

a) **SEPA** prepares guidance for planning authorities and developers on the use of surface water hazard maps for land use planning purposes.

b) **Planning authorities** support the implementation of Surface Water Management Plans, developed by the local authorities, through development plan allocations and policies. Surface Water Management Plans should take account of development opportunities that could contribute to the reduction of surface water flood risk.

c) **SEPA** engages at an early stage of the development plan process to progress exemplar projects that demonstrate the potential for land use planning to mitigate surface water flooding and contribute to wider environmental benefits

NEW DEVELOPMENT IS RESILIENT TO PREDICTED FUTURE CHANGES IN CLIMATE

Planning authorities ensure that climate change is considered in Strategic Flood Risk Assessments and Flood Risk Assessments, based upon the best scientific evidence and the information requirements of planners to make informed decisions.

Supporting Information

1. Sources of flooding described in this Plan

This Plan addresses the risk of flooding from rivers, the coast and surface water. The risk of flooding from rivers is usually due to rainfall causing a river to rise above bank level spreading out and inundating adjacent areas.

Coastal flooding is where the risk is from the sea. Sea levels can change in response to tidal cycles or atmospheric conditions. Over the longer-term sea levels and coastal flood risk may change due to climate change.

Surface water flooding happens when rainwater does not drain away through the normal drainage systems or soak into the ground but lies on or flows over the ground instead.

There can be interactions between these sources of flooding, but for the purposes of this Plan they are dealt with independently.

The following aspects of flooding have not been incorporated:

• **Groundwater** is generally a contributing factor to flooding rather than the primary source. It is caused by water rising up from underlying rocks or flowing from springs.

• **Reservoir breaches** have been assessed under separate legislation. Further information and maps can be found on SEPA's website.

• The Act does not include powers for SEPA or responsible authorities to assess or manage **coastal erosion**. Consideration of erosion has identified areas that are likely to be vulnerable to erosion and therefore where erosion can exacerbate flood risk. As part of considering where actions might deliver multiple benefits, SEPA has looked to see where the focus of coastal flood risk management studies coincides with areas of high susceptibility to coastal erosion. Subsequent detailed studies and scheme design will need to consider how coastal flood risk management actions interact with coastal erosion.

Aberdeenshire Council has a policy in relation to erosion whereby it may take action if erosion may place its own assets are at risk.

2. Understanding commonly used terms in flood risk management

Below are explanatory notes for the approach taken in this plan and commonly used terms in flood risk management. A glossary of terms is also available.

• **Reference to flood risk**. During the development of the Plan flood risk has been assessed over a range of likelihoods. For consistency in reporting information within the Plan, unless otherwise stated, all references to properties or other receptors being 'at risk of flooding' refer to a medium likelihood flood (up to a 1 in 200 chance of flooding in any given year). By exception, references will be made to high or low risk flooding, which should be taken to mean a 1 in 10 chance/likelihood and 1 in 1000 chance/likelihood of flooding in any given year respectively.

Likelihood of flooding	Return Period		
High	10 year		
Medium	200 year		
Low	1000 year		

• **Annual Average Damages** have been used to assess the potential economic impact of flooding within an area. Depending on its size or severity each flood will cause a different amount of damage to a given area.

Annual Average Damages are the theoretical average economic damages caused by flooding when considered over a very long period of time. It does not mean that damage will occur every year: in many years there will be no damages, in some years minor damages and in a few years major damages may occur.

High likelihood events, which occur more regularly, contribute proportionally more to Annual Average Damages than rarer events.

Within the Flood Risk Management Plans Annual Average Damages incorporate economic damages to the following receptors: residential properties, non-residential properties, vehicles, emergency services, agriculture and roads. They have been calculated based on the principles set out in the Flood Hazard Research Centre Multi-Coloured Handbook (2010).

3. Flood Risk Management Planning Process

Flood risk management in Scotland aims to manage flooding in a sustainable way. Sustainable flood risk management considers where floods are likely to occur in the future and takes action to reduce their impact without moving the problem elsewhere. It considers all sources of flooding, whether from rivers, the sea or from surface water. It delivers actions that will meet the needs of present and future generations whilst also protecting and enhancing the environment. The sustainable approach to managing flood risk works on a six-year planning cycle, progressing through the key stages outlined below.

Identifying priority areas at significant flood risk

The first step to delivering a risk-based, sustainable and plan-led approach to flood risk management was SEPA's **National Flood Risk Assessment**. The assessment considered the likelihood of flooding from rivers, groundwater and the sea, as well as flooding caused when heavy rainfall is unable to enter drainage systems or the river network. The likelihood of flooding was examined alongside the estimated impact on people, the economy, cultural heritage and the environment. It significantly improved our understanding of the causes and consequences of flooding and identified areas most vulnerable to floods.

Based on the National Flood Risk Assessment, SEPA identified areas where flooding was considered to be nationally significant. These areas are based on catchment units as it is within the context of the wider catchment that flooding can be best understood and managed.

These nationally significant catchments are referred to as **Potentially Vulnerable Areas**. In Scotland they are estimated to contain 92% of the total number of properties at risk. A small number of Candidate Potentially Vulnerable Areas were identified after the National Flood Risk Assessment in light of new information that warranted further assessment and appraisal. They are included in the flood risk management planning process. The National Flood Risk Assessment will be updated to inform each subsequent planning cycle.

Improving the understanding of flooding

SEPA develop **flood hazard and flood risk maps** and these maps improved our understanding of flooding and helped inform the subsequent selection of actions to manage flood risk in Potentially Vulnerable Areas.

The flood hazard maps show information such as the extent of flooding, water level, as well as depth and velocity where appropriate. The flood risk maps provide detail on the impacts on people, the economy, cultural heritage and the environment.

SEPA also developed an assessment of the potential for natural flood management. The assessment produced the first national source of information on where natural flood management actions would be most effective within Scotland. Flood hazard and flood risk maps and the assessment of the potential for natural flood management can be viewed on the SEPA website <u>www.sepa.org.uk</u>.

Identifying objectives and selecting actions

The objectives and actions to manage flooding provide the long-term vision and practical steps for delivering flood risk management in Scotland.

Working collaboratively with local partnerships, we have agreed the objectives for addressing the main flooding impacts.

Actions that could deliver these agreed objectives have been appraised for their costs and benefits to ensure the right combinations are identified and prioritised. The actions considered in the development of this Plan include structural actions (such as building floodwalls, restoring flood plains, or clearance and repair works to rivers) and non-structural actions (such as flood warning, land use planning or improving our emergency response). Structural and non-structural actions should be used together to manage flood risk effectively.

An assessment of the potential for natural flood management was used to help identify opportunities for using the land and coast to slow down and store water. Natural flood management actions were recommended in areas where they could contribute to the management of flood risk.

In such instances these actions were put forward as part of flood protection or natural flood management studies.

Acknowledgements

Aberdeenshire Council gratefully acknowledges the cooperation and input that various parties have provided, including inter alia, the following organisations:

SEPA

The North East LPD acknowledge the inclusion of text generated by SEPA in preparation of the Plan.

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Local authorities

Lead authorities acknowledge the provision of flood models and other supporting data and information from local authorities in Scotland and their collaboration in the production of flood risk management information.

Scottish Water

The North East Local Plan District acknowledge the inclusion of surface water flooding data generated by Scottish Water in preparation of flood risk information.