

# Flood Risk Management (Scotland) Act 2009:

## INTERIM REPORT Local Flood Risk Management Plan

### North East Local Plan District



## Published by: Aberdeenshire Council

In conjunction with;



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## 1. Infographics (still to be added)

## 2. Foreword

This INTERIM REPORT to the Local Flood Risk Management Plan shows the progress made in delivering the actions to avoid and reduce the risk of flooding, and prepare and protect ourselves and our communities across the local plan district.

*"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."*

(North East Local Plan District - Local Flood Risk Management Plan, June 2016)

The publication of the INTERIM REPORT shows that the coordinated and collaborative efforts of public bodies can be brought together to deliver sustainable outcomes.

The INTERIM REPORT 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 SEPA and the following Responsible Authorities: Scottish Water; SEPA; Forestry Commission Scotland; and Cairngorms National Park Authority.

Individuals are the first line of defence against flooding and have responsibilities to protect themselves from flooding. Through self-help and property level protection, awareness raising and signing up to Floodline, individuals, businesses and communities can and have made key contributions to the delivery of the actions in the Plan, which are detailed in this INTERIM REPORT.

Since the publication of the Plan in June 2016, public sector finances in Scotland have continued to be under considerable pressure. This places an even greater responsibility on SEPA, local authorities and Scottish Water and other responsible authorities to deliver their flood risk management responsibilities and, in particular the actions in the Plan, to manage flooding in a sustainable way.

SEPA, local authorities and Scottish Water and other responsible authorities will continue to work collaboratively to implement the actions in the Plan to its conclusion in June 2022.

*May be signed by convener or officer as appropriate to LPD governance and preference*

*[compare with how LFRMP was published].*

*May include a Scottish Minister too.*

### 3. Background

The INTERIM REPORT is a legal requirement of the Flood Risk Management (Scotland) Act 2009 (Section 37). The INTERIM REPORT is required to be published between July 2018 and June 2019. The INTERIM REPORT includes the conclusions of a review of the North East Local Plan District - Local Flood Risk Management Plan (the 'Plan'), published in June 2016 and includes information on the progress that has been made towards implementing the actions identified in the Plan.

Further details on flood risk management responsibilities in Scotland and the legal requirement for the publication of this INTERIM REPORT can be found in Appendix 1.

A copy of the North East Local Plan District Local Flood Risk Management Plan can be found at the follow link.

<https://www.aberdeenshire.gov.uk/media/17174/north-east-local-flood-risk-management-plan-2016-2022-web-version.pdf>



## 4. Review of the plan

This section sets out the conclusions of the review of the plan and a summary of progress of actions detailed in North East Local Plan District - Local Flood Risk Management Plan. It draws upon the assessment of progress of actions presented in the subsequent sections.

### 4.1 Key progress in reducing the impacts of flooding since publication

The following key progress has been made on the actions detailed in the NE LPD Flood Risk Management Plan:-

Following a slow start due to large scale flood events in winter 2015-16, steady progress is now being made on the identified actions across the North East Local Plan District.

Overall, 198 actions have a green status, 24 amber and 2 number of actions have a red status. Specifically the following large scale actions have been taken forward:-

1. Aberdeenshire Council has completed a Flood Protection Scheme at Huntly to protect properties from both the River Deveron and Meadow Burn. Work was completed in October 2017.
2. Aberdeenshire Council have now appointed a contractor to begin work on the Stonehaven Flood Protection Scheme. Work is due begin on site in early 2019.
3. Aberdeen City Council has completed two flood studies into the flood risk at Footdee and Inchgarth Road.
4. Aberdeen City Council has made progress creating a flood model for the Paddock and Millside areas of Peterculter.
5. Moray Council has completed a Flood Protection Scheme for Newmill. Work was completed in December 2016 and now operational.
6. Moray Council has competed a flood protection study for Portgordon. The findings of which are to be considered in Cycle 2 NELPD – Flood Risk Management Plan (2022 - 2028).
7. Many Strategic studies are progressing across NE Local Plan District (LPD 6). The main ones cover the following areas:
  - Aberdeen Integrated Catchment Study - lead by Scottish Water
  - Mapping and Modelling of the Upper Don Area from Pitcaple to Kintore – led by SEPA

- Mapping and Modelling of the Aberdeenshire and Angus coastline – to be completed by SEPA in the first half of 2019.
- The requirements for updating the coastal and surface water maps has changed significantly since the Local Flood Risk Management Plan was published in June 2016. In the case of coastal mapping, SEPA is now updating coastal flood maps across the whole of northeast Scotland rather than in a few isolated sections of coast, including the Banff to Lossiemouth coast in this Local Plan District. It is planned that the improvements will be completed for in 2019. For surface water flooding, the underlying design rainfall data used to produce the flood maps has changed as a result of more data being collected and a better understanding of rainfall across Scotland. As such it is no longer considered appropriate to deliver updated flood maps for the relatively small areas identified in the Local flood Risk Management Plan. Instead SEPA will deliver a national update of this product. Due to the increase in scope it is expected that the national updates to the surface water maps will be completed early in the next cycle.

8. A number of flood protection studies and surface water plans are progressing across the NELPD district – more details of these studies are contained within the report.

## 4.2 How current is the Plan?

The Plan was published in June 2016 supplementing the Flood Risk Management Strategy published by SEPA in December 2015. The Plan details how the actions identified in the Strategy were to be implemented over the period 2016 to 2022. The Strategy and Plan are based on the National Flood Risk Assessment and the designated Potentially Vulnerable Areas at that time.

Since the identification of the actions in the Plan, there have and continue to be advancements in our knowledge and development of assessment techniques. These include the publication by SEPA of a new National Flood Risk Assessment and revised designation of Potentially Vulnerable Areas in December 2018. These advancements may inform the delivery of the actions in this Plan and will be used in the development of future Strategies and Plans.

It is therefore considered that the Plan on which this is the INTERIM REPORT is current, albeit the planned delivery and actual delivery of actions has changed for some actions as detailed in the 'Assessment of the progress' section of this INTERIM REPORT.

## 4.3 Significant challenges

Based on a review of the assessment of the progress of actions detailed in this INTERIM REPORT, the following key challenges and issues have been identified that have or may have an impact on the delivery of actions to manage flood risk. Arrangements planned to deliver the remaining actions are described below. Where these challenges have had an impact on the delivery of specific actions or actions across an LPD, this is detailed in the 'Assessment of the progress of actions'.

However, the overall delivery of actions in the Plan has not been impacted by funding but resource issues have arisen for some PVAs.

#### 4.3.1 Significant weather events

The North East Local Plan District was adversely affected by significant weather events in Dec 2015 (Storm Frank) and January 2016, which had knock on impacts on the delivery of actions in the Plan from June 2016 onwards. For example, all Local Authorities and partnering agencies (SEPA) resources were deployed to dealing with the emergency events at that time; as well as the follow up activities and necessary works, which were still being delivered into financial year 2017/18. This has caused consequential delays in the planned delivery of actions, as staff resources that would have been delivering planned actions, have been delivering emergent actions.

Arrangements planned to deliver the remaining actions affected by significant weather events are described below and detailed in the 'Assessment of the progress' section of this INTERIM REPORT.

#### 4.3.2 Funding

'The lists of prioritised actions in the Plan to meet agreed goals and objectives in the first six-year cycle considered what would be achievable assuming a similar level of funding for flood risk management activities from The Scottish Government. However, given the timing of spending reviews and annualised financial settlements for local government, the actual ability to deliver all the actions set in the Strategies in December 2015 and detailed in this Plan will be dependent on the availability of the necessary funding in each year of the six year Plan', (North East Local plan District - Local Flood Risk Management Plan, June 2016).

The level of funding from Scottish Government for flood risk activities for the first three years of the six year Plan has been at the levels anticipated. As per the principals of financial settlements for local government, the funding is not 'ring fenced' and local authorities may have allocated these funds to the delivery of other priorities. Further information on this matter can be provided by individual authorities.

### 4.3.3 Allocation of Resources

The delivery of flood risk management actions must be seen in the context of challenging local government finances and increased expectation and demand for public services. This applies to all of the responsible authorities and SEPA.

The availability and retention of skilled staff to deliver flood risk actions has been a limiting factor in some areas. This has caused consequential delays in the planned delivery of actions.

Arrangements planned to deliver the remaining actions affected by allocation of resource issues are described below and detailed in the 'Assessment of the progress' section of this INTERIM REPORT.

## 4.4 Prioritisation of actions for next plan cycle

Many actions contained in the plan are to undertake studies that will assess the need for further actions to be implemented in future plans. For example, a flood protection study may recommend that a community flood action group is set up to increase resilience to flooding, or that flood defences are constructed. This introduces a deadline date by when such actions need to be detailed and submitted by responsible authorities, for consideration as actions; in the next plans from 2022-28. The deadline date for submission of these actions to SEPA has been set as December 2019. The actions submitted will then be assessed and prioritised against the flood risk objectives, and consulted upon ahead of the publication of the next cycle of Flood Risk Management Strategies in December 2021 and Local Flood Risk Management Plans in June 2022. Any actions that miss this deadline may therefore be delayed for consideration in the next cycle from 2028-34.

## 4.5 Arrangements planned to deliver the remaining actions

In general all actions in the Plan will continue to be delivered over the remainder of the 2016 to 2022 period. This will be as per the published Plan, subject to revisions in delivery dates as detailed in the 'Assessment of the progress' section of this INTERIM REPORT.

In general, all of the actions in the Plan will be delivered by June 2022, however where specific measures are required to address a delay and ensure an action is completed then this is described against the relevant action. In addition, where there is a risk that remaining actions will not be delivered by the end of the Plan, contingencies have been considered, which are described against the relevant action

## 5. Next steps

A Final Report on the plan will be published in between July 2021 and June 2022. This will include:-

- an updated assessment of the progress made towards implementing the current actions;
- a summary of the current measures which were not implemented, with reasons for their non-implementation, and;
- a description of any other measures implemented since the plan was finalised which the lead authority considers have contributed to the achievement of the flood risk objectives.

In the meantime, to find out more about how flood risk is being managed please refer to your Local Authority website :-

<https://www.aberdeenshire.gov.uk/environment/flooding/>

<https://www.aberdeencity.gov.uk/services/environment/information-about-flooding>

<http://www.moray.gov.uk/flooding>

## 6. Conclusions

Since the publication of the North East Local Plan District – Local Flood Risk Management Plan in June 2016, good progress has been made over the initial three years of the first cycle. This has clearly highlighted the benefits that can be achieved by partnership working in flood risk management.

Flood studies have generally progressed as programmed, and surface water studies have commenced in some areas utilising detailed hydraulic modelling outputs from Scottish Water to increase certainty in the predictions of surface water flooding. Detailed consideration of flood sources and pathways has allowed an improved understanding of the impacts of flooding, enabling improved prioritisation of measures.

The requirement for sustainable flood measures to be prioritised will drive environmental improvements in conjunction with flood protection, achieving enhancements to communities across the North East district.

Please note that the responsible authorities involved in delivering the actions for the North East Local Plan District may also be involved in delivering actions in other local plan districts.

## 7. Assessment of progress

This section sets out an assessment of the progress towards implementing the actions set out in the North East Local Plan District – Local Flood Risk Management Plan.

There are actions that apply across the whole of the NELPD and actions that are specific to each of the 23 Potentially Vulnerable Areas (as defined under Section 13 of the Act) in the NE LPD, which are shown below in Figure 1.



The actions that apply to individual PVA across the NE LPD are shown overleaf in Figure 2. The summary of the assessment of progress is shown using the traffic light system, where each item is marked as Red, Amber or Green (RAG) and where:

- **GREEN** – Action has been delivered is on programme and within budget;
- **AMBER** – Action is behind programme and/or over budget, but the key dates are still anticipated to be met.
- **RED** – Action is behind programme and/or over budget, with key dates unlikely to be met and/or the outputs unlikely to achieve what was anticipated by the LFRMP.



PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/01 Portgordon				G		G	A		G	G			A	G	G		G	G
06/02 Portsoy							G			G			G	G	G		G	G
06/03 Banff							A		G	G			G	G	G		G	G
06/04 Macduff							A		G	G			G	G	G		G	G
06/05 Fraserburgh and Rosehearty						A	R		G	G			G	G	G		G	G
06/06 Newmill	G					G	G	G	G	G		G	A	G	G		G	G
06/07 Turriff							G		G	G			G	G	G		G	G
06/08 Peterhead			G			A	G			G			G	G	G		G	G
06/09 Methlick										G			G	G	G		G	G
06/10 Huntly	G					A	G	G	G	G			G	G	G		G	G
06/11 Insch				G			R			G			G	G	G		G	G
06/12 Ellon				G			G			G			G	G	G		G	G
06/13 Inverurie and Kintore				G		A	A		G	G			G	G	G		G	G
06/14 Heugh-head										G			G	G	G	A	G	G
06/15 Bridge of Don			G	A		A	A		G	G	G		G	G	G		G	G
06/16 Denmore				G		A	G	G		G	G		G	G	G		G	G
06/17 Westhill						A	G			G			G	G	G		G	G
06/18 Deeside			G	A		A	G	G	G	G	G	A	G	G	G		G	G
06/19 Peterculter	A				G	A	G			G	G		G	G	G		G	G
06/20 Aboyne						A	G		G	G			G	G	G		G	G
06/21 Banchory and Torphins							G		G	G			G	G	G		G	G
06/22 Ballater				G			G		G	G		G	G	G	G		G	G
06/23 Stonehaven	A		G	G		A	G	G	G	G		G	G	G	G		G	G

Figure 2: Summary of progress of actions to manage flood risk in the Potentially Vulnerable Areas of the North East Local Plan District

## 7.1 Progress with LPD-wide Actions

This section sets out an assessment of the progress towards implementing general actions that apply across the whole of the North East LPD over all years of the six-year Plan, which is presented in Figure 3 overleaf.

Action	Status	Description	Delivery Lead	Interim progress	Planned actions to complete
<b>Flood forecasting</b>	<b>G</b>	Actions taken by SEPA in conjunction with other agencies to provide predictive flood information which enables people to take action to reduce the impact of flooding on their property.	SEPA	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.
<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their property from flooding. Property and business owners can take simple steps to reduce damage and	ALL	Numerous actions have been undertaken by Responsible Authorities to raise awareness and educate about Self Help actions. Further details on specific PVA related events can be found in	Local authorities, SEPA, Scottish water and other organisations will provide support to communities on request

		disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities Initiatives, and ensuring that properties and businesses are insured against flood damage.		the PVA update sheet.	
<b>Awareness raising</b>	<b>G</b>	Actions taken by SEPA and Local Authorities in NE LPD to raise awareness of flood risk.	ALL	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

				<p>(e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.</p> <p>Local authorities have undertaken activities to raise awareness and have held public exhibitions/consultations where studies or works are planned.</p>	
<b>Maintenance</b>	<b>G</b>	Actions taken by Local Authorities and Scottish Water to undertake clearance and repair in relation to waterbodies and maintenance of other water related assets.	LA and Scottish Water	<p>Local Authorities have inspected waterbodies and identify clearance and repair works to reduce flood risk.</p> <p>Local Authorities inspect flood protection schemes and provide maintenance works where deemed necessary.</p> <p>Scottish Water continue to undertake risk based inspections, maintenance and repair on the public sewer network.</p>	Current actions to continue.
<b>Emergency plans/response</b>	<b>G</b>	Actions taken by Local Authorities and SEPA to provide an emergency response to flooding.	LA, Scottish Water and SEPA (Category 1 and 2)	The Responsible Authorities under the Civil Contingencies Act 2004 have acted in response to weather warnings received and use best available information	Current actions to continue.

			Responders)	<p>from a number of sources to co-ordinate regional and local actions.</p> <p>Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies</p>	
<b>Planning Policy</b>	<b>G</b>	<p>Actions by SEPA and the Local Authorities to ensure that Flood Risk information is considered in Development Plans and Local Development decisions.</p>	SEPA and LA	<p>SEPA exercises its planning functions with a view to reducing overall flood risk. We effectively contribute to the delivery of sustainable flood risk management and we support the delivery of FRM Strategies and local FRM Plans. In line with the management actions that accord with national planning policies we will object to development at medium to high risk of flooding when it is contrary to the risk framework set out in Scottish Planning Policy. We will also continue to engage at the offset of the development plan process and encourage planning authorities to undertake a Strategic Flood Risk Assessment to inform their spatial strategy.</p> <p>Local Authorities, as Planning Authority, ensure that any new developments satisfy relevant guidance and policies on flooding and drainage.</p>	<p>Current actions to continue and be further developed, to prioritise sustainable flood risk management within the Local Development Plans and local development control decisions. Further discussion/engagement required with Planning colleagues.</p>

Figure 3: Progress with LPD-wide Actions for the North East Local Plan District

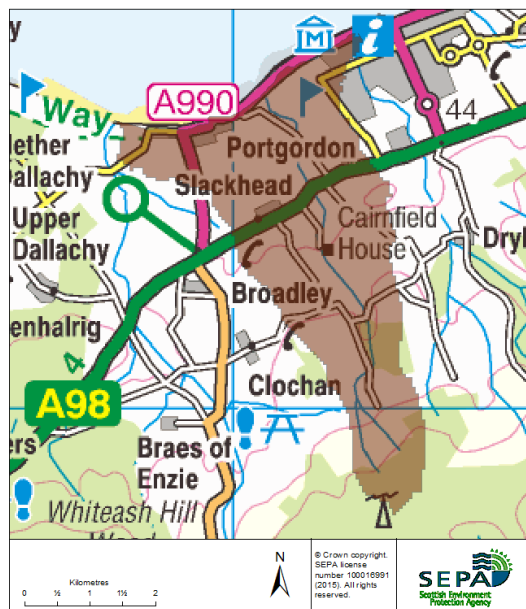
## 7.2 Progress with PVA-specific Actions

This section sets out an assessment of the progress towards implementing actions that are specific to each of the 23 no. PVA as shown in Figure 2. Assessments of the progress of actions within each PVA are presented.

In general - there are no specific actions identified for 'property level protection scheme' and 'site protection plans' actions. Consideration of property level protection schemes will be included in the 'flood protection study', 'surface water plan/study' and/or 'emergency plans/response' actions. Site protection plans will be identified through these same 'study' actions and also 'planning policies' action.

## Portgordon (Potentially Vulnerable Area 06/01)

Local Plan District	Local authority	Main catchment
North East	Moray Council	Banff Coast



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### Summary of Progress for Portgordon

There are fewer than 10 residential and non-residential properties at risk of flooding in this PVA. The Annual Average Damages are approximately £8,500. The majority of these damages are attributed to surface water flooding, however, it is recognised that wave overtopping causes flooding to a number of properties in Portgordon and Buckie.

Since the NELFRMP was published in May 2016, a flood protection study has been undertaken for Portgordon. The findings of this study will be taken forward for consideration in the NELFRMP for Cycle 2. A high level Surface Water Management Plan has been undertaken for Moray, in which Buckie is a priority area. Any actions to mitigate flooding identified in this Plan will be taken forward for consideration in Cycle 2.



## Overview of actions to manage flooding in Portgordon

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/01				G		G	A		G	G			A	G	G		G	G

## Summary of progress of actions to manage flood risk in Portgordon (PVA 06/01)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Progress in Delivery, including key deliverables and dates	Revised dates and planned actions to complete / address delay
<b>Flood protection study</b>	<b>G</b>	Flood study for Portgordon to investigate coastal flooding, including wave action.	Moray Council	2019	The flood study for Portgordon is complete.	No further action required.
<b>Surface water plan/study</b>	<b>G</b>	Surface Water Management Plan for the Portgordon/Buckie area will be developed by Moray Council.	Moray Council	2019	A high level Surface Water Management Plan was completed in 2017.	Additional investigation will be undertaken in identified hotspots.
<b>Strategic mapping and modelling</b>	<b>A</b>	SEPA will be seeking to develop the flood hazard mapping in the Banff to Lossiemouth area to improve understanding of the coastal flood risk.	SEPA	2018	Following the establishment of a coastal flood hazard map development framework and characterisation of the coastline, several projects are currently underway at this	It is intended to complete this action in 2019.

					<p>location:</p> <ul style="list-style-type: none"> <li>• Development of a national coastal joint probability dataset;</li> <li>• Update to the UK design extreme sea level dataset;</li> <li>• Coastal modelling and mapping project for north-east Scotland.</li> </ul> <p>These projects will collectively enable the revision of flood mapping for the coastline from Scrabster to Arbroath including the Orkney Islands.</p>	
<b>Strategic mapping and modelling</b>	<b>G</b>	Scottish Water will undertake modelling of the Buckie sewer catchment.	Scottish Water	2019	The Scottish Water assessment of flood risk within the sewer catchment has been completed. The assessment helps to improve knowledge and understanding of surface water flood risk	Not Applicable.
<b>Maintain flood warning</b>	<b>G</b>	SEPA will Continue to maintain the 'Portgordon to Cullen' flood warning area which is part of the Moray Firth coastal flood warning scheme	SEPA	Ongoing	SEPA has continued to operate the flood warning service	SEPA will continue to operate the flood warning service.
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance	SEPA	Ongoing	SEPA continues to provide flood forecasting.	

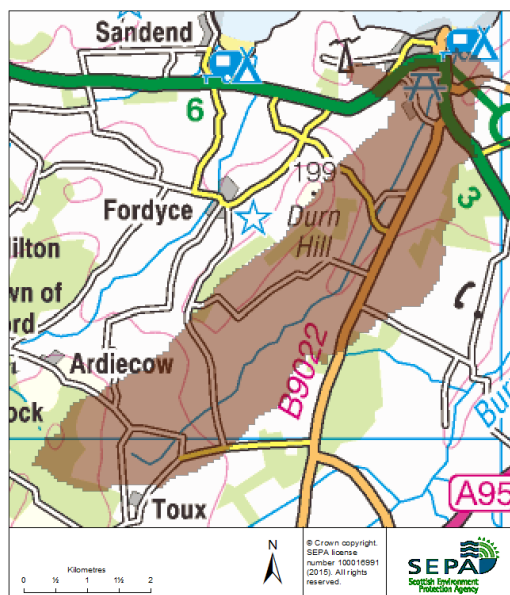
		statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.				
<b>Self help</b>	<b>A</b>	Everyone is responsible for protecting themselves and their property from flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.	Property owners	Ongoing	SEPA continues to assist members of the public to sign up to Floodline.  Moray Council has not received any requests for assistance from property owners in this area.	
<b>Awareness raising</b>	<b>G</b>	Moray Council will seek opportunities to raise awareness of flood risk and actions that prepare individuals, homes and businesses as described in the Act.	Responsible Authorities	Ongoing	SEPA's principle awareness raising approaches have been through: 1. Direct campaigning and general awareness raising. 2. Education and tools. 3. Partnership delivery development.  Moray Council has consulted with the public in relation to the Portgordon Flood Protection Study.	SEPA will continue to raise awareness of flood risk through direct campaigning, general awareness raising, developing education and engagement tools, creating new partnerships and improving its flood forecasting and warning services (e.g. Scottish Flood Forecasting Service and Floodline). This will continue with many of the actions reported for the interim progress summary.

						<p>Further information is contained within SEPA's Flood Warning Development Framework, published in 2017 and for the period 2017 to 2021.</p> <p>Raising Awareness will form part of each of the 3 key themes identified:</p> <ul style="list-style-type: none"> <li>• Aim 1: Maintenance of existing and delivery of new flood warning schemes.</li> <li>• Aim 2: Development and innovation.</li> <li>• Aim 3: Engagement with partners and customers.</li> </ul> <p>Moray Council will undertake additional awareness raising activities as and when required.</p>
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Moray Council has a schedule of clearance and repair, which identifies routine maintenance and repairs to address areas known to be at risk of flooding.	Moray Council, asset / land managers	Ongoing	Moray Council inspects flood management assets within its region according to an inspection schedule. This schedule is reviewed annually to ensure resources are targeted at the areas at greatest risk.	Moray Council will continue with its programme of clearance and repair work, which is reviewed annually.
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the responsibility of many organisations, including local	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.	Moray Council's emergency plan is reviewed and updated when required.

		authorities, the emergency services and SEPA.			Moray Council Emergency Planners have in place and maintain Emergency Plans for all contingencies	
<b>Planning Policy</b>	<b>G</b>	Scottish Planning Policy and accompanying Planning Advice Notes set out Scottish Ministers' priorities for the operation of the planning system and for the development and use of land in terms of flood risk management.	Planning Authority	Ongoing	Moray Council, as a Planning Authority, ensures that new developments satisfy relevant guidance and policies on flooding and drainage.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2020 Local Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

## Portsoy (Potentially Vulnerable Area 06/02)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	Banff coastal



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## Summary of Progress for Portsoy

This Potentially Vulnerable Area includes the south east of Portsoy and rural areas along the Burn of Durn to the south west. It is approximately 17km<sup>2</sup>.

The Burn of Durn and Soy Burn flow through the area.

There are approximately 10 residential and fewer than 10 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £53,000 with the majority of these from river flooding.

Further information can be found in NELFRMP under PVA 06/02.

[https://www.aberdeenshire.gov.uk/media/17346/pva-06\\_02-portsoy.pdf](https://www.aberdeenshire.gov.uk/media/17346/pva-06_02-portsoy.pdf)

Since the NE LFRMP was published in May 2016, there has been a significant flood event in Portsoy on 7<sup>th</sup> June 2017. This predominately effected properties in Soy Avenue and downstream of the Loch of Soy. There was also flooding from the Burn of Durn at the cemetery and the Old Sail Loft which attracted media attention. As such, Aberdeenshire Council have carried out upstream flood protection works on the Soy Burn, at the old railway embankment (next to A98 Kirk Wood) and improved Loch of Soy maintenance procedures. As discussed, at Portsoy Community Council meeting on 6<sup>th</sup> September 2017.

## Overview of actions to manage flooding in Portsoy

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/02							G			G			G	G	G		G	G

## Summary of progress of actions to manage flood risk in Portsoy (PVA 06/02)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
<b>Strategic mapping and modelling</b>	<b>G</b>	Scottish Water will undertake further investigation and modelling in the Portsoy sewer catchment to improve knowledge and understanding of flood risk in this area.	Scottish Water	01/01/2016 - 31/12/2019	S16 Assessment - Action Complete	Action Complete
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to

		are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.			1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.
<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	



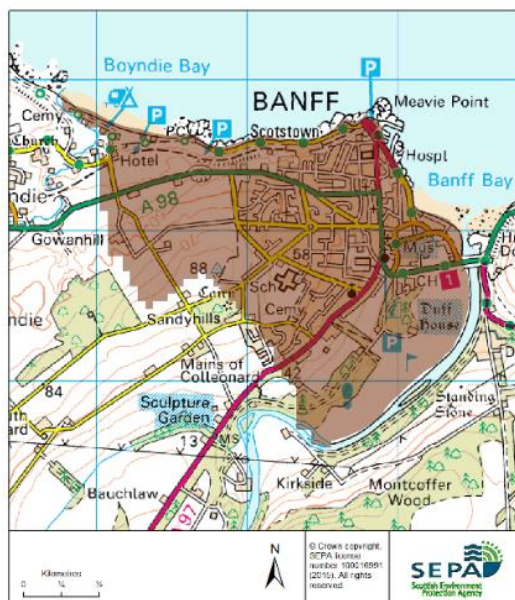
		businesses are insured against flood damage.				
<b>Awareness raising</b>	<b>G</b>	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch	SEPA will raise awareness of the coastal flood warning scheme through various channels, including social media. This will be done particularly when coastal flooding is forecast.

					Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.	
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.  Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.

<b>Planning Policy</b>	<b>G</b>	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.
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## Banff (Potentially Vulnerable Area 06/03)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	Banff coastal



### Summary of Progress for Banff

This Potentially Vulnerable Area covers the town of Banff. The area is on the west bank of the River Deveron and extends to the Burn of Boyndie. It is approximately 3km<sup>2</sup>.

The A97 and A98 pass through the area and the River Deveron is the main river.

There are approximately 40 residential and 30 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £50,000 with the majority due to river flooding.

Further information can be found in NELFRMP under PVA 06/03.

[https://www.aberdeenshire.gov.uk/media/17351/pva-06\\_03-banff.pdf](https://www.aberdeenshire.gov.uk/media/17351/pva-06_03-banff.pdf)

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Banff area.

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## Overview of actions to manage flooding in Banff

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/03							A		G	G			G	G	G		G	G

## Summary of progress of actions to manage flood risk in Banff (PVA 06/03)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim Progress	Planned actions to complete
<b>Strategic mapping and modelling-Coastal</b>	A	SEPA will be seeking to develop the flood hazard mapping in the Banff area to improve understanding of the coastal flood risk. The extent and timing of the completed improvements will be dependent on detailed scoping and data availability	SEPA	2016 - 2018	<p>Following the establishment of a coastal flood hazard map development framework and characterisation of the coastline, several projects are currently underway at this location:</p> <ul style="list-style-type: none"> <li>• Development of a national coastal joint probability dataset;</li> <li>• Update to the UK design extreme sea level dataset;</li> </ul>	It is planned to complete this action in 2019.

					<ul style="list-style-type: none"> <li>Coastal modelling and mapping project for north-east Scotland.</li> </ul> <p>These projects will collectively enable the revision of flood mapping for the coastline from Scrabster to Arbroath including the Orkney Islands.</p>	
<b>Strategic mapping and modelling – Deveron</b>	<b>G</b>	SEPA will review modelling of the road embankment in Banff.	SEPA	2016 - 2018	Following a screening exercise to characterise the catchment, a project to review the representation of river flood hazard for Banff has been undertaken. Whilst an improved understanding of the River Deveron through the town was achieved, no changes to the existing flood mapping were deemed necessary.	Action Complete, no further action required.
<b>Strategic mapping and modelling – Sewer</b>	<b>A</b>	Scottish Water will undertake modelling of the Macduff sewer catchment.	Scottish Water	01/01/2016 - 31/12/2018	Delayed	Assessment will not deliver within LFRMP timescales but is still on track to deliver within FRM Cycle 1
<b>Maintain flood warning</b>	<b>G</b>	SEPA will continue to maintain both the 'Banff' flood warning area which is part of the Deveron river flood warning scheme and the Portsoy to Macduff' flood warning area which is part of the Moray Firth	SEPA	Ongoing	SEPA continues to maintain both the 'Banff' flood warning area which is part of the Deveron river flood warning scheme and the Portsoy to Macduff' flood warning area which is part of the Moray	SEPA will continue to operate the flood warning service

		coastal flood warning scheme			Firth coastal flood warning scheme	
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.
<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of	

		a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.			flooding.	
<b>Awareness raising</b>	<b>G</b>	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take. SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

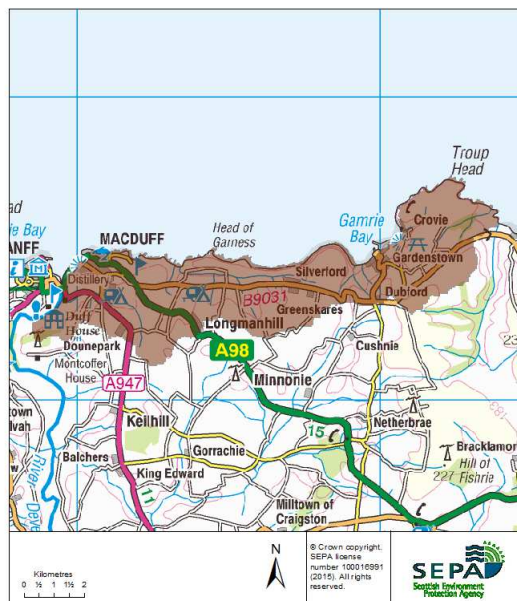


					within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.	
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.

		available for public inspection.				
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.  Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.
<b>Planning Policy</b>	<b>G</b>	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

## Macduff (Potentially Vulnerable Area 06/04)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	Banff coastal



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### Summary of Progress for Macduff

This Potentially Vulnerable Area is located in the Moray Firth to the east of Banff. It is approximately 36km<sup>2</sup> and extends from the River Deveron at Banff Bay to the Tore Burn east of Troup Head.

The A98 passes through the area.

The River Deveron is the main river in this area with smaller burns draining northwards into the Moray Firth.

There are approximately 40 residential and 20 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £240,000 with the majority from river flooding. It is recognised however that wave overtopping contributes to coastal flooding which is not fully represented in this analysis.

Further information can be found in NELFRMP under PVA 06/04.

[https://www.aberdeenshire.gov.uk/media/17344/pva-06\\_04-macduff.pdf](https://www.aberdeenshire.gov.uk/media/17344/pva-06_04-macduff.pdf)

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Macduff area.

## Overview of actions to manage flooding in Macduff

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/04							A		G	G			G	G	G		G	G

## Summary of progress of actions to manage flood risk in Macduff (PVA 06/04)

Action	Status	Description	Delivery Lead	Planned Date	Interim progress	Planned actions to complete
<b>Strategic mapping and modelling – Coastal</b>	<b>A</b>	SEPA will be seeking to develop the flood hazard mapping in the Banff area to improve understanding of the coastal flood risk. The extent and timing of the completed improvements will be dependent on detailed scoping and data availability.	SEPA	2017 - 2018	<p>Following the establishment of a coastal flood hazard map development framework and characterisation of the coastline, several projects are currently underway at this location:</p> <ul style="list-style-type: none"> <li>• Development of a national coastal joint probability dataset;</li> <li>• Update to the UK design extreme sea level dataset;</li> <li>• Coastal modelling and mapping project for north-</li> </ul>	It is intended to complete this action in 2019.

					east Scotland.  These projects will collectively enable the revision of flood mapping for the coastline from Scrabster to Arbroath including the Orkney Islands."	
<b>Strategic mapping and modelling – Sewer</b>	<b>A</b>	Scottish Water will undertake modelling of the Macduff sewer catchment.	Scottish Water	01/01/2016 - 31/12/2018	Delayed	Assessment will not deliver within LFRMP timescales but is still on track to deliver within FRM Cycle 1
<b>Maintain flood warning</b>	<b>G</b>	SEPA will continue to maintain the 'Banff' flood warning area which is part of the Deveron river flood warning scheme. They will also continue to maintain the 'Gardenstown to Pennan' and 'Portsoy to Macduff' flood warning areas which are part of the Moray Firth coastal flood warning scheme.	SEPA	Ongoing	SEPA continues to maintain the 'Banff' flood warning area which is part of the Deveron river flood warning scheme. SEPA also continue to maintain the 'Gardenstown to Pennan' and 'Portsoy to Macduff' flood warning areas which are part of the Moray Firth coastal flood warning scheme.	SEPA will continue to operate the flood warning service
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the

		an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.			organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	daily Flood Guidance Statement to provide better and earlier information to the public.
<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	

<b>Awareness raising</b>	<b>G</b>	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.
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					<p>organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.</p> <p>Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take.</p>	
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.



		inspection.				
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.  Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.
<b>Planning Policy</b>	<b>G</b>	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

## Fraserburgh and Rosehearty (Potentially Vulnerable Area 06/05)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	Buchan coastal



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### Summary of Progress for Fraserburgh and Rosehearty

This Potentially Vulnerable Area is located in the Moray Firth from Pennan to Fraserburgh. It is approximately 37km<sup>2</sup>. The main urban areas are Fraserburgh, Rosehearty, New Aberdour and Sandhaven.

There are several small watercourses within the area including The Dour.

There are approximately 60 residential and 80 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £84,000 with the majority from surface water flooding. It is recognised that wave overtopping contributes to coastal flooding which is not fully represented in this analysis. Further information can be found in NELFRMP under PVA 06/05.

[https://www.aberdeenshire.gov.uk/media/17343/pva-06\\_05-fraserburgh-and-rosehearty.pdf](https://www.aberdeenshire.gov.uk/media/17343/pva-06_05-fraserburgh-and-rosehearty.pdf)

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in Fraserburgh and Rosehearty area.

## Overview of actions to manage flooding in Fraserburgh and Rosehearty

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/05						A	R		G	G			G	G	G		G	G

## Summary of progress of actions to manage flood risk in Fraserburgh and Rosehearty (PVA 06/05)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Date	Interim progress	Planned actions to complete
<b>Surface water plan/study</b>	<b>A</b>	A study to prepare Surface Water Management Plan (SWMP) to generate increased understanding of the causes, probability and consequences of surface water flooding and to evaluate options for surface water	Aberdeenshire Council	2016 - 2021	Fraserburgh and Rosehearty flood areas to be mapped in Spring 2019 and flood areas from various sources reviewed to identify areas for further investigation for discussing with Scottish Water. Re Rosehearty - meeting held with residents at Murison Drive and improved drainage works completed around school – Nov. 2018.	Peterhead and Aboyne areas are current priority areas for reviewing Surface Water Management Plans. With Fraserburgh and Rosehearty to follow in the coming months.

		flood management.				
<b>Strategic mapping and modelling</b>	<b>R</b>	SEPA will be seeking to incorporate additional surface water hazard mapping information into the flood maps to improve understanding of flood risk. Approximately 1,700km <sup>2</sup> of improved data is currently available within this Local Plan District.	SEPA	2018 - 2019	SEPA's current Surface water hazard maps use design rainfall estimates based on FEH99 methodology, this has now been superseded by FEH13 methodology. The FEH13 dataset contains the latest science and understanding of rainfall across Scotland and represents a significant change in rainfall amounts compared to FEH99 dataset, as such it is no longer consider appropriate to deliver this action as originally intended.	<p>This action will not be taken forwards as described. SEPA will develop new Surface water flood hazard maps over the remainder of Cycle 1. It is anticipated that updated flood mapping from this revised action will be available early in Cycle 2.</p> <p>Alongside this SEPA is investigating the feasibility of developing an interim approach to assess the change in Surface water hazard (and risk) associated with FEH13, such that we could consider it in the development of the 2021 FRM Strategies.</p>
<b>Strategic mapping and modelling</b>	<b>G</b>	Scottish Water will undertake modelling of the Fraserburgh sewer catchment.	Scottish Water	01/01/2018 - 31/12/2020	Complete	Action Complete
<b>Maintain flood warning</b>	<b>G</b>	SEPA will continue to maintain both the 'Gardenstown to Pennan' and 'Rosehearty to Fraserburgh' flood warning areas which are part of the Moray Firth coastal flood	SEPA	Ongoing	SEPA continues to maintain both the 'Gardenstown to Pennan' and 'Rosehearty to Fraserburgh' flood warning areas which are part of the Moray Firth coastal flood warning scheme.	SEPA will continue to operate the flood warning service

		warning scheme.				
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA continues to provide flood forecasting. SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.
<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	

		and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.				
<b>Awareness raising</b>	<b>G</b>	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

					<p>the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.</p> <p>Ongoing liaison with community councils on resilience.</p> <p>Aberdeenshire Council advise householders directly on property level protection products and actions they can take.</p>	
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.

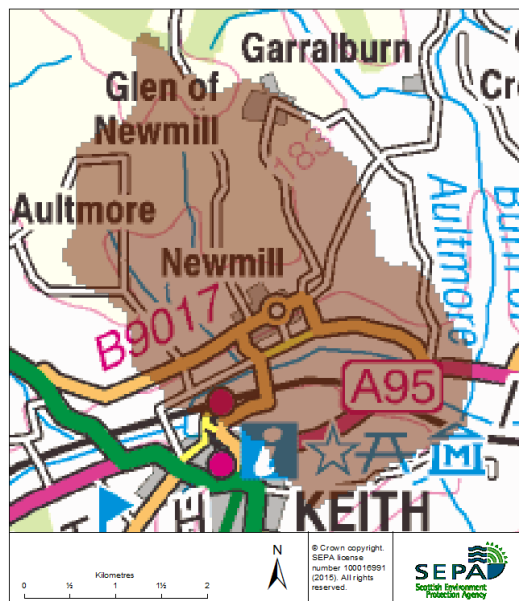
		reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.				
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.  Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.
<b>Planning Policy</b>	<b>G</b>	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.



		in place to reduce flood risk.				
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## Newmill (Potentially Vulnerable Area 06/06)

Local Plan District	Local authority	Main catchment
North East	Moray Council	River Deveron



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### Summary of Progress for Newmill

There are approximately 13 residential and fewer than 10 non-residential properties at risk of flooding. The Annual Average Damages are approximately £24,000. These damages are evenly distributed between surface water and river flooding.

Since the NELFRMP was published in May 2016, a flood protection scheme for Newmill has been constructed and this scheme is now operational. This scheme provides protection from surface water runoff to eighteen properties that were previously at risk of flooding. A high level Surface Water Management Plan has been undertaken for Moray, in which Keith is a priority area. Any actions to mitigate flooding identified in this plan will be taken forward for consideration in Cycle 2.

## Overview of actions to manage flooding in Newmill

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/06	G					G	G	G	G	G		G	A	G	G		G	G

## Summary of progress of actions to manage flood risk in Newmill (PVA 06/06)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Progress in Delivery, including key deliverables and dates	Revised dates and planned actions to complete / address delay
<b>Flood protection Scheme</b>	<b>G</b>	Moray Council will construct a flood protection scheme in Newmill to address surface water flooding issues. The scheme includes a network of ditches, a cascade, flood walls and a replacement bridge.	Moray Council	2016 - 2021	The Newmill Flood Protection Scheme was completed in December 2016 and is now operational.	No further action required.
<b>Surface water plan/study</b>	<b>G</b>	Moray Council is developing a Surface Water Management Plan for the Keith/Newmill area.	Moray Council	2019	Moray Council completed a Surface Water Management Plan for Keith / Newmill in 2017.	Actions identified in the Surface Water Management Plan will be taken forward for inclusion in the LFRMP for Cycle 2.

<b>Strategic mapping and modelling</b>	<b>G</b>	Scottish Water will undertake modelling of the Keith sewer catchment.	Scottish Water	2020	The Scottish Water assessment of flood risk within the sewer catchment has started. The assessment will improve knowledge and understanding of surface water flood risk.	On track to deliver within agreed LFRMP timescales.
<b>Maintain Flood Protection Scheme</b>	<b>G</b>	Moray Council will continue to maintain the Newmill Flood Protection Scheme, including Phase 2, once completed.	Moray Council	Ongoing	Moray Council has continued to maintain the Newmill Flood Protection Scheme. Phase 2 was included in January 2017.	Moray Council will continue to maintain this scheme.
<b>Maintain flood warning</b>	<b>G</b>	SEPA will continue to maintain the 'Keith' flood warning area which is on the River Isla and forms part of the Deveron River flood warning scheme	SEPA	Ongoing	SEPA has continued to operate the flood warning service	SEPA will continue to operate the flood warning service.
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA continues to provide flood forecasting.	
<b>Community Flood Action Group</b>	<b>G</b>	Newmill Community Association has worked with Moray Council, and tenants to reduce the impact of surface water flooding.	Community	Ongoing	Newmill Community Association and Moray Council worked together to keep local residents informed during the construction of the Newmill Flood Protection Scheme	<b>Moray Council will continue to work with this group on request.</b>

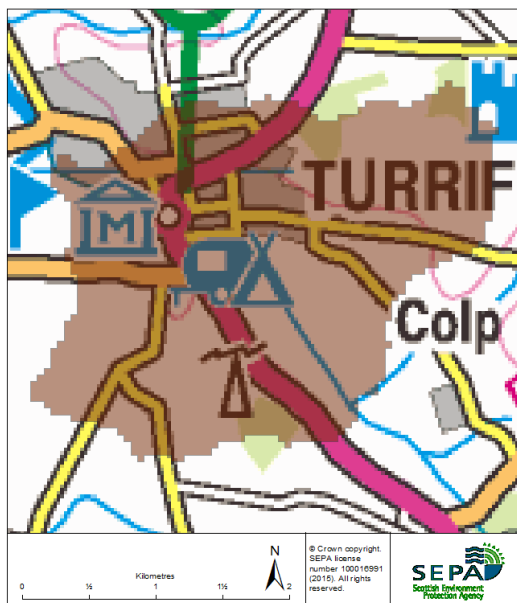
<b>Self help</b>	<b>A</b>	Everyone is responsible for protecting themselves and their property from flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.	Property owners	Ongoing	SEPA continues to assist members of the public to sign up to Floodline.  Moray Council has not received any requests for assistance from property owners in this area.	
<b>Awareness raising</b>	<b>G</b>	Moray Council will seek opportunities to raise awareness of flood risk and actions that prepare individuals, homes and businesses as described in the Act.	Responsible Authorities	Ongoing	SEPA's principle awareness raising approaches have been through: 1. Direct campaigning and general awareness raising. 2. Education and tools. 3. Partnership delivery development.  Newmill Community Association and Moray Council worked together to keep local residents informed during the construction of the Newmill Flood Protection Scheme	SEPA will continue to raise awareness of flood risk through direct campaigning, general awareness raising, developing education and engagement tools, creating new partnerships and improving its flood forecasting and warning services (e.g. Scottish Flood Forecasting Service and Floodline). This will continue with many of the actions reported for the interim progress summary. Further information is contained within SEPA's Flood Warning Development Framework, published in 2017 and for the period

						<p>2017 to 2021.</p> <p>Raising Awareness will form part of each of the 3 key themes identified:</p> <ul style="list-style-type: none"> <li>• Aim 1: Maintenance of existing and delivery of new flood warning schemes.</li> <li>• Aim 2: Development and innovation.</li> <li>• Aim 3: Engagement with partners and customers.</li> </ul> <p>Moray Council will undertake additional awareness raising activities as and when required.</p>
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Moray Council has a schedule of clearance and repair, which identifies routine maintenance and repairs to address areas known to be at risk of flooding.	Moray Council, asset / land managers	Ongoing	Moray Council inspects flood management assets within its region according to an inspection schedule. This schedule is reviewed annually to ensure resources are targeted at the areas at greatest risk.	Moray Council will continue with its programme of clearance and repair work, which is reviewed annually.
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	<p>SEPA continues to support emergency planning.</p> <p>Moray Council Emergency Planners have in place and maintain Emergency Plans for all contingencies</p>	Moray Council's emergency plan is reviewed and updated when required.

<b>Planning Policy</b>	<b>G</b>	Scottish Planning Policy and accompanying Planning Advice Notes set out Scottish Ministers' priorities for the operation of the planning system and for the development and use of land in terms of flood risk management.	Planning Authority	Ongoing	Moray Council, as a Planning Authority, ensures that new developments satisfy relevant guidance and policies on flooding and drainage.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2020 Local Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

## Turriff (Potentially Vulnerable Area 06/07)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Deveron



### Summary of Progress for Turriff

This Potentially Vulnerable Area includes the south and west of Turriff and surrounding rural areas. It is approximately 7km<sup>2</sup>. The A947 passes through the middle of the area. The main river is the Burn of Turriff which flows into the Deveron just to the north west of the area. There are approximately 20 non-residential and fewer than 10 residential properties at risk of flooding. The Annual Average Damages are estimated to be £24,000 with the majority caused by surface water flooding. Further information can be found in NELFRMP under PVA 06/07.

[https://www.aberdeenshire.gov.uk/media/17348/pva-06\\_07-turriff.pdf](https://www.aberdeenshire.gov.uk/media/17348/pva-06_07-turriff.pdf)

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Turriff area.

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## Overview of actions to manage flooding in Turriff

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/07							G		G	G			G	G	G		G	G

## Summary of progress of actions to manage flood risk in Turriff (PVA 06/07)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Date	Interim progress	Planned actions to complete
<b>Strategic mapping and modelling</b>	<b>G</b>	Scottish Water will undertake modelling of the Turriff sewer catchment.	Scottish Water	01/01/2016 - 31/12/2018	Action Complete	Complete
<b>Maintain flood warning</b>	<b>G</b>	SEPA will continue to maintain the 'Turriff' flood warning area which is part of the Deveron river flood warning scheme.	SEPA	Ongoing	SEPA continues to maintain the 'Turriff' flood warning area which is part of the Deveron river flood warning scheme.	SEPA will continue to operate the flood warning service
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements

		statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.			Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.
<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	

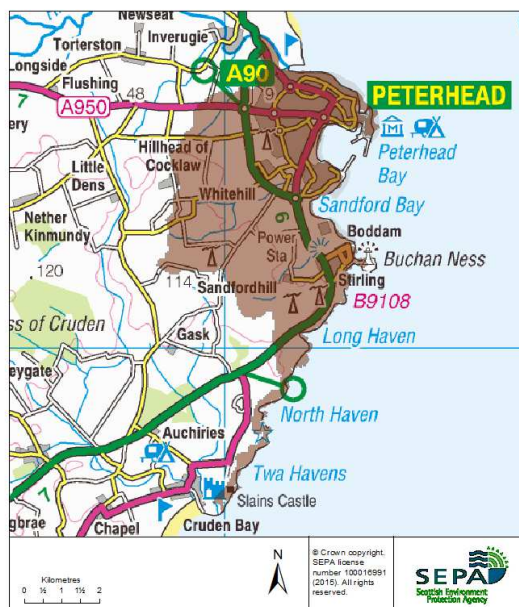
		initiatives, and ensuring that properties and businesses are insured against flood damage.				
<b>Awareness raising</b>	<b>G</b>	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

					<p>organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.</p> <p>Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take.</p>	
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the	Category 1 and 2	Ongoing	SEPA continues to support emergency planning.	Grampian Emergency Planning Unit's emergency plan is

		responsibility of many organisations, including local authorities, the emergency services and SEPA.	Responders		Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	reviewed and updated when required.
<b>Planning Policy</b>	<b>G</b>	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

## Peterhead (Potentially Vulnerable Area 06/08)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	Buchan coastal



### Summary of Progress for Peterhead

This Potentially Vulnerable Area includes Peterhead, Stirling and Boddam. It is approximately 28km<sup>2</sup>. The A90, A950, and A982 pass through the area.

The main river in the area is the River Ugie.

There are approximately 40 residential and 80 non-residential properties at risk of flooding.

The Annual Average Damages are estimated to be £580,000 with the majority attributed to surface water flooding. Further information can be found in NELFRMP under PVA06/08.

[https://www.aberdeenshire.gov.uk/media/17349/pva-06\\_08-peterhead.pdf](https://www.aberdeenshire.gov.uk/media/17349/pva-06_08-peterhead.pdf)

Since the NELFRMP was published in May 2016, SEPA has completed development of a flood forecasting model for Aberdeenshire and Angus coastline and has worked with Aberdeenshire Council to develop procedures for the new flood warning service. A new flood warning area has been introduced for Peterhead to Boddam.

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## Overview of actions to manage flooding in Peterhead

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/08			G			A	G			G			G	G	G		G	G

## Summary of progress of actions to manage flood risk in Peterhead (PVA 06/08)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
<b>New Flood Warning</b>	<b>G</b>	A flood warning system will be developed and implemented.	SEPA	2017 - 2018	SEPA has completed development of a flood forecasting model for Aberdeenshire and Angus coastline and has worked with Aberdeenshire Council to develop procedures for the new flood warning service. A new flood warning area has been introduced for Peterhead to Boddam.	SEPA will continue to operate the flood warning service
<b>Surface water plan/study</b>	<b>A</b>	A study to prepare Surface Water Management Plan (SWMP) to generate	Aberdeenshire Council	2016 - 2021	Peterhead flood areas are being mapped in Spring 2019. Flood areas from various sources to be	Peterhead and Aboyne areas are current priority areas for reviewing Surface Water Management (Early 2019).

		increased understanding of the causes, probability and consequences of surface water flooding and to evaluate options for surface water flood management.			reviewed to identify areas for further investigation for discussing with Scottish Water.	
<b>Strategic mapping and modelling</b>	<b>G</b>	Scottish Water will undertake modelling of the Peterhead sewer catchment.	Scottish Water	01/01/2016 - 31/12/2019	Complete	Action Complete
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.



					everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	
<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	
<b>Awareness raising</b>	<b>G</b>	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and

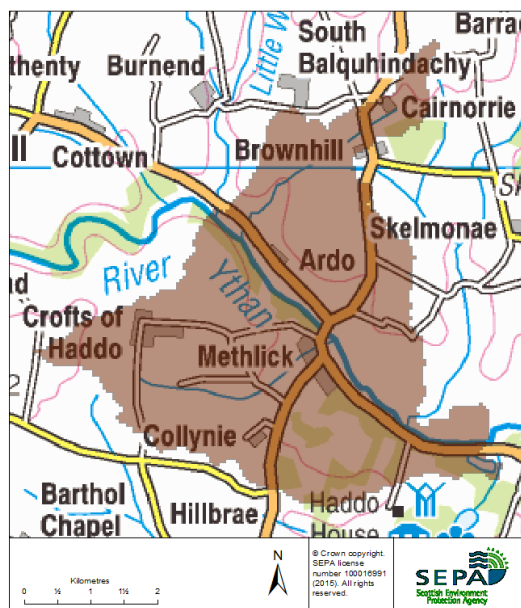
		opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.			activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help	improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.
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					<p>to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.</p> <p>Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take.</p>	
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.

		responsibility of many organisations, including local authorities, the emergency services and SEPA.			Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	
<b>Planning Policy</b>	<b>G</b>	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

## Methlick (Potentially Vulnerable Area 06/09)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Ythan



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### Summary of Progress for Methlick

This Potentially Vulnerable Area is located northeast of Inverurie and covers Methlick and the surrounding rural area. It is approximately 21km<sup>2</sup>. The B9005 and B9170 roads run through the area.

The main water course is the River Ythan.

There are approximately 20 non-residential and fewer than 10 residential properties at risk of flooding.

The Annual Average Damages are approximately £71,000. The majority of these are attributed to river flooding.

Further information can be found in NELFRMP under PVA 06/09.

[https://www.aberdeenshire.gov.uk/media/17342/pva-06\\_09-methlick.pdf](https://www.aberdeenshire.gov.uk/media/17342/pva-06_09-methlick.pdf)

Since the NELFRMP was published in May 2016, Aberdeenshire Council has carried out flood protection works at the Methlick bridge to improve flow through capacity (completed in October 2017).

## Overview of actions to manage flooding in Methlick

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/09										G			G	G	G		G	G

## Summary of progress of actions to manage flood risk in Methlick (PVA 06/09)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.

		flooding.			assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	
<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	
<b>Awareness raising</b>	<b>G</b>	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness

		impact of flooding.			<p>campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK</p>	<p>raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.</p>
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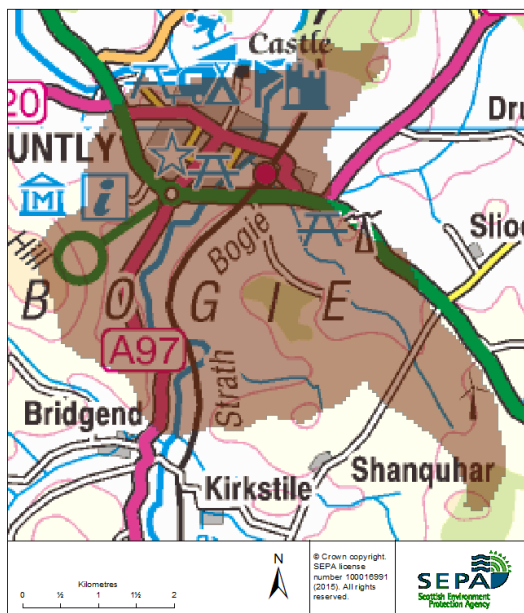


					agencies to develop joint flooding information. Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take.	
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.  Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.
<b>Planning Policy</b>	<b>G</b>	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase

		measures are put in place to reduce flood risk.				flood risk elsewhere, and encourages the most sustainable approach to managing surface water.
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## Huntly (Potentially Vulnerable Area 06/10)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Deveron



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### Summary of Progress for Huntly

This Potentially Vulnerable Area includes Huntly and the rural area to the south. It is approximately 20km<sup>2</sup>. It is approximately 68km<sup>2</sup>. The A96, A97 and A920 pass through the area. The River Deveron and the River Bogie are the main rivers in this area. There are approximately 110 residential and 50 non-residential properties at risk of flooding. The Annual Average Damages are approximately £450,000 with the majority due to river flooding. Further information can be found in NELFRMP under PVA 06/10.

[https://www.aberdeenshire.gov.uk/media/17345/pva-06\\_10-huntly.pdf](https://www.aberdeenshire.gov.uk/media/17345/pva-06_10-huntly.pdf)

Since the NELFRMP was published in May 2016, the Huntly Flood Protection Scheme designed to protect properties from both the River Deveron and Meadow Burn, was completed in October 2017.

## Overview of actions to manage flooding in Huntly

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/10	G					A	G	G	G	G			G	G	G		G	G

## Summary of progress of actions to manage flood risk in Huntly (PVA 06/10)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
<b>Flood protections scheme/works</b>	<b>G</b>	Flood Protection Scheme includes: - Raised defences on the right bank of the River Deveron from Arnhall Cottages to Milton Farm - Increasing the size of the culvert on the Ittingstone Burn below the A920 and constructing raised defences - Raising and strengthening the existing defences on the river Deveron between the Bridge of Gibston and the Hill	Aberdeenshire Council	2016 - 2017	Huntly Flood Scheme completed October 2017.	Maintenance handover documents on-going. Maintenance schedule to be established and engaged. 'As built' drawings provided for Scottish Government for inclusion in SFDAD.

		of Haugh - Constructing raised defences to the east and south of the caravan park - Replacing one undersize culvert on the Meadow Burn with a timber footbridge - Creating local storage to the west of the Meadows estate by constricting the flow in the Meadow - Various headwalls, culverts and drainage improvements				
<b>Surface water plan/study</b>	<b>A</b>	A study to prepare Surface Water Management Plan (SWMP) to generate increased understanding of the causes, probability and consequences of surface water flooding and to evaluate options for surface water flood management.	Aberdeenshire Council	2016 - 2021	Huntly flood areas to be mapped in coming weeks and flood areas from various sources reviewed to identify areas for further investigation for discussing with Scottish Water.	Peterhead and Aboyne areas are current priority areas for reviewing Surface Water Management Plans. With Huntly to follow in the coming months.
<b>Strategic mapping and modelling</b>	<b>G</b>	Scottish Water will undertake further investigation and modelling in the Huntly sewer catchment to improve knowledge and understanding of flood risk in this area.	Scottish Water	01/01/2018 - 31/12/2020	Started	On track to deliver within agreed LFRMP timescales
<b>Maintain flood protection scheme*</b>	<b>G</b>	Assuming the Huntly Flood Protection Scheme is completed within the first six-year plan cycle 2016-	Aberdeenshire Council	2019 onwards	As per description and on track to deliver within agreed LFRMP timescales	

		<p>2022, the following maintenance measures will be undertaken:</p> <ul style="list-style-type: none"> <li>- General inspection and maintenance</li> <li>- Rock Armour - Replacement when required</li> <li>- Debris screens will receive routine/programmed inspections as well as reactive and emergency response.</li> <li>- The Reservoirs (Scotland) Act 2011 requires all reservoirs above the capacity of 10,000m<sup>3</sup> to be included on a SEPA register. As such, inspection, maintenance and certification requirements of the Reservoirs (Scotland) Act 2011</li> </ul>				
<b>Maintain flood warning</b>	<b>G</b>	SEPA will continue to maintain the 'Huntly (Bogie)' flood warning area which is on the River Bogie and the 'Milton and The Meadows' flood warning area. Both form part of the Deveron river flood warning scheme.	SEPA	Ongoing	SEPA has continued to operate the flood warning service	SEPA will continue to operate the flood warning service
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the

		daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.			Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.
<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	

		against flood damage.				
<b>Awareness raising</b>	<b>G</b>	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

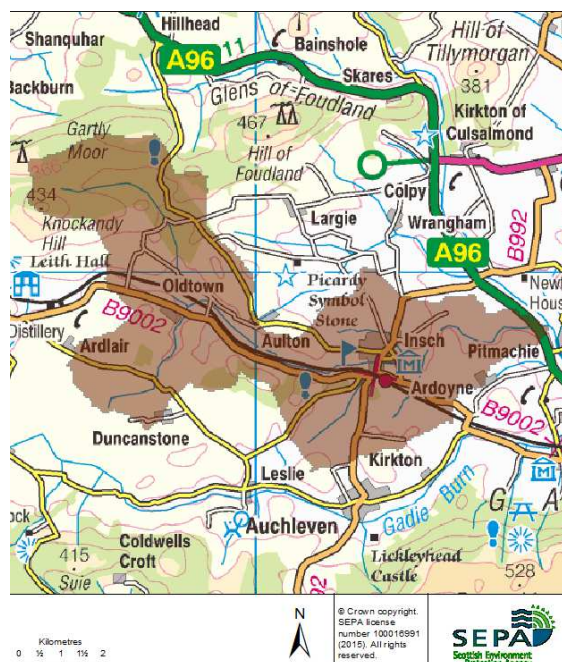


					<p>flooding information.</p> <p>Ongoing liaison with community councils on resilience.</p> <p>Aberdeenshire Council advise householders directly on property level protection products and actions they can take.</p>	
<b>Maintenance</b>	<b>G</b>	<p>Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk.</p> <p>Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.</p>	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	<p>SEPA continues to support emergency planning.</p> <p>Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies</p>	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.
<b>Planning Policy</b>	<b>G</b>	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to

		measures are put in place to reduce flood risk.				avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.
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## Insch (Potentially Vulnerable Area 06/11)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Don



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### Summary of Progress for Insch

This Potentially Vulnerable Area is based around Insch and Oldtown. It is approximately 40km<sup>2</sup>. The B9002 and B992 and the Aberdeen to Inverness railway line pass through the area. The main watercourse is The Shevock which is a tributary of the River Urie. There are approximately 80 residential and 30 non-residential properties at risk of flooding. The Annual Average Damages are estimated to be £250,000 with the majority caused by river flooding. Further information can be found in NELFRMP under PV06/11.

[https://www.aberdeenshire.gov.uk/media/17355/pva-06\\_11-insch.pdf](https://www.aberdeenshire.gov.uk/media/17355/pva-06_11-insch.pdf)

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Insch area. However work has begun on the Insch Flood Study and preferred option(s) for flood protection should be identified by Autumn 2019, for Scottish Government prioritisation.

## Overview of actions to manage flooding in Insch

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/11				G			R			G			G	G	G		G	G

## Summary of progress of actions to manage flood risk in Insch (PVA 06/11)

Action	Status	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
<b>Flood protection study</b>	G	To evaluate options to reduce the risk of flooding in Insch from river flooding – Valentine Burn and The Shevock	Aberdeenshire Council	2016 - 2021	Modelling and analysis – Winter 2018 Outline engineering design - Winter 2018 Stakeholder and public engagement 1 - Spring 2019 Options appraisal - Spring 2019 Stakeholder and public engagement 2 - Summer 2019	Project completion - late Summer 2019
<b>Strategic mapping and modelling - Sewer</b>	G	Scottish Water will undertake modelling of the Insch sewer catchment.	Scottish Water	01/01/2017 - 31/12/2020	Not Started	On track to deliver within agreed LFRMP timescales
<b>Strategic</b>	R	SEPA will improve surface	SEPA	01/01/2018 -	SEPA's current Surface water	This action will not be taken

<b>mapping and modelling – Surface Water</b>		water mapping across approximately 1,700km <sup>2</sup> in the North East Local Plan District.		31/12/19	hazard maps use design rainfall estimates based on FEH99 methodology, this has now been superseded by FEH13 methodology. The FEH13 dataset contains the latest science and understanding of rainfall across Scotland and represents a significant change in rainfall amounts compared to FEH99 dataset, as such it is no longer consider appropriate to deliver this action as originally intended.	forwards as described. SEPA will develop new Surface water flood hazard maps over the remainder of Cycle 1. It is anticipated that updated flood mapping from this revised action will be available early in Cycle 2.  Alongside this SEPA is investigating the feasibility of developing an interim approach to assess the change in Surface water hazard (and risk) associated with FEH13, such that we could consider it in the development of the 2021 FRM Strategies.
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.

					days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	
<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	
<b>Awareness raising</b>	<b>G</b>	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising

					<p>campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively</p>	<p>activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public</p>
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					supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information. Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take.	
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.  Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.
<b>Planning Policy</b>	<b>G</b>	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains



		Service to ensure that appropriate policies and measures are put in place to reduce flood risk.				robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.
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## Ellon (Potentially Vulnerable Area 06/12)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Ythan



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### Summary of Progress for Ellon

This Potentially Vulnerable Area is centred on Ellon. It is approximately 19km<sup>2</sup>. The A920, A948, B9005 and a short section of the A90 pass through the area.

The main river in the area is the Ythan, which is tidally influenced downstream of Ellon.

There are approximately 110 residential and 40 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £300,000 with the majority due to river flooding.

Further information can be found in NELFRMP under PVA 06/12.

[https://www.aberdeenshire.gov.uk/media/17357/pva-06\\_12-ellon.pdf](https://www.aberdeenshire.gov.uk/media/17357/pva-06_12-ellon.pdf)

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Ellon area. However work has begun on the Ellon Flood Study and preferred option(s) for flood protection should be identified by Autumn 2019, for Scottish Government prioritisation.

## Overview of actions to manage flooding in Ellon

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/12				G			G			G			G	G	G		G	G

## Summary of progress of actions to manage flood risk in Ellon (PVA 06/12)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
<b>Flood protection study</b>	<b>G</b>	To evaluate options to reduce the risk of flooding in Ellon from river flooding – Broomies / Bronie Burn, Modley Burn and the River Ythan.	Aberdeenshire Council	2016 - 2019	Stakeholder and public engagement 1 – Winter 2018 Options appraisal - Spring 2019 Stakeholder and public engagement 2 - Spring 2019	Project completion - Summer 2019
<b>Strategic mapping and modelling</b>	<b>G</b>	Scottish Water will undertake further investigation and modelling in the Ellon sewer catchment to improve knowledge	Scottish Water	01/01/2016 - 31/12/2020	Started	On track to deliver within agreed LFRMP timescales

		and understanding of flood risk in this area.				
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.
<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	

		businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.				
<b>Awareness raising</b>	<b>G</b>	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

					<p>programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.</p> <p>Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take.</p>	
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.

		substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.				
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.  Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies
<b>Planning Policy</b>	<b>G</b>	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

## Inverurie and Kintore (Potentially Vulnerable Area 06/13)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Don



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## Summary of Progress for Inverurie and Kintore

This Potentially Vulnerable Area includes Inverurie and Kintore. It is approximately 60km<sup>2</sup>. The A96 and the Aberdeen to Inverness railway pass through the area.  
 The main watercourses are the River Don and the River Urie. There are several smaller watercourses including the Strath Burn which is mainly culverted through Inverurie.  
 There are approximately 230 residential and 190 non-residential properties at risk of flooding.  
 The Annual Average Damages are estimated to be £510,000 with the majority caused by river flooding.  
 Further information can be found in NELFRMP under PVA 06/13.

[https://www.aberdeenshire.gov.uk/media/17360/pva-06\\_13-inverurie-and-kintore.pdf](https://www.aberdeenshire.gov.uk/media/17360/pva-06_13-inverurie-and-kintore.pdf)

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Inverurie and Kintore areas. However work has begun on the Inverurie and Port Elphinstone Flood Study and preferred option(s) for flood protection should be identified by Autumn 2019, for Scottish Government prioritisation.



## Overview of actions to manage flooding in Inverurie and Kintore

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/13				G		A	A		G	G			G	G	G		G	G

## Summary of progress of actions to manage flood risk in Inverurie and Kintore (PVA 06/13)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
<b>Flood protection study</b>	<b>G</b>	To evaluate options to reduce the risk of flooding in Inverurie and Port Elphinstone from river flooding – River Urie and the River Don	Aberdeenshire Council	2016 - 2019	Outline engineering design - Winter 2018 Stakeholder and public engagement 1 – Spring 2019 Options appraisal - Spring 2019 Stakeholder and public engagement 2 - Summer 2019	Project completion - Summer 2019
<b>Surface water plan/study</b>	<b>A</b>	A study to prepare Surface Water Management Plan (SWMP) to generate increased understanding of the causes, probability	Aberdeenshire Council	2016 - 2021	Inverurie and Kintore flood areas to be mapped in coming weeks and flood areas from various sources reviewed to identify areas for further	Peterhead and Aboyne areas are current priority areas for reviewing Surface Water Management Plans. With Inverurie and Kintore to follow in the coming months.

		and consequences of surface water flooding and to evaluate options for surface water flood management.			investigation for discussing with Scottish Water	
<b>Strategic mapping and modelling - Sewer</b>	<b>G</b>	Scottish Water will undertake further investigation and modelling in the Inverurie sewer catchment to improve knowledge and understanding of flood risk in this area.	Scottish Water	01/01/2017 - 31/12/2018	Not Started	On track to deliver within agreed LFRMP timescales
<b>Strategic mapping and modelling - River</b>	<b>A</b>	SEPA will develop the strategic mapping in the Upper Don area, from Pitcaple to Kintore.	SEPA	01/01/2017 - 31/12/2018	Following a screening exercise to characterise the catchment and identify the data necessary to support mapping improvements, a topographic survey of the catchment has been undertaken. A local authority study is currently underway for Inverurie. Immediately upstream of the PVA, there are modelling studies being undertaken for the Upper River Don, River Urie and Shevock by SEPA and the local authority. These projects will collectively enable the revision of flood mapping for the River Don to Dyce.	SEPA will continue to support the local authority in the delivery of their studies for this area. It is planned to complete this action by the end of Cycle 1.
<b>Maintain flood warning</b>	<b>G</b>	SEPA will continue to maintain the 'Inverurie' and 'Kintore' flood	SEPA	Ongoing	SEPA has continued to operate the flood warning service	SEPA will continue to operate the flood warning service

		warning areas which are part of the Don river flood warning scheme				
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.
<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the	

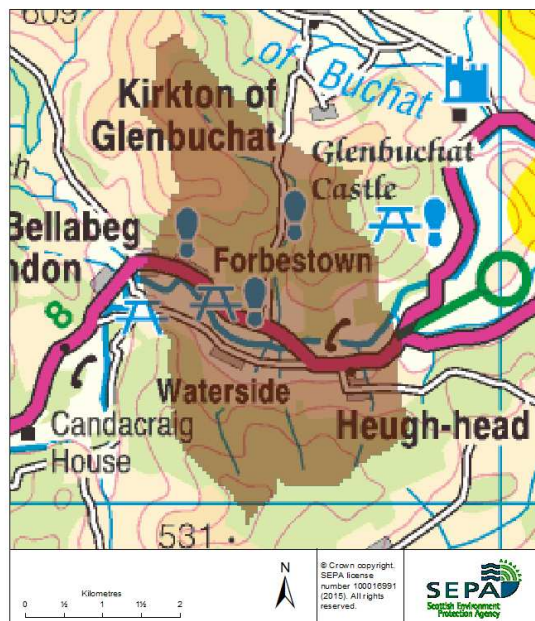
		damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.			Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	
<b>Awareness raising</b>	<b>G</b>	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

					<p>Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.</p> <p>Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take.</p>	
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry	Aberdeenshire Council, asset / land	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any

		out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	managers		clearance and repair as assessments take place.	clearance and repair work. Information available publically.
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.  Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.
<b>Planning Policy</b>	<b>G</b>	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

## Heugh-head (Potentially Vulnerable Area 06/14)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Don



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### Summary of Progress for Heugh-head

This Potentially Vulnerable Area includes the villages of Heugh-head, Forbestown, Bellabeg and Waterside. It is approximately 13km<sup>2</sup> and located within the Cairngorms National Park

The main water course is the River Don.

There are approximately 10 residential and 10 non-residential properties at risk of flooding.

The Annual Average Damages are estimated to be £95,000 with the majority of these from river flooding.

Further information can be found in NELFRMP under PVA 06/14.

[https://www.aberdeenshire.gov.uk/media/17353/pva-06\\_14-heugh-head.pdf](https://www.aberdeenshire.gov.uk/media/17353/pva-06_14-heugh-head.pdf)

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Heugh-head area.

## Overview of actions to manage flooding in Heugh-head

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/14										G			G	G	G	A	G	G

## Summary of progress of actions to manage flood risk in Heugh-head (PVA 06/14)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.



		preparations in place to reduce the impact of flooding.			assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	
<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	
<b>Awareness raising</b>	<b>G</b>	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and

		and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.			run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported	forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.
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					<p>the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.</p> <p>Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take.</p>	
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.
<b>Site protection plans</b>	<b>A</b>	Site protection plans to be developed for fire station and doctor's surgery in Strathdon to reduce risk of flooding from the River Don.	Asset Managers	2016 - 2018	Jun 2017 - Aberdeenshire Council's emergency planning unit contacted the two sites.	LA to discuss with private owner and / or Community group about preparing an Emergency Plan with assistance provided by Grampian Emergency Planning Unit and the Scottish Flood Forum
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the	Category 1 and 2 Responders	Ongoing	<p>SEPA continues to support emergency planning.</p> <p>Grampian Emergency Planning Unit have in place and</p>	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.

		emergency services and SEPA.			maintain Emergency Plans for all contingencies	
<b>Planning Policy</b>	<b>G</b>	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging Cairngorms National Park Plan 2020 maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

## Bridge of Don (Potentially Vulnerable Area 06/15)

Local Plan District	Local authority	Main catchment
North East	Aberdeen City Council Aberdeenshire Council	River Don Aberdeen North Coastal



### Summary of Progress for Aberdeen City - Bridge of Don

This Potentially Vulnerable Area covers the northern areas of the City of Aberdeen, extending along the River Don from Bridge of Don to Dyce. It is approximately 46km<sup>2</sup> and includes the airport and Aberdeen to Inverness railway line. The main river is the River Don and there are also a number of small watercourses, most of which are culverted for all or part of their route through the city.

There are approximately 2,200 residential properties and 470 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £4.5 million with the majority caused by river flooding.

Further information can be found in NELFRMP under PVA 06/15.

[https://www.aberdeenshire.gov.uk/media/17358/pva-06\\_15-aberdeen-city-bridge-of-don.pdf](https://www.aberdeenshire.gov.uk/media/17358/pva-06_15-aberdeen-city-bridge-of-don.pdf)

Since the NELFRMP was published in May 2016, SEPA has completed development of a flood forecasting model for the Aberdeenshire and Angus coastline and has worked with Aberdeenshire and Aberdeen City Councils to develop procedures for the new flood warning service. A new flood warning area has been introduced for the Aberdeen Coastal area.

## Overview of actions to manage flooding in Bridge of Don

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/15			G	A		A	A		G	G	G		G	G	G		G	G

## Summary of progress of actions to manage flood risk in Bridge of Don

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
<b>New flood warning</b>	G	Flood warning is required for communities at risk of coastal flooding along the Aberdeenshire coast from Peterhead to Montrose. A flood warning system will be developed and implemented. The geographical extent of specific flood warning areas will be developed as part of this process.	SEPA	2017 - 2018	SEPA has completed development of a flood forecasting model for the Aberdeenshire and Angus coastline and has worked with Aberdeenshire and Aberdeen City Councils to develop procedures for the new flood warning service. A new flood warning area has been introduced for the Aberdeen	SEPA will continue to operate the flood warning service.

					Coastal area.	
<b>Flood protection study</b>	A	The Bridge of Don Flood Protection study will look at the flood risk from small watercourses and surface water in this area and define types of solutions that may be applicable to these areas to prevent or reduce the flood risk.	Aberdeen City Council	2016 - 2019	<p>At present no progress has been made on the delivery of the flood studies in detail within the Bridge of Don/Denmore PVA. Work has been completed in finalising the outputs from the Aberdeen ICS which has helped inform the Surface Water Management Plans and identify in detail key risk areas within these PVA where further study work is required. This has highlighted the following areas which need flood study works to be done:-River Don Flood Study – River Don to be modelled for the entire length within the city boundaries. Works has not started on this.</p> <p>Glashie Burn Flood</p>	<p>The delay in starting these has been due to resources being unavailable to begin the commissions of consultants and the completion of the Aberdeen Integrated Catchment Study.</p> <p>Within year 3 of the FRM cycle, the Aberdeen Integrated Catchment Study will be updated to allow for new developments and rainfall to be added. Within year 3 of the FRM all of the highlighted studies will be commissioned, with anticipated results by end of 2019. These results will identify the flood risk and potential options and locations for works, with the exception of the river Don model which is unlikely to be completed until 2020.</p>

					<p>Study - This is to understand the flood risk from the burn, with particular reference to Jesmond Drive &amp; Denmore Gardens. Works has not started on this.</p> <p>Silver Burn Flood Study - This is to understand the flood risk from the burn, with particular reference to The Barracks and Broadford Drive. Work has not begun on this.</p> <p>Far Burn Flood Study - This is to understand the flood risk from the burn with reference to Farburn Terrace. Work has not started on this yet.</p>	
<b>Surface water plan/study</b>		ACC are creating a surface water management plan (SWMP). The plan will assess all of the current data available with regard to flood risk from historical records of flooding/maintenance and	Aberdeen City Council	2016 - 2018	Aberdeen City Council defined 10 surface water plan areas across the city. Each of these is being done on a risk	By the end of 2019 all Surface Water Management Plans will be completed with actions identified. They will identify time frames for the actions to be undertaken and within which FRM cycle they may take place. By 2020 ALL SWMPs



		existing flood schemes.			<p>based approach, looking at the risk that surface water presents to the area. The plans look at data from various sources, including SEPA/Historic and the Aberdeen Integrated Catchment Study. Currently ACC has 2 members of staff designated full time on the production of these plans. Current status of the plans are as follows:-</p> <p>Garthdee to Ferryhill – Not started  Denburn Valley -Not started  Northfield to Seaton – Not started  Bridge of Don – Started  Bucksburn – Not started  Dyce – Completed and Approved  Kingswells – Started  Peterculter – Started  Cults and Millside – Draft Complete</p>	<p>will be published on the ACC website and available for view by the public. SWMPs will also form part of the revised Local Development Plan. Delays in producing the plans have been due to lack of availability of resources and complexity of the surface water and integrated catchments in Aberdeen.</p>
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					Torry and Cove - Draft Complete.	
<b>Strategic mapping and modelling - River</b>	A	SEPA will be seeking to develop the flood hazard mapping in the Green Burn (right hand tributary at Dyce) and in the Middle Don (from Kintore to Dyce) areas to improve understanding of the flood risk. The extent and timing of the completed improvements will be dependent on detailed scoping and data availability.	SEPA	2016 - 2018	A screening exercise to characterise the catchment and identify the data necessary to support mapping improvements has been undertaken. Within the wider PVA, improvements to the river hazard mapping for the lower River Don were undertaken in 2015.	Potential options for the development of river hazard mapping for the lower Don and tributaries are currently under review. Any further work identified would likely take place in late cycle 1/early cycle 2.
<b>Strategic mapping and modelling - Sewer</b>	G	Scottish Water will undertake modelling of the Persley sewer catchment.	Scottish Water	01/01/2016 - 31/12/2019	Complete	Action Complete
<b>Maintain flood warning</b>	G	Continue to maintain the Aberdeen (Don) flood warning area which is part of the River Don flood warning scheme.	SEPA	Ongoing	SEPA has continued to operate the flood warning service.	SEPA will continue to operate the flood warning service.
<b>Flood forecasting</b>	G	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily national flood guidance statements issued to Category 1 and 2	SEPA will continue to improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily flood guidance statements and flood alerts issued as required to enable communities and responders to reduce the impacts of flooding.

		flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.			agencies (such as emergency responders, local authorities and other organisations with flooding management duties). Each daily statement gives an assessment of the risk of flooding for the next five days to help enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and helps enable communities to be aware and prepared to reduce the impacts of flooding.	
<b>Property level protection scheme</b>	G	Creation of Property Level Grant Scheme.	Aberdeen City Council	2016 - 2021	ACC are running a 50% grant funding scheme towards property level protection. This is now in year 3 of a 5 year scheme.	ACC to continue to promote the Flood Grant scheme for the remaining two years of the funding.
<b>Self help</b>	G	Everyone is responsible for protecting themselves and their	Aberdeen City Council	2016 - 2021	Aberdeen City Council have	ACC are looking to install a network of local gauges to allow the community

		property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage. ACC will be promoting self-help through work with the community. This will include the creation of a Flood Guard Grant Scheme to assist people with putting in Property Level Protection.			continued to promote its Property Level Flood Grant Scheme along with the use of Social media to inform of flood risk. ACC have also used social media to undertake awareness raising as part of our Winter Main campaign. ACC have worked with a local school to create water safety leaflet.	assess the risk from the small burns and water course which may affect their property
<b>Awareness raising</b>	<b>G</b>	Engagement with local community following a flooding incident and regarding historic issues. Initial community engagement with both Community Council and the wider community, exploring possible options regarding SEPA and Local Authority engagement. Community engagement presentation and appropriate advice – short term strategic development.	Responsible Authorities	Ongoing	Aberdeen City Council have continued to promote its Property Level Flood Grant Scheme along with the use of social media to inform of flood risk. We have also used social media to undertake awareness raising as part of our Winter Maintenance	Over the remaining years of the cycle, Aberdeen City Council will continue to work on raising awareness. Following the completion of the Surface Water Management Plans we will target awareness raising within those areas of risk. We will also be working with SEPA on the promotion of the Coastal Flood Warning System and support all the incentives around the Flood warning system.  SEPA will continue to raise awareness of flood risk through campaigning,

					<p>campaign. We have worked with a local school to create water safety leaflets. SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for</p>	<p>developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.</p>
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					<p>Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding</p>	
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					information.	
<b>Maintenance</b>	G	ACC has a duty to assess designated water bodies and carry out clearance and repair works where such works would substantially reduce flood risk. ACC will produce schedules of clearance and repair works and make these available for public inspection.	ACC	Ongoing	ACC have reviewed the current data set of watercourses to define which are relevant and non-relevant to allow the desktop assessment of risk to be allocated. ACC have undertaken routine maintenance and inspection of hakes across the city.  ACC have undertaken clearance works to Lochside Detention pond.	ACC over the next 3 years will be updating our GIS systems to show all relevant and non-relevant water bodies. Within year 4 of the cycle the desktop risk allocation will be complete with the inspection process begun in years 5 and 6. This will be subject to resources being available
<b>Emergency plans/response</b>	G	Aberdeen City Council will work with all CAT 1 and CAT 2 responders to deliver the emergency response plan for Aberdeen City. Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA. Effective management of an emergency response relies on emergency plans that are prepared under the Civil Contingencies Act 2004	Cat 1 and 2 Responders	Ongoing	Aberdeen City Council working with the Local Resilience Partnership has undertaken one exercise simulation looking at how key agencies would respond to a flooding incident, along with holding review meetings following the 2015/16 winter	ACC continue to work with the LRP to ensure strong communication lines in emergency response and ensuring appropriate resource is made available.

		by Category 1 and 2 Responders. The emergency response by these organisations is coordinated through regional and local resilience partnerships.			floods.	
<b>Planning policies</b>	<b>G</b>	National planning policies set out Scottish Ministers' priorities for the operation of the planning system and for the development and use of land. In terms of flood risk management, the policy supports a catchment-scale approach to sustainable flood risk management and aims to build the resilience of our cities and towns, encourage sustainable land management in our rural areas, and to address the long-term vulnerability of parts of our coasts and islands. Under this approach, development in areas with medium to high likelihood of flooding should be avoided.	ACC	Ongoing	ACC continue to work within the current planning policy framework, ensuring the flood risk from all sources except ground water are considered throughout the planning process and give appropriate comment on applications.	Over the next 2 years ACC will be updating its guidance to developers on the planning process and minimum requirements for planning applications to ensure that the planning process remains constant and in line with the NELFRP and Surface Water Management Plans.



## Denmore (Potentially Vulnerable Area 06/16)

Local Plan District	Local authority	Main catchment
North East	Aberdeen City Council	River Don Aberdeen North Coastal



### Summary of Progress for Aberdeen City – Denmore

This Potentially Vulnerable Area is located on the northern edge of Aberdeen City. It includes the Denmore and Middleton Park areas of Aberdeen City and covers an area of approximately 5km<sup>2</sup>. There are no major rivers, however the Glashieburn and Silverburn both pass through culverts in the urban areas. There are approximately 140 residential and 40 non-residential properties at risk of flooding. The Annual Average Damages are approximately £570,000 with the majority caused by river flooding. Further information can be found in NELFRMP under PVA06/16.

[https://www.aberdeenshire.gov.uk/media/17352/pva-06\\_16-aberdeen-city-denmore.pdf](https://www.aberdeenshire.gov.uk/media/17352/pva-06_16-aberdeen-city-denmore.pdf)

Since the NELFRMP was published in May 2016, Aberdeen City council has begun work on the Bridge of Don SWMP and continues to maintain the Lochside Flood Scheme.

## Overview of actions to manage flooding in Aberdeen City – Denmore

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/16				G		A	G	G		G	G		G	G	G		G	G

## Summary of progress of actions to manage flood risk in Aberdeen City – Denmore

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
<b>Flood protection study</b>	G	The Denmore flood protection studies will look at the flood risk from small watercourses and surface water in this area and define types of solutions that may be applicable these areas to prevent or reduce the flood risk.	Aberdeen City Council	2016 - 2021	At present no progress has been made on the delivery of the flood studies in detail within the Bridge of Don/ Denmore PVA. Work has been completed in finalising the outputs from the Aberdeen ICS, which has helped inform the surface water management plans and identify in detail key risk areas within these PVA where further study work is required. This has highlighted the following areas which need flood study works to be done: River Don flood study -Don to be modelled for the entire length within the city boundaries. Works has not	The delay in starting these has been due to resources being unavailable to begin the commissions of consultants and the completion of the Aberdeen Integrated Catchment study. Within year 2 of the FRM cycle the Aberdeen Integrated Catchment Study will be updated to allow for new developments and rainfall to be added. Within year 3 of the FRM all of the highlighted studies will be commissioned, with anticipated results by the end of 2019. These results will identify the flood risk and potential options and locations for works, with the exception of the River Don model which is unlikely to be

					<p>started on this.</p> <p>Glashieburn flood study - This is to understand the flood risk from the burn, with particular reference to Jesmond Drive &amp; Denmore Gardens. Work has not begun on this.</p> <p>Silver Burn flood study - This is to understand the flood risk from the burn, with particular reference to The Barracks and Broadford Drive. Work has not started on this.</p> <p>Far Burn flood study - This is to understand the flood risk from the burn, with reference to Farburn Terrace. Work has not yet started on this.</p>	completed until 2020.
<b>Surface water plan/study</b>	<b>A</b>	ACC are creating a surface water management plan (SWMP). The plan will assess all of the current data available with regard to flood risk from historical records of flooding, maintenance records and existing flood schemes.	Aberdeen City Council	2016 - 2018	<p>Aberdeen City Council defined 10 SWMP areas across the city. Each of these is being done on a risk-based approach, looking at the risk that surface water presents to the area. The plans look at data from various sources, including SEPA, historic data and the Aberdeen Integrated Catchment Study.</p> <p>Currently ACC has 2 members of staff designated full time on the production of these plans. Current status of the plans are as follows:</p> <p>Garthdee to Ferryhill – Not started</p> <p>Denburn Valley - Not started</p> <p>Northfield to Seaton – Not started</p> <p>Bridge of Don – Started</p> <p>Bucksburn – Not started</p> <p>Dyce – Completed and Approved</p>	By the end of 2019 all surface water management plans will be completed with actions identified. These actions will advise further investigation to works. They will identify time frames for the actions to be undertaken and within which FRM cycle they may take place. By 2020 all SWMPs will be published on the ACC website and available for view by the public. SWMPs will also form part of the revised Local Development Plan. Delays in producing the plans have been due to unavailability of resources and complexity of the surface water and integrated catchments in Aberdeen.

					Kingswells – Started Peterculter – Started Cults and Millside – Draft Complete Torry and Cove - Draft Complete.	
<b>Strategic mapping and modelling</b>	<b>G</b>	Scottish Water will undertake modelling of the Nigg and Persley sewer catchments.	Scottish Water	01/01/2016 - 31/12/2019	Complete.	Action Complete
<b>Maintain flood protection scheme*</b>	<b>G</b>	Aberdeen City Council will continue to maintain the Glashie Burn Flood Protection Scheme (attenuation pond and culverts) which reduce the risk of flooding to Lochside Drive from the Glashie Burn.	Aberdeen City Council	Ongoing	ACC have continued to maintain the Glashie Burn Flood Protection Scheme. We have undertaken a large vegetation clearance to ensure the scheme will continue to be effective. We monitor the vegetation growth	ACC will continue to monitor and maintain the scheme on a risk based approach
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national flood guidance statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties). Each daily statement gives an assessment of the risk of flooding for the next five days to help enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to	SEPA will continue to improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily flood guidance statements and flood alerts issued as required to enable communities and responders to reduce the impacts of flooding.

		time to put preparations in place to reduce the impact of flooding.			everyone and helps enable communities to be aware and prepared to reduce the impacts of flooding.	
<b>Property level protection scheme</b>	G	Creation of Property Level Protection Grant Scheme.	Aberdeen City Council	2016 - 2021	ACC are running a 50% grant funding scheme towards property level protection. This is now in year 3 of a 5 year scheme.	ACC to continue to promote the Flood Grant Scheme for the remaining two years of the funding.
<b>Self help</b>	G	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.	-	Ongoing	Aberdeen City Council have continued to promote its Property Level Flood Grant Scheme along with the use of Social media to inform of flood risk. ACC have also used social media to undertake awareness raising as part of our Winter Main campaign. ACC have worked with a local school to create water safety leaflet.	ACC are looking to install a network of local gauges to allow the community assess the risk from the small burns and water course which may affect their property
<b>Awareness raising</b>	G	Engagement with local community following a flood incident /	Responsible authority	Ongoing	Aberdeen City Council has continued to promote its Property Level Flood Grant Scheme along with the use of	Over the remaining years of the cycle, Aberdeen City Council will continue to work on raising awareness. Following the

		<p>historic issues. Initial community engagement with both Community Council and the wider community, exploring possible options regarding SEPA and Local Authority engagement. Community engagement presentation and appropriate advice – short term strategic development.</p>		<p>social media to inform of flood risk. We have also used social media to undertake awareness raising as part of our Winter Maintenance campaign. We have worked with a local school to create water safety leaflets.</p> <p>SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our</p>	<p>completion of the Surface Water Management Plans, targeted awareness raising within those areas of risk will be undertaken. We will also be working with SEPA on the launch of the Coastal Flood Warning System.</p> <p>SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.</p>
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					resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.	
<b>Maintenance</b>	<b>G</b>	ACC has a duty to assess designated water bodies and carry out clearance and repair works where such works would substantially reduce flood risk. ACC will produce schedules of clearance and repair works and make these available for public inspection	Aberdeen City Council, asset / land managers	Ongoing	ACC have reviewed the current data set of watercourses to define which are relevant and non-relevant to allow the desktop assessment of risk to be allocated. ACC have undertaken routine maintenance and inspection of hakes across the city.  ACC have undertaken clearance work to Lochside Detention pond.	Over the next 3 years ACC will be updating the GIS systems to show all relevant and non-relevant water bodies. Within year 4 of the cycle, the desktop risk allocation will be complete with the inspection process begun in years 5 and 6. This will be subject to resources being available.
<b>Emergency plans/response</b>	<b>G</b>	Aberdeen City Council will work with all CAT 1 and CAT 2 responders to deliver the emergency response plan for Aberdeen City. Providing an emergency response to flooding is the responsibility of many organisations, including local	Category 1 and 2 Responders	Ongoing	Aberdeen City Council working with the local resilience partnership has undertaken one exercise simulation looking at how key agencies would respond to a flooding incident, along with holding review meetings following the 2015/16 winter floods.	ACC continue to work with the LRP to ensure strong communication lines in emergency response and ensuring appropriate resource is made available.

		authorities, the emergency services and SEPA. Effective management of an emergency response relies on emergency plans that are prepared under the Civil Contingencies Act 2004 by Category 1 and 2 Responders. The emergency response by these organisations is coordinated through regional and local resilience partnerships.				
<b>Planning policies</b>	<b>G</b>	National planning policies set out Scottish Ministers' priorities for the operation of the planning system and for the development and use of land. In terms of flood risk management, the policy supports a catchment-scale approach to sustainable flood risk management and aims to build the resilience of our cities and towns, encourage	Planning Authority	Ongoing	ACC continue to work within the current planning policy framework ensuring the flood risk from all sources, except ground water, are considered thought the planning process and give appropriate comment on applications.	Over the next 2 years ACC will be updating its guidance to developers on the planning process and minimum requirements for planning applications to ensure that the planning process remains constant and in line with the NELFRP and Surface Water Management Plans.



		sustainable land management in our rural areas, and to address the long-term vulnerability of parts of our coasts and islands. Under this approach, development in areas with medium to high likelihood of flooding should be avoided.				
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## Westhill (Potentially Vulnerable Area 06/17)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council Aberdeen City Council	River Dee (Grampian)



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### Summary of Progress for Westhill

This Potentially Vulnerable Area is based around Westhill. It is approximately 20km<sup>2</sup>. The A944, B119, and the B979 pass through the area.

The main watercourse is the Ord Burn, which is a tributary of the River Dee.

There are approximately 90 residential and 10 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £77,000 with the majority caused by surface water flooding.

Further information can be found in NELFRMP under PVA 06/17.

[https://www.aberdeenshire.gov.uk/media/17350/pva-06\\_17-westhill.pdf](https://www.aberdeenshire.gov.uk/media/17350/pva-06_17-westhill.pdf)

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Westhill area.

## Overview of actions to manage flooding in Westhill

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/17						A	G			G			G	G	G		G	G

## Summary of progress of actions to manage flood risk in Westhill (PVA 06/17)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
<b>Surface water plan/study</b>	<b>A</b>	A study to prepare Surface Water Management Plan (SWMP) to generate increased understanding of the causes, probability and consequences of surface water flooding and to evaluate options for surface water flood management.	Aberdeenshire Council	2016 - 2021	Westhill flood areas to be mapped in coming weeks and flood areas from various sources reviewed to identify areas for further investigation for discussing with Scottish Water.	Peterhead and Aboyne areas are current priority areas for reviewing Surface Water Management Plans. With Inverurie and Kintore to follow in the coming months.
<b>Strategic mapping and modelling</b>	<b>G</b>	Scottish Water will undertake modelling of the Persley sewer catchment.	Scottish Water	01/01/2016 - 31/12/2019	Complete	Action Complete
<b>Flood</b>	<b>G</b>	The Scottish Flood	SEPA	Ongoing	SEPA has continued to	SEPA will continue and improve the

<b>forecasting</b>		Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.			operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.
<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit,	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	

		installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.				
<b>Awareness raising</b>	<b>G</b>	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

					<p>Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information. Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take.</p>	
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.

		inspection.				
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.  Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.
<b>Planning Policy</b>	<b>G</b>	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

## Deeside (Potentially Vulnerable Area 06/18)

Local Plan District	Local authority	Main catchment
North East	Aberdeen City Council	River Dee (Grampian) Aberdeen South Coastal



### Summary of Progress for Deeside

This Potentially Vulnerable Area includes the centre and west of the city of Aberdeen. It is approximately 75km<sup>2</sup> and includes the centre of Aberdeen City and several vital transport routes which pass through it.

The main river is the River Dee and there are also a number of small watercourses, most of which are culverted for all or part of their route through the city.

There are approximately 8,100 residential and 2,000 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £12 million with the majority caused by river flooding.

Further information can be found in NELFRMP under PVA 06/18.

[https://www.aberdeenshire.gov.uk/media/17362/pva-06\\_18-aberdeen-city-deeside.pdf](https://www.aberdeenshire.gov.uk/media/17362/pva-06_18-aberdeen-city-deeside.pdf)

Since the NELFRMP was published in May 2016, Aberdeen City Council has completed 2 flood studies into the flood risk at Footdee and Inchgarth Road. Surface Water Management Plans have been completed for Cults and Millside. Better understanding of the flood risk within the Merchant Quarter has been gained. A new flood warning alert has been introduced for Aberdeen Coastal area.



## Overview of actions to manage flooding in Aberdeen City – Deeside

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/18			G	A		A	G	G	G	G	G	A	G	G	G		G	G

## Summary of progress of actions to manage flood risk in Aberdeen City – Deeside

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
<b>New flood warning</b>	G	Flood warning is required for communities at risk of coastal flooding along the Aberdeenshire coast from Peterhead to Montrose. A flood warning system will be developed and implemented. The geographical extent of specific flood warning areas will be developed as part of this process.	SEPA	2017 - 2018	SEPA has completed development of a flood forecasting model for Aberdeenshire and Angus coastline and has worked with Aberdeen City Council to develop procedures for the new flood warning service. A new flood warning area has been introduced for Aberdeen Coastal area.	SEPA will continue to operate the flood warning service.
<b>Flood protection study - Footdee</b>	G	Aberdeen City Council will undertake a flood protection study in the	Aberdeen City Council	2019 -2021	The Footdee coastal study has been completed. The study looked at the risk of	Study to be reviewed as part of the wider beach project in 2019 to determine next stages of the project.

		Footdee area of Aberdeen to improve understanding of coastal flood risk, including wave overtopping.			wave overtopping within the area. The study has been issued to ACC for approval and is currently being reviewed.	
<b>Flood protection study - Deeside</b>	<b>A</b>	Aberdeen City Council will undertake flood protection studies across the City to address risk from rivers, small watercourses and surface water. Outputs from the Aberdeen Integrated Catchment Study will be considered.	Aberdeen City Council	2016 - 2018	At present, progress has been made on the delivery of the flood studies in detail within the Deeside PVA. Work has been completed in finalising the outputs from the Aberdeen ICS which has helped inform the surface water management plans and identify in detail key risk areas where further study work is required. Inchgarth Road flood study has been completed and the Riverside Drive Floodgate at Bridge of Dee has been built, following the completion of a local flood study. The following are the flood study areas which have also been identified to be completed: River Dee flood study - Dee to be modelled for the entire length within the city boundaries. Work has	The delay in starting these has been due to resources not being available to begin the commissions of consultants and the completion of the Aberdeen Integrated Catchment study. Within year 2 of the FRM cycle the Aberdeen Integrated Catchment study will be updated to allow for new developments and rainfall to be added. Within year 3 of the FRM all of the highlighted studies will be commissioned, with anticipated results by end of 2019. These results will identify the flood risk and potential options and locations for works, with the exception of the River Dee model which is unlikely to be completed until 2020.

					<p>not started on this.</p> <p>Cults Burn flood study - This is to understand the flood risk from the burn, with particular reference to Kirk Brae. Work has not begun on this.</p> <p>Ferryhill Burn flood study - This is to understand the flood risk from the burn, with particular reference to the Ferryhill area. Work has not yet started on this.</p> <p>Den Burn updated flood study - This is to understand the flood risk from the burn with reference to Merchant Quarter and Fountainhall Road. Work has not begun on this yet.</p>	
<b>Surface water plan/study</b>	A	Aberdeen City Council is developing a surface water management plan (SWMP) that addresses flood risk across the City. The plan will assess all of the current data available with regard to flood risk from historical records of flooding/maintenance and existing flood schemes.	Aberdeen City Council	2016 - 2018	<p>Aberdeen City Council defined 10 surface water plan areas across the city. Each of these is being done on a risk-based approach, looking at the risk that surface water presents to the area. The plans look at data from various sources, including SEPA, historic data and the Aberdeen Integrated Catchment study.</p> <p>Currently ACC has 2</p>	By the end of 2019 all surface water management plans will be completed with actions identified. These actions will advise further investigation to works. They will identify time frames for the actions to be undertaken and within which FRM cycle they may take place. By 2020 all SWMP will be published on the ACC website and available for view by the public. SWMPs will also form part of the revised Local Development Plan. Delays in producing the plans have been due to unavailability of resources and the complexity of the surface water

					members of staff designated full time on the production of these plans. Current status of the plans are as follows: Garthdee to Ferryhill – Not started Denburn Valley -Not started Northfield to Seaton – Not started Bridge of Don – Started Bucksburn – Not started Dyce – Completed and Approved Kingswells – Started Peterculter – started Cults and Millside – Draft Complete Torry and Cove - Draft Complete.	and integrated catchments in Aberdeen.
<b>Strategic mapping and modelling</b>	G	Scottish Water will undertake modelling of the Persley sewer catchment.	Scottish Water	01/01/2016 - 31/12/2019	Complete	Action Complete
<b>Maintain flood protection scheme</b>	G	Aberdeen City Council will maintain the Fraser Road Flood Protection Scheme which reduces the risk of flooding from the Gilcomston Burn, Stronsay Park Flood Protection works which prevent flooding from the Den Burn and the	Aberdeen City Council	Ongoing	ACC have continued to maintain the Fraser Place Flood Protection Scheme and undertaken clearance works when required.	ACC will continue to monitor and maintain the scheme on a risk-based approach.

		beach revetments.				
<b>Maintain flood warning</b>	G	SEPA will continue to maintain the 'Aberdeen (Dee)' and 'Maryculter' flood warning areas which are part of the Dee river flood warning scheme.	SEPA	Ongoing	SEPA has continued to operate the flood warning service.	SEPA will continue to operate the flood warning service.
<b>Flood forecasting</b>	G	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national flood guidance statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties). Each daily statement gives an assessment of the risk of flooding for the next five days to help enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and helps enable communities to be aware and prepared to reduce the impacts of flooding.	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily flood guidance statements and flood alerts issued as required to enable communities and responders to reduce the impacts of flooding.
<b>Property level</b>	G	Creation of Property	ACC		ACC are running a 50%	ACC to continue to promote the Flood

<b>protection scheme</b>		Level Grant Scheme.			grant funding scheme towards property level protection. This is now in year 3 of a 5 year scheme.	Grant Scheme for the remaining two years of the funding.
<b>Community flood action groups</b>	A	Aberdeen City Council will create flood action groups in the Merchant Quarter and in the Eday Court and Summerhill areas of Aberdeen.		Ongoing	Within the first 2 years of the cycle no progress has been made on the creation of flood action groups for the Merchant Quarter and in the Queens Cross / Fountainhall area of Aberdeen. Work has been progressing in understanding the extent of the flood risk within the Merchant Quarter.	Over years 3 and 4 of the cycle further understanding of the flood risk is to be gained so that the appropriate group locations can be set up. These will be based on the results of the flood modelling undertaken as part of the Merchant Quarter scheme and the Den Burn Flood study.
<b>Self help</b>	G	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties	-	Ongoing	Aberdeen City Council have continued to promote its Property Level Flood Grant Scheme along with the use of Social media to inform of flood risk. ACC have also used social media to undertake awareness raising as part of our Winter Main campaign. ACC have worked with a local school to create water safety leaflet.	ACC are looking to install a network of local gauges to allow the community assess the risk from the small burns and water course which may affect their property

		and businesses are insured against flood damage. ACC will be promoting self-help through work with the community. This will include the creation of a Flood Guard Grant Scheme to assist people with putting in Property Level Protection.				
<b>Awareness raising</b>	<b>G</b>	ACC will be undertaking a number of community events to promote awareness of the risk of flooding and what can be done to reduce the impact of flooding. As part of this we will be looking to create flood action groups and community resilience groups with regard to flooding. These groups will help promote the risk that flooding presents as well as provide practical advice to the community they serve.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for	Over the remaining years of the cycle, Aberdeen City Council will continue to work on raising awareness. Following the completion of the Surface Water Management Plans we can target awareness raising within those areas of risk. We will also be working with SEPA on the launch of the Coastal Flood Warning system and supporting all incentive around the Flood Warning System.  ACC are also looking to install a network of local gauges to allow the community to assess the risk from the small burns and watercourses which may affect their property.

					<p>Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.</p> <p>Aberdeen City Council have continued to promote it's Property Level Flood Grant Scheme along with the use of social media to inform of flood risk. We have also used social media to</p>	
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					undertake awareness raising as part of our Winter Maintenance campaign. We have worked with a local school to create a water safety leaflet.	
<b>Maintenance</b>	<b>G</b>	ACC has a duty to assess designated water bodies and carry out clearance and repair works where such works would substantially reduce flood risk. ACC will produce schedules of clearance and repair works and make these available for public inspection.	Aberdeen City Council, asset / land managers	Ongoing	ACC have reviewed the current data set from watercourses to define which are relevant and non-relevant to allow the desktop assessment of risk to be allocated. ACC have undertaken routine maintenance and inspection of hakes across the city.	Over the next 3 years, ACC will be updating the GIS systems to show all relevant and non-relevant water bodies. Within the year 4 of the cycle, the desktop risk allocation will be complete with the inspection process beginning in years 5 and 6. This will be subject to resources being available.
<b>Emergency plans/response</b>	<b>G</b>	Aberdeen City Council will work with all CAT 1 and CAT 2 responders to deliver the emergency response plan for Aberdeen City. Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA. Effective management of an	Category 1 and 2 Responders	Ongoing	Aberdeen City Council working with the local resilience partnership has undertaken one exercise simulation looking at how key agencies would respond to a flooding incident, along with holding review meetings following the 2015/16 winter floods.	ACC continue to work with the LRP to ensure strong communication lines in emergency response and ensuring appropriate resource is made available.

		emergency response relies on emergency plans that are prepared under the Civil Contingencies Act 2004 by Category 1 and 2 Responders. The emergency response by these organisations is coordinated through regional and local resilience partnerships.				
<b>Planning policies</b>	<b>G</b>	National planning policies set out Scottish Ministers' priorities for the operation of the planning system and for the development and use of land. In terms of flood risk management, the policy supports a catchment-scale approach to sustainable flood risk management and aims to build the resilience of our cities and towns, encourage sustainable land management in our rural areas, and to address the long-term vulnerability of parts of our coasts and islands. Under this approach, development in areas	Planning Authority	Ongoing	ACC continue to work within the current planning policy framework ensuring the flood risk from all sources, except ground water, are considered thought the planning process and give appropriate comment on applications.	Over the next 2 years ACC will be updating its guidance to developers on the planning process and minimum requirements for planning applications to ensure that the planning process remains constant and in line with the NELFRP and Surface Water Management Plans.

		with medium to high likelihood of flooding should be avoided.				
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## Peterculter (Potentially Vulnerable Area 06/19)

Local Plan District	Local authority	Main catchment
North East	Aberdeen City Council	River Dee (Grampian)



### Summary of Progress for North of Peterculter

This Potentially Vulnerable Area covers the west of Peterculter and is approximately 4km<sup>2</sup>. The A93, North Deeside road, passes through the area.

The main river is the Culter Burn which flows through the south west of Peterculter before discharging into the River Dee.

There are approximately 380 residential properties and 20 non-residential properties at risk of flooding. The Annual Average Damages are approximately £300,000. Further information can be found in the LFRMP under PVA 06/19.

[https://www.aberdeenshire.gov.uk/media/17354/pva-06\\_19-peterculter.pdf](https://www.aberdeenshire.gov.uk/media/17354/pva-06_19-peterculter.pdf)

Since the NELFRMP was published in May 2016, key progress has been made on the creation of a flood model for the Paddock and Millside areas of Peterculter.

## Overview of actions to manage flooding in Peterculter

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/19	A				G	A	G			G	G		G	G	G		G	G

## Summary of progress of actions to manage flood risk in Peterculter

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned date	Interim progress	Planned actions to complete
<b>Flood protections scheme/works</b>	A	Aberdeen City Council will develop and implement flood protection works in Peterculter to reduce flood risk from the Culter Burn. Focus will be on Millside Street, Millside Road, Millside Terrace and The Paddock.	Aberdeen City Council	01/05/2016 - 31/12/2018	The flood study for Peterculter has been progressing. The hydraulic model has been constructed, the river flows have been agreed with sepa and model runs have been completed. The results from initial model runs are currently inconstant with the photographic evidence we have within the Paddock area. ACC are working with the consultants to understand and resolve this	ACC within year 3 of the cycle will install flow gauges to help verify the model outputs. In Yr 4 the model runs and Feasibility report will be completed. In year 5 detailed design and FPO will be completed. In yr 6 we will be on site
<b>Natural flood management</b>	G	Aberdeen City Council will	Aberdeen City Council	01/01/2017 - 31/12/2021	No Progress has been made with regards to the NFM study on the	Following the completion of the Peterculter Flood study a review of

<b>study</b>		undertake a natural flood management study on the Gormack and Leuchar Burns to reduce flood risk in Peterculter. This will be done in partnership with the Dee Catchment Partnership and Aberdeenshire Council.			Leuacher and Gormach burns.	the outputs of this will formulate a plan for a more detail study with regard to NFM on the Feeder Burns. Along with the AWPR there has been a number of changes to the feeders burns within this catchment which all need to be included into the NFM study.  The study will be commissioned in yr 4 of the cycle
<b>Surface water plan/study</b>	A	Aberdeen City Council is developing a surface water management plan (SWMP) that addresses flood risk across the City. Outputs from the Aberdeen Integrated Catchment Study will inform the SWMP.	ACC	01/07/2016 - 31/12/2018	Aberdeen city council defined 10 surface water plan areas across the city. Each of these is being done on a risk based approach looking at the risk that surface water presents to the area. The plans look at data from various source including SEPA/Historic and the Aberdeen Integrated Catchment study. Currently ACC has 2 members of staff designated full time on the production of these plans. Current status of the plans are as follows:- Garthdee to Ferryhill – Not started Denburn Valley -Not started Northfield to Seaton – Not started Bridge of Don – Started  Bucksburn – Not started Dyce – Completed and Approved Kingswells – Started	By the end of 2019 all surface water management plans will be completed with actions identified. These actions will over further investigation to works. They will identify time frames for the actions to be undertaken and within which FRM cycle they may take place. By 2020 ALL SWMP will be published on the ACC website and available for view but the public. SWMP will also form part of the revised Local Development Plan. Delays in producing the plans have been due to availability of resources and complexity of the surface water and integrated catchments in Aberdeen,

					Peterculter – started Cults and Millside – Draft Complete Torry and Cove - Draft Complete	
<b>Strategic mapping and modelling</b>	G	Scottish Water will undertake modelling of the Nigg sewer catchment.	Scottish Water	01/01/2016 - 31/12/2019	Complete	Action Complete
<b>Flood forecasting</b>	G	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national flood guidance statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties). Each daily statement gives an assessment of the risk of flooding for the next five days to help enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and helps enable communities to be aware and prepared to reduce the impacts of flooding.	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public
<b>Property level protection</b>	G		Aberdeen City Council	2016 - 2021	ACC are running a 50% grant funding scheme towards property	ACC to continue to promote the Flood grant scheme for the

<b>scheme</b>					level protection this is now in year 3 of a 5 year scheme	reminder two years of the funding
<b>Self help</b>	G	ACC will be promoting self-help through work with the community. This will include the creation of a Flood Guard Grant Scheme to assist people with putting in Property Level Protection.	-	Ongoing	Aberdeen City Council have continued to promote its Property Level Flood Grant Scheme along with the use of Social media to inform of flood risk. ACC have also used social media to undertake awareness raising as part of our Winter Main campaign. ACC have worked with a local school to create water safety leaflet.	ACC are looking to install a network of local gauges to allow the community assess the risk from the small burns and water course which may affect their property
<b>Awareness raising</b>	G	Engagement with local community following a flood incident / historic issues. Initial Community engagement with both Community Council and the wider community, exploring possible options regarding SEPA and Local Authority engagement. Community engagement presentation and appropriate advice – short term strategic development	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.



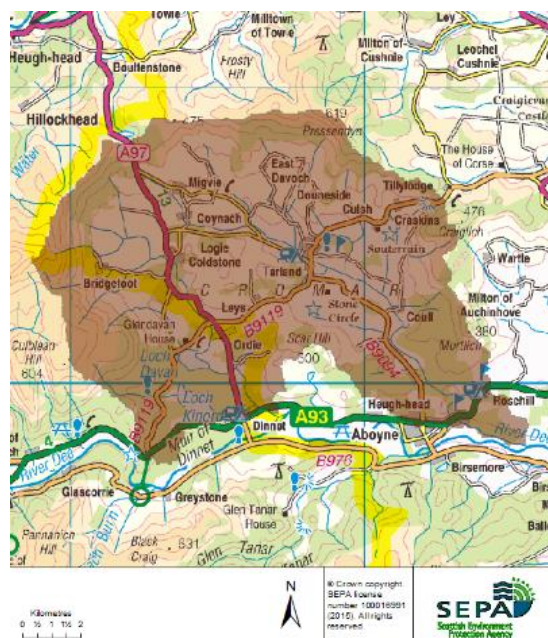
					issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.	
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeen City Council will produce schedules of clearance and repair works and make these available for public inspection.	Aberdeen City Council, asset / land managers	Ongoing	ACC have review the current data set of watercourse to define which are relevant and non relevant to allow the desktop assessment of risk to be allocated. ACC have undertaken routine maintenance and inspection of Hakes across the city.	ACC over the next 3 years will be updating our GIS systems to show all relevant and non relevant water bodies. Within the year 4 of the cycle the desktop risk allocation will be complete with the inspection process begun in years 5 and 6. This will be subject to resource being available
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency	Category 1 and 2	Ongoing	Aberdeen City Council working with Local resilience partnership	ACC continue to work with the LRP to ensure strong communications

		response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Responders		has undertaken one exercise simulation looking at how key agencies would respond to a flooding incident along with holding review meetings following the 2015/16 winter floods.	lines in emergency response and ensuring appropriate resource is made available.
<b>Planning policies</b>	G	As a consultee on planning applications, Aberdeen City Council's Flood Risk team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	<p>ACC continue to work within the current planning policy framework ensuring the flood risk from all source except ground water were considered thought the planning process and give appropriate comment on applications.</p> <p>SEPA exercises its planning functions with a view to reducing overall flood risk. We effectively contribute to the delivery of sustainable flood risk management and we support the delivery of FRM Strategies and local FRM Plans. In line with the management actions that accord with national planning policies we will object to development at medium to high risk of flooding when it is contrary to the risk framework set out in Scottish Planning Policy. We will also continue to engage at the offset of the development plan process and encourage planning authorities to undertake a Strategic</p>	ACC over the next 2 years will be updating its guidance to developers on the planning process and minimum requirements for planning applications to ensure that the planning process remains constant and in line with the NELFRP and Surface Water Management plans

					Flood Risk Assessment to inform their spatial strategy.	
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## Aboyne (Potentially Vulnerable Area 06/20)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Dee (Grampian)



### Summary of Progress for Aboyne

This Potentially Vulnerable Area includes Tarland and Logie Coldstone, as well as the northern part of the town of Aboyne. It is approximately 125km<sup>2</sup> and located on the eastern edge of the Cairngorms National Park. The A93 and the A97 pass through the area.

The River Dee flows just to the south of the Potentially Vulnerable Area. Several tributaries of the Dee including the Tarland Burn flow through the area.

There are approximately 60 residential and 20 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £240,000 with the majority from river flooding.

Further information can be found in NELFRMP under PVA 06/20.

[https://www.aberdeenshire.gov.uk/media/17361/pva-06\\_20-aboyne.pdf](https://www.aberdeenshire.gov.uk/media/17361/pva-06_20-aboyne.pdf)

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Aboyne area

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## Overview of actions to manage flooding in Aboyne

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/20						A	G		G	G			G	G	G		G	G

## Summary of progress of actions to manage flood risk in Aboyne (PVA 06/20)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
<b>Surface water plan/study</b>	<b>A</b>	A study to prepare Surface Water Management Plan (SWMP) to generate increased understanding of the causes, probability and consequences of surface water flooding and to evaluate options for surface water flood management.	Aberdeenshire Council	2018 - 2019	Aboyne flood areas to be mapped in coming weeks and flood areas from various sources reviewed to identify areas for further investigation for discussing with Scottish Water.	Peterhead and Aboyne areas are current priority areas for reviewing Surface Water Management (Early 2019).
<b>Strategic</b>	<b>G</b>	Scottish Water will	Scottish Water	01/01/2016 -	<b>Complete</b>	Action Complete

<b>mapping and modelling</b>		undertake modelling of the Aboyne sewer catchment.		31/12/2017		
<b>Maintain flood warning</b>	<b>G</b>	SEPA will continue to maintain the 'Aboyne' flood warning area which is part of the Dee river flood warning scheme.	SEPA	Ongoing	SEPA has continued to operate the flood warning service	SEPA will continue to operate the flood warning service
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national flood guidance statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties). Each daily statement gives an assessment of the risk of flooding for the next five days to help enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and helps enable communities to be aware and prepared to reduce the impacts of flooding.	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily flood guidance statements and flood alerts issued as required to enable communities and responders to reduce the impacts of flooding.
<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag	

		property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.			containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	
<b>Awareness raising</b>	<b>G</b>	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

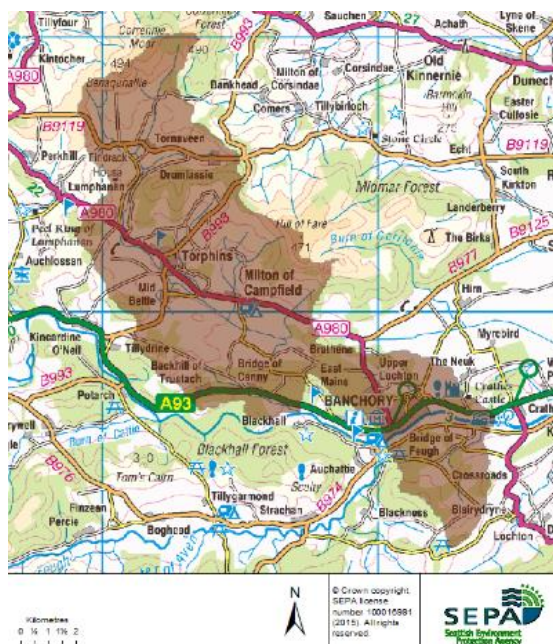
					<p>Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.</p> <p>Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take.</p>	
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry	Aberdeenshire Council, asset / land	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any



		out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	managers		and repair as assessments take place.	clearance and repair work. Information available publically.
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.  Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required
<b>Planning Policy</b>	<b>G</b>	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging <b>Cairngorms National Park Plan 2020</b> ??? maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water

## Banchory and Torphins (Potentially Vulnerable Area 06/21)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Dee (Grampian)



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### Summary of Progress for Banchory and Torphins

This Potentially Vulnerable Area is based around Banchory and Torphins. It is approximately 97km<sup>2</sup>. The A93 and A980 pass through the area.

The main rivers are the River Dee and its tributaries, the Burn of Canny and the Beltie Burn.

There are approximately 30 residential and 50 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £200,000 with the majority due to surface water flooding.

Further information can be found in NELFRMP under PV06/21.

[https://www.aberdeenshire.gov.uk/media/17356/pva-06\\_21-banchory-and-torphins.pdf](https://www.aberdeenshire.gov.uk/media/17356/pva-06_21-banchory-and-torphins.pdf)

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Banchory and Torphins area.

## Overview of actions to manage flooding in Banchory and Torphins

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/21							G		G	G			G	G	G		G	G

## Summary of progress of actions to manage flood risk in Banchory and Torphins (PVA 06/21)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Panned Date	Interim progress	Planned actions to complete
<b>Strategic mapping and modelling</b>	<b>G</b>	Scottish Water will undertake modelling of the Banchory and Torphins sewer catchment.	Scottish Water	01/01/2016 - 31/12/2019	<b>Banchory - Started Torphins- Complete</b>	On track to deliver within agreed LFRMP timescales
<b>Maintain flood warning</b>	<b>G</b>	SEPA will continue to maintain the 'Banchory' flood warning area which is part of the Dee river flood warning scheme.	SEPA	Ongoing	<b>SEPA has continued to operate the flood warning service</b>	SEPA will continue to operate the flood warning service .
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to	SEPA	Ongoing	<b>SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office</b>	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily Flood Guidance Statements and regional Flood Alerts issued as required to enable communities and

		Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.			with daily, national Flood Guidance Statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties) and regional Flood Alerts issued to the public. Each daily statement gives an assessment of the risk of flooding for the next five days to enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and enables communities to be aware and prepared to reduce the impacts of flooding.	responders to reduce the impacts of flooding. SEPA is currently exploring options to develop a public version of the daily Flood Guidance Statement to provide better and earlier information to the public.
<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their property flooding. Property and	-	Ongoing	Aberdeenshire Council continue to	

		business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.			make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	
<b>Awareness raising</b>	<b>G</b>	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

					<p>audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of</p>	
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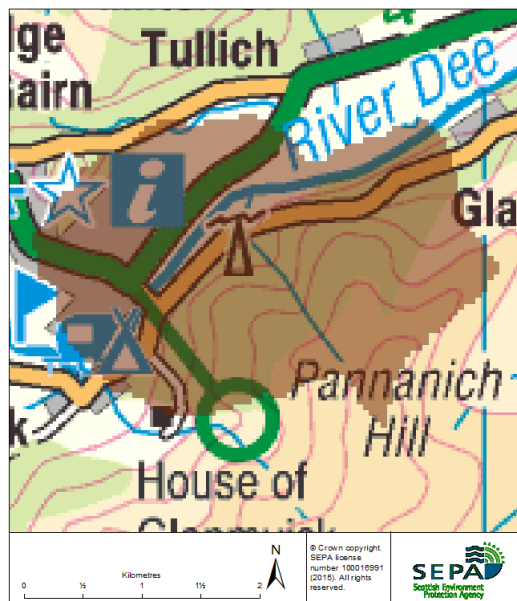
					<p>how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.</p> <p>Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take.</p>	
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically.
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the responsibility of many organisations, including local	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.	Grampian Emergency Planning Unit's emergency plan is reviewed and updated when required.

		authorities, the emergency services and SEPA.			Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	
<b>Planning Policy</b>	<b>G</b>	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water



## Ballater (Potentially Vulnerable Area 06/22)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	River Dee (Grampian)



### Summary of Progress for Ballater

This Potentially Vulnerable Area is based around Ballater and is approximately 7km<sup>2</sup>. The area is located within the Cairngorms National Park and the A93 passes through it. The main river is the River Dee, which is a Special Area of Conservation for salmon, otters and freshwater pearl mussels.

There are approximately 200 residential and 40 non-residential properties at risk of flooding. The Annual Average Damages are approximately £230,000. Almost all the damages are caused by river flooding. Further information can be found in NELFRMP under 06/22.

[https://www.aberdeenshire.gov.uk/media/17359/pva-06\\_22-ballater.pdf](https://www.aberdeenshire.gov.uk/media/17359/pva-06_22-ballater.pdf)

Since the NELFRMP was published in May 2016, nothing has significantly changed from a flood risk perspective in the Ballater area. However work has begun on the Ballater Flood Study and preferred option(s) for flood protection should be identified by Autumn 2019, for Scottish Government prioritisation.

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## Overview of actions to manage flooding in Ballater

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/22				G			G		G	G		G	G	G	G		G	G

## Summary of progress of actions to manage flood risk in Ballater (PVA 06/22)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
<b>Flood protection study</b>	<b>G</b>	A flood protection study is required to consider flood protection works to reduce the risk of flooding in Ballater from the River Dee. The flood protection study should primarily focus on direct defences, relocation of properties and property level protection, but other actions may also be considered in order to develop the most	Aberdeenshire Council	2017 - 2019	Stakeholder and public engagement 2 - Winter 2018	Project completion - Spring 2019

		sustainable range of options.				
<b>Strategic mapping and modelling</b>	<b>G</b>	Scottish Water will undertake modelling of the Ballater sewer catchment.	Scottish Water	01/01/2016 - 31/12/2017	Complete	Action Complete
<b>Maintain flood warning</b>	<b>G</b>	SEPA will continue to maintain the 'Ballater' flood warning area which is part of the Dee river flood warning scheme	SEPA	Ongoing	SEPA has continued to operate the flood warning service	SEPA will continue to operate the flood warning service
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national flood guidance statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties). Each daily statement gives an assessment of the risk of flooding for the next five days to help enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to everyone and helps enable communities to be aware and prepared to reduce the impacts of flooding.	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily flood guidance statements and flood alerts issued as required to enable communities and responders to reduce the impacts of flooding.
<b>Community flood action groups</b>	<b>G</b>	Aberdeenshire Council will work with the Ballater Flood Resilience Group to reduce flood	Community	Ongoing	SEPA continues to assist the Ballater flood action group as appropriate.  Aberdeenshire Council will	

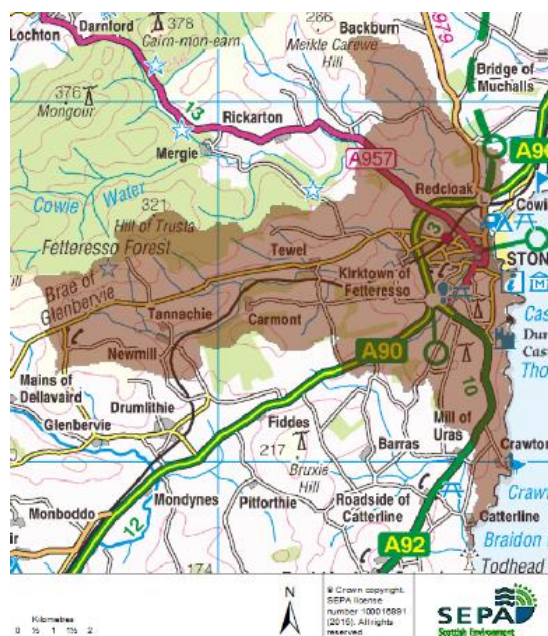
		risk, improve preparedness and increase resilience against flooding.			coordinate with the Group throughout this first 6 year cycle on a priority needs basis where resources allow.	
<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	
<b>Awareness raising</b>	<b>G</b>	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway

		flooding.			<p>an electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.</p> <p>Ongoing liaison with community councils on resilience. Aberdeenshire Council advise householders directly on property level protection products and actions they can take.</p>	will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry	Aberdeenshire Council, asset / land	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as	Aberdeenshire Council will continue with its routine watercourse inspections and

		out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	managers		assessments take place.	schedule any clearance and repair work. Information available publically
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA.	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.  Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies
<b>Planning Policy</b>	<b>G</b>	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging <b>Cairngorms National Park Plan 2020 ???</b> maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.

## Stonehaven (Potentially Vulnerable Area 06/23)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council	Kincardine and Angus coastal



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### Summary of Progress for Stonehaven

This Potentially Vulnerable Area covers Stonehaven and the surrounding rural area. It is approximately 68km<sup>2</sup>. The Aberdeen to Dundee railway line, and the A90, A957 and A92 pass through the area.

The main rivers in the area are Carron and the Cowie. Stonehaven has suffered from major flooding in recent years from the River Carron and from the sea.

There are approximately 860 residential and 240 non-residential properties at risk of flooding.

The Annual Average Damages are approximately £890,000, with the majority due to river flooding. Further information can be found in NELFRMP under PVA 06/23.

[https://www.aberdeenshire.gov.uk/media/17363/pva-06\\_23-stonehaven.pdf](https://www.aberdeenshire.gov.uk/media/17363/pva-06_23-stonehaven.pdf)

Since the NELFRMP was published in May 2016, a Public Hearing was held into the Stonehaven Flood Protection Scheme in March 2017. The report on the Hearing was then considered by the Infrastructure Services Committee of the Council on 1 June 2017 when the Committee decided to approve the Scheme as modified. Tenders were invited for the project in June 2018 with construction estimated to commence in late autumn/winter 2018. Work has also begun on the Stonehaven Coastal Flood Study and preferred option(s) for flood protection should be identified by Autumn 2019, for Scottish Government prioritisation. SEPA has completed development of a coastal flood forecasting model for Aberdeenshire and Angus coastline and has worked with Aberdeenshire Council to develop procedures for the new flood warning service. New flood warning areas have been introduced for Stonehaven Coastal area.

## Overview of actions to manage flooding in Stonehaven

PVA	Flood protections scheme/works	Natural flood management works	New flood warning	Flood protection study	Natural flood management study	Surface water plan/study	Strategic mapping and modelling	Maintain flood protection scheme*	Maintain flood warning	Flood forecasting	Property level protection scheme	Community flood action groups	Self help	Awareness raising	Maintenance	Site protection plans	Emergency plans/response	Planning policies
06/23	A		G	G		A	G	G	A	G		G	G	G	G		G	G

## Summary of progress of actions to manage flood risk in Stonehaven (PVA 06/23)

Action	Status (Red; Amber; Green)	Description	Delivery Lead	Planned Dates	Interim progress	Planned actions to complete
<b>Flood protections scheme/works</b>	<b>A</b>	Flood Protection Scheme includes: – Direct flood defences on both banks of the River Carron and Glaslaw Burn – Modifications to the channel – Raising of the White and Red Bridges – Raising and relocation of the Green Bridge – Culvert replacement – Provision of pumping stations	Aberdeenshire Council	2016 - 2019	Aberdeenshire Council have now appointed a contractor to begin work on the Stonehaven Flood Protection Scheme.	Work is due begin on site in the early 2019 with an expected duration of 24 months.



		– Infilling of the parapets on Bridgefield Bridge				
<b>New Flood Warning</b>	<b>G</b>	A flood warning system will be developed and implemented.	SEPA	2017 - 2018	SEPA has completed development of a coastal flood forecasting model for Aberdeenshire and Angus coastline and has worked with Aberdeenshire Council to develop procedures for the new flood warning service. New flood warning areas have been introduced for Stonehaven Coastal area.	SEPA will continue to operate the flood warning service
<b>Flood protection study</b>	<b>G</b>	To evaluate options to reduce the risk of flooding in Stonehaven from coastal flooding.	Aberdeenshire Council	2016- 2019	Topographic and structural surveys complete Summer 2018. Modelling and analysis - Autumn 2018 Outline engineering	Project completion – Autumn 2019

					design - Winter 2018 Stakeholder and public engagement 1  - Winter 2018/19 Options appraisal - Spring 2019 Stakeholder and public engagement 2 - Spring 2019	
<b>Surface water plan/study</b>	<b>A</b>	A study to prepare Surface Water Management Plan (SWMP) to generate increased understanding of the causes, probability and consequences of surface water flooding and to evaluate options for surface water flood management.	Aberdeenshire Council	2016 -2021	Stonehaven flood areas to be mapped in coming weeks and flood areas from various sources reviewed to identify areas for further investigation for discussing with Scottish Water.	Peterhead and Aboyne areas are current priority areas for reviewing Surface Water Management Plans. With Stonehavento follow in the coming months.
<b>Strategic mapping and modelling</b>	<b>G</b>	Scottish Water will undertake modelling of the Cowie sewer catchment.	Scottish Water	01/01/2016 - 31/12/2018	Complete	Action Complete
<b>Maintain flood protection scheme*</b>	<b>A</b>	Assuming the Stonehaven Flood Protection Scheme is completed within the first six-year plan cycle 2016-2022, the following maintenance measures will be undertaken: – Hydraulic Flood Walls - Pressure testing / operation – Walls Surface finishes - Repointing / re-facing – Rock Armour -	Aberdeenshire Council	2019 onwards	Maintenance will begin once the scheme is complete	

		Replacement when required				
<b>Maintain flood warning</b>	<b>G</b>	SEPA will continue to maintain the 'Stonehaven' flood warning area which is on the Carron Water and is part of the Stonehaven river flood warning scheme.	SEPA	Ongoing	SEPA has continued to operate the flood warning service	SEPA will continue to operate the flood warning service
<b>Flood forecasting</b>	<b>G</b>	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The flood guidance statements provide an assessment of the risk of flooding for a five day period allowing responders time to put preparations in place to reduce the impact of flooding.	SEPA	Ongoing	SEPA has continued to operate the Scottish Flood Forecasting Service (SFFS) Partnership with the Met Office with daily, national flood guidance statements issued to Category 1 and 2 agencies (such as emergency responders, local authorities and other organisations with flooding management duties). Each daily statement gives an assessment of the risk of flooding for the next five days to help enable these organisations to put preparations in place to reduce the impact of flooding. SEPA's Flood Alert service is freely available to	SEPA will continue and improve the Scottish Flood Forecasting Service (SFFS) with the Met Office, with daily flood guidance statements and flood alerts issued as required to enable communities and responders to reduce the impacts of flooding.

					everyone and helps enable communities to be aware and prepared to reduce the impacts of flooding.	
<b>Community flood action groups</b>	<b>G</b>	Stonehaven Flood Action Group represent the local community on flood risk issues and have been involved in working with Aberdeenshire Council and SEPA in seeking and implementing solutions to flood risk. Aberdeenshire Council will work with the Stonehaven Flood Action Group to reduce flood risk, improve preparedness and increase resilience against flooding.	Community	Ongoing	<p>SEPA continues to engage with the Stonehaven Flood Action Group.</p> <p>Aberdeenshire Council will engage with the Group throughout this first 6 year cycle on a priority needs basis where resources allow.</p> <p>The Stonehaven Volunteer Flood Wardens inform residents in the Flood Risk Area about protecting their properties from flooding and warn residents when Aberdeenshire Council Staff believe that there is a serious risk of flooding from the River Carron. The Council provides PPE and some logistical support.</p>	<p>Further engagement will be welcomed by the Flood Action Group especially during the construction phase of the Stonehaven Flood Protection Scheme. The Flood Action Group hope that advance information can be provided by the Council for dissemination to members and continued coordination with the group in order to inform and reassure residents.</p> <p>The Flood Action Group has appreciated the monthly progress reports provided by the Council (on the coastal flood study) and the open communication and engagement with Council and SEPA staff; and trusts that this engagement with the Flood Action Group as a stakeholder will continue.</p>

<b>Self help</b>	<b>G</b>	Everyone is responsible for protecting themselves and their property flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage.	-	Ongoing	Aberdeenshire Council continue to make PLP products available at cost price. New sandbag containers installed across the Aberdeenshire at flood prone locations for public to help themselves to in times of flooding.	
<b>Awareness raising</b>	<b>G</b>	Over the six years of the Plan, 2016-2022, Aberdeenshire Council will seek opportunities to raise awareness of both flood risk and actions that enable individuals, homes and businesses to reduce the overall impact of flooding.	Responsible Authorities	Ongoing	SEPA has delivered a range of awareness raising activities through campaigning, education activities and partnership delivery. We have run national and local digital and direct engagement campaigns to raise awareness of flood risk and SEPA's flood warning service, Floodline. We publish and publicise an	SEPA will continue to raise awareness of flood risk through campaigning, developing education and engagement tools, creating new partnerships and improving the flood warning and forecasting service. Many of our awareness raising activities currently underway will continue. Our focus will be on promoting flood warning and forecasting service, innovation, education and engagement with partners, customers and the public.

					<p>electronic newsletter (Flooding Gateway) four times a year which is distributed to a wide audience. We are working with Education Scotland and Scottish Government Resilience team to embed flooding awareness within the Curriculum for Excellence, and resilience partners in Safer Communities programmes. We have also developed an online tool that helps everyone share information on current flooding issues (Report-a-Flood). We have worked in partnership with local authorities, emergency services and community organisations (e.g. Neighbourhood Watch Scotland, Citizens Advice Scotland and others) to share our resources and help to promote</p>	
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					<p>preparedness and understanding of how we manage flood risk in Scotland. We have actively supported the Scottish Flood Forum and worked closely with UK agencies to develop joint flooding information.</p> <p>Ongoing liaison with community councils on resilience.</p> <p>Aberdeenshire Council advise householders directly on property level protection products and actions they can take.</p>	
<b>Maintenance</b>	<b>G</b>	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. Aberdeenshire Council will produce schedules of clearance and repair works and make these available for public inspection.	Aberdeenshire Council, asset / land managers	Ongoing	Publicly accessible page available on website, updated nightly, showing schedules of clearance and repair as assessments take place.	Aberdeenshire Council will continue with its routine watercourse inspections and schedule any clearance and repair work. Information available publically
<b>Emergency plans/response</b>	<b>G</b>	Providing an emergency response to flooding is the responsibility of many	Category 1 and 2 Responders	Ongoing	SEPA continues to support emergency planning.	Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies

		organisations, including local authorities, the emergency services and SEPA.			Grampian Emergency Planning Unit have in place and maintain Emergency Plans for all contingencies	
<b>Planning Policy</b>	<b>G</b>	As a consultee on planning applications, Aberdeenshire Council's Flood & Coast Protection team will work directly with colleagues in the Planning Service to ensure that appropriate policies and measures are put in place to reduce flood risk.	Planning Authority	Ongoing	Aberdeenshire Council and SEPA continues to advise on planning applications.	Continue to consider flood risk when determining planning applications. Ensure final version of emerging 2021 Aberdeenshire Local Development Plan maintains robust policy to avoid new development in areas that are at risk of flooding or would increase flood risk elsewhere, and encourages the most sustainable approach to managing surface water.



## 8. Other actions

This section sets out details of additional significant actions undertaken in the LPD by local authorities to contribute to the implementation of the current actions in the plan and the achievement of the objectives in the plan.

### **Other flood risk activities by local authorities in the North East Local Plan District**

The Plan presents the actions to manage flood risk in The North East Local Plan District. These actions are at a LPD-wide scale or are targeted at specific PVA. In addition to the actions in this Plan, responsible authorities are undertaking other activities to manage flood risk. There are activities included in the Flood Risk Management (Scotland) Act 2009 that are undertaken by each local authority in the LPD. The main activities that have a significant effect and should be considered in conjunction with the Plan are summarised as follows:-

#### **Section 18 & 59: Works of Clearance and Repair**

Based on an assessment of the condition of a body of water, local authorities must prepare a schedule of clearance and repair works that would substantially reduce the risk of flooding of land. This is commonly referred to as a Schedule 18, which is made available by each local authority within the LPD for public inspection. Under Section 59 of the Act, the local authority must carry out the works in the Schedule 18 if it considers that this will contribute to the implementation of actions in the Plan, but that these works will not affect the implementation of actions in this Plan. Further information on progress with these actions can be provided by contacting the relevant local authority.

#### **Section 56: General Power to manage flood risk**

Without affecting the implementation of actions in this Plan, a local authority may do anything which it considers will contribute to the implementation of actions in the Plan or is necessary to reduce the risk of a flood which is likely to occur imminently and have serious adverse consequences for human health, the environment, cultural heritage or economic activity in its area.

This may include carrying out flood protection works, which may not be identified as actions in the Plan. Further information on progress with these actions can be provided by contacting the relevant local authority.

## 9. List of Acronyms and Abbreviations

FRM	Flood Risk Management
ICS	Integrated Catchment Study
LFRMP	Local Flood Risk Management Plan
LPD	Local Plan District
NFM	Natural Flood Management
PVA	Potentially Vulnerable Area
Q&S	Quality & Standards (Scottish Water)
SEPA	Scottish Environment Protection Agency
SR10/15	Spending Review periods for 2010-2015 and 2016-2021 for Scottish Water capital maintenance expenditure
SWMP	Surface Water Management Planning
NELPD	North East Local Plan District

## Appendix 1: Flood risk management responsibilities in Scotland and the legal requirement for the publication of this INTERIM REPORT

## Flood risk management in Scotland

The Scottish Ministers, SEPA and responsible authorities must exercise their flood risk related functions with a view to reducing overall flood risk (reference Section 1(1) of the Flood Risk Management (Scotland) Act 2009).

Through the preparation of a national flood risk assessment and setting of objectives to reduce the level of flood risk by SEPA, which is published in Flood Risk Management Strategy, and the publication of Local Flood Risk Management Plan's by 'lead' local authorities, which detail how and when the actions agreed to meet these objectives are to be done, SEPA and all responsible authorities must act to manage flood risk in a sustainable way.

Flood Risk Management Strategy for North East

Local Flood Risk Management Plan for North East Local Plan District

## Legal requirement

This document sets out the conclusions of the review of the Local Flood Risk Management Plan (LFRMP) for the North East Local Plan District (LPD) as required by Section 37 of the Flood Risk Management (Scotland) Act 2009 (the "Act").

### **37 Local flood risk management plans: interim report**

(1) Not earlier than 2 years and not later than 3 years after a local flood risk management plan is finalised, the lead authority must —

- (a) review the plan, and
- (b) publish a report on the conclusions of the review including information on the progress that has been made towards implementing the measures identified in the implementation part of the plan.

(2) The lead authority must make copies of the report available for public inspection.

The North East LFRMP, which includes the 'implementation part of the plan', was published in June 2016. The Interim Report is therefore to be published between July 2018 and June 2019. The Interim Report will provide a summary of the LFRMP actions ('measures') and the proposed delivery timescales.

The information on progress will include:

- an assessment of the progress towards implementing each of the actions;
- reasons for any actions where delivery is not as planned; and

- a description of arrangements planned to deliver the remaining actions and to address delayed actions.

The Interim Report is published by the 'lead authority' as defined by Section 34(9) of the Act in partnership with SEPA and the 'responsible authorities', as defined by Section 5 of the Act, will be in the LPD. The approval of the Interim Report will be in accordance with the agreed governance arrangements in the LPD. The responsible authorities for the North East LPD are:

- Aberdeenshire Council (lead authority)
- Aberdeen City Council
- Moray Council
- Cairngorms National Park
- SEPA
- Scottish Water

The lead authority must also publish a Final Report on the LFRMP under Section 38 of the Act between July 2021 and June 2022 (not earlier than 5 years and not later than 6 years from the publication of the plan). The Final Report will provide an assessment of current actions and a summary of current actions not implemented, with reasons for their non-implementation. The Final Report will also include a description of any other measures implemented, which the lead authority considers have contributed to the achievement of the objectives summarised in the LFRMP.

## Publication

The published Interim Report for the North East LFRMP will be made available for public inspection, as per Section 37(2) of the Act, via the website of the lead authority, Aberdeenshire Council:

<https://www.aberdeenshire.gov.uk/environment/flooding/>; search for "Interim Report LFRMP".

Links to the published Interim Report for the North East LFRMP will also be provided from Scottish Government, SEPA and other responsible authority websites.

A hard (paper) copy of the published Interim Report for the North East LFRMP is also available for public inspection on weekdays between 9am and 5pm at the following location(s):

Aberdeenshire Council, Carlton House, Arduathie Road, Stonehaven, AB39 2QP

Copies of the published Interim Report for the North East LFRMP may also be available at offices of other responsible authorities. It is advised that the responsible authority be contacted to make such arrangements for viewing.