

Solway Local Plan District (LPD 14)

Draft Flood Risk Management Strategy 2021-2027

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03000 99 66 99

Strathallan House, Castle Business Park, Stirling, FK9 4TZ

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The Solway Local Plan District covers an area of around 7,000km² and has a population of approximately 160,000. It covers a large area of the south west of Scotland, extending from Drummole and Portpatrick in the west, to beyond Langholm and Newcastleton in the east. The coastline has a length of around 625km from Downan Point to Gretna, with many bays including Wigtown Bay and Luce Bay. It includes the urban areas of Dumfries, Stranraer and Annan.

The area is largely rural with the main land cover of woodland and agricultural land. There are many lochs and reservoirs in the area including Loch Ken, Clatteringshaws Loch, Loch Grannoch, Loch Dee and Castle Loch. The main rivers are the Nith, Esk, Annan, Cree and Dee (Galloway).

There is a river, surface water and coastal flood risk in the Local Plan District. There have been several large floods, including in January 2018 when Storm Georgina caused considerable damage through river flooding. More recently, in February 2019, Storm Erik caused significant damage throughout the area.

Currently it is estimated there are around 16,000 people and 10,000 homes and businesses at risk from flooding. This may increase to 20,000 people and 13,000 homes and businesses by the 2080s due to climate change. The expected annual cost of flooding is around £15 million. Note, however that flooding from wave overtopping is not fully represented in the assessment of flood risk and the impact of coastal flooding may be underestimated.

SEPA lead development of the Flood Risk Management Strategies for Scotland and delivery of flood warning services. Local flood risk management planning in this Local Plan District is led by the Dumfries and Galloway Council (the lead local authority). Other responsible authorities include Scottish Water and four more local authorities. They are supported by Scottish Government agencies including Forestry and Land Scotland, Scottish Forestry and Transport Scotland.

Within this Local Plan District, actions are regularly carried out by SEPA and responsible authorities to help prepare communities for potential flooding and reduce the impact of any flooding that does occur. More information on these actions will be added to this section for 22 March 2021.

A Cross Border Advisory Group is in place in the Solway Local Plan District to advise the Environment Agency, SEPA and local authorities on flooding issues that straddle the border. The group consider how the relevant authorities should coordinate their work in order to ensure that they understand how the impact of flood risk on one side of the border is affected by actions or inactions on the other side of the border.

Potentially Vulnerable Areas (PVA) were designated in 2018 based on the potential current or future risk from all sources of flooding. This designation was informed by the National Flood Risk Assessment ([link](#)). As part of continued analysis of flood risk, the National Flood Risk Assessment and PVAs will be reviewed every six years to take on board any new information. There are 24 PVAs in this Local Plan District. Following sections provide more information on these areas

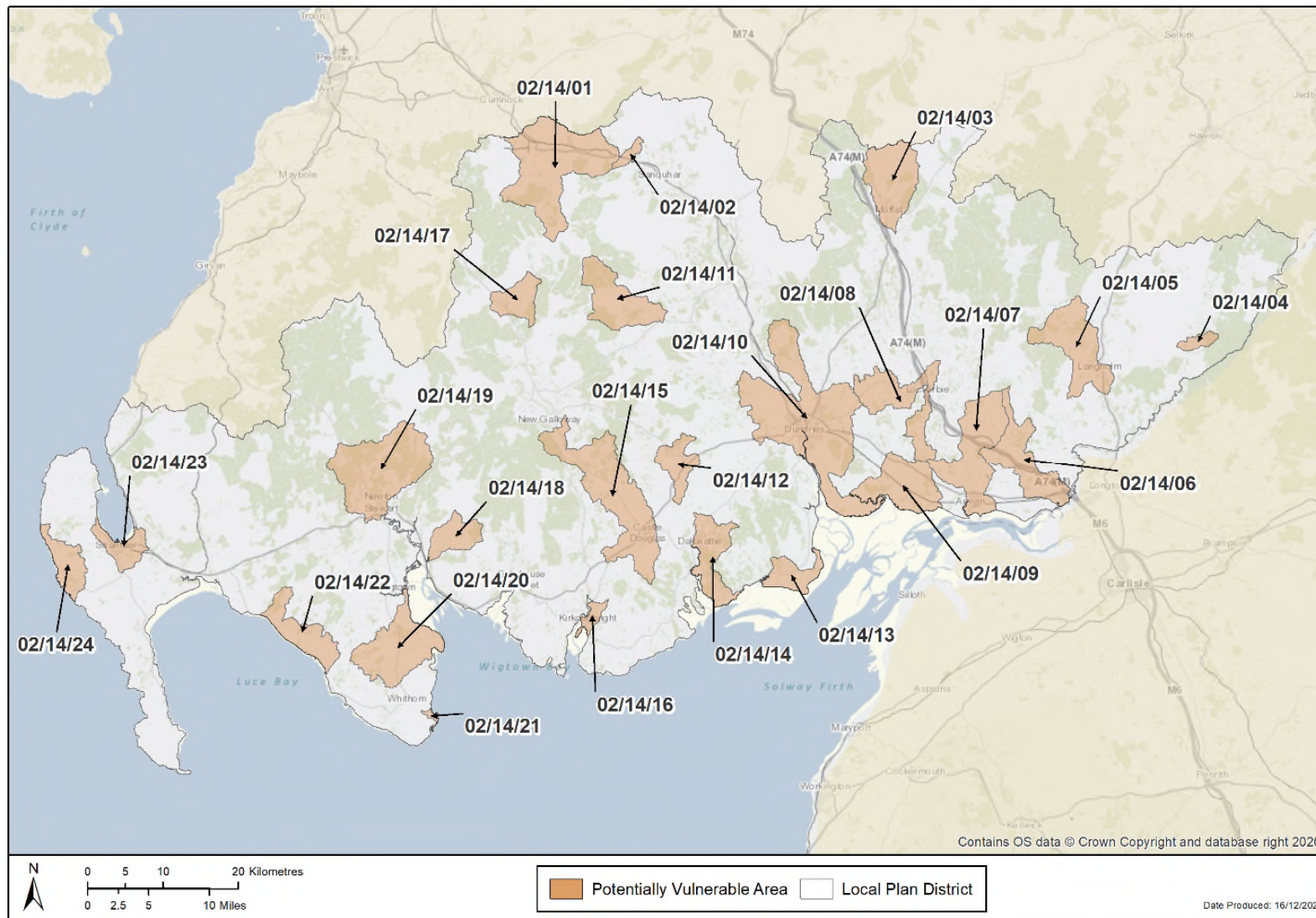


Figure 1. Potentially Vulnerable Areas in Solway Local Plan District

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PVA Ref	PVA NAME	Local Authority
02/14/01	New Cumnock	East Ayrshire
02/14/02	Kirkconnel	Dumfries & Galloway
02/14/03	Moffat	Dumfries & Galloway
02/14/04	Newcastleton	Scottish Borders
02/14/05	Langholm	Dumfries & Galloway
02/14/06	Gretna and Kirtle Water catchment	Dumfries & Galloway
02/14/07	Ecclefechan - Annan	Dumfries & Galloway
02/14/08	Lochmaben - Lockerbie	Dumfries & Galloway
02/14/09	Powfoot	Dumfries & Galloway
02/14/10	Dumfries and lower Nith catchment	Dumfries & Galloway
02/14/11	Moniaive	Dumfries & Galloway
02/14/12	Springholm	Dumfries & Galloway
02/14/13	Southernness and Carsethorn	Dumfries & Galloway
02/14/14	Dalbeattie	Dumfries & Galloway
02/14/15	River Dee catchment	Dumfries & Galloway
02/14/16	Kirkcudbright	Dumfries & Galloway
02/14/17	Carsphairn	Dumfries & Galloway
02/14/18	Creetown	Dumfries & Galloway
02/14/19	Newton Stewart	Dumfries & Galloway
02/14/20	Garlieston	Dumfries & Galloway
02/14/21	Isle of Whithorn	Dumfries & Galloway
02/14/22	Port William	Dumfries & Galloway
02/14/23	Stranraer	Dumfries & Galloway
02/14/24	Portpatrick	Dumfries & Galloway

02/14/01 (New Cumnock)

This area is designated as a Potentially Vulnerable Area due to flood risk to New Cumnock. The main sources of flooding are from the Afton Water, the River Nith, and surface water. Recent river flooding has occurred in the area.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

New Cumnock (Target Area 138)

02/14/02 (Kirkconnel)

This area is designated as a Potentially Vulnerable Area due to flood risk to Kirkconnel. The main sources of flooding are from the River Nith and surface water. There are a number of recorded floods, with recent flooding being caused by flooding from the River Nith.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Kirkconnel (Target Area 133)

02/14/03 (Moffat)

This area is designated as a Potentially Vulnerable Area due to flood risk to Moffat. The main sources of flooding are from river and surface water. Recent floods have been caused by both river and surface water flooding.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Moffat (Target Area 136)

02/14/04 (Newcastleton)

This area is designated as a Potentially Vulnerable Area due to flood risk in Newcastleton. The main source of flooding is from the Liddel Water, with some risk from surface water. There are reports of flooding in the area with recent floods have been caused by both river and surface water flooding.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Newcastleton

(Target Area 139)

02/14/05 (Langholm)

This area is designated as a Potentially Vulnerable Area due to flood risk to Langholm. The main source of flooding is from the River Esk, with some risk from surface water. Recent flooding occurred from the River Esk.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Langholm

(Target Area 135)

02/14/06 (Gretna and Kirtle Water catchment)

This area is designated as a Potentially Vulnerable Area due to flood risk to Eaglesfield and Gretna. There is flooding from river, coastal and surface water. Recent flooding was caused by surface water flooding.

There are 2 areas in this PVA, which have been the focus of further assessment, these are listed below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Eaglesfield	(Target Area 33)
Gretna	(Target Area 132)

02/14/07 (Ecclefechan – Annan)

This area is designated as a Potentially Vulnerable Area due to flood risk in Annan and Ecclefechan. There is flooding from river, coastal and surface water. Recent flooding occurred in the area and was caused by surface water flooding.

There are 2 areas in this PVA, which have been the focus of further assessment, these are listed below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Ecclefechan	(Target Area 31)
Annan	(Target Area 129)

02/14/08 (Lochmaben – Lockerbie)

This area is designated as a Potentially Vulnerable Area due to flood risk to Greenhill, Lochmaben and Lockerbie. The main source of flooding is from surface water, however there is also risk from the River Annan. Recent river and surface water flooding has occurred in the area.

There are 3 areas in this PVA, which have been the focus of further assessment, these are listed below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Lockerbie	(Target Area 150)
Lochmaben	(Target Area 163)
Heck and Greenhill	(Target Area 16310)

02/14/09 (Powfoot)

This area is designated as a Potentially Vulnerable Area due to flood risk in Powfoot and Cummertrees. There is flooding from coastal, river and surface water. There are reports of flooding within the area, with recent flooding being caused by both river and surface water flooding

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Powfoot and Cummertrees (Target Area 118)

02/14/10 (Dumfries and lower Nith catchment)

This area is designated as a Potentially Vulnerable Area due to flood risk to Cargenbridge, Dumfries, Kirkton and Locharbriggs. There is flooding from river, coastal and surface water. Recent floods occurred in January 2018 and February 2019, caused by coastal, surface water and river flooding.

There are 4 areas in this PVA, which have been the focus of further assessment, these are listed below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Kirkton	(Target Area 34)
Cargenbridge	(Target Area 37)
Locharbriggs	(Target Area 38)
Dumfries	(Target Area 39)

02/14/11 (Moniaive)

This area is designated as a Potentially Vulnerable Area due to flood risk to Moniaive. The main source of flooding is from river, with some risk from surface water. Frequent historic flooding has been reported, with recent floods being caused by both river and surface water flooding.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Moniaive

(Target Area 137)

02/14/12 (Springholm)

This area is designated as a PVA due to the future flood risk as a result of climate change. The assessment has shown a potential increase in flood risk to homes and businesses in Springholm. The main source of flooding is from small burns within the catchment.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Springholm

(Target Area 69)

02/14/13 (Southernness and Carsethorn)

This area is designated as a Potentially Vulnerable Area due to flood risk to Southernness and Carsethorn. The main source of flooding is from coastal, with surface water flooding affecting Southernness. There is a history of flooding in the area with recent floods being caused by surface water and coastal flooding.

There are 2 areas in this PVA, which have been the focus of further assessment, these are listed below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Southernness

(Target Area 125)

Carsethorn

(Target Area 128)

02/14/14 (Dalbeattie)

This area is designated as a Potentially Vulnerable Area due to flood risk to Dalbeattie. There is flooding from river, coastal and surface water. There are numerous records of flooding in Dalbeattie with recent coastal flooding having been reported in the area.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Dalbeattie (Target Area 131)

02/14/15 (River Dee Catchment)

This area is designated as a Potentially Vulnerable Area due to flood risk to Bridge of Dee and Castle Douglas. The main source of flooding is from the River Dee, with some risk from surface water. Recent floods have occurred in the area due to river and surface water flooding.

There are 2 areas in this PVA, which have been the focus of further assessment, these are listed below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Castle Douglas (Target Area 36)
Bridge of Dee (Target Area 35)

02/14/16 (Kirkcudbright)

This area is designated as a Potentially Vulnerable Area due to flood risk in Kirkcudbright. There is flooding from coastal, river and surface water. There are records of flooding in the area including recent coastal flooding.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Kirkcudbright (Target Area 134)

02/14/17 (Carsphairn)

This area is designated as a Potentially Vulnerable Area due to flood risk in Carsphairn. The main source of flooding is from the Water of Deugh. There are records of flooding in the area including recent river flooding.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Carsphairn

(Target Area 127)

02/14/18 (Creetown)

This area is designated as a Potentially Vulnerable Area due to flood risk to Creetown. The main sources of flooding are from river and coastal flooding. There are reports of flooding in the area, with recent floods being caused by coastal and river flooding.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Creetown

(Target Area 130)

02/14/19 (Newton Stewart)

This area is designated as a Potentially Vulnerable Area due to flood risk to Newton Stewart. The main sources of flooding are from the River Cree and the Penkiln Burn. Recent floods have been caused by river flooding.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Newton Stewart

(Target Area 140)

02/14/20 (Garlieston)

This area is designated as a Potentially Vulnerable Area due to flood risk to Sorbie and Garlieston. There is flooding from river, coastal and surface water. There is a history of flooding in the area, with recent flooding occurring in 2018 due to Storm Eleanor.

There are 2 areas in this PVA, which have been the focus of further assessment, these are listed below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Sorbie

(Target Area 70)

Garlieston

(Target Area 126)

02/14/21 (Isle of Whithorn)

This area is designated as a Potentially Vulnerable Area due to flood risk in Isle of Whithorn. The main sources of flooding are river and coastal. Recent floods occurred in January 2018 and February 2019, which were caused by coastal flooding.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Isle of Whithorn

(Target Area 144)

02/14/22 (Port William)

This area is designated as a Potentially Vulnerable Area due to flood risk to Port William. The main source of flooding is from coastal flooding, however there is also a risk of surface water flooding. There is a history of flooding in the area, with recent flooding being caused by coastal and surface water flooding.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Port William

(Target Area 143)

02/14/23 (Stranraer)

This area is designated as a Potentially Vulnerable Area due to flood risk to Stranraer. There is flooding from river, coastal and surface water. Recent flooding has occurred due to surface water flooding.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Stranraer

(Target Area 142)

02/14/24 (Portpatrick)

This area is designated as a Potentially Vulnerable Area due to flood risk to Portpatrick. There is flooding from river, coastal and surface water. A flood protection scheme was built in 2004 and has reduced the risk of river flooding. Recent coastal flooding has occurred in the area.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Portpatrick

(Target Area 141)