

# Flood hazard mapping and assessment project update – August 2022

Planning and Land Use Services and the State Planning Commission are undertaking a flood hazard mapping and assessment project, which commenced in November 2020 – funded by a \$3 million COVID-19 stimulus grant.

The project is split into three key stages, including procurement of new and enhanced flood mapping, and amendments to the Planning and Design Code to introduce the new flood hazard mapping and land use policy.

## Stage 1 - Flooding Hazards Mapping Update Code Amendment

On 28 October 2021 the Minister for Planning and Local Government approved the initiation of a Code Amendment to update the spatial extent of Flood Hazard overlays in the Planning and Design Code. The Flooding Hazards Mapping Update Code Amendment is being led by the Chief Executive of the Department for Trade and Investment, and forms the first stage of the project.

This proposed Code Amendment includes updated flood mapping for the following councils:

Council	Area/Study
Burnside Council	1st to 3rd Creek Flood Study
Charles Sturt, Prospect and Port Adelaide Enfield Councils	Barker Inlet Central Stormwater Management Plan (SMP)
Playford and Gawler Councils	Smith Creek Floodplain and Flood Hazard Study
Clare Valley and Gilbert Valley Councils	Auburn township
Mitcham Council	Sturt River urban catchment, McLaren Street catchment, Brownhill & Keswick Creek urban catchment
Port Lincoln Council	Port Lincoln SMP
Unley Council	Unley Urban Floodplain Study & Sturt Creek Urban Catchment
Naracoorte Lucindale Council	Naracoorte township

The Code Amendment proposes to remove the Evidence Required Overlay in rural and escarpments areas in the cities of Playford, Mitcham, Burnside, Marion, Onkaparinga and Port Lincoln and the whole of Mount Gambier. The Hazards (Flooding) Overlay is proposed to apply in areas where regional coarse 5 m scale mapping combined with watercourse data shows there is evidence of flooding.

The Code Amendment also proposes to remove the Evidence Required Overlay in the outback (non-council areas) of South Australia, and insert the Hazard (Flooding) Overlay where regional coarse 30 m scale mapping of a 0.5% AEP combined with watercourse data shows evidence of flood risk.

This Code Amendment is planned to go to consultation in the second half of 2022.

## Stage 2 - Procurement of Flood Mapping Products

### Enhanced Flood Studies

Enhanced flood studies are underway in 15 metropolitan and 9 outer metro/regional areas (see table below):

Metropolitan areas	Outer metro/regional areas
<ul style="list-style-type: none"> <li>- Lower River Torrens</li> <li>- Lower Sturt River</li> <li>- Lower Onkaparinga River</li> <li>- Barker Inlet</li> <li>- Cobbler Creek</li> <li>- Lefevre Peninsula</li> <li>- Numbered Creeks (1<sup>st</sup> – 3<sup>rd</sup> creek) in Campbelltown, Tee Tree Gully, Burnside and Norwood</li> <li>- Marion and Holdfast Bay</li> <li>- Adams Creek</li> <li>- Little Para River</li> <li>- West Lakes</li> <li>- River Torrens</li> <li>- Smith Creek</li> <li>- Port Road and Port River East</li> </ul>	<ul style="list-style-type: none"> <li>- Nuriootpa</li> <li>- Victor Harbor</li> <li>- Balaklava to Pt. Wakefield</li> <li>- Pt. Lincoln</li> <li>- Light River</li> <li>- Gawler River</li> <li>- Naracoorte</li> <li>- Clare and Gilbert Valley townships</li> <li>- Kadina</li> <li>- Moonta</li> </ul>

## New Flood Studies

9 new flood studies are also being undertaken:

New flood study areas	Consultant
Fleurieu Peninsula townships i.e. Yankalilla, Carrickalinga, Normanville, Second Valley	HARC
Upper Torrens River townships	HARC
Mt Barker, Littlehampton and Nairne	Southfront
Wallaroo	Southfront
Strathalbyn	Southfront
New flood study areas	Consultant
Bremer River at Langhorne Creek	Southfront
Upper Onkaparinga	Southfront
Goolwa to Port Elliott	Stantec
Numbered Creeks (4 <sup>th</sup> & 5 <sup>th</sup> Creek)	Tonkin

## New LiDAR

To improve the accuracy of flood modelling new LiDAR (light detection and ranging) data in the form of a 0.5 metre digital elevation model has been captured for:

- Clare and Gilbert Valley townships
- Barossa Region, Middle Beach to Barossa
- Upper Torrens River
- Adelaide Hills townships including Mt. Barker, Strathalbyn and Nairne
- Upper Onkaparinga catchment area including Bremer Flat and Langhorne Creek
- Goolwa to Port Elliot
- Townships in the Fleurieu Peninsula.

This data is now publicly available by the Department for Environment and Water through the [Elvis Elevation Foundation Spatial Data platform](#) (Elvis).

## Regional Coarse Data

Regional Coarse Data of a 5 m and 30 m scale has been purchased by JBA and Ambiental. This data will be considered in areas where no detailed flood study has been completed.

## Stage 3 – Statewide Flood Hazard Code Amendment

The State Planning Commission will consider initiating a Statewide Flood Hazard Code Amendment in the second half of 2022. This amendment will utilise the mapping products outlined above for accurately applying flood policy across the state.

In addition, the flood policy will be reviewed. This policy will be tested against the outcomes of the mapping and workshops with councils.

### For more information

Visit [Hazard Mapping Project](#) and [Code Amendments](#) on the PlanSA website.