

Item 8.4

Flood Mapping and Information

Purpose

The purpose of this report is to seek Council endorsement to present current flood study reports and associated flood mapping for community engagement.

Agenda

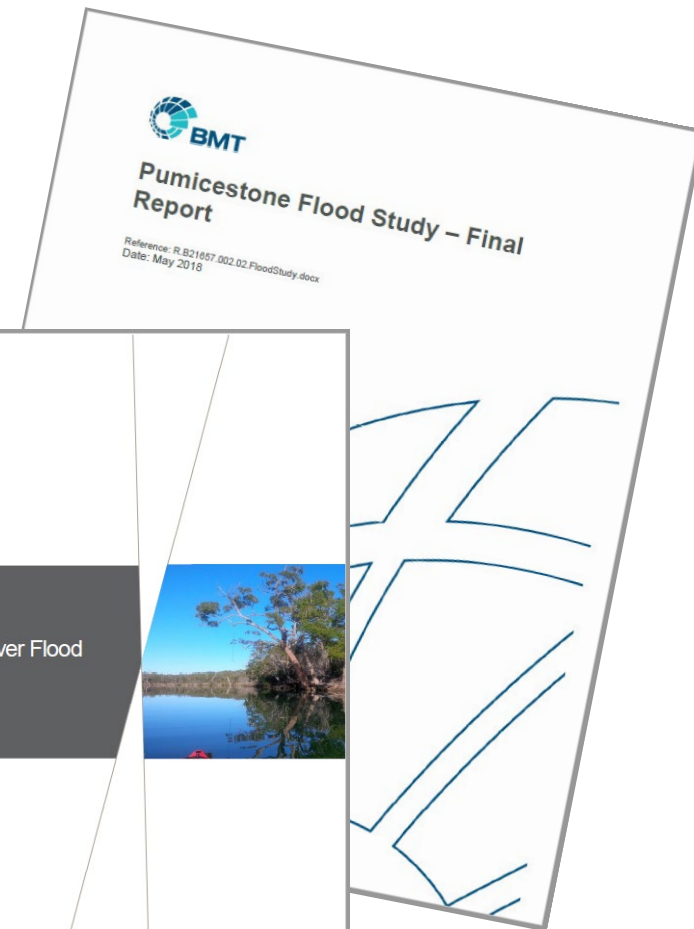
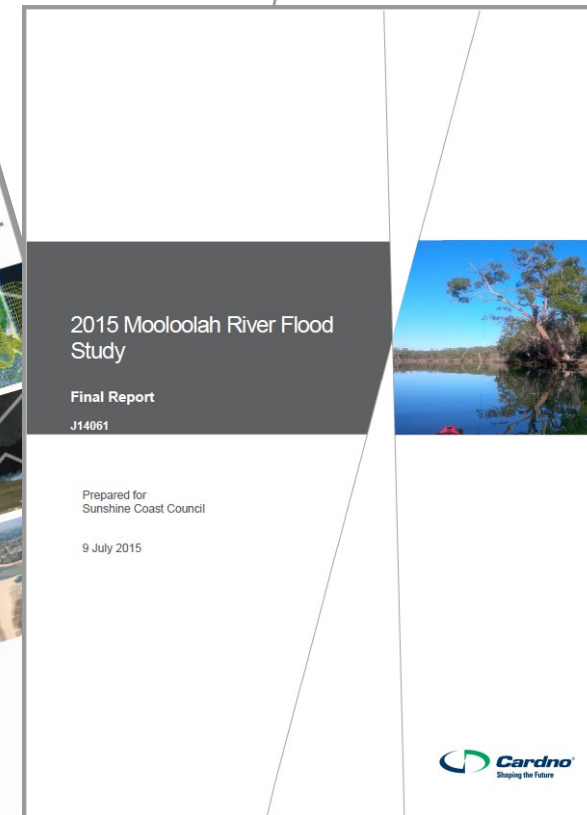
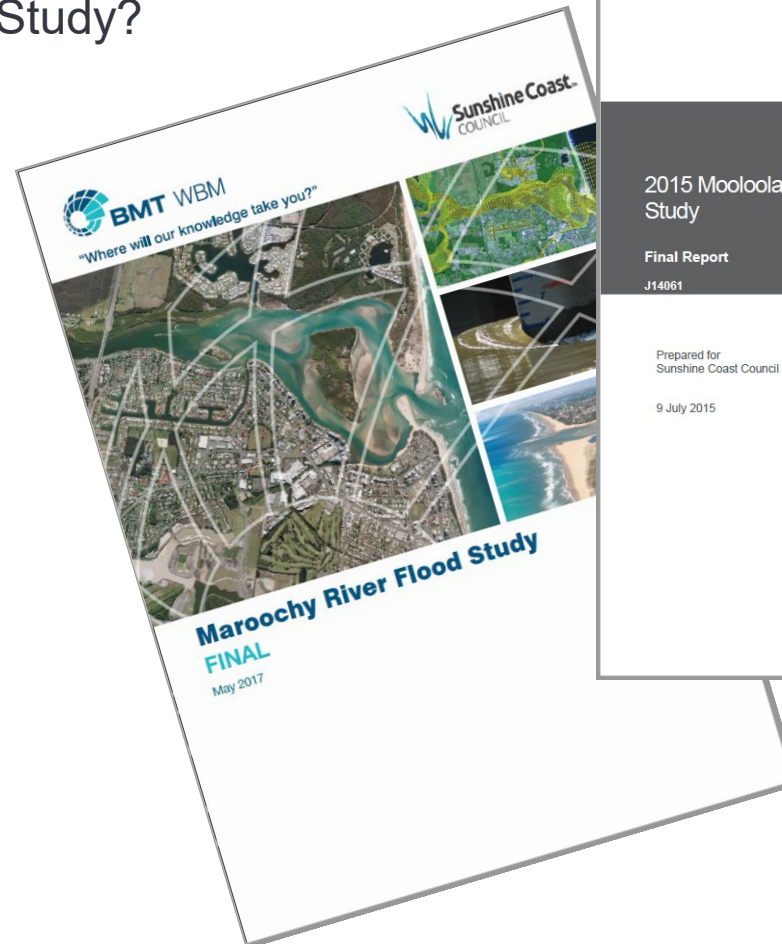
1. Introduction
2. Queensland Floods Commission of Inquiry
3. Sources of Information - Flood and Master Drainage Studies.
4. Flood Products – Current and Proposed
5. Recommendations

Living with flooding is a natural part of life on the Sunshine Coast and across Queensland. We can't prevent floods from happening, but we can take steps to be prepared by understanding our flood risk and what steps we can take to reduce the impact of floods on our lives.

Assent Communications

Introduction

- What are Flood Studies?
- What's involved in a Flood Study?
- Why are they needed?



Queensland Floods Commission of Inquiry

(2012)

Themes

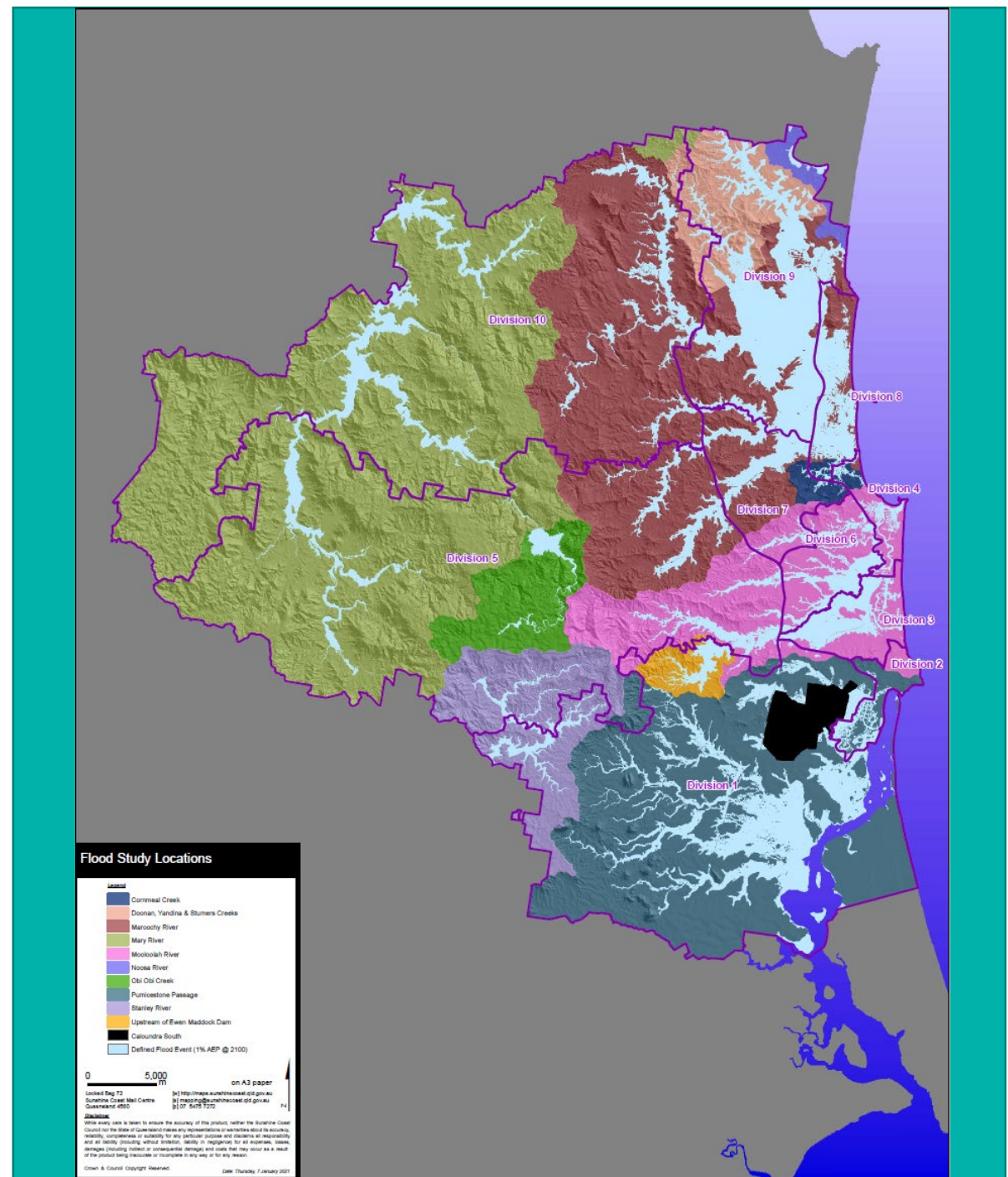
- Keep Mapping Current and Easy to Interpret
- Show Areas not yet Modelled
- Zones of Risk
- Inform Councillors
- Map Overland Flow Path information

The Queensland Audit Office audit schedule indicates that an audit on the response to Queensland Floods Commission of Inquiry recommendations is planned for the 2021/22 financial year. Local councils are included in the list of parties who may be audited.

Sources of Information

Regional Catchment Flood Studies

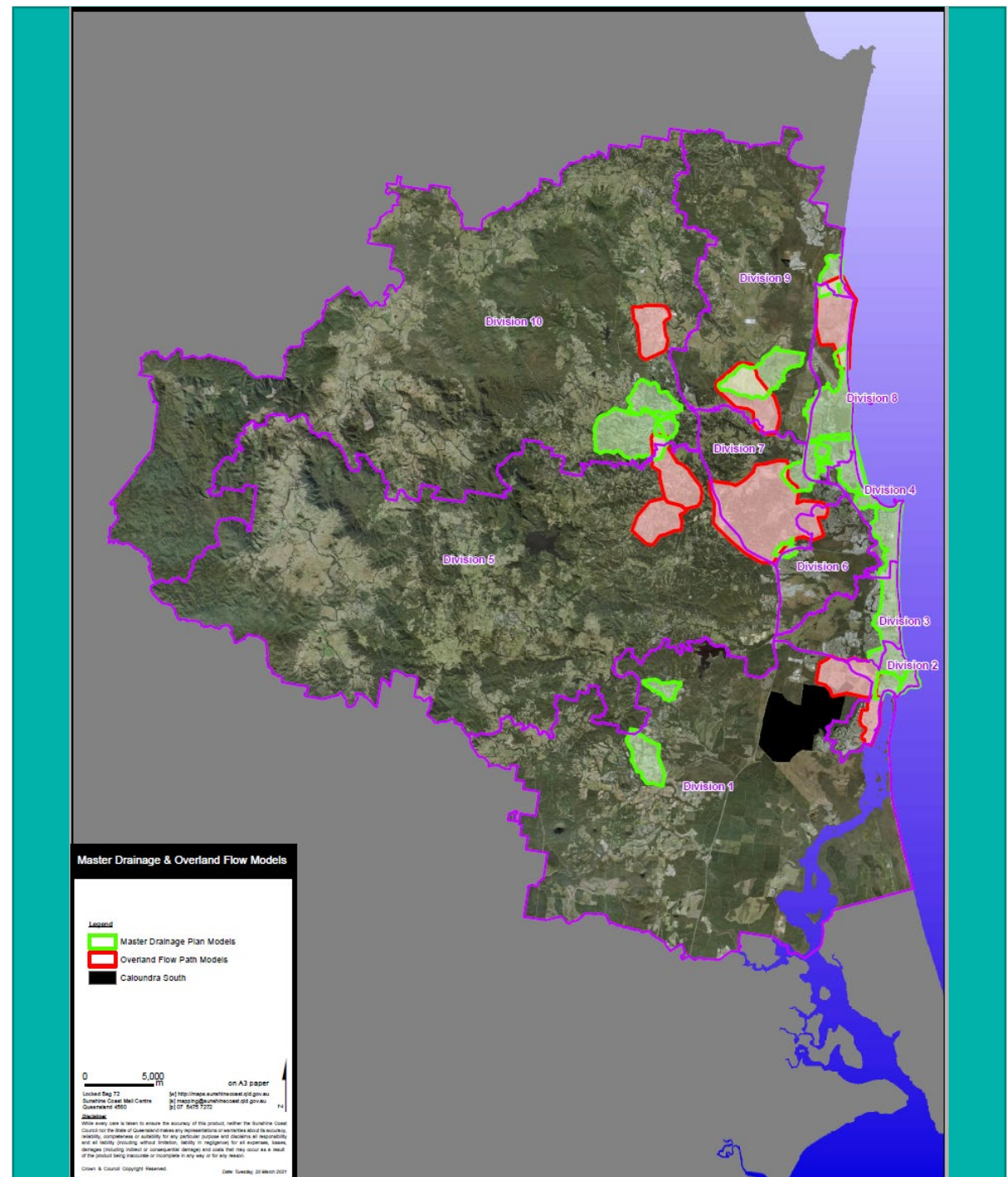
STUDY	AUTHOR	YEAR
Maroochy River Flood Study	BMT	2017
Mooloolah River Flood Study	Cardno	2015
Pumicestone Flood Study	BMT	2018
Doonan and Yandina Creek Flood Study Upgrade	HWMC	2012
Obi Obi Creek Flood Study	Engeny	2013
Mary River Flood Study	DHI	2012
Sunshine Coast Storm Tide Study	Aurecon	2013



Sources of Information

Master Drainage Planning Studies

STUDY	AUTHOR	YEAR
Alexandra Headland	SMEC	2019
Caloundra	SMEC	2019
Landsborough	WMAwater	2018
Nambour East	WMAwater	2018
School Road, Maroochydore	SMEC	2018
Cotton Tree to Picnic Point	Cardno	2020
Coolum Beach	SMEC	2020
Kings and Shelly Beach	SMEC	2020
Maroochy North Shore	SMEC	2020
Kawana	PeakUrban	2021
Maroochydore West	Cardno	2021
Nambour West	Cardno	2021
Beerwah	WaterTechnology	2021
Nambour North	WaterTechnology	2021
South Maroochy Drainage Board Drain Sizing Investigation	Pitt and Sherry	2020

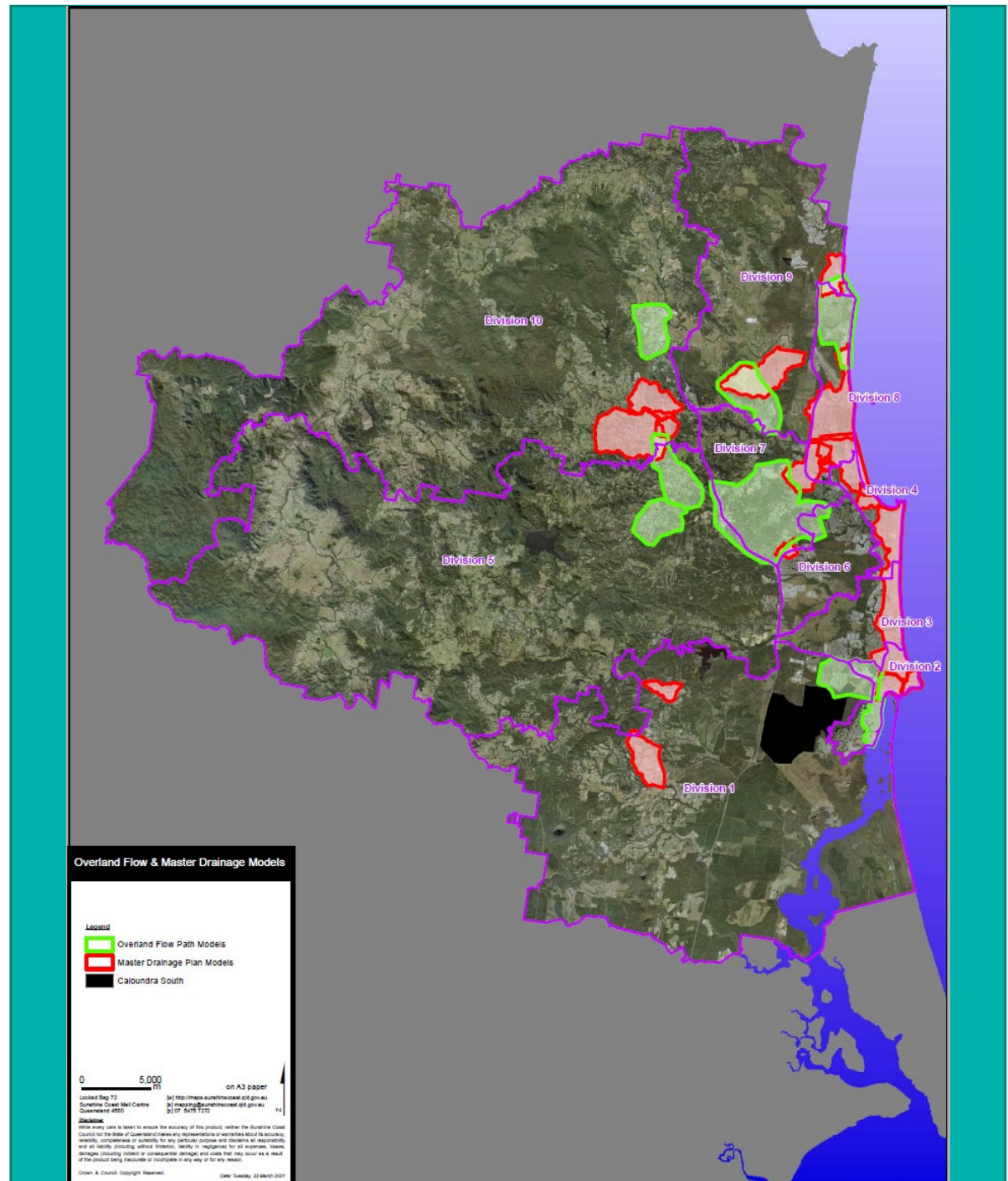


Sources of Information

Overland Flow Path Models

LOCATION
Bli Bli
Buderim – Kunda Park
Caloundra West
Golden Beach
Palmwoods
Woombye
Yandina
Yaroomba

Developed in-house



Flooding vs Overland Flow

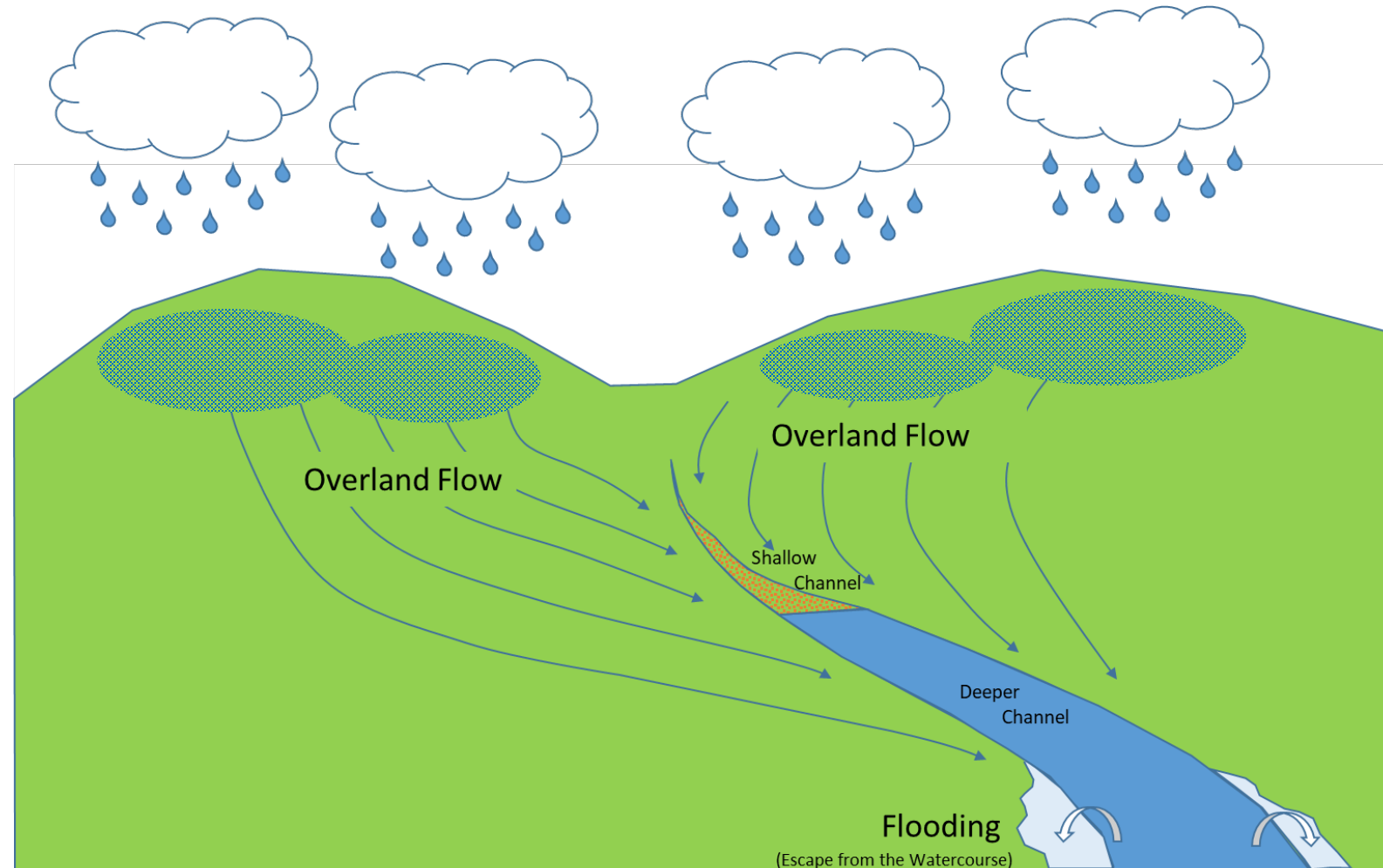
Flooding

the covering of normally dry land by water that has escaped or been released from the normal confines of: any lake, or any river, creek or other natural watercourse, whether or not altered or modified; or any reservoir, canal, or dam.

(Insurance Council of Australia)

Overland Flow

the shallow flow that occurs as run-off over land or in shallow channels following a rainfall event.



Proposed

New and updated public flood mapping is proposed

Structure:

- Disaster Management
- Land Use Planning
- General Information

Why:

- Council's responsibility to maintain current mapping
- Prepare for Growth
- Protect from flooding and stormwater hazards
- Aligns with State Guidance
- Empowers the community to build resilience

Proposed

PRODUCT	PURPOSE	SOURCE	AUDIENCE	CREATED/ PUBLISHED
Riverine Flood Maps Minor, Moderate, Major, Extreme. Storm Tide Maps	Emergency Preparedness	Disaster Hub	General Public, Planners, Engineers, Consultants	2021 replacing 2013/14
Flood Risk Map	Land Use Planning <ul style="list-style-type: none"> Potential Future Flood Hazard Overlay Map <ul style="list-style-type: none"> Trigger Flood Hazard Overlay Code 	My Maps	General Public, Planners, Engineers, Consultants Building Certifiers	2021 NEW
Defined Flood Event	Land Use Planning <ul style="list-style-type: none"> Level from this event used for setting floor levels 	My Maps Development.i Site Reports	General Public, Planners, Engineers, Consultants Building Certifiers	2021 replacing 2017 Public 2010 PI Scheme
Flood Storage Preservation Area	Land Use Planning <ul style="list-style-type: none"> Development Control; Clarity on position regarding filling associated with Development 	My Maps	General Public, Planners, Engineers, Consultants	2021 NEW
General Information Layers <ul style="list-style-type: none"> Flood Study <ul style="list-style-type: none"> Flood Extent /Hazard Likelihoods 	Land Use Planning <ul style="list-style-type: none"> Development Services Referencing of Master Drainage Studies Provides original detail <ul style="list-style-type: none"> (lost when highest level of overlapping studies is adopted for other mapping products) 	My Maps	Planners, Engineers, Consultants Students	2021 NEW

Community Engagement

Campaign: 'Helping our community understand flooding'.

Purpose

- Promote the availability of the new and updated mapping
- Educate; the community and industry.

Education

- fact sheets,
- frequently asked questions
- videos
- Council's website

Promotion:

- Information stalls
- paid advertising
- social media

Leverage: Development.i and Disaster Hub

Recommendations

- Receive Flood Study and Master Drainage Study Reports.
- Endorse the Flood Risk and Flood Storage Preservation Area Maps for incorporation, as appropriate, in the new Sunshine Coast Planning Scheme Project.
- Endorse engagement with the community, promoting and educating in relation to the received flood study reports and associated flood mapping, and report back to Council.
- Implementation plan.
 - Update public mapping with new flood mapping products
 - Revise Council website to support communications and engagement associated with new flood mapping products
 - Make flood studies and master drainage studies publicly available through Council's website
 - Update Insurance Council of Australia's National Flood Information Database
 - Where appropriate, condition development to support outcomes of the Master Drainage Studies

Thank you Questions and Comments.



See council's website for further details
www.sunshinecoast.qld.gov.au