



# Mornington Peninsula Storm and Flood Emergency Plan

A Sub-Plan of the Municipal Emergency  
Management Plan

For Mornington Peninsula  
And

VICSES Unit(s) Hastings and Sorrento  
Version 2.5



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## Distribution List

Copy No.	Issue To:		Date
	Name	Organisation	
Original	MEMP Committee Executive Officer	Mornington Peninsula Shire	
1	Council Office Copy	Mornington Peninsula Shire	
2	MEMP Committee Chair	Mornington Peninsula Shire	
3	MERO	Mornington Peninsula Shire	
4	Deputy MERO	Mornington Peninsula Shire Mornington Peninsula Shire	
5	MRM	Mornington Peninsula Shire	
6	MERC (Mornington Police Station)	Victoria Police	
7	Deputy MERC (??? Police Station)	Victoria Police	
8	Assistant MERC (??? Police Station)	Victoria Police	
9	RERC	Victoria Police	
10	REMI	Victoria Police	
11	Controller	VICSES Hastings Unit	
12	Controller	VICSES Sorrento Unit	
13	ROEM	VICSES Central Region Headquarters	
14	Team Leader Hydrology & Flood Warnings	Melbourne Water	
15	Flood Warning Manager	Bureau of Meteorology (Flood Warning)	
16	Regional Emergency Management Officer	VicRoads	
17	Operations Officer	CFA – Mornington Fire Station	
		CFA – Rosebud Fire Station	
18	Operations Manager	CFA – District 8 Headquarters	
19	Emergency Management Unit	Ambulance Victoria	
20	District Manager	DELWP District Office	
21	Manager Emergency Management	Department of Health and Human Services	
22	Manager Emergency Services	United Energy UED Network	
23			
24			
25			

# Document Transmittal Form / Amendment Certificate

This Municipal Storm and Flood Emergency Plan (MSFEP) will be amended, maintained and distributed as required by VICSES in consultation with the Mornington Peninsula Shire.

Suggestions for amendments to this Plan should be forwarded to VICSES Central Regional Office, Unit 6, 3-5 Gilda Court, MULGRAVE 3170.

Amendments listed below have been included in this Plan and promulgated to all registered copyholders.

Amendment Number	Date of Amendment	Amendment Entered By	Summary of Amendment
<b>Issue date of Flood Emergency Plan 17 May 2013</b>			
2.0	June 2014	Ross Butler	Appendix A, B, C, F & G Updated
2.4	May 2017	Gerry Sheridan	Update legislative references, acronyms, inclusion of operational information
2.5	July 2017	Ross Butler	Update of Appendix A, B, C & F Updated

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# Part 1. INTRODUCTION

## 1.1 Municipal Endorsement

This Municipal Storm and Flood Emergency Plan (MSFEP) has been prepared by the Mornington Peninsula Municipal Storm and Flood Planning Committee (MSFPC) pursuant to Section 20 of the Emergency Management Act 1986 (as amended).

This MSFEP is a sub plan to the Mornington Peninsula Municipal Emergency Management Plan (MEMP), is consistent with the Emergency Management Manual Victoria (EMMV), the Victoria Flood Management Strategy, the Regional Flood Emergency Plan and the State Storm and Flood Emergency Plans and takes into account the outcomes of the Community Emergency Risk Assessment (CERA) process undertaken by the Municipal Emergency Management Planning Committee (MEMPC).

This MSFEP is a result of the cooperative efforts of the MSFPC and its member agencies.

Minor and administrative amendments will be made to this MSFPC from time to time without representing the Plan to the MEMPC. Any major structural or policy changes will be considered before adoption.

This Plan is endorsed by the Mornington Peninsula MEMPC as a sub-plan to the MEMP.

### Endorsement

.....	
Simon Brooks Chair Municipal Emergency Management Planning Committee	Date
.....	
Ray Jasper Regional Manager VICSES Central Region	Date

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## 1.2 The Municipality

An outline of Mornington Peninsula in terms of its location, demography and other general matters is provided in the MEMP. An outline of the flood threat is provided in **Appendix A** of this Plan.

## 1.3 Purpose and Scope of this Storm and Flood Emergency Plan

The purpose of this MSFEP is to detail arrangements agreed for the planning, preparedness/prevention, response and recovery from storm and flood incidents within the Mornington Peninsula.

As such, the scope of the Plan is to:

- Identify the Storm and Flood Risk to Mornington Peninsula;
- Support the implementation of measures to minimise the causes and impacts of storm and flood incidents within the Mornington Peninsula;
- Detail Response and Recovery arrangements including preparedness, Incident Management, Command and Control;
- Identify linkages with Local, Regional and State emergency and wider planning arrangements with specific emphasis on those relevant to storm and flood.

## 1.4 Municipal Storm and Flood Planning Committee (MSFPC)

Membership of the MSFPC will comprise of the following representatives from the following agencies and organisations:

- VICSES (i.e. Unit Controller & Regional Officer – Emergency Management) (**Chair**),
- Mornington Peninsula Shire (MERO, MRM, EMO, engineering department representative),
- Victoria Police (Municipal Emergency Response Co-ordinator) (MERC),
- Catchment Management Authority, Melbourne Water as required,
- Department of Health and Human Services (DHHS) as required,
- Department of Environment, Land, Water and Planning (DELWP) as required,
- Bureau of Meteorology as required,
- Local community representatives and
- Other agencies as required

## 1.5 Responsibility for Planning, Review & Maintenance of this Plan

This MSFEP must be maintained in order to remain effective.

VICSES through the Municipal Storm and Flood Planning Committee (MSFPC) has responsibility for preparing, reviewing, maintaining and distributing this plan.

The MSFPC will meet at least once per year.

The plans should be reviewed and where necessary, arrangements and information contained in it should be amended

- Following any new flood or stormwater studies;

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- Following a change in non-structural and/or structural flood mitigation measures;
  - After the occurrence of a significant storm and/or flood event within the Municipality.

## **1.6 Endorsement of the Plan**

The MSFEP has been endorsed by the MEMPC as a sub-plan of the MEMPlan. The MSFEP will be circulated to MSFPC members seeking acceptance of the plan following any large changes to the plan.

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## Part 2. PREVENTION / PREPAREDNESS ARRANGEMENTS

### 2.1 Community Awareness for all Types of Storm and Flooding

Details of this MSFEP will be released to the community through local media, the VICSES FloodSafe and StormSafe programs and websites (VICSES and the Municipality) upon formal adoption by Mornington Peninsula Shire.

VICSES with the support of Mornington Peninsula Shire and Melbourne Water will coordinate community education programs for storm and flooding within the council area, e.g. FloodSafe / StormSafe.

A Community Education Plan (CEP) to support this plan will be developed in conjunction with the VICSES Hastings and Sorrento Unit, who will lead the delivery of the CEP with support from Mornington Peninsula Shire and VICSES Central Region.

### 2.2 Structural Flood Mitigation Measures

Refer to Appendix A and C for detailed structural flood mitigation measures.

### 2.3 Non-Structural Flood Mitigation Measures

#### 2.3.1 Exercising the Plan

Arrangements for exercising this Plan will be at the discretion of the MEMPC. This Plan should be regularly exercised, preferably on an annual basis.

#### 2.3.2 Storm and Flood Warning

Arrangements for storm and flood warning are contained within the State Storm Emergency Plan and State Flood Emergency Plan (see <https://www.ses.vic.gov.au/em-sector/vices-emergency-plans>) and the EMMV and on the BoM website see <https://www.bom.gov.au>).

#### 2.3.3 Flood Wardens

Flood Wardens provide a means of gathering information in real time on flood behaviour along a stream system, and a network for the distribution of community information and warnings to the community along the stream system.

No Flood Wardens have been appointed in the Mornington Peninsula however local knowledge is incorporated into this plan through consultation with local response agencies. Previous event history and likely operational considerations are noted in the Flood Intelligence Cards in **Appendix C**. In line with the VICSES Local Knowledge Policy, reviews of this plan will be undertaken with input from multiple local sources to ensure appropriate local knowledge can be captured before, during and after incidents.

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## Part 3. RESPONSE ARRANGEMENTS

### 3.1 Introduction

#### 3.1.1 Activation of Response

Storm and Flood response arrangements may be activated by the VICSES Central Region RDO or IC.

The RDO/IC will activate agencies as required and documented in the VICSES Central Region and State Storm Emergency Plan and the State Flood Emergency Plan (see <https://www.ses.vic.gov.au/em-sector/vicses-emergency-plans>).

#### 3.1.2 Responsibilities

There are a number of agencies with specific roles that will act in support of VICSES and provide support to the community in the event of a serious storm and/or flood within Mornington Peninsula. These agencies will be engaged through the EMT.

The general roles and responsibilities of supporting agencies are as agreed within the Mornington Peninsula Shire MEMP, EMMV (Part 7 'Emergency Management Agency Roles'), VICSES Central Region Flood Emergency Plan and State Flood and Storm Emergency Plans. (See <https://www.ses.vic.gov.au/em-sector/vicses-emergency-plans> ).

#### 3.1.3 Municipal Emergency Coordination Centre (MECC)

Where activated, the function, location, establishment and operation of the MECC will be as detailed in the Mornington Peninsula Shire MEMP.

Liaison with the MECC will be through the VICSES Central Region RDO / IC or established ICC.

#### 3.1.4 Escalation

Most storm and/or flood incidents are of local concern and an appropriate response can usually be coordinated using local resources. However, when these resources are exhausted, the Regional arrangements provide for the further resources to be made available, and then on a State-wide basis.

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## 3.2 State Strategic Control Priorities

To provide guidance to the Incident Management Team (IMT), the following strategic emergency management priorities shall form the basis of incident action planning processes:

1. Protection and preservation of life is paramount - this includes:
  - a. Safety of emergency services personnel, and;
  - b. Safety of community members including vulnerable community members and visitors/tourist located within the incident area.
2. Issuing of community information and community warnings detailing incident information that is timely, relevant and tailored to assist community members make informed decisions about their safety.;
3. Protection of critical infrastructure and community assets that supports community resilience;
4. Protection of residential property as a place of primary residence;
5. Protection of assets supporting individual livelihoods and economic production that supports individual and community financial sustainability
6. Protection of environmental and conservation values that considers the cultural, biodiversity, and social values of the environment;

Circumstances may arise where the IC is required to vary these priorities, with the exception being that the protection of life should remain the highest. This shall be done in consultation with the State Response Controller and relevant stakeholders based on sound incident predictions and risk assessments.

## 3.3 Command, Control & Coordination

The Command, Control and Coordination arrangements in this MSFEP must be consistent with those detailed in the VICSES Central Region Storm and Flood Emergency Plans and State Storm and Flood Emergency Plans. For further information, refer to Part 3 of the EMMV.

The specific details of the Command, Control and Coordination arrangements for this plan are to be provided in **Appendix C** where appropriate.

### 3.3.1 Control

Sections 5 (1) (a) and 5 (c) of *the Victoria State Emergency Service Act 2005* detail the authority for VICSES to plan for and respond to storm and flood.

Part 7 of the EMMV identifies VICSES as the Control Agency for storm and flood. It identifies DELWP as the Control Agency responsible for dam safety as well as water and waste water service disruption related incidents and other emergencies. All flood response activities within Mornington Peninsula including those arising from a dam failure or retarding basin / levee bank failure incident will therefore be under the control of the appointed IC, or his / her delegated representative.

### 3.3.2 Incident Controller (IC)

An IC will be appointed by the VICSES (as the Control Agency) to command and control available resources in response to a flood event on the advice of the Bureau of Meteorology

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(or other reliable source) that a storm and/or flood event will occur or is occurring. The IC responsibilities are as defined in Part 3 of the EMMV

### **3.3.3 Incident Control Centre (ICC)**

As required, the Incident Controller will establish an Incident Control Centre (ICC) from which to initiate incident response command and control functions. The decision as to if and when the ICC should be activated, rests with the Control Agency (i.e. VICSES).

Pre-determined ICC locations are:

- Dandenong ICC
- Ferntree Gully ICC
- Burnley ICC

### **3.3.4 Divisions and Sectors**

To ensure that effective Command and Control are in place, the IC may establish Divisions and Sectors depending upon the complexity of the event and resource capacities.

Divisions and Sectors may be established to assist with the management of storm and flooding within the Municipality.

Pre-determined Division Command locations may include:

- Frankston Unit LHQ
- Moorooduc (CFA)

Sector Command locations are allocated on an as needs basis.

### **3.3.5 Incident Management Team (IMT)**

The IC will form an IMT in line with AIIMS principals.

Refer to 3 of the EMMV for guidance on IMTs.

### **3.3.6 Emergency Management Team (EMT)**

The IC will establish a multi-agency EMT to assist the storm and flood response. The EMT will consist of key personnel (with appropriate authority) from stakeholder agencies and relevant organisations who need to be informed of strategic issues related to incident control and who are able to provide high level strategic guidance and policy advice to the IC for consideration in developing incident management strategies.

Organisations, required within the EMT (including Mornington Peninsula Shire) will provide an Emergency Management Liaison Officer (EMLO) to the ICC if and as required as well as other staff and / or resources identified as being necessary, within the capacity of the organisation.

Refer to Part 3 of the EMMV for guidance on EMTs.

### **3.3.7 On Receipt of a Flood Watch / Severe Weather Warning**

The IC or VICSES RDO will undertake actions as defined within the flood intelligence cards (**Appendix C**). General considerations by the IC/VICSES RDO will be as follows:

- Review storm and flood intelligence to assess likely storm and flood consequences;

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- Monitor weather and flood information – [www.bom.gov.au](http://www.bom.gov.au);
  - Assess Command and Control requirements;
  - Review local resources and consider needs for further resources regarding personnel, property protection, storm/flood rescue and air support;
  - Notify and brief appropriate officers. This includes Regional Control Centre (RCC) (if established), State Control Centre (SCC) (if established), Council (as outlined in the Mornington Peninsula Shire MEMP) , other emergency services through the EMT;
  - Assess ICC readiness (including staffing of IMT and EMT) and open if required;
  - Ensure flood bulletins and community information are prepared and issued to the community;
  - Monitor watercourses and undertake reconnaissance of low-lying areas;
  - Develop media and community information management strategy;
  - Ensure storm and flood mitigation works are being checked by owners;
  - Develop and issue incident action plan, if required;
  - Develop and issue situation report, if required.

### **3.3.8 On Receipt of the First and Subsequent Storm and/or Flood Warnings**

The VICSES RDO or the IC will undertake actions as defined within the flood intelligence cards (**Appendix C**). General considerations by the VICSES RDO/IC will be as follows:

- Develop an appreciation of current flood levels and predicted levels. Are floodwaters, rising, peaking or falling?
- Review storm/flood intelligence to assess likely flood consequences. Consider:
  - What areas may be at risk of inundation
  - What areas may be at risk of isolation
  - What areas may be at risk of indirect affects as a consequence of power, gas, water, telephone, sewerage, health, transport or emergency service infrastructure interruption
  - The characteristics of the populations at risk
- Determine what the at-risk community need to know and do as the storm and/or flood develops.
- Warn the at-risk community including ensuring that an appropriate warning and community information strategy is implemented including details of:
  - The current storm and/or flood situation
  - Flood predictions
  - What the consequences of predicted levels may be
  - Public safety advice
  - Who to contact for further information
  - Who to contact for emergency assistance
- Liaise with relevant asset owners as appropriate (i.e. water and power utilities)
- Implement response strategies as required based upon storm /or flood consequence assessment.

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- Continue to monitor the storm / flood situation – [www.bom.gov.au/](http://www.bom.gov.au/)
  - Continue to conduct reconnaissance of low-lying areas

### 3.4 Community Information and Warnings

Guidelines for the distribution of community information and warnings are contained in the VICSES Central Region State Storm and Flood Emergency Plans.

Community information and warnings communication methods available include:

- Emergency Alert;
- Phone messages (including SMS);
- Radio and Television;
- Two-way radio;
- Mobile and fixed public address systems;
- Sirens;
- Verbal Messages (i.e. Doorknocking);
- Agency Websites;
- VicEmergency Hotline;
- Variable Message Signs (i.e. road signs);
- Community meetings;
- Newspapers;
- Email;
- Telephone trees;
- Community Flood Wardens;
- Fax Stream;
- Newsletters;
- Letter drops;
- Social media and/or social networking sites (i.e. twitter and/or Facebook).

Refer to **Appendix C** and **E** for the specific details of how community information and warnings are to be provided.

The release of flood bulletins and information with regard to response activities at the time of a flood event is the responsibility of VICSES, as the Control Agency.

Responsibility for public information, including media briefings, rest with VICSES as the Control Agency. VICSES with support from Mornington Peninsula Shire will warn individuals within the community where practical of community storm and /or flood warnings.

Other agencies such as CFA, DELWP and VICPOL may be requested to assist VICSES with the communication of community storm and/or flood warnings.

In cases where severe flash flooding is predicted, dam failure or landslide is likely or flooding necessitating evacuation of communities is predicted, the IC may consider the use of the Emergency Alert System and Standard Emergency Warning System (SEWS).

DHHS will coordinate information regarding public health and safety precautions.

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### 3.5 Media Communication

The IC through the Information Unit established at the ICC will manage Media communication. If the ICC is not established the RDO will manage all media communication. The ICC will work with the Mornington Peninsula Shire to ensure that consistent and timely messaging occurs.

### 3.6 Impact assessment

An impact assessment can be conducted in accordance with Part 3 of the EMMV to assess and record the extent and nature of damage caused by storm and/or flooding. This information may then be used to provide the basis for further needs assessment and recovery planning by DHHS and applicable recovery agencies.

The control agency is responsible for coordinating the collection, collations and dissemination of IA information on a whole-of government basis during the emergency response. The purpose, function and conduct of IAs are outlined in the State Storm Emergency Plan and State Flood Emergency Plan. All IAs should be conducted in accordance with Part 3 of the EMMV.

### 3.7 Preliminary Deployments

When storm impacts and/or flooding is expected to be severe enough to cut access to towns, suburbs and/or communities the IC will consult with relevant agencies to ensure that resources are in place if required to provide emergency response. These resources might include emergency service personnel, food items and non-food items such as medical supplies, shelter, assembly areas, relief centres etc. in line with Mornington Peninsula Shire MEMP.

### 3.8 Response to Flash Flooding

Emergency management response to flash flooding should be consistent with the guideline for the emergency management of flash flooding contained within the VICSES Central Region Storm and Flood Emergency Plans and State Storm Emergency Plan and State Flood Emergency Plan.

When conducting pre-event planning for flash floods the following steps should be followed, and in the order as given:

1. Determine if there are barriers to evacuation by considering warning time, safe routes and resources available;
2. Should evacuation be the adopted strategy and it must be supported by a public information capability and a rescue contingency plan;
3. Where its likely people will become trapped by floodwaters, safety advice needs to be provided to people at risk advising them not to attempt to flee by entering floodwater if they become trapped, and that it may be safer to seek the highest point within the building and to telephone 000 if they require rescue;
4. For buildings known to be structurally un-suitable an earlier evacuation trigger will need to be established (return to step 1 of this cycle).
5. If an earlier evacuation is not possible then specific preparations must be made to rescue occupants trapped in structurally unsuitable buildings either pre-emptively or as those people call for help.

Due to the rapid development of flash flooding it will often be difficult, to establish emergency relief centres ahead of triggering the evacuation. This is normal practice but this is insufficient justification for not adopting evacuation.

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Response arrangements for flash flood events may be contained in **Appendix C**. Refer to the Vic Road Website for road closures (<http://alerts.vicroads.vic.gov.au>).

### 3.9 Evacuation

In Victoria, evacuation is largely voluntary, however in particular circumstances, legislation provides some emergency services with authority to remove people from areas or prohibit their entry.

The decision to recommend or warn people to prepare to evacuate or to evacuate immediately rests with the IC and where possible the EMT.

It is the choice of individuals as to how they respond to this recommendation.

Once the decision is made, VicPol are responsible for the coordination of the evacuation process. VICSES and other agencies will assist where practical. VICSES is responsible for the development and communication of evacuation warnings.

VicPol may take on the responsibility with support from Australian Red Cross of registering people affected by the emergency (through the register find reunite program) including those who have been evacuated.

Refer to Evacuation Guidelines in Part 8 of the EMMV, Part 3 of the EMMV and Mornington Peninsula Shire MEMPlan Part 6 Relief and Recovery arrangements for guidance on evacuations for storm and/or flood emergencies.

Refer to Appendix C of this Plan for detailed evacuation arrangements for Mornington Peninsula Shire.

### 3.10 Flood Rescue

VicPol, as the designated Control Agency for water rescue, coordinates rescues undertaken during flood events.

In order to activate water rescue services, VICSES as a Control Agency for overall flood response, will identify areas at risk of requiring rescue and notify the Officer in Charge of the Water Police Search and Rescue Squad to request pre-deployment of rescue resources to those areas.

In conducting rescues VicPol may require the assistance of appropriately trained and equipped personnel. In these circumstances, appropriately trained and equipped VICSES units or other agencies may carry out rescues.

Rescue operations may be undertaken where voluntary evacuation is not possible, has failed or is considered too dangerous for an at-risk person or community. An assessment of available flood rescue resources (if not already done prior to the event) should be undertaken prior to the commencement of Rescue operations.

Rescue is considered a high-risk strategy to both rescuers and persons requiring rescue and should not be regarded as a preferred emergency management strategy. Rescuers should always undertake a dynamic risk assessment before attempting to undertake a flood rescue.

Resources available for use for rescues to be carried out in Mornington Peninsula can be/are detailed in the MEMPlan.

### 3.11 Aircraft Management

Aircraft can be used for a variety of purposes during storm and/or flood operations including evacuation, resupply, reconnaissance, intelligence gathering and emergency travel.

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Air support operations will be conducted under the control of the IC in line with State Aircraft Unit Policy 01-Air Operations.

### 3.12 Resupply

Communities, neighbourhoods or households can become isolated during storm and/or floods as a consequence of road closures or damage to roads, bridges and causeways. Under such circumstances, the need may arise to resupply isolated communities/properties with essential items.

When predictions/intelligence indicates that communities, neighbourhoods and/or households may become isolated and if time permits, VICSES will advise businesses and/or households that they should stock up on essential items.

After the impact, VICSES can support isolated communities through assisting with the transport of essential items to isolated communities and assisting with logistics functions.

Resupply operations are to be included as part of the emergency relief arrangements with VICSES working with the relief agencies to service communities that are isolated.

### 3.13 Essential Infrastructure and Property Protection

Essential Infrastructure and Property (e.g. residences, businesses, roads, power supply etc.) may be affected in the event of a storm/or flood.

The IC will ensure that owners of Essential Infrastructure are kept advised of the storm/flood situation. Essential Infrastructure providers must keep the IC informed of their status and ongoing ability to provide services.

Mornington Peninsula Shire maintains a small stock of sandbags and back-up supplies are available through the VICSES Regional Headquarters. The IC will determine the priorities related the use of sandbags, which will be consistent with the State Strategic Control Priorities and VICSES Sandbagging policy.

If VICSES sandbags are becoming limited in supply, then priority will be given to protection of Essential Infrastructure. Other high priorities may include for example the protection of historical buildings.

Property may be protected by:

- Sandbagging to minimise entry of water into buildings
- Encouraging businesses and households to lift or move contents
- Construction of temporary levees in consultation with the CMA, LGA and VICPOL and within appropriate approval frameworks.

Refer to **Appendix C** for further specific details of essential infrastructure requiring protection.

### 3.14 Disruption to Services

Disruption to services other than essential infrastructure and property can occur in storm and/or flood events. Refer to **Appendix C** for specific details of likely disruption to services and proposed arrangements to respond to service disruptions in Mornington Peninsula.

### 3.15 Road Closures

VicPol, VicRoads and Mornington Peninsula Shire will carry out their formal functions of road closures. This includes observation and placement of warning signs, road blocks to its

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designated local and regional roads, bridges, walking and bike trails. VicPol may liaise with and advise Mornington Peninsula Shire and VicRoads of the need to erect warning signs and / or of closure of roads and bridges. VicRoads are responsible for designated main roads and highways and Mornington Peninsula Shire is responsible for the designated local and regional road network.

VicPol, VicRoads and Mornington Peninsula Shire will communicate community information regarding road closures.

### **3.16 Dam Failure**

DELWP is the Control Agency for dam safety incidents (e.g. breach, failure or potential breach / failure of a dam), however VICSES is the Control Agency for any flooding that may result.

Details of the major dams within the Mornington Peninsula Shire with potential to cause structural and community damage within the Municipality are contained in **Appendix A**.

### **3.17 Waste Water related Public Health Issues and Critical Sewerage Assets**

Inundation of critical sewerage assets including septic tanks and sewerage pump stations may result in water quality problems within the Municipality. Where this is likely to occur or has occurred the responsibility agency for the critical sewerage asset should undertake the following:

- Advise VICSES of the security of critical sewerage assets to assist preparedness and response activities in the event of flood;
- Maintain or improve the security of critical sewerage assets;
- Check and correct where possible the operation of critical sewerage assets in times of flood;
- Advise the ICC in the event of inundation of critical sewerage assets.

It is the responsibility of the Mornington Peninsula Shire Environmental Health Officer to inspect and report to the MERO and the ICC on any water quality issues relating to flooding.

General Public Health information and messages are provided by DHHS and Mornington Peninsula Shire and may contain information that is relevant prior to, during and following an incident. Information may also be provided in sub plans to the MEMP, specific health notifications and, after discussion within the EMT may be included in Flood Bulletins

### **3.18 After Action Review**

VICSES will coordinate the after action review arrangements of storm and/or flood operations as soon as practical following an event.

All agencies involved in the storm and/or flood incident should be represented at the After Action Review.

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## Part 4. EMERGENCY RELIEF AND RECOVERY ARRANGEMENTS

### 4.1 General

Arrangements for recovery from any emergency, including storm/flood incident within Mornington Peninsula is detailed in the Part 6 Relief and Recovery arrangements of the Mornington Peninsula Shire MEMP.

### 4.2 Emergency Relief

The MERC, MERO and MRM determine the Emergency Relief requirements, it is the IC's responsibility to ensure that they are notified early and are engaged to ensure that the messaging that goes out has the right information in it. These should be carried out in line with the Mornington Peninsula Shire MEMP.

The range and type of emergency relief services to be provided in response to a storm/flood event will be dependent upon the size, impact, and scale of the storm/flood. Refer to 4 of the EMMV for details of the range of emergency relief services that may be provided.

Suitable relief facilities identified for use during storm/floods are detailed in **Appendix D** and/or the MEMP.

Details of the relief arrangements are available in the Mornington Peninsula Shire MEMP.

### 4.3 Animal Welfare

Matters relating to the welfare of livestock, companion animals including feeding and rescue are to be referred to DELWP.

Requests for emergency supply and/or delivery of fodder to stranded livestock or for livestock rescue are to be referred to DELWP.

Matters relating to the welfare of wildlife are to be referred to DELWP.

### 4.4 Transition from Response to Recovery

VICSES as the Control Agency is responsible for ensuring effective transition from response to recovery for storm and flood incidents.

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# **APPENDIX A - FLOOD THREATS FOR MORNINGTON PENINSULA**

## **GENERAL**

The Municipal area is on the Mornington Peninsula, located south of Melbourne, with an area of 722.3 km<sup>2</sup>. See Map B in Appendix F for features located within the municipality. The Municipality has a diverse mix of land use ranging from urban areas, large nature reserves, tourist developments, rural land and economic hubs. Significant new residential 'greenfield' opportunities are developing throughout the Municipality, particularly in areas such as Rosebud, Hastings and Safety Beach as projects such as Peninsula Link reduce the travel time for commuters to, for example, Melbourne, Frankston or Dandenong central business districts (CBDs). A majority of the land within the Shire is zoned Green Wedge Zone (GWZ) followed by large areas of Residential Zone 1 (R1Z) particularly along the Port Phillip coastline. There are also large areas of Public Conservation and Resource Zone (PCRZ), Low Density Residential Zone (LDRZ) and Public Use Zone 1 (PUZ1), generally reserved for services and utilities.

## **RIVERINE FLOODING**

Large severe floods within the Municipality generally occur as a result of a moist warm airflow from northern Australia bringing moderate to heavy rainfall over a period of 12 hours or more following a prolonged period of general rainfall. The period of general rainfall "wets up" the catchments and (partially) fills both the on-stream dams and the natural floodplain storage. These combine to increase the runoff generated during the subsequent period of heavy rainfall.

Large but less severe floods result from sequences of cold fronts during winter and spring that progressively wet up the catchments and fill the on-stream dams and the natural floodplain storage. Prolonged moderate to heavy rain leads to major flooding.

## **FLASH FLOODING & OVERLAND FLOWS**

Short Duration, high intensity rainfall (usually associated with thunderstorms) can also cause localised flooding within the municipality along overland flow paths when the local urban drainage system surcharges. Such events, which are mainly confined to the summer months, do not generally create widespread flooding since they only last for a short time and affect limited areas. Flooding from these storms occurs with little warning and localised damage can be severe.

High intensity rainfall such as associated with thunderstorms giving average rainfall rates of more than 20mm/hour for an hour or more is likely to lead to flash flooding and / or overland flows, across the urbanised parts of the municipality.

Blocked or capacity impaired stormwater drains can also lead to overland flows and associated flooding: the drain surcharges and excess water flows above ground.

## TIDAL FLOODING & STORM SURGES

Moderate to heavy rainfall, coupled with a high or incoming tide from Port Phillip Bay or Western Port Bay can exacerbate flooding within the Municipality or create areas of flooding in and around the drainage network. Due to areas of flat terrain and the proximity of the Municipality to Port Phillip Bay and Western Port Bay, tidal flows from Port Phillip Bay or Western Port Bay may reduce the capacity of the stormwater drains to discharge runoff back into the bay, while extreme storm events can cause backflow to the point where water surcharges back above ground around the drainage pits and channels.

## DESCRIPTION OF MAJOR WATERWAYS & DRAINS

The Municipality consists of a high number of small catchments which drain into Port Phillip Bay, Western Port Bay or Bass Strait. The catchments are generally characterised by rural or undeveloped areas in the upper regions of the catchment with more urban areas along or near the coast. The main waterway systems running through the Shire are the Merricks, Main, Balcombe, Dunns, Manton, Stony, Watson, Warringine, Drum Drum Alloc, Chinamans, Kackeraboite and Tanti Creeks (Figure A1)

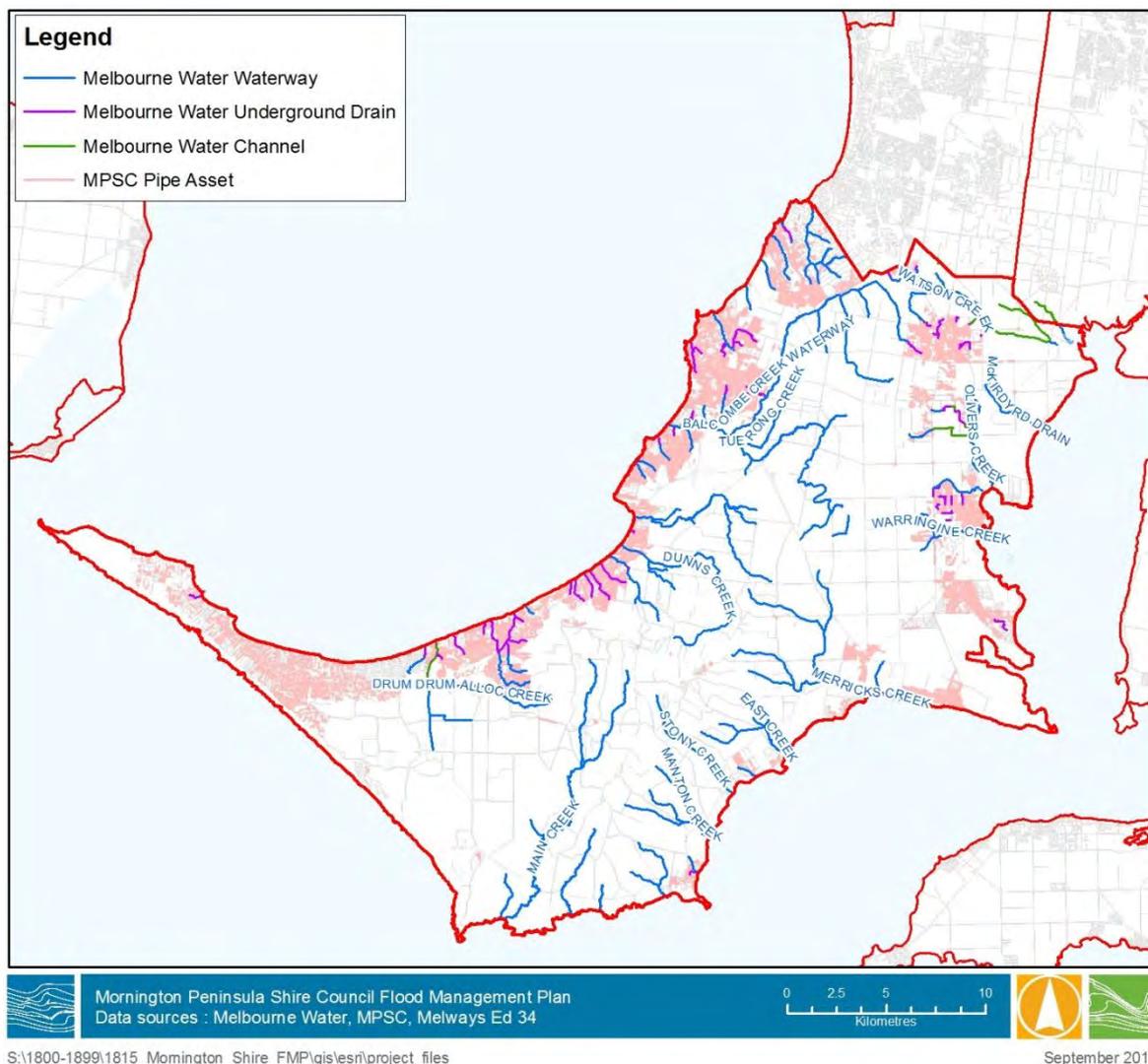


Figure A1 – Major Waterways within Mornington Peninsula Shire

The table below lists the drains and waterways managed by Melbourne Water in Mornington Peninsula Shire.

Melbourne Water Waterway / Drain		
Balcolombe Creek	East Creek	Sheepwash Creek West Brach
Bald Hill Creek	Finlayson Creek	Somerville D.S.
Ballar Creek	Fishermans Creek	Splitters Creek
Barakee Reserve Outfall Drain	Gomms Rd Drain	Spring Creek
Baxter Central Outfall	Gunyong Creek	Stockyard Creek
Baxter West D.S.	Harrap Rd Drain	Stony Creek
Boneo Rd Drain	Hearn Creek	Summerfield Drive Drain
Boundary Creek	Kackeraboite Creek	Sunshine Creek
Brokil Creek	Kangerong Creek	Talbot Grove Drain
Browns Road Drain	Kings Creek	Tanti Creek
Bulldog Creek	Kinlora Drain	Tarana Street Drain
Burrabong Creek	Koondah Street Drain	Tea Tree Creek
Camp Buxton	Lightwood Creek	The Avenue Drain
Chinamans Creek	Main Creek	Tonkin Creek
Coburn Creek	Manmangur Creek	Tootgarook Wetland
Codrington St Drain	Manton Creek	Trib Watsons Creek Hendersons Road
Cook Street Drain	McCullogh/ Heales Rd Drain	Tubbarubba Creek
Coolart Creek	McKirdy Rd Drain	Tuerong Creek
Cotton Tree Creek	Merricks Creek	Tulum Creek
Crib Point Drain	Murray Anderson Creek	Warringine Creek
David MacFarlan Reserve	Musk Creek	Waterfall Creek
Devil Bend Creek	Olivers Creek	Waterholes Creek
Dodds Creek	Olivers Creek Tyabb Drain	Waterholes Creek North Branch
Double Creek	Pearcedale South	Watsons Creek
Drum Drum Alloc Creek	Pier Street Drain	Yuilles Road Drain
Dunns Creek	Rosebud Parade Drain	
Earimil Creek	Sheepwash Creek	

Table A1 – Melbourne Water Drains and Waterways within or bordering Mornington Peninsula

## FLOOD MITIGATION SYSTEMS

Flood mitigation has predominantly been developed in the form of 9 Retarding Basins and 1 Pumping Station. These flood mitigation systems are as follows in the tables below. To view their locations and connecting waterway/drainage systems, see map B in **Appendix F**. There are no formal levees built within Mornington Peninsula.

### RETARDING BASINS

Melbourne Water Retarding Basin	On Drain/ Waterway	Spillway Crest Level	Full Supply Level	Embankment Crest Height	Storage Capacity	ANCOLD Hazard Rating	Houses In Flow Path (dam breach)	Melway Reference
Archer Drive	Tarana Street Drain	25.25m AHD	Unavailable	1m	Unavailable	High C	Unavailable	104 K12
Barakee Reserve	Barakee Reserve Outfall Drain	74.85 AHD	74.85 AHD	2m 75.25 AHD	44 ML	Significant	0	148 B2
Bayview Ave	Murray Anderson Creek	Unavailable	Unavailable	2-3m 39 AHD	11 ML	Low	Unavailable	170 G6
Bentons Road	Serpentine Wetlands Drain	Unavailable	Unavailable	Unavailable	32 ML	Very Low	Unavailable	146 B8
Brasser Ave	Boundary Creek	Unavailable	14 AHD	0.5-1.0m 14 AHD	Unavailable	High C	Unavailable	160 C7
George Avenue	Olivers Creek	Unavailable	Unavailable	3.2m 23.6m AHD	213 ML	Significant	Unavailable	148 G10
Kinlora	Kinlora D.S.	41.8m AHD	41.8m AHD	3.5m 42m AHD	22 ML	Low	Unavailable	148 H2
Somerville Bushland	Barakee Reserve Outfall Drain	67.3m AHD	67.3m AHD	1.5m 67.8m AHD	5.3 ML	Very Low	0	148A2
Tanti Creek	Tanti Creek	41m AHD	41m AHD	5.35m 42m AHD	Unavailable	High C	Unavailable	145 J2

Table A2 – Melbourne Water Retarding Basins within Mornington Peninsula

A number of reserves and parklands also act as retarding basins during flooding events. These include:

Reserve / Park	On Drain / Waterway	Location	Melway Reference
David MacFarlan Reserve Wetland	David MacFarlan Reserve	David MacFarlan Reserve , Hurley Street, Sorrento	157 A7
Nunns Reserve	Fishermans Creek	Nunns Road Mornington	145 C2
Pine Avenue Reserve	Fishermans Creek	Pine Avenue, Mornington	145 D2
Edward Berry Reserve	Tanti Creek	Phillip Street, Mornington	104 E10
Earimil Creek Reserve	Earimil Creek	Acheron Avenue, Mount Eliza	105 E2
Jessie White Reserve	Earimil Creek	Acheron Avenue, Mount Eliza	105 E3
Westernport Park	Kings Creek	Marine Parade, Hastings	154 J8
Hastings Park	Kings Creek	Marine Parade, Hastings	154 H8
Coolart Wetlands	Merricks Creek	Lord Somers Road, Somers	193 G9
Boonerwung Wetlands	Chinamans Creek	SEW Boneo Treatment Plant, Limestone Road, Boneo	252 J3

Table A3 – Reserves & Parklands along waterways within Mornington Peninsula

There is one retarding basin directly adjacent to Mornington Peninsula in the City of Frankston that may provide a minor flood mitigation effect during a flood event

Melbourne Water Retarding Basin	On Drain/ Waterway	Spillway Crest Level	Full Supply Level	1% AEP Flood Level	Embankment Crest Height	Storage Capacity	ANCOLD Hazard Rating	Houses In Flow Path (sunny day)	Melway Reference
Garden Brae Court	Baxter East D.S.	Unknown	Unknown	Unknown	4m	0.5MI	Very Low	0	107 F4

Table A4 – Melbourne Water Retarding Basins within City of Frankston

## PUMPING STATIONS

Melbourne Water Pumping Station	On Drain / Waterway	Location	No. of Pumps	Capacity	Trigger Levels (Start and Stop) Or Consequence of Failure	Melway Reference
David MacFarlan Reserve	David MacFarlan Reserve Drain	David MacFarlan Reserve on Hurley Street, Sorrento	2	Two submersible pumps (129L/sec)	Unavailable	157 A7

Table A5 – Melbourne Water Pumping Stations within Mornington Peninsula

## FLOOD WARNING SYSTEM

Within Mornington Peninsula, there are 5 hydrographic monitoring sites; Moorooduc Rain Gauge on Devil Bend Creek at Moorooduc Reservoir, Arthurs Seat Rain Gauge at Seawinds National Park, the Cerberus AWS and a Tide Recorder at the Mornington Yacht Club.

Hydrographic Monitoring Station	Station No.	Location	Stream Level & Flow Gauge	Rain Gauge	Melway Reference
Arthurs Seat	586202	Seawinds Reserve off Purves Road, Arthurs Seat		✓	159 E12
Cerberus AWS (BoM)	86361	HMAS Cerberus		✓	194 F3
Moorooduc	586206	West bank of Devilbend Creek, Moorooduc 100m d/s of Devilbend Reservoir Dam Wall		✓	152 H2
Mornington Tide Recorder	228397A	Mornington Yacht Club on Schnapper Point Drive, Mornington	✓		104 D9

Table A6 – Hydrographic Monitoring Stations within Mornington Peninsula

There are 7 other Melbourne Water monitoring stations in Mornington Peninsula as noted below.

Monitoring Station	Station No.	Owner	Gauge Type	Melway Reference
Balcombe Creek at Mount Martha	228386B	Melbourne Water	nil	145 D11
Warrangine Creek d/s Frankston-Flinders Road, Hastings	228249A	Melbourne Water	nil	164 G1
Chinamans Creek at Eastbourne Road	228252A	Melbourne Water	nil	169 J3
Main Creek at Boneo Road Cape Schanck	228253A	Melbourne Water	nil	260 A9
Dunns Creek at Marine Parade, Safety Beach	228254A	Melbourne Water	nil	160 C2
Merricks Creek at Bridge Street Balnarring	228389A	Melbourne Water	nil	193 C9
Watsons Creek at Somerville	228250A	Melbourne Water	nil	149 K2

Table A7 – Melbourne Water Non telemeted Hydrographic Monitoring Stations within Mornington Peninsula

There are no assigned Flood Class Levels for waterways within Mornington Peninsula due to small catchment sizes and prevalence of flash flooding. Melbourne Water does not issue any flood warning service for Mornington Peninsula at this point, due to the generally short warning times available.

Rain gauges at Devilbend Reservoir & Arthurs Seat may provide some warning of expected flooding. Any appropriate warning will be placed on the Bureau's website (<http://www.bom.gov.au/vic/warnings/index.shtml>). While the Mornington Peninsula Shire monitors these warnings in times of high rainfall, there are no specific guidelines to advise how these situations should be responded to.

## HISTORIC FLOODS

Significant floods to have occurred within Mornington Peninsula are as follows in the table below. Due to the absence of telemetered Melbourne Water gauges in the Shire, heights and flood classes are not able to be shown to date.

Event	Moorooduc (586206)	Arthurs Seat (586202)
	Rainfall at Gauge	Rainfall at Gauge
November 1954	-	-
July 1963	-	-
July 1987	-	-
3 <sup>rd</sup> February 2005	-	158mm / 32hrs
13 <sup>th</sup> December 2008	77mm / 27hrs	90mm / 31hrs
6 <sup>th</sup> April 2010	14mm / 3hrs	12mm / 3 hrs
30 <sup>th</sup> October 2010	63mm / 21hrs	45mm / 21hrs
3 <sup>rd</sup> December 2010	22mm / 7hrs	15mm / 8hrs
4 <sup>th</sup> February 2011	55mm / 10hrs	16mm / 7hrs
9 <sup>th</sup> November 2011	29mm / 7hrs and then 22mm / 5hrs 33hrs later	16mm / 5 hrs
26 <sup>th</sup> November 2011	40mm / 14hrs	54mm / 14hrs
27 <sup>th</sup> February 2012	30mm / 8hrs	57mm / 7hrs
25 <sup>th</sup> May 2012	39mm / 13hrs	62mm / 15hrs
29 <sup>th</sup> December 2016	18mm / 1hr	16mm / 1hr

Table A8 – Selection of Historical Flood Events within Mornington Peninsula

## DAM FAILURE

Flooding resulting from failure of the following dams is likely to cause significant structural and community damage within Mornington Peninsula. See Dam Failure in Section 3 of this plan for more information. Note that if the storage capacity is reached and water flows over the spillway, this is not to be referred to as a flow release or a storage breach or failure.

Dam Name	Location	Owner	Dam Capacity	Full Supply Level	Melway Reference
Bittern Reservoir	Hodgins Road, Tuerong	Parks Victoria	575 MI	75.534m AHD	153 B10
Devilbend Reservoir	Graydens Road Tuerong	Parka Victoria	14,600 MI	70.525m AHD	152 J6

Table A9 – Melbourne Water Reservoirs that pose a risk to the Mornington Peninsula from Dam Failure

Service Reservoirs located within the Municipality are listed below.

Melbourne Water Service Reservoir	Location	Material	Reservoir Capacity	Melway Reference
Dromana Reserve- Earthen Basin	Old White Hill Road, Dromana	Earth	79ML	160 H9
Mornington Reservoir	Mornington Reservoir, Shotton Road, Mount Eliza	Steel tank	33ML	105 C9
Tyabb Storage Service Reservoir	Flood Street Tyabb	Earth	318ML (216ML usable)	147 K12

Table A10 – Melbourne Water Service Reservoirs in the Mornington Peninsula

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## **APPENDIX B - TYPICAL FLOOD PEAK TRAVEL TIMES**

There are no major watercourses running through the Mornington Peninsula Shire with enough length for flood peak travel times to be of use and as such, Flood Peak Travel Time information is not applicable for this municipality.

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# APPENDIX C1 – MOUNT ELIZA FLOOD EMERGENCY PLAN

## OVERVIEW OF FLOODING CONSEQUENCES

The main waterways through Mount Eliza are Kackeraboite Creek, Ballar Creek, Earimil Creek and Gunyong Creek. Kackeraboite Creek receives several tributaries while flowing north across Mount Eliza and crosses the Nepean Highway before following the City of Frankston/ Mornington Peninsula border to discharge into Port Phillip Bay.

Ballar Creek flows north from Mount Eliza Tennis and Bowls Club and continues through residential areas between Canadian Bay Road and Glen Shian Lane before discharging to Port Phillip Bay at Canadian Bay Boat Club.

Earimil Creek rises adjacent to The Peninsula School, crosses under the Nepean Highway and flows north through reserves in residential zones before discharging into Port Phillip Bay at the lookout at the end of Earimil Drive.

Gunyong Creek begins at Nepean Highway opposite Tower Road and flow north through rural land, discharging into Port Phillip Bay south of Moondah Beach.

## WARNING TIMES

No formal warning times are available for Mount Eliza due to small catchment sizes in the area and the prevalence of flash flooding and short warning times available.

Rain gauges present at Devilbend Reservoir and Arthurs Seat may provide some warning of expected flooding. See the Melbourne Water website for more information on these gauges: <http://www.melbournewater.com.au/waterdata/rainfallandriverveldata/Pages/Rainfall-and-river-level-new.aspx>. It is advised that residents monitor the Bureau of Meteorology's website <http://www.bom.gov.au/> and the VicEmergency website <https://emergency.vic.gov.au/> for any thunderstorm, flood or severe weather warnings present for their area.

# AREAS OF FLOOD RISK



Flood Modelling completed by Melbourne Water & Cardno, Dec 2011. Map Produced by VicSES June 2017

**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
 Areas of flood risk around Mount Eliza

- 1% AEP Riverine Flood Extent
- 1% AEP Flash Flood Extent
- 1% AEP Storm Surge Flood Extent
- Park / Reserve
- River / Creek / Channel
- Area Boundary for this Appendix
- C Community Centre
- S School / College
- + Hospital
- F CFA Fire Station



This map publication is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.

Figure C1 – Areas of flood risk around Mount Eliza

## PROPERTIES AT FLOOD RISK

Properties listed in the table below are at risk from flooding around Mount Eliza. As more intelligence becomes available, this list may change. This table has been populated based on modelling work as part of the Ballar Creek (Melbourne Water and Cardno, Dec 2011) and the Kackeraboite Creek (Melbourne Water, June 2010) flood mapping and risk assessment programs.

*This Property Flood Risk Table is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.*

Properties at risk from Flooding over floor in Mount Eliza					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
-	-	✓	6 Albatross Avenue	Mount Eliza	Gunyong Creek
✓	✓	✓	21A Bareena Drive	Mount Eliza	Kackeraboite Creek
✓	✓	✓	3 Barton Drive	Mount Eliza	Ballar Creek
-	-	✓	4 Barton Drive	Mount Eliza	Ballar Creek
-	-	✓	6 Barton Drive	Mount Eliza	Ballar Creek
-	-	✓	18 Barton Drive	Mount Eliza	Ballar Creek
-	✓	✓	25 Barton Drive	Mount Eliza	Ballar Creek
-	✓	✓	61 Bellbird Road	Mount Eliza	Kackeraboite Creek
-	✓	✓	1 Beluga Street	Mount Eliza	Gunyong Creek
✓	✓	✓	2 Beluga Street	Mount Eliza	Gunyong Creek
-	✓	✓	2A Beluga Street	Mount Eliza	Gunyong Creek
-	✓	✓	5 Beluga Street	Mount Eliza	Gunyong Creek
-	✓	✓	7 Beluga Street	Mount Eliza	Gunyong Creek
-	✓	✓	9 Beluga Street	Mount Eliza	Gunyong Creek
-	-	✓	13 Beluga Street	Mount Eliza	Gunyong Creek
-	-	✓	32 Beluga Street	Mount Eliza	Gunyong Creek
-	✓	✓	37 Beluga Street	Mount Eliza	Gunyong Creek
-	-	✓	44 Beluga Street	Mount Eliza	Gunyong Creek
-	-	✓	46 Beluga Street	Mount Eliza	Gunyong Creek
-	-	✓	49 Beluga Street	Mount Eliza	Gunyong Creek
-	-	✓	52 Beluga Street	Mount Eliza	Gunyong Creek
-	-	✓	56 Beluga Street	Mount Eliza	Gunyong Creek
-	✓	✓	63 Beluga Street	Mount Eliza	Gunyong Creek
-	✓	✓	64 Beluga Street	Mount Eliza	Gunyong Creek
-	✓	✓	65 Beluga Street	Mount Eliza	Gunyong Creek
-	-	✓	66 Beluga Street	Mount Eliza	Gunyong Creek
-	✓	✓	67 Beluga Street	Mount Eliza	Gunyong Creek
-	-	✓	69 Beluga Street	Mount Eliza	Gunyong Creek
-	-	✓	72 Beluga Street	Mount Eliza	Gunyong Creek
-	-	✓	86 Beluga Street	Mount Eliza	Gunyong Creek
-	-	✓	18 Berkeley Court	Mount Eliza	Kackeraboite Creek
-	-	✓	2/1-3 Betty Avenue	Mount Eliza	Ballar Creek
-	-	✓	12 Brian Court	Mount Eliza	Kackeraboite Creek

**Properties at risk from Flooding over floor in Mount Eliza**

Properties at risk from Flooding over floor in Mount Eliza					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
-	-	✓	12 Bundara Crescent	Mount Eliza	Earimil Creek
-	✓	✓	14 Bundara Crescent	Mount Eliza	Earimil Creek
-	✓	✓	16 Bundara Crescent	Mount Eliza	Earimil Creek
-	✓	✓	10 Burnell Street	Mount Eliza	Earimil Creek
-	-	✓	12 Burnell Street	Mount Eliza	Earimil Creek
-	✓	✓	22 Burnell Street	Mount Eliza	Earimil Creek
-	-	✓	28 Burnell Street	Mount Eliza	Earimil Creek
-	-	✓	3 Cameron Way	Mount Eliza	Gunyong Creek
-	✓	✓	19 Canadian Bay Road	Mount Eliza	Ballar Creek
-	✓	✓	204 Canadian Bay Road	Mount Eliza	Earimil Creek
✓	✓	✓	249 Canadian Bay Road	Mount Eliza	Kackeraboite Creek
✓	✓	✓	260 Canadian Bay Road	Mount Eliza	Kackeraboite Creek
✓	✓	✓	313 Canadian Bay Road	Mount Eliza	Kackeraboite Creek
✓	✓	✓	333 Canadian Bay Road	Mount Eliza	Kackeraboite Creek
✓	✓	✓	5 Cummins Lane	Mount Eliza	Kackeraboite Creek
-	✓	✓	7-9 Cummins Lane	Mount Eliza	Kackeraboite Creek
-	✓	✓	11 Cummins Lane	Mount Eliza	Kackeraboite Creek
✓	✓	✓	25 Cummins Lane	Mount Eliza	Kackeraboite Creek
✓	✓	✓	18 Erang Drive	Mount Eliza	Kackeraboite Creek
-	✓	✓	40A Fulton Road	Mount Eliza	Kackeraboite Creek
-	-	✓	22 Gannet Street	Mount Eliza	Gunyong Creek
-	-	✓	15 Gaskell Avenue	Mount Eliza	Gunyong Creek
-	-	✓	16 Gillards Road	Mount Eliza	Kackeraboite Creek
-	✓	✓	22 Gillards Road	Mount Eliza	Kackeraboite Creek
-	-	✓	26 Gillards Road	Mount Eliza	Kackeraboite Creek
-	-	✓	28 Gillards Road	Mount Eliza	Kackeraboite Creek
-	-	✓	3 Glen Shian Crescent	Mount Eliza	Ballar Creek
-	✓	✓	5 Glen Shian Crescent	Mount Eliza	Ballar Creek
✓	✓	✓	16 Glen Shian Lane	Mount Eliza	Ballar Creek
-	-	✓	17 Glen Shian Lane	Mount Eliza	Ballar Creek
-	-	✓	18 Glen Shian Crescent	Mount Eliza	Ballar Creek
✓	✓	✓	22 Glen Shian Crescent	Mount Eliza	Ballar Creek
-	-	✓	23 Glen Shian Lane	Mount Eliza	Ballar Creek
-	✓	✓	25 Glen Shian Lane	Mount Eliza	Ballar Creek
-	✓	✓	36 Glen Shian Lane	Mount Eliza	Ballar Creek
-	-	✓	53 Glen Shian Lane	Mount Eliza	Ballar Creek
-	-	✓	46 Granya Grove	Mount Eliza	Earimil Creek
-	-	✓	57 Granya Grove	Mount Eliza	Earimil Creek
✓	✓	✓	69 Granya Grove	Mount Eliza	Earimil Creek
-	-	✓	71 Granya Grove	Mount Eliza	Earimil Creek
-	-	✓	1 Heron Street	Mount Eliza	Gunyong Creek
✓	✓	✓	12 Humphries Road	Mount Eliza	Kackeraboite Creek
-	-	✓	19 Kardella Lane	Mount Eliza	Gunyong Creek

**Properties at risk from Flooding over floor in Mount Eliza**

Properties at risk from Flooding over floor in Mount Eliza					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
-	-	✓	4 Keraboite Court	Mount Eliza	Kackeraboite Creek
-	✓	✓	4 Koetong Parade	Mount Eliza	Earimil Creek
-	-	✓	27 Koetong Parade	Mount Eliza	Earimil Creek
-	✓	✓	8 Kolora Crescent	Mount Eliza	Earimil Creek
-	✓	✓	10 Kolora Crescent	Mount Eliza	Earimil Creek
-	-	✓	16 Kolora Crescent	Mount Eliza	Earimil Creek
-	✓	✓	11 Koornalla Crescent	Mount Eliza	Drainage direct to Bay
-	-	✓	16 Koornalla Crescent	Mount Eliza	Drainage direct to Bay
-	-	✓	20 Koornalla Crescent	Mount Eliza	Drainage direct to Bay
-	-	✓	22 Koornalla Crescent	Mount Eliza	Drainage direct to Bay
-	✓	✓	85 Koornalla Crescent	Mount Eliza	Earimil Creek
-	✓	✓	87 Koornalla Crescent	Mount Eliza	Earimil Creek
-	-	✓	91 Koornalla Crescent	Mount Eliza	Earimil Creek
-	-	✓	92 Koornalla Crescent	Mount Eliza	Earimil Creek
-	-	✓	96 Koornalla Crescent	Mount Eliza	Earimil Creek
-	-	✓	98 Koornalla Crescent	Mount Eliza	Earimil Creek
-	✓	✓	102 Koornalla Crescent	Mount Eliza	Earimil Creek
-	✓	✓	104 Koornalla Crescent	Mount Eliza	Earimil Creek
-	✓	✓	107 Koornalla Crescent	Mount Eliza	Earimil Creek
-	✓	✓	109 Koornalla Crescent	Mount Eliza	Earimil Creek
✓	✓	✓	123 Koornalla Crescent	Mount Eliza	Earimil Creek
✓	✓	✓	125-127 Koornalla Crescent	Mount Eliza	Earimil Creek
-	-	✓	50 Kunyung Road	Mount Eliza	Drainage direct to Bay
✓	✓	✓	60 Kunyung Road	Mount Eliza	Drainage direct to Bay
-	✓	✓	15 Le Grand Mews	Mount Eliza	Kackeraboite Creek
-	✓	✓	35 Mather Road	Mount Eliza	Kackeraboite Creek
-	✓	✓	38 Mather Road	Mount Eliza	Kackeraboite Creek
-	✓	✓	41 Mather Road	Mount Eliza	Kackeraboite Creek
✓	✓	✓	71 Mather Road	Mount Eliza	Kackeraboite Creek
-	✓	✓	87 Mather Road	Mount Eliza	Kackeraboite Creek
✓	✓	✓	103 Mather Road	Mount Eliza	Kackeraboite Creek
-	-	✓	15 Mccutcheon Close	Mount Eliza	Kackeraboite Creek
✓	✓	✓	25 Millbank Drive	Mount Eliza	Kackeraboite Creek
-	-	✓	7 Mohilla Street	Mount Eliza	Gunyong Creek
-	✓	✓	9 Mohilla Street	Mount Eliza	Gunyong Creek
-	-	✓	1 Moondah Drive	Mount Eliza	Gunyong Creek
-	-	✓	4 Moondah Drive	Mount Eliza	Gunyong Creek
✓	✓	✓	6 Moseley Drive	Mount Eliza	Kackeraboite Creek
-	✓	✓	32 Mount Eliza Way	Mount Eliza	Ballar Creek
-	-	✓	36 Mount Eliza Way	Mount Eliza	Ballar Creek
-	-	✓	40 Mount Eliza Way	Mount Eliza	Ballar Creek
-	-	✓	47 Mount Eliza Way	Mount Eliza	Ballar Creek
-	-	✓	49 Mount Eliza Way	Mount Eliza	Ballar Creek

Properties at risk from Flooding over floor in Mount Eliza					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
-	-	✓	51 Mount Eliza Way	Mount Eliza	Ballar Creek
-	-	✓	53 Mount Eliza Way	Mount Eliza	Ballar Creek
-	-	✓	55 Mount Eliza Way	Mount Eliza	Ballar Creek
-	-	✓	57 Mount Eliza Way	Mount Eliza	Ballar Creek
-	✓	✓	1/87 Mount Eliza Way	Mount Eliza	Ballar Creek
-	✓	✓	2/87 Mount Eliza Way	Mount Eliza	Ballar Creek
-	✓	✓	3/87 Mount Eliza Way	Mount Eliza	Ballar Creek
-	-	✓	5/87 Mount Eliza Way	Mount Eliza	Ballar Creek
-	-	✓	6/87 Mount Eliza Way	Mount Eliza	Ballar Creek
✓	✓	✓	8/89 Mount Eliza Way	Mount Eliza	Ballar Creek
-	-	✓	13/89 Mount Eliza Way	Mount Eliza	Ballar Creek
-	-	✓	16/89 Mount Eliza Way	Mount Eliza	Ballar Creek
-	-	✓	104 Mount Eliza Way	Mount Eliza	Ballar Creek
-	-	✓	108 Mount Eliza Way	Mount Eliza	Ballar Creek
-	✓	✓	1/125 Mount Eliza Way	Mount Eliza	Ballar Creek
-	-	✓	2/125 Mount Eliza Way	Mount Eliza	Ballar Creek
-	-	✓	3/125 Mount Eliza Way	Mount Eliza	Ballar Creek
-	-	✓	4/125 Mount Eliza Way	Mount Eliza	Ballar Creek
-	-	✓	1255 Nepean Highway	Mount Eliza	Gunyong Creek
-	-	✓	1257 Nepean Highway	Mount Eliza	Gunyong Creek
-	-	✓	1332 Nepean Highway	Mount Eliza	Gunyong Creek
-	-	✓	1336 Nepean Highway	Mount Eliza	Gunyong Creek
-	✓	✓	1342 Nepean Highway	Mount Eliza	Gunyong Creek
-	-	✓	1575 Nepean Highway	Mount Eliza	Kackeraboite Creek
-	✓	✓	3 Nunga Court	Mount Eliza	Kackeraboite Creek
✓	✓	✓	15 Nunga Court	Mount Eliza	Kackeraboite Creek
-	-	✓	7 Oak Grove	Mount Eliza	Ballar Creek
-	✓	✓	5 Old Mornington Road	Mount Eliza	Ballar Creek
-	-	✓	126B Old Mornington Road	Mount Eliza	Kackeraboite Creek
-	-	✓	6 Osprey Avenue	Mount Eliza	Drainage direct to Bay
-	-	✓	3 Otaria Street	Mount Eliza	Gunyong Creek
-	-	✓	5 Otaria Street	Mount Eliza	Gunyong Creek
-	-	✓	10 Otaria Street	Mount Eliza	Gunyong Creek
-	-	✓	14 Otaria Street	Mount Eliza	Gunyong Creek
-	-	✓	15 Otaria Street	Mount Eliza	Gunyong Creek
-	-	✓	6 Peninsula Place	Mount Eliza	Earimil Creek
-	-	✓	10 Peninsula Place	Mount Eliza	Earimil Creek
-	-	✓	7 Pennington Close	Mount Eliza	Kackeraboite Creek
✓	✓	✓	6 Penny Lane	Mount Eliza	Ballar Creek
-	-	✓	3 Petrel Close	Mount Eliza	Gunyong Creek
-	✓	✓	6 Plover Court	Mount Eliza	Gunyong Creek
-	-	✓	1/14 Ranelagh Drive	Mount Eliza	Earimil Creek
-	-	✓	1/16 Ranelagh Drive	Mount Eliza	Earimil Creek

**Properties at risk from Flooding over floor in Mount Eliza**

Properties at risk from Flooding over floor in Mount Eliza						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
-	-	✓	1/18 Ranelagh Drive	Mount Eliza	Earimil Creek	
-	✓	✓	14 Rannoch Avenue	Mount Eliza	Drainage direct to Bay	
-	✓	✓	16 Rannoch Avenue	Mount Eliza	Drainage direct to Bay	
-	✓	✓	20 Rannoch Avenue	Mount Eliza	Drainage direct to Bay	
-	-	✓	24 Rannoch Avenue	Mount Eliza	Drainage direct to Bay	
-	✓	✓	19 Ravenscourt Crescent	Mount Eliza	Drainage direct to Bay	
-	-	✓	16 Redbourne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	18 Redbourne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	38 Redbourne Avenue	Mount Eliza	Earimil Creek	
-	✓	✓	40 Redbourne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	21 Rendlesham Avenue	Mount Eliza	Earimil Creek	
-	-	✓	23 Rendlesham Avenue	Mount Eliza	Earimil Creek	
-	-	✓	25 Rendlesham Avenue	Mount Eliza	Earimil Creek	
-	-	✓	30 Rendlesham Avenue	Mount Eliza	Earimil Creek	
-	✓	✓	41 Rendlesham Avenue	Mount Eliza	Drainage direct to Bay	
-	✓	✓	44 Roborough Avenue	Mount Eliza	Earimil Creek	
-	-	✓	52 Roborough Avenue	Mount Eliza	Earimil Creek	
-	✓	✓	12 Rosserdale Crescent	Mount Eliza	Drainage direct to Bay	
-	✓	✓	14 Rosserdale Crescent	Mount Eliza	Drainage direct to Bay	
-	-	✓	22 Rosserdale Crescent	Mount Eliza	Drainage direct to Bay	
-	✓	✓	24 Rosserdale Crescent	Mount Eliza	Drainage direct to Bay	
-	-	✓	26 Rosserdale Crescent	Mount Eliza	Drainage direct to Bay	
-	✓	✓	28 Rosserdale Crescent	Mount Eliza	Drainage direct to Bay	
-	✓	✓	30 Rosserdale Crescent	Mount Eliza	Drainage direct to Bay	
-	✓	✓	32 Rosserdale Crescent	Mount Eliza	Drainage direct to Bay	
✓	✓	✓	48 Rosserdale Crescent	Mount Eliza	Drainage direct to Bay	
-	-	✓	50 Rosserdale Crescent	Mount Eliza	Drainage direct to Bay	
✓	✓	✓	1 Rugby Court	Mount Eliza	Earimil Creek	
✓	✓	✓	2 Rugby Court	Mount Eliza	Earimil Creek	
✓	✓	✓	3 Rugby Court	Mount Eliza	Earimil Creek	
-	-	✓	8 Rugby Court	Mount Eliza	Earimil Creek	
-	-	✓	3 Rutland Avenue	Mount Eliza	Earimil Creek	
-	-	✓	11 Rutland Avenue	Mount Eliza	Earimil Creek	
-	-	✓	14 Rutland Avenue	Mount Eliza	Earimil Creek	
-	-	✓	18 Rutland Avenue	Mount Eliza	Earimil Creek	
-	-	✓	22 Rutland Avenue	Mount Eliza	Earimil Creek	
-	-	✓	24 Rutland Avenue	Mount Eliza	Earimil Creek	
-	-	✓	25 Rutland Avenue	Mount Eliza	Earimil Creek	
-	✓	✓	27 Rutland Avenue	Mount Eliza	Earimil Creek	
✓	✓	✓	31-33 Rutland Avenue	Mount Eliza	Earimil Creek	
-	✓	✓	36 Rutland Avenue	Mount Eliza	Earimil Creek	
-	✓	✓	38 Rutland Avenue	Mount Eliza	Earimil Creek	
-	✓	✓	47 Rutland Avenue	Mount Eliza	Earimil Creek	

**Properties at risk from Flooding over floor in Mount Eliza**

Properties at risk from Flooding over floor in Mount Eliza						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
-	-	✓	53 Rutland Avenue	Mount Eliza	Earimil Creek	
-	-	✓	59 Rutland Avenue	Mount Eliza	Earimil Creek	
-	-	✓	61 Rutland Avenue	Mount Eliza	Earimil Creek	
-	-	✓	68 Rutland Avenue	Mount Eliza	Earimil Creek	
-	✓	✓	9 Sandpiper Way	Mount Eliza	Gunyong Creek	
-	✓	✓	1 Seymour Avenue	Mount Eliza	Ballar Creek	
-	✓	✓	10A Seymour Avenue	Mount Eliza	Ballar Creek	
-	-	✓	1/12 Seymour Avenue	Mount Eliza	Ballar Creek	
-	-	✓	1 St James Crescent	Mount Eliza	Gunyong Creek	
-	-	✓	3 St James Crescent	Mount Eliza	Gunyong Creek	
-	-	✓	7 St James Crescent	Mount Eliza	Gunyong Creek	
-	-	✓	13 St James Crescent	Mount Eliza	Gunyong Creek	
-	-	✓	15 St James Crescent	Mount Eliza	Gunyong Creek	
-	-	✓	26 St James Crescent	Mount Eliza	Gunyong Creek	
-	-	✓	10 Sturio Parade	Mount Eliza	Drainage direct to Bay	
-	-	✓	14 Sturio Parade	Mount Eliza	Drainage direct to Bay	
-	-	✓	18 Sturio Parade	Mount Eliza	Drainage direct to Bay	
-	-	✓	20 Summerhill Crescent	Mount Eliza	Earimil Creek	
-	✓	✓	7 Tern Grove	Mount Eliza	Gunyong Creek	
-	-	✓	8 Tern Grove	Mount Eliza	Gunyong Creek	
✓	✓	✓	59 The Ridge	Mount Eliza	Kackeraboite Creek	
✓	✓	✓	12 Thornton Road	Mount Eliza	Kackeraboite Creek	
-	-	✓	4 Tourello Road	Mount Eliza	Drainage direct to Bay	
-	-	✓	3 Tower Road	Mount Eliza	Gunyong Creek	
-	-	✓	5 Tower Road	Mount Eliza	Gunyong Creek	
-	-	✓	7 Tower Road	Mount Eliza	Gunyong Creek	
-	-	✓	9 Tower Road	Mount Eliza	Gunyong Creek	
-	✓	✓	13 Tower Road	Mount Eliza	Gunyong Creek	
-	-	✓	25 Tower Road	Mount Eliza	Gunyong Creek	
-	✓	✓	27 Tower Road	Mount Eliza	Gunyong Creek	
-	-	✓	6 Valley Court	Mount Eliza	Gunyong Creek	
-	-	✓	3 View Point Avenue	Mount Eliza	Ballar Creek	
-	-	✓	5 View Point Avenue	Mount Eliza	Ballar Creek	
-	-	✓	11 View Point Avenue	Mount Eliza	Ballar Creek	
-	-	✓	14 Volitans Avenue	Mount Eliza	Gunyong Creek	
-	-	✓	20 Volitans Avenue	Mount Eliza	Gunyong Creek	
-	-	✓	54 Volitans Avenue	Mount Eliza	Gunyong Creek	
✓	✓	✓	72 Volitans Avenue	Mount Eliza	Gunyong Creek	
-	✓	✓	72A Volitans Avenue	Mount Eliza	Gunyong Creek	
-	✓	✓	74A Volitans Avenue	Mount Eliza	Gunyong Creek	
-	-	✓	75 Volitans Avenue	Mount Eliza	Gunyong Creek	
-	-	✓	82 Volitans Avenue	Mount Eliza	Gunyong Creek	
-	-	✓	86 Volitans Avenue	Mount Eliza	Gunyong Creek	

**Properties at risk from Flooding over floor in Mount Eliza**

Properties at risk from Flooding over floor in Mount Eliza						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
✓	✓	✓	18 Walkers Road	Mount Eliza	Kackeraboite Creek	
✓	✓	✓	70 Walkers Road	Mount Eliza	Kackeraboite Creek	
-	✓	✓	85 Walkers Road	Mount Eliza	Kackeraboite Creek	
-	-	✓	1/1-3 Wendy Avenue	Mount Eliza	Earimil Creek	
-	-	✓	4/1-3 Wendy Avenue	Mount Eliza	Earimil Creek	
-	-	✓	5/5 Wendy Avenue	Mount Eliza	Earimil Creek	
-	✓	✓	6/5 Wendy Avenue	Mount Eliza	Earimil Creek	
-	✓	✓	7/5 Wendy Avenue	Mount Eliza	Earimil Creek	
-	-	✓	8/5 Wendy Avenue	Mount Eliza	Earimil Creek	
-	✓	✓	8 Wimbledon Avenue	Mount Eliza	Earimil Creek	
-	✓	✓	36 Wimbledon Avenue	Mount Eliza	Earimil Creek	
-	✓	✓	40 Wimbledon Avenue	Mount Eliza	Earimil Creek	
✓	✓	✓	42 Wimbledon Avenue	Mount Eliza	Earimil Creek	
-	-	✓	82 Wimbledon Avenue	Mount Eliza	Earimil Creek	
-	-	✓	114 Wimbledon Avenue	Mount Eliza	Earimil Creek	
-	-	✓	126 Wimbledon Avenue	Mount Eliza	Earimil Creek	
-	-	✓	128 Wimbledon Avenue	Mount Eliza	Earimil Creek	
-	-	✓	130 Wimbledon Avenue	Mount Eliza	Earimil Creek	
-	-	✓	132 Wimbledon Avenue	Mount Eliza	Earimil Creek	
-	-	✓	1 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	6 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	7 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	13 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	21 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	37 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	39 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	41 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	48 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	50 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	52 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	✓	✓	54 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	57 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	61 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	✓	✓	65 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	69 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	71 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	82 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	84 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	101 Wimborne Avenue	Mount Eliza	Earimil Creek	
-	-	✓	69 Winona Road	Mount Eliza	Kackeraboite Creek	
-	✓	✓	77 Winona Road	Mount Eliza	Kackeraboite Creek	
✓	✓	✓	60 Wooralla Drive	Mount Eliza	Earimil Creek	
-	-	✓	85 Wooralla Drive	Mount Eliza	Earimil Creek	

Properties at risk from Flooding over floor in Mount Eliza					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
-	-	✓	89 Wooralla Drive	Mount Eliza	Earimil Creek
-	-	✓	3 Yewers Avenue	Mount Eliza	Gunyong Creek
Totals					
36	120	296			

Table C1.2 – Properties at risk of flooding over-floor around Mount Eliza in the Mornington Peninsula

## ISOLATION

No major isolation risks exist for areas around Mount Eliza. Some localised short-duration isolation may occur due to flash flooding.

## ESSENTIAL INFRASTRUCTURE

During an event, see the Public Transport Victoria's Website for details on delays or alterations to services. <http://ptv.vic.gov.au/live-travel-updates/>

Apart from the roads outlined below, all other essential infrastructure and services areas around Mount Eliza are expected to remain predominantly dry during an intense rainfall event.

## ROAD CLOSURES

The following roads are subject to closure during flooding around Mount Eliza. Check the VicRoads website for more details: <http://alerts.vicroads.vic.gov.au/>

VicRoads Roads affected in a 1% AEP (100yr ARI) event
<ul style="list-style-type: none"> <li>Nepean Highway, Mount Eliza, southbound at Vintina Estate</li> </ul>

Table C1.3 – VicRoads Possible Road Closures during a flooding event

Mornington Peninsula Council Roads flooded in a 1% AEP (100yr ARI) event
<b>MOUNT ELIZA</b>
<ul style="list-style-type: none"> <li>Eliza Terrace</li> <li>Mt Eliza Way</li> <li>View Point Avenue</li> </ul>

Table C1.4 – Mornington Peninsula Council Possible Road Closures during a flooding event

## FLOOD MITIGATION

### RETARDING BASINS

There are no Retarding Basins in Mount Eliza, though there are two reserves that may act as retarding basins in short duration, high intensity rainfall events. These are noted in the table below

Reserve / Park	On Drain / Waterway	Location	Melway Reference
Earimil Creek Reserve	Earimil Creek	Acheron Avenue, Mount Eliza	105 E2
Jessie White Reserve	Earimil Creek	Acheron Avenue, Mount Eliza	105 E3

Table C1.5 – Parks and Reserves around Mount Eliza in the Mornington Peninsula

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## LEVEES & PUMPING STATIONS

No formal Pumping Stations or Levees exist around Mount Eliza in Mornington Peninsula.

## COMMAND, CONTROL & COORDINATION

VICSES will assume overall control of the response to flood incidents. Other agencies will be requested to support operations as detailed in this Plan. Control and coordination of a flood incident shall be carried out at the lowest effective level and in accordance with the State Emergency Response Plan (EMMV Part 3). During significant events, VICSES will conduct incident management using multi-agency resources.

## FLOOD IMPACTS & REQUIRED ACTIONS

The table below is a breakdown of the number of properties flooded in a 1% AEP (100yr ARI) event. Refer to the following intelligence card/s for Kackeraboite Creek, Ballar Creek, Earimil Creek and Gunyong Creek for more details.

Land Use Flooded in a 1% AEP Event	Amount
Residential	296
Business	23
Industrial	0
Public Land	4
Rural	0
<b>Total</b>	<b>296</b>

Table C1.6 – Breakdown of likely land use flooded around Mount Eliza during a 1% AEP event

## FLOOD INTELLIGENCE CARD – KACKERABOITE, BALLAR, EARIMIL & GUNYONG CREEKS (UNGAUGED)

Version 3 – July 2017



*Note: flood intelligence records are approximations. This is because no two floods at a location, even if they peak at the same height, will have identical impacts. Flood intelligence cards detail the relationship between flood magnitude and flood consequences. More details about flood intelligence and its use can be found in the Australian Emergency Management Manuals flood series.*

*This Flood Intelligence Card publication is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.*

CLOSEST RAIN GAUGE	<b>Moorooduc (Devilbend Reservoir) Rain Gauge</b>
LOCATION	<b>Devilbend Reservoir Spillway, Graydens Road, Moorooduc</b>
MELWAY REF:	<b>152 H2</b>

GAUGE NUMBER	<b>586206</b>
GAUGE TYPE	<b>Rain</b>
TELEMETRIC/MANUAL	<b>Telemetric</b>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Action
10mm in 10 mins; 17mm in 30 mins; 23mm in 1 hour; 29mm in 2 hours; or 43mm in 6 hours;  Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.	20% AEP (5 year ARI)	<b>Properties at Flood Risk (Over-Floor)</b> <b>36 Properties in Total</b> <ul style="list-style-type: none"> <li>• 21A Bareena Drive Mount Eliza</li> <li>• 3 Barton Drive, Mount Eliza</li> <li>• 2 Beluga Street, Mount Eliza</li> <li>• 249, 260, 313 &amp; 333 Canadian Bay Road, Mount Eliza</li> <li>• 5 &amp; 25 Cummins Lane, Mount Eliza</li> <li>• 18 Erang Drive, Mount Eliza</li> <li>• 16 Glen Shian Lane, Mount Eliza</li> <li>• 22 Glen Shian Crescent, Mount Eliza</li> <li>• 69 Granya Grove, Mount Eliza</li> <li>• 12 Humphries Road, Mount Eliza</li> <li>• 123 Koornalla Crescent, Mount Eliza</li> <li>• 125-127 Koornalla Crescent, Mount Eliza</li> <li>• 60 Kunyung Road, Mount Eliza</li> <li>• 71 &amp; 103 Mather Road, Mount Eliza</li> </ul>	VICSES to respond on a request by request basis  VICSES may provide warnings using EM-COP to Mornington Peninsula Shire and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.  Council and VicRoads (as appropriate) to

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Action
		<ul style="list-style-type: none"> <li>• 25 Millbank Drive, Mount Eliza</li> <li>• 6 Moseley Drive, Mount Eliza</li> <li>• 8/89 Mount Eliza Way, Mount Eliza</li> <li>• 15 Nunga Court, Mount Eliza</li> <li>• 6 Penny Lane, Mount Eliza</li> <li>• 48 Rosserdale Crescent, Mount Eliza</li> <li>• 1, 2 &amp; 3 Rugby Court, Mount Eliza</li> <li>• 31-33 Rutland Avenue, Mount Eliza</li> <li>• 59 The Ridge, Mount Eliza</li> <li>• 12 Thornton Road, Mount Eliza</li> <li>• 72 Volitans Avenue, Mount Eliza</li> <li>• 18 &amp; 70 Walkers Road, Mount Eliza</li> <li>• 42 Wimbledon Avenue, Mount Eliza</li> <li>• 60 Wooralla Drive, Mount Eliza</li> </ul> <p><b>Community Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>• The Peninsula School, outdoor recreation areas inundated</li> </ul> <p><b>Water Over Road (above 300mm depth)</b></p> <p><b>Gunyong Creek</b></p> <ul style="list-style-type: none"> <li>• Nepean Highway, Mount Eliza</li> </ul>	<p>provide road closure signage under predetermined arrangements</p>
<p>14mm in 10 mins; 24mm in 30 mins; 30mm in 1 hour; 39mm in 2 hours; or 57mm in 6 hours;</p> <p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>	<p>5% AEP (20 year ARI)</p>	<p><b>Residences/Businesses Flooded (above floor)</b></p> <p><b>120 Properties in Total</b></p> <ul style="list-style-type: none"> <li>• 21A Bareena Drive, Mount Eliza</li> <li>• 3 &amp; 25 Barton Drive, Mount Eliza</li> <li>• 61 Bellbird Road, Mount Eliza</li> <li>• 1, 2, 2A, 5, 7, 9, 37, 63, 64, 65 &amp; 67 Beluga Street, Mount Eliza</li> <li>• 14 &amp; 16 Bundara Crescent, Mount Eliza</li> <li>• 10 &amp; 22 Burnell Street, Mount Eliza</li> <li>• 19, 204, 249, 260, 313 &amp; 333 Canadian Bay Road, Mount Eliza</li> <li>• 5, 7-9, 11 &amp; 25 Cummins Lane, Mount Eliza</li> <li>• 18 Erang Drive, Mount Eliza</li> <li>• 40A Fulton Road, Mount Eliza</li> <li>• 22 Gillards Road, Mount Eliza</li> <li>• 5 &amp; 22 Glen Shian Crescent, Mount Eliza</li> <li>• 16, 25 &amp; 36 Glen Shian Lane, Mount Eliza</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Action
		<ul style="list-style-type: none"> <li>• 69 Granya Grove, Mount Eliza</li> <li>• 12 Humphries Road, Mount Eliza</li> <li>• 4 Koetong Parade, Mount Eliza</li> <li>• 8 &amp; 10 Kolora Crescent, Mount Eliza</li> <li>• 11, 85, 87, 102, 104, 107, 109, 123 &amp; 125-127 Koornalla Crescent, Mount Eliza</li> <li>• 60 Kunyung Road, Mount Eliza</li> <li>• 15 Le Grand Mews, Mount Eliza</li> <li>• 35, 38, 41, 71, 87 &amp; 103 Mather Road, Mount Eliza</li> <li>• 25 Millbank Drive, Mount Eliza</li> <li>• 9 Mohilla Street, Mount Eliza</li> <li>• 6 Moseley Drive, Mount Eliza</li> <li>• 32, Units 1-3/87, 8/89 &amp; 1/125 Mount Eliza Way, Mount Eliza</li> <li>• 1342 Nepean Highway, Mount Eliza</li> <li>• 3 &amp; 15 Nunga Court, Mount Eliza</li> <li>• 5 Old Mornington Road, Mount Eliza</li> <li>• 6 Penny Lane, Mount Eliza</li> <li>• 6 Plover Court, Mount Eliza</li> <li>• 14, 16 &amp; 20 Rannoch Avenue, Mount Eliza</li> <li>• 19 Ravenscourt Crescent, Mount Eliza</li> <li>• 40 Redbourne Avenue, Mount Eliza</li> <li>• 41 Rendlesham Avenue, Mount Eliza</li> <li>• 44 Roborough Avenue, Mount Eliza</li> <li>• 12, 14, 24, 28, 30, 32 &amp; 48 Rosserdale Crescent, Mount Eliza</li> <li>• 1, 2 &amp; 3 Rugby Court, Mount Eliza</li> <li>• 27, 31-33, 36, 38 &amp; 47 Rutland Avenue, Mount Eliza</li> <li>• 9 Sandpiper Way, Mount Eliza</li> <li>• 1 &amp; 10A Seymour Avenue, Mount Eliza</li> <li>• 7 Tern Grove, Mount Eliza</li> <li>• 59 The Ridge , Mount Eliza</li> <li>• 12 Thornton Road, Mount Eliza</li> <li>• 13 &amp; 27 Tower Road, Mount Eliza</li> <li>• 72, 72A &amp; 74A Volitans Avenue, Mount Eliza</li> <li>• 18, 70 &amp; 85 Walkers Road, Mount Eliza</li> <li>• 6/5 &amp; 7/5 Wendy Avenue, Mount Eliza</li> <li>• 8, 36, 40, 42, 54 &amp; 65 Wimbledon Avenue, Mount Eliza</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Action
		<ul style="list-style-type: none"> <li>• 77 Winona Road, Mount Eliza</li> <li>• 60 Wooralla Drive, Mount Eliza</li> </ul> <p><b>Community Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>• The Peninsula School, outdoor recreation areas inundated</li> </ul> <p><b>Water Over Road (above 300mm depth)</b></p> <p><b>Gunyong Creek</b></p> <ul style="list-style-type: none"> <li>• Nepean Highway, Mount Eliza</li> </ul>	
<p>21mm in 10 mins; 33mm in 30 mins; 42mm in 1 hour; 53mm in 2 hours; or 77mm in 6 hours;</p> <p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>	<p>1% AEP (100 year ARI)</p>	<p><b>Residences/Businesses Flooded (above floor)</b></p> <p><b>296 Properties in Total</b></p> <ul style="list-style-type: none"> <li>• 6 Albatross Avenue, Mount Eliza</li> <li>• 21A Bareena Drive, Mount Eliza</li> <li>• 3, 4, 6, 18 &amp; 25 Barton Drive, Mount Eliza</li> <li>• 61 Bellbird Road, Mount Eliza</li> <li>• 1, 2, 2A, 5, 7, 9, 13, 32, 37, 44, 46, 49, 52, 56, 63, 64, 65, 66, 67, 69, 72 &amp; 86 Beluga Street, Mount Eliza</li> <li>• 18 Berkeley Court, Mount Eliza</li> <li>• 2/1-3 Betty Avenue, Mount Eliza</li> <li>• 12 Brian Court, Mount Eliza</li> <li>• 12, 14 &amp; 16 Bundara Crescent, Mount Eliza</li> <li>• 10, 12, 22 &amp; 28 Burnell Street, Mount Eliza</li> <li>• 3 Cameron Way, Mount Eliza</li> <li>• 19, 204, 249, 260, 313 &amp; 333 Canadian Bay Road, Mount Eliza</li> <li>• 5, 7-9, 11 &amp; 25 Cummins Lane, Mount Eliza</li> <li>• 18 Erang Drive, Mount Eliza</li> <li>• 40A Fulton Road, Mount Eliza</li> <li>• 22 Gannet Street, Mount Eliza</li> <li>• 15 Gaskell Avenue, Mount Eliza</li> <li>• 16, 22, 26 &amp; 28 Gillards Road, Mount Eliza</li> <li>• 3, 5, 18 &amp; 22 Glen Shian Crescent, Mount Eliza</li> <li>• 16, 17, 23, 25, 36 &amp; 53 Glen Shian Lane, Mount Eliza</li> <li>• 46, 57, 69 &amp; 71 Granya Grove, Mount Eliza</li> <li>• 1 Heron Street, Mount Eliza</li> <li>• 12 Humphries Road, Mount Eliza</li> <li>• 19 Kardella Lane, Mount Eliza</li> <li>• 4 Keraboite Court, Mount Eliza</li> </ul>	<p>VICSES to respond on a request by request basis</p> <p>VICSES may provide warnings using EM-COP to Mornington Peninsula Shire and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.</p> <p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Action
		<ul style="list-style-type: none"> <li>• 4 &amp; 27 Koetong Parade, Mount Eliza</li> <li>• 8, 10 &amp; 16 Kolora Crescent, Mount Eliza</li> <li>• 11, 16, 20, 22, 85, 87, 91, 92, 96, 98, 102, 104, 107, 109, 123 &amp; 125-127 Koornalla Crescent, Mount Eliza</li> <li>• 50 &amp; 60 Kunyung Road, Mount Eliza</li> <li>• 15 Le Grand Mews, Mount Eliza</li> <li>• 35, 38, 41, 71, 87 &amp; 103 Mather Road, Mount Eliza</li> <li>• 15 Mccutcheon Close, Mount Eliza</li> <li>• 25 Millbank Drive, Mount Eliza</li> <li>• 7 &amp; 9 Mohilla Street, Mount Eliza</li> <li>• 1 &amp; 4 Moondah Drive, Mount Eliza</li> <li>• 6 Moseley Drive, Mount Eliza</li> <li>• 32, 36, 40, 47, 49, 51, 53, 55, 57, Units 1-6/87, 8/89, 13/89, 16/89, 104, 108 &amp; Units 1-4/125 Mount Eliza Way, Mount Eliza</li> </ul> <p><b>Community Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>• The Peninsula School, outdoor recreation areas</li> </ul> <p><b>Water Over Road (above 300mm depth)</b></p> <ul style="list-style-type: none"> <li>• Nepean Highway, Mount Eliza, southbound at Vintina Estate</li> <li>• Eliza Terrace</li> <li>• Mt Eliza Way</li> <li>• View Point Avenue</li> </ul>	

Table C1.7 – Breakdown of possible consequences at various rainfall intensities around Mount Eliza with operational considerations

## APPENDIX C2 – MORNINGTON & MOUNT MARTHA FLOOD EMERGENCY PLAN

### OVERVIEW OF FLOODING CONSEQUENCES

Mornington & Mount Martha are located approximately 45km South of Melbourne in an established residential area. The main waterways through Mornington and into Mount Martha are Tanti Creek and Fishermans Creek, each with its own associated drains.

Fishermans Creek is a completely piped Melbourne water asset that flows north through established residential areas. It receives Pitt Street Drain at Nelson Street before discharging into Port Phillip Bay at Fishermans Beach in Mornington

Tanti Creek begins at Tanti Creek Retarding Basin and flows northwest predominantly through reserves in a residential environment. It receives flow from Tarana Street Drain at Mornington Railway Station and Yuilles Road Drain at Yuilles Road before discharging into Port Phillip Bay at Mills Beach Carpark.

### WARNING TIMES

No formal warning times are available for Mornington and Mount Martha due to small catchment sizes in the area and the prevalence of flash flooding and short warning times available.

Rain gauges present at Devilbend Reservoir and Arthurs Seat may provide some warning of expected flooding. See the Melbourne Water website for more information on these gauges: <http://www.melbournewater.com.au/waterdata/rainfallandriverveldata/Pages/Rainfall-and-river-level-new.aspx>. It is advised that residents monitor the Bureau of Meteorology's website <http://www.bom.gov.au/> and the VicEmergency website <https://emergency.vic.gov.au/> for any thunderstorm, flood or severe weather warnings present for their area.

# AREAS OF FLOOD RISK



Flood Modelling completed by Melbourne Water & the City of Manningham. Map Produced by VicSES June 2017.

**CITY OF FRANKSTON**  
 1% AEP (100yr ARI) Flooding  
 Areas of flood risk around Mount Martha

- 1% AEP Riverine Flood Extent
- 1% AEP Storm Surge Flood Extent
- Park / Reserve
- River / Creek / Channel
- Melbourne Water Stormwater Drain
- Area Boundary for this Appendix
- School / College
- CFA Fire Station



This map publication is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.

Figure C2.1 – Areas at flood risk around Mornington in the Mornington Peninsula

## PROPERTIES AT FLOOD RISK

Properties listed in the table below are at risk from flooding over-floor level around Mornington. As more intelligence becomes available, this list may change. This table has been populated based on modelling work as part of the Fishermans Creek (Melbourne Water and Cardno, Dec 2011) and the Tarana St & Yuilles Rd Drain (Melbourne Water and WBM BMT, Sept 2013) flood mapping works.

*This Property Flood Risk Table is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.*

Properties at risk from Flooding over-floor in Mornington					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
		✓	42 Adelaide Street	Mornington	Fishermans Creek
		✓	63 Adelaide Street	Mornington	Fishermans Creek
	✓	✓	3 Albany Way	Mornington	Tarana Street Drain
	✓	✓	17 Alma Street	Mornington	Fishermans Creek
	✓	✓	13 Andrew Place	Mornington	Yuilles Road Drain
✓	✓	✓	3 Archer Drive	Mornington	Tarana Street Drain
		✓	6 Bareena Court	Mornington	Tarana Street Drain
		✓	1/5 Barkly Street	Mornington	Direct to Bay
		✓	2/5 Barkly Street	Mornington	Direct to Bay
		✓	3/5 Barkly Street	Mornington	Direct to Bay
		✓	4/5 Barkly Street	Mornington	Direct to Bay
		✓	5/5 Barkly Street	Mornington	Direct to Bay
		✓	6/5 Barkly Street	Mornington	Direct to Bay
		✓	7/5 Barkly Street	Mornington	Direct to Bay
		✓	8/5 Barkly Street	Mornington	Direct to Bay
		✓	9/5 Barkly Street	Mornington	Direct to Bay
		✓	10/5 Barkly Street	Mornington	Direct to Bay
✓	✓	✓	3/59 Barkly Street	Mornington	Direct to Bay
		✓	7/59 Barkly Street	Mornington	Direct to Bay
✓	✓	✓	70 Barkly Street	Mornington	Direct to Bay
		✓	71A Barkly Street	Mornington	Direct to Bay
		✓	71B Barkly Street	Mornington	Direct to Bay
	✓	✓	71 Barkly Street	Mornington	Direct to Bay
✓	✓	✓	72A Barkly Street	Mornington	Direct to Bay
✓	✓	✓	72B Barkly Street	Mornington	Direct to Bay
✓	✓	✓	74 Barkly Street	Mornington	Direct to Bay
✓	✓	✓	76 Barkly Street	Mornington	Direct to Bay
✓	✓	✓	1/81 Barkly Street	Mornington	Direct to Bay
		✓	2/81 Barkly Street	Mornington	Direct to Bay
✓	✓	✓	5/81 Barkly Street	Mornington	Direct to Bay

Properties at risk from Flooding over-floor in Mornington					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
✓	✓	✓	6/81 Barkly Street	Mornington	Direct to Bay
		✓	82 Barkly Street	Mornington	Direct to Bay
✓	✓	✓	3/89 Barkly Street	Mornington	Direct to Bay
		✓	116-118 Barkly Street	Mornington	Tanti Creek D/S
✓	✓	✓	130 Barkly Street	Mornington	Tanti Creek D/S
	✓	✓	135 Barkly Street	Mornington	Tanti Creek D/S
	✓	✓	137 Barkly Street	Mornington	Tanti Creek D/S
✓	✓	✓	2/173 Barkly Street	Mornington	Tanti Creek D/S
		✓	6 Bath Street	Mornington	Tanti Creek D/S
		✓	6/24 Bath Street	Mornington	Tanti Creek D/S
	✓	✓	27 Bath Street	Mornington	Tanti Creek D/S
		✓	30 Bath Street	Mornington	Tanti Creek D/S
		✓	32 Bath Street	Mornington	Tanti Creek D/S
	✓	✓	38 Bath Street	Mornington	Tanti Creek D/S
✓	✓	✓	1/40 Bath Street	Mornington	Tanti Creek D/S
		✓	51 Bayview Road	Mornington	Yuilles Road Drain
	✓	✓	2/22 Beatty Parade	Mornington	Tanti Creek D/S
		✓	3/22 Beatty Parade	Mornington	Tanti Creek D/S
	✓	✓	86 Beleura Hill Road	Mornington	Tanti Creek D/S
		✓	4/96-98 Beleura Hill Road	Mornington	Tanti Creek D/S
	✓	✓	7/96-98 Beleura Hill Road	Mornington	Tanti Creek D/S
		✓	4 Bennetts Road	Mornington	Yuilles Road Drain
		✓	3/6 Bennetts Road	Mornington	Yuilles Road Drain
		✓	17 Bentons Road	Mornington	Fishermans Creek
✓	✓	✓	25 Bentons Road	Mornington	Fishermans Creek
✓	✓	✓	27 Bentons Road	Mornington	Fishermans Creek
	✓	✓	57 Bentons Road	Mornington	Fishermans Creek
		✓	8 Botany Walk	Mornington	Yuilles Road Drain
		✓	10 Botany Walk	Mornington	Yuilles Road Drain
		✓	12 Botany Walk	Mornington	Yuilles Road Drain
	✓	✓	2 Brent Street	Mornington	Fishermans Creek
	✓	✓	4A Brent Street	Mornington	Fishermans Creek
		✓	8 Brent Street	Mornington	Fishermans Creek
		✓	1/15 Brent Street	Mornington	Fishermans Creek
	✓	✓	9 Broxbourne Brae	Mornington	Yuilles Road Drain
		✓	11 Broxbourne Brae	Mornington	Yuilles Road Drain
	✓	✓	15 Bruce Street	Mornington	Tanti Creek U/S
		✓	16 Bruce Street	Mornington	Tanti Creek U/S
		✓	3/19 Bruce Street	Mornington	Tanti Creek U/S

Properties at risk from Flooding over-floor in Mornington					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
		✓	9/19 Bruce Street	Mornington	Tanti Creek U/S
	✓	✓	10/19 Bruce Street	Mornington	Tanti Creek U/S
	✓	✓	37 Bungower Road	Mornington	Tarana Street Drain
		✓	3 Burnett Street	Mornington	Fishermans Creek
		✓	9-11 Caldwell Street	Mornington	Tanti Creek D/S
		✓	13 Canterbury Street	Mornington	Direct to Bay
		✓	2/23 Carbine Way	Mornington	Tarana Street Drain
		✓	25 Carbine Way	Mornington	Tarana Street Drain
	✓	✓	1/29 Carbine Way	Mornington	Tarana Street Drain
	✓	✓	2/29 Carbine Way	Mornington	Tarana Street Drain
		✓	31 Carbine Way	Mornington	Tarana Street Drain
		✓	2/50 Carnoustie Grove	Mornington	Fishermans Creek
		✓	56 Carnoustie Grove	Mornington	Fishermans Creek
	✓	✓	57 Carnoustie Grove	Mornington	Fishermans Creek
		✓	58 Carnoustie Grove	Mornington	Fishermans Creek
✓	✓	✓	61 Carnoustie Grove	Mornington	Fishermans Creek
	✓	✓	63 Carnoustie Grove	Mornington	Fishermans Creek
✓	✓	✓	65 Carnoustie Grove	Mornington	Fishermans Creek
		✓	3 Carol Street	Mornington	Fishermans Creek
		✓	1/5 Carol Street	Mornington	Fishermans Creek
		✓	2/5 Carol Street	Mornington	Fishermans Creek
		✓	3/5 Carol Street	Mornington	Fishermans Creek
		✓	4/5 Carol Street	Mornington	Fishermans Creek
		✓	5/5 Carol Street	Mornington	Fishermans Creek
		✓	6/5 Carol Street	Mornington	Fishermans Creek
	✓	✓	46 Carramar Street	Mornington	Tarana Street Drain
	✓	✓	53 Carramar Street	Mornington	Tarana Street Drain
		✓	1/15 Coimadai Court	Mornington	Tarana Street Drain
		✓	17 Coimadai Court	Mornington	Tarana Street Drain
	✓	✓	19 Coimadai Court	Mornington	Tarana Street Drain
	✓	✓	2A Cook Street	Mornington	Direct to Bay
		✓	1/7-9 Coral Road	Mornington	Fishermans Creek
		✓	12 Coral Road	Mornington	Fishermans Creek
		✓	5 Cumming Court	Mornington	Yuilles Road Drain
		✓	5 Currawong Street	Mornington	Tarana Street Drain
		✓	1 Damian Close	Mornington	Tarana Street Drain
	✓	✓	5/25 Darcy Street	Mornington	Fishermans Creek
	✓	✓	2/25 Dava Drive	Mornington	Fishermans Creek
✓	✓	✓	27 Dava Drive	Mornington	Fishermans Creek

Properties at risk from Flooding over-floor in Mornington					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
✓	✓	✓	29 Dava Drive	Mornington	Fishermans Creek
✓	✓	✓	1/31 Dava Drive	Mornington	Fishermans Creek
✓	✓	✓	2/31 Dava Drive	Mornington	Fishermans Creek
✓	✓	✓	1/33A Dava Drive	Mornington	Fishermans Creek
✓	✓	✓	1/33 Dava Drive	Mornington	Fishermans Creek
✓	✓	✓	2/33 Dava Drive	Mornington	Fishermans Creek
✓	✓	✓	35A Dava Drive	Mornington	Fishermans Creek
✓	✓	✓	35 Dava Drive	Mornington	Fishermans Creek
✓	✓	✓	1/37 Dava Drive	Mornington	Fishermans Creek
	✓	✓	2/37 Dava Drive	Mornington	Fishermans Creek
	✓	✓	6 Diamond Court	Mornington	Tarana Street Drain
		✓	1/11-13 Diane Street	Mornington	Yuilles Road Drain
		✓	2/11-13 Diane Street	Mornington	Yuilles Road Drain
		✓	3/11-13 Diane Street	Mornington	Yuilles Road Drain
		✓	4/11-13 Diane Street	Mornington	Yuilles Road Drain
		✓	5/11-13 Diane Street	Mornington	Yuilles Road Drain
		✓	6/11-13 Diane Street	Mornington	Yuilles Road Drain
		✓	14 Diane Street	Mornington	Yuilles Road Drain
		✓	16A Diane Street	Mornington	Yuilles Road Drain
		✓	16B Diane Street	Mornington	Yuilles Road Drain
		✓	18A Diane Street	Mornington	Yuilles Road Drain
		✓	18B Diane Street	Mornington	Yuilles Road Drain
		✓	20 Diane Street	Mornington	Yuilles Road Drain
		✓	22A Diane Street	Mornington	Yuilles Road Drain
		✓	1/24 Diane Street	Mornington	Yuilles Road Drain
		✓	2/24 Diane Street	Mornington	Yuilles Road Drain
	✓	✓	43 Dorothy Crescent	Mornington	Fishermans Creek
		✓	3 Downward Street	Mornington	Fishermans Creek
		✓	301 Dunns Road	Mornington	Yuilles Road Drain
		✓	21 Elizabeth Street	Mornington	Tanti Creek D/S
	✓	✓	23 Elizabeth Street	Mornington	Tanti Creek D/S
	✓	✓	40 Ellinbank Crescent	Mornington	Eastern Tanti Park Estate
✓	✓	✓	42 Ellinbank Crescent	Mornington	Eastern Tanti Park Estate
		✓	54 Ellinbank Crescent	Mornington	Eastern Tanti Park Estate
✓	✓	✓	5 Eric Crescent	Mornington	Fishermans Creek
✓	✓	✓	9 Eric Crescent	Mornington	Fishermans Creek
✓	✓	✓	720 Esplanade	Mornington	Fishermans Creek
		✓	721 Esplanade	Mornington	Fishermans Creek
		✓	723 Esplanade	Mornington	Fishermans Creek

Properties at risk from Flooding over-floor in Mornington					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
		✓	723 Esplanade	Mornington	Direct to Bay
		✓	2/747 Esplanade	Mornington	Direct to Bay
		✓	764 Esplanade	Mornington	Direct to Bay
	✓	✓	7/776-779 Esplanade	Mornington	Direct to Bay
	✓	✓	8/776-779 Esplanade	Mornington	Direct to Bay
	✓	✓	9/776-779 Esplanade	Mornington	Direct to Bay
		✓	10/776-779 Esplanade	Mornington	Direct to Bay
✓	✓	✓	11/776-779 Esplanade	Mornington	Direct to Bay
	✓	✓	5/799 Esplanade	Mornington	Direct to Bay
✓	✓	✓	6/799 Esplanade	Mornington	Direct to Bay
	✓	✓	4 Eumong Court	Mornington	Tarana Street Drain
		✓	6 Farnham Place	Mornington	Yuilles Road Drain
		✓	1/4 Fleet Street	Mornington	Fishermans Creek
		✓	2/4 Fleet Street	Mornington	Fishermans Creek
		✓	3/4 Fleet Street	Mornington	Fishermans Creek
		✓	5 Fleet Street	Mornington	Fishermans Creek
	✓	✓	1/14-16 Fleet Street	Mornington	Fishermans Creek
		✓	2/14-16 Fleet Street	Mornington	Fishermans Creek
	✓	✓	3/14-16 Fleet Street	Mornington	Fishermans Creek
	✓	✓	4/14-16 Fleet Street	Mornington	Fishermans Creek
	✓	✓	5/14-16 Fleet Street	Mornington	Fishermans Creek
	✓	✓	2 Franklin Place	Mornington	Direct to Bay
✓	✓	✓	10 Franklin Place	Mornington	Direct to Bay
		✓	3 Fulton Avenue	Mornington	Fishermans Creek
		✓	13 Fulton Avenue	Mornington	Fishermans Creek
		✓	9 Gleneagles Avenue	Mornington	Fishermans Creek
		✓	2/10 Gleneagles Avenue	Mornington	Fishermans Creek
		✓	11A Gleneagles Avenue	Mornington	Fishermans Creek
		✓	11 Gleneagles Avenue	Mornington	Fishermans Creek
		✓	13 Gleneagles Avenue	Mornington	Fishermans Creek
		✓	10 Gordon Street	Mornington	Direct to Bay
	✓	✓	57 Hampden Street	Mornington	Fishermans Creek
	✓	✓	7A Hargreaves Street	Mornington	Fishermans Creek
	✓	✓	7 Hargreaves Street	Mornington	Fishermans Creek
		✓	20 Herbert Street	Mornington	Tanti Creek D/S
	✓	✓	23A Herbert Street	Mornington	Tanti Creek D/S
✓	✓	✓	26 Herbert Street	Mornington	Tanti Creek D/S
	✓	✓	27 Herbert Street	Mornington	Tanti Creek D/S
		✓	51 Herbert Street	Mornington	Tanti Creek D/S

Properties at risk from Flooding over-floor in Mornington					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
		✓	53 Herbert Street	Mornington	Tanti Creek D/S
		✓	1/65 Herbert Street	Mornington	Tanti Creek D/S
	✓	✓	5/65 Herbert Street	Mornington	Tanti Creek D/S
		✓	6/65 Herbert Street	Mornington	Tanti Creek D/S
		✓	7/65 Herbert Street	Mornington	Tanti Creek D/S
✓	✓	✓	8/65 Herbert Street	Mornington	Tanti Creek D/S
✓	✓	✓	1/69 Herbert Street	Mornington	Tanti Creek D/S
	✓	✓	3/69 Herbert Street	Mornington	Tanti Creek D/S
✓	✓	✓	5/69 Herbert Street	Mornington	Tanti Creek D/S
		✓	3/72 Herbert Street	Mornington	Tanti Creek D/S
✓	✓	✓	78 Herbert Street	Mornington	Tanti Creek D/S
	✓	✓	79B Herbert Street	Mornington	Tanti Creek D/S
		✓	2/85 Herbert Street	Mornington	Tanti Creek D/S
		✓	3/94-96 Herbert Street	Mornington	Tanti Creek D/S
		✓	99A Herbert Street	Mornington	Tanti Creek D/S
		✓	99 Herbert Street	Mornington	Tanti Creek D/S
		✓	11 Hutchins Park Close	Mornington	Fishermans Creek
		✓	12 Katherine Court	Mornington	Tarana Street Drain
✓	✓	✓	5/9 King Georges Avenue	Mornington	Fishermans Creek
		✓	3/15 King Georges Avenue	Mornington	Fishermans Creek
	✓	✓	18 King Georges Avenue	Mornington	Fishermans Creek
✓	✓	✓	20 King Georges Avenue	Mornington	Fishermans Creek
		✓	29 Kooyonga Grove	Mornington	Fishermans Creek
	✓	✓	35 Kooyonga Grove	Mornington	Fishermans Creek
		✓	1/3 Kuranga Court	Mornington	Fishermans Creek
		✓	4 Lavery Close	Mornington	Tarana Street Drain
	✓	✓	5 Lavery Close	Mornington	Tarana Street Drain
	✓	✓	6 Lavery Close	Mornington	Tarana Street Drain
	✓	✓	8 Lavery Close	Mornington	Tarana Street Drain
		✓	18 Lawson Court	Mornington	Yuilles Road Drain
		✓	1A Lucerne Avenue	Mornington	Tanti Creek D/S
	✓	✓	1/1 Lucerne Avenue	Mornington	Tanti Creek D/S
		✓	2/1 Lucerne Avenue	Mornington	Tanti Creek D/S
✓	✓	✓	2 Lucerne Avenue	Mornington	Tanti Creek D/S
	✓	✓	1/3 Lucerne Avenue	Mornington	Tanti Creek D/S
	✓	✓	4 Lucerne Avenue	Mornington	Tanti Creek D/S
		✓	1/6 Lucerne Avenue	Mornington	Tanti Creek D/S
		✓	2/6 Lucerne Avenue	Mornington	Tanti Creek D/S
		✓	3/6 Lucerne Avenue	Mornington	Tanti Creek D/S

Properties at risk from Flooding over-floor in Mornington					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
		✓	4/6 Lucerne Avenue	Mornington	Tanti Creek D/S
		✓	5/6 Lucerne Avenue	Mornington	Tanti Creek D/S
	✓	✓	1/10 Lucerne Avenue	Mornington	Tanti Creek D/S
	✓	✓	2/10 Lucerne Avenue	Mornington	Tanti Creek D/S
		✓	4/10 Lucerne Avenue	Mornington	Tanti Creek D/S
	✓	✓	11A Lucerne Avenue	Mornington	Tanti Creek D/S
	✓	✓	1/16 Lucerne Avenue	Mornington	Tanti Creek D/S
		✓	3/16 Lucerne Avenue	Mornington	Tanti Creek D/S
		✓	10/16 Lucerne Avenue	Mornington	Tanti Creek D/S
		✓	22 Lucerne Avenue	Mornington	Tanti Creek D/S
		✓	2/22 Lucerne Avenue	Mornington	Tanti Creek D/S
✓	✓	✓	143 Main Street	Mornington	Direct to Bay
✓	✓	✓	147 Main Street	Mornington	Direct to Bay
✓	✓	✓	150 Main Street	Mornington	Direct to Bay
✓	✓	✓	154 Main Street	Mornington	Direct to Bay
	✓	✓	207 Main Street	Mornington	Direct to Bay
	✓	✓	209 Main Street	Mornington	Direct to Bay
		✓	262 Main Street	Mornington	Direct to Bay
		✓	1-4/326 Main Street	Mornington	Direct to Bay
		✓	2-6/326 Main Street	Mornington	Direct to Bay
✓	✓	✓	332 Main Street	Mornington	Direct to Bay
	✓	✓	13 Marchington Avenue	Mornington	Tanti Creek D/S
		✓	7 Maxwell Street	Mornington	Fishermans Creek
		✓	23 Maxwell Street	Mornington	Fishermans Creek
		✓	1/100 Maxwell Street	Mornington	Fishermans Creek
		✓	2/100 Maxwell Street	Mornington	Fishermans Creek
		✓	3/100 Maxwell Street	Mornington	Fishermans Creek
		✓	135 Maxwell Street	Mornington	Yuilles Road Drain
✓	✓	✓	70 McLaren Place	Mornington	Direct to Bay
✓	✓	✓	1/70 McLaren Place	Mornington	Direct to Bay
	✓	✓	21 Mills Beach Close	Mornington	Tanti Creek D/S
		✓	32 Mitchell Street	Mornington	Fishermans Creek
✓	✓	✓	43 Mitchell Street	Mornington	Fishermans Creek
		✓	52 Mitchell Street	Mornington	Fishermans Creek
		✓	2/60 Mitchell Street	Mornington	Fishermans Creek
		✓	3/60 Mitchell Street	Mornington	Fishermans Creek
✓	✓	✓	15 Moomba Street	Mornington	Fishermans Creek
		✓	17 Moomba Street	Mornington	Yuilles Road Drain
		✓	18 Moomba Street	Mornington	Fishermans Creek

Properties at risk from Flooding over-floor in Mornington					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
		✓	23 Moona Avenue	Mornington	Fishermans Creek
		✓	6 Morell Street	Mornington	Tanti Creek D/S
	✓	✓	10 Morell Street	Mornington	Tanti Creek D/S
		✓	29-35 Mornington-Tyabb Road	Mornington	Yuilles Road Drain
		✓	1/37 Mornington-Tyabb Road	Mornington	Yuilles Road Drain
		✓	1/43 Mornington-Tyabb Road	Mornington	Yuilles Road Drain
		✓	2/43 Mornington-Tyabb Road	Mornington	Yuilles Road Drain
		✓	45 Mornington-Tyabb Road	Mornington	Yuilles Road Drain
		✓	51 Mornington-Tyabb Road	Mornington	Yuilles Road Drain
	✓	✓	1-2/125 Mornington-Tyabb Road	Mornington	Tanti Creek U/S
✓	✓	✓	127 Mornington-Tyabb Road	Mornington	Tanti Creek U/S
✓	✓	✓	4 Mulsanne Way	Mornington	Fishermans Creek
✓	✓	✓	6 Mulsanne Way	Mornington	Fishermans Creek
	✓	✓	5 Murray Street	Mornington	Direct to Bay
✓	✓	✓	9 Murray Street	Mornington	Direct to Bay
	✓	✓	11 Murray Street	Mornington	Direct to Bay
✓	✓	✓	15 Murray Street	Mornington	Direct to Bay
✓	✓	✓	17 Murray Street	Mornington	Direct to Bay
✓	✓	✓	19 Murray Street	Mornington	Direct to Bay
✓	✓	✓	21 Murray Street	Mornington	Direct to Bay
✓	✓	✓	23 Murray Street	Mornington	Direct to Bay
	✓	✓	25 Murray Street	Mornington	Direct to Bay
	✓	✓	31 Murray Street	Mornington	Direct to Bay
	✓	✓	33 Murray Street	Mornington	Direct to Bay
	✓	✓	3 Napier Street	Mornington	Fishermans Creek
	✓	✓	5/4-10 Napier Street	Mornington	Fishermans Creek
		✓	1/5 Napier Street	Mornington	Fishermans Creek
	✓	✓	2/5 Napier Street	Mornington	Fishermans Creek
	✓	✓	3/5 Napier Street	Mornington	Fishermans Creek
		✓	27A Naples Street	Mornington	Fishermans Creek
		✓	27 Naples Street	Mornington	Fishermans Creek
		✓	2 Nelson Street	Mornington	Fishermans Creek
	✓	✓	4 Nelson Street	Mornington	Fishermans Creek
		✓	1/6 Nelson Street	Mornington	Fishermans Creek
		✓	2/6 Nelson Street	Mornington	Fishermans Creek
		✓	3/6 Nelson Street	Mornington	Fishermans Creek
		✓	7 Nelson Street	Mornington	Fishermans Creek
		✓	9 Nelson Street	Mornington	Fishermans Creek
	✓	✓	17 Nelson Street	Mornington	Fishermans Creek

Properties at risk from Flooding over-floor in Mornington					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
		✓	19 Nelson Street	Mornington	Fishermans Creek
		✓	3/27 Nelson Street	Mornington	Fishermans Creek
		✓	30 Nelson Street	Mornington	Fishermans Creek
		✓	33 Nelson Street	Mornington	Fishermans Creek
	✓	✓	717 Nepean Highway	Mornington	Fishermans Creek
	✓	✓	719 Nepean Highway	Mornington	Fishermans Creek
✓	✓	✓	721 Nepean Highway	Mornington	Fishermans Creek
	✓	✓	727 Nepean Highway	Mornington	Fishermans Creek
		✓	729 Nepean Highway	Mornington	Fishermans Creek
	✓	✓	1/792 Nepean Highway	Mornington	Fishermans Creek
✓	✓	✓	2/792 Nepean Highway	Mornington	Fishermans Creek
		✓	2/794 Nepean Highway	Mornington	Fishermans Creek
	✓	✓	796 Nepean Highway	Mornington	Fishermans Creek
✓	✓	✓	831-833 Nepean Highway	Mornington	Fishermans Creek
	✓	✓	832 Nepean Highway	Mornington	Fishermans Creek
	✓	✓	855 Nepean Highway	Mornington	Fishermans Creek
	✓	✓	901A Nepean Highway	Mornington	Yuilles Road Drain
✓	✓	✓	1/901 Nepean Highway	Mornington	Yuilles Road Drain
✓	✓	✓	903 Nepean Highway	Mornington	Yuilles Road Drain
	✓	✓	905 Nepean Highway	Mornington	Yuilles Road Drain
		✓	917-921 Nepean Highway	Mornington	Yuilles Road Drain
		✓	2/970 Nepean Highway	Mornington	Yuilles Road Drain
		✓	988-990 Nepean Highway	Mornington	Yuilles Road Drain
		✓	992 Nepean Highway	Mornington	Yuilles Road Drain
		✓	994 Nepean Highway	Mornington	Yuilles Road Drain
		✓	1000 Nepean Highway	Mornington	Yuilles Road Drain
	✓	✓	1/1002-1004 Nepean Highway	Mornington	Yuilles Road Drain
		✓	1008 Nepean Highway	Mornington	Yuilles Road Drain
		✓	1010-1012 Nepean Highway	Mornington	Yuilles Road Drain
		✓	14 Neptune Street	Mornington	Fishermans Creek
		✓	6 Noah Close	Mornington	Tarana Street Drain
		✓	12 Noah Close	Mornington	Tarana Street Drain
		✓	14 Noah Close	Mornington	Tarana Street Drain
		✓	17 Northcote Terrace	Mornington	Direct to Bay
	✓	✓	20 Nunns Road	Mornington	Fishermans Creek
		✓	1/49 Nunns Road	Mornington	Fishermans Creek
		✓	2/49 Nunns Road	Mornington	Fishermans Creek
		✓	3/49 Nunns Road	Mornington	Fishermans Creek
		✓	52 Nunns Road	Mornington	Fishermans Creek

Properties at risk from Flooding over-floor in Mornington					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
		✓	4/53-55 Nunns Road	Mornington	Fishermans Creek
		✓	6/53-55 Nunns Road	Mornington	Fishermans Creek
		✓	2/57 Nunns Road	Mornington	Fishermans Creek
	✓	✓	58 Nunns Road	Mornington	Fishermans Creek
	✓	✓	60A Nunns Road	Mornington	Fishermans Creek
	✓	✓	60 Nunns Road	Mornington	Fishermans Creek
	✓	✓	62-64 Nunns Road	Mornington	Fishermans Creek
		✓	1/69 Nunns Road	Mornington	Fishermans Creek
		✓	3/4-6 Oakland Street	Mornington	Fishermans Creek
		✓	4/4-6 Oakland Street	Mornington	Fishermans Creek
		✓	3/8 Oakland Street	Mornington	Fishermans Creek
	✓	✓	1/6 Orchid Avenue	Mornington	Fishermans Creek
	✓	✓	2/6 Orchid Avenue	Mornington	Fishermans Creek
	✓	✓	3 Pamela Place	Mornington	Fishermans Creek
		✓	5 Pamela Place	Mornington	Fishermans Creek
		✓	20 Pamela Place	Mornington	Fishermans Creek
	✓	✓	22 Pamela Place	Mornington	Fishermans Creek
		✓	3/26 Pamela Place	Mornington	Fishermans Creek
		✓	10/26 Pamela Place	Mornington	Fishermans Creek
		✓	11/26 Pamela Place	Mornington	Fishermans Creek
		✓	12/26 Pamela Place	Mornington	Fishermans Creek
	✓	✓	14/26 Pamela Place	Mornington	Fishermans Creek
	✓	✓	11 Parwan Crescent	Mornington	Tarana Street Drain
✓	✓	✓	13 Parwan Crescent	Mornington	Tarana Street Drain
	✓	✓	15 Parwan Crescent	Mornington	Tarana Street Drain
✓	✓	✓	17 Parwan Crescent	Mornington	Tarana Street Drain
	✓	✓	19 Parwan Crescent	Mornington	Tarana Street Drain
		✓	31 Pender Avenue	Mornington	Fishermans Creek
		✓	2 Pentecost Road	Mornington	Yuilles Road Drain
		✓	1/2-4 Pitt Street	Mornington	Fishermans Creek
		✓	2/2-4 Pitt Street	Mornington	Fishermans Creek
	✓	✓	3/2-4 Pitt Street	Mornington	Fishermans Creek
	✓	✓	4/2-4 Pitt Street	Mornington	Fishermans Creek
		✓	5/2-4 Pitt Street	Mornington	Fishermans Creek
	✓	✓	1/3 Pitt Street	Mornington	Fishermans Creek
		✓	1/13 Pitt Street	Mornington	Fishermans Creek
✓	✓	✓	3/13 Pitt Street	Mornington	Fishermans Creek
		✓	24 Pitt Street	Mornington	Fishermans Creek
		✓	26 Pitt Street	Mornington	Fishermans Creek

Properties at risk from Flooding over-floor in Mornington					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
	✓	✓	37 Prince Street	Mornington	Fishermans Creek
	✓	✓	39 Prince Street	Mornington	Fishermans Creek
		✓	47 Prince Street	Mornington	Fishermans Creek
		✓	1/59 Prince Street	Mornington	Fishermans Creek
		✓	2/59 Prince Street	Mornington	Fishermans Creek
	✓	✓	72 Prince Street	Mornington	Fishermans Creek
✓	✓	✓	74 Prince Street	Mornington	Fishermans Creek
		✓	81 Prince Street	Mornington	Fishermans Creek
		✓	1/83 Prince Street	Mornington	Fishermans Creek
		✓	3/83 Prince Street	Mornington	Fishermans Creek
		✓	11/83 Prince Street	Mornington	Fishermans Creek
		✓	12/83 Prince Street	Mornington	Fishermans Creek
		✓	97 Prince Street	Mornington	Fishermans Creek
		✓	4/103 Prince Street	Mornington	Fishermans Creek
		✓	5/107 Prince Street	Mornington	Fishermans Creek
		✓	108 Prince Street	Mornington	Fishermans Creek
		✓	9 Progress Street	Mornington	Tanti Creek U/S
	✓	✓	11 Progress Street	Mornington	Tanti Creek U/S
		✓	13 Progress Street	Mornington	Tanti Creek U/S
		✓	1/15-17 Progress Street	Mornington	Tanti Creek U/S
	✓	✓	3/15-17 Progress Street	Mornington	Tanti Creek U/S
	✓	✓	4/15-17 Progress Street	Mornington	Tanti Creek U/S
	✓	✓	19 Progress Street	Mornington	Tanti Creek U/S
		✓	21 Progress Street	Mornington	Tanti Creek U/S
✓	✓	✓	24A Progress Street	Mornington	Tanti Creek U/S
✓	✓	✓	24B Progress Street	Mornington	Tanti Creek U/S
		✓	1/25 Progress Street	Mornington	Tanti Creek U/S
		✓	5/25 Progress Street	Mornington	Tanti Creek U/S
✓	✓	✓	26 Progress Street	Mornington	Tanti Creek U/S
		✓	21/27 Progress Street	Mornington	Tanti Creek U/S
		✓	22/27 Progress Street	Mornington	Tanti Creek U/S
	✓	✓	1/28 Progress Street	Mornington	Tanti Creek U/S
	✓	✓	2/28 Progress Street	Mornington	Tanti Creek U/S
		✓	1/30 Progress Street	Mornington	Tanti Creek U/S
		✓	2/30 Progress Street	Mornington	Tanti Creek U/S
✓	✓	✓	31 Progress Street	Mornington	Tanti Creek U/S
	✓	✓	32 Progress Street	Mornington	Tanti Creek U/S
	✓	✓	34 Progress Street	Mornington	Tanti Creek U/S
	✓	✓	36 Progress Street	Mornington	Tanti Creek U/S

Properties at risk from Flooding over-floor in Mornington					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
	✓	✓	37 Progress Street	Mornington	Tanti Creek U/S
		✓	55 Queen Street	Mornington	Direct to Bay
		✓	40 Raglan Street	Mornington	Fishermans Creek
		✓	3 Ranch Court	Mornington	Fishermans Creek
		✓	8 Ranch Court	Mornington	Fishermans Creek
		✓	14 Riordan Court	Mornington	Fishermans Creek
		✓	20 Robertson Drive	Mornington	Tarana Street Drain
	✓	✓	3 Rodney Court	Mornington	Fishermans Creek
	✓	✓	1/18-20 Rodney Court	Mornington	Fishermans Creek
✓	✓	✓	12 Sailing Lane	Mornington	Fishermans Creek
	✓	✓	1/21 Seaton Road	Mornington	Fishermans Creek
	✓	✓	2/21 Seaton Road	Mornington	Fishermans Creek
		✓	4/29 Seaton Road	Mornington	Fishermans Creek
		✓	5/31 Seaton Road	Mornington	Fishermans Creek
	✓	✓	6/33 Seaton Road	Mornington	Fishermans Creek
		✓	9B Seaview Avenue	Mornington	Fishermans Creek
		✓	46 Seaview Avenue	Mornington	Yuilles Road Drain
	✓	✓	50 Seaview Avenue	Mornington	Fishermans Creek
		✓	50 Seaview Avenue	Mornington	Yuilles Road Drain
		✓	52 Seaview Avenue	Mornington	Yuilles Road Drain
		✓	4/18 Separation Street	Mornington	Fishermans Creek
		✓	5/18 Separation Street	Mornington	Fishermans Creek
✓	✓	✓	4 Shandon Street	Mornington	Tanti Creek D/S
		✓	6 Shandon Street	Mornington	Tanti Creek D/S
	✓	✓	8 Shandon Street	Mornington	Tanti Creek D/S
✓	✓	✓	10 Shandon Street	Mornington	Tanti Creek D/S
		✓	12 Shandon Street	Mornington	Tanti Creek D/S
	✓	✓	16 Shandon Street	Mornington	Tanti Creek D/S
✓	✓	✓	18 Shandon Street	Mornington	Tanti Creek D/S
	✓	✓	20 Shandon Street	Mornington	Tanti Creek D/S
	✓	✓	1/22 Shandon Street	Mornington	Tanti Creek D/S
		✓	2/22 Shandon Street	Mornington	Tanti Creek D/S
	✓	✓	24 Shandon Street	Mornington	Tanti Creek D/S
		✓	26 Shandon Street	Mornington	Tanti Creek D/S
	✓	✓	1/32 Shandon Street	Mornington	Tanti Creek D/S
	✓	✓	1/12 Shelbourne Court	Mornington	Tanti Creek D/S
✓	✓	✓	2/12 Shelbourne Court	Mornington	Tanti Creek D/S
✓	✓	✓	13 Shelbourne Court	Mornington	Tanti Creek D/S
		✓	10 Shelley Street	Mornington	Direct to Bay

Properties at risk from Flooding over-floor in Mornington					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
		✓	12 St Mitchell Circuit	Mornington	Tarana Street Drain
		✓	37 St Mitchell Circuit	Mornington	Tarana Street Drain
	✓	✓	71 St Mitchell Circuit	Mornington	Tarana Street Drain
✓	✓	✓	1/75 St Mitchell Circuit	Mornington	Tarana Street Drain
		✓	2/75 St Mitchell Circuit	Mornington	Tarana Street Drain
		✓	38 Strachans Road	Mornington	Fishermans Creek
		✓	40 Strachans Road	Mornington	Fishermans Creek
		✓	56 Strachans Road	Mornington	Fishermans Creek
✓	✓	✓	80 Strachans Road	Mornington	Fishermans Creek
		✓	87 Strachans Road	Mornington	Fishermans Creek
✓	✓	✓	89 Strachans Road	Mornington	Fishermans Creek
		✓	91 Strachans Road	Mornington	Fishermans Creek
		✓	97 Strachans Road	Mornington	Fishermans Creek
✓	✓	✓	99 Strachans Road	Mornington	Fishermans Creek
✓	✓	✓	101 Strachans Road	Mornington	Fishermans Creek
		✓	8 Sunningdale Avenue	Mornington	Fishermans Creek
✓	✓	✓	1A Swansea Grove	Mornington	Fishermans Creek
		✓	1/6 Swansea Grove	Mornington	Fishermans Creek
✓	✓	✓	38-40 Tallis Drive	Mornington	Tarana Street Drain
	✓	✓	2/47 Tanti Avenue	Mornington	Tanti Creek D/S
✓	✓	✓	3/47 Tanti Avenue	Mornington	Tanti Creek D/S
✓	✓	✓	4/47 Tanti Avenue	Mornington	Tanti Creek D/S
✓	✓	✓	5/47 Tanti Avenue	Mornington	Tanti Creek D/S
✓	✓	✓	5/60 Tanti Avenue	Mornington	Direct to Bay
✓	✓	✓	6/60 Tanti Avenue	Mornington	Direct to Bay
	✓	✓	3/110 Tanti Avenue	Mornington	Tanti Creek D/S
✓	✓	✓	117 Tanti Avenue	Mornington	Tanti Creek D/S
		✓	6/9-11 Tenya Court	Mornington	Tarana Street Drain
		✓	30 Terrigal Street	Mornington	Tarana Street Drain
	✓	✓	1 Ti-Tree Grove	Mornington	Fishermans Creek
		✓	2/5 Ti-Tree Grove	Mornington	Fishermans Creek
✓	✓	✓	3/5 Ti-Tree Grove	Mornington	Fishermans Creek
	✓	✓	7A Ti-Tree Grove	Mornington	Fishermans Creek
	✓	✓	7 Ti-Tree Grove	Mornington	Fishermans Creek
		✓	10 Townsend Lane	Mornington	Direct to Bay
		✓	1/1 Turnbull Street	Mornington	Direct to Bay
		✓	25 Vale Street	Mornington	Direct to Bay
		✓	1/5 Venice Street	Mornington	Fishermans Creek
		✓	1/54 Venice Street	Mornington	Fishermans Creek

Properties at risk from Flooding over-floor in Mornington					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
		✓	2/54 Venice Street	Mornington	Fishermans Creek
		✓	3/54 Venice Street	Mornington	Fishermans Creek
		✓	76 Venice Street	Mornington	Fishermans Creek
✓	✓	✓	80 Venice Street	Mornington	Fishermans Creek
✓	✓	✓	82-84 Venice Street	Mornington	Fishermans Creek
	✓	✓	86 Venice Street	Mornington	Fishermans Creek
	✓	✓	8 View Street	Mornington	Fishermans Creek
		✓	11 View Street	Mornington	Fishermans Creek
		✓	14 View Street	Mornington	Fishermans Creek
		✓	1/6 Virginia Street	Mornington	Yuilles Road Drain
		✓	7 Virginia Street	Mornington	Yuilles Road Drain
		✓	1/8 Virginia Street	Mornington	Yuilles Road Drain
		✓	2/8 Virginia Street	Mornington	Yuilles Road Drain
		✓	10-12 Virginia Street	Mornington	Yuilles Road Drain
		✓	14 Virginia Street	Mornington	Yuilles Road Drain
		✓	26 Watt Road	Mornington	Tanti Creek U/S
		✓	30 Watt Road	Mornington	Tanti Creek U/S
✓	✓	✓	70 Watt Road	Mornington	Tanti Creek U/S
✓	✓	✓	72 Watt Road	Mornington	Tanti Creek U/S
✓	✓	✓	74 Watt Road	Mornington	Tanti Creek U/S
		✓	76 Watt Road	Mornington	Tanti Creek U/S
		✓	1/84 Watt Road	Mornington	Tanti Creek U/S
	✓	✓	2/84 Watt Road	Mornington	Tanti Creek U/S
	✓	✓	100 Watt Road	Mornington	Eastern Tanti Park Estate
	✓	✓	1 Weber Drive	Mornington	Fishermans Creek
		✓	3 Weber Drive	Mornington	Fishermans Creek
✓	✓	✓	5 Weber Drive	Mornington	Fishermans Creek
		✓	9 Weber Drive	Mornington	Fishermans Creek
		✓	11 Weber Drive	Mornington	Fishermans Creek
	✓	✓	12 Weber Drive	Mornington	Fishermans Creek
		✓	14 Weber Drive	Mornington	Fishermans Creek
	✓	✓	29 Weber Drive	Mornington	Fishermans Creek
	✓	✓	31 Weber Drive	Mornington	Fishermans Creek
		✓	12 Whitby Street	Mornington	Tanti Creek D/S
		✓	9 Williams Road	Mornington	Fishermans Creek
	✓	✓	12A Williams Road	Mornington	Fishermans Creek
	✓	✓	13A Williams Road	Mornington	Fishermans Creek
	✓	✓	13B Williams Road	Mornington	Fishermans Creek
	✓	✓	17 Williams Road	Mornington	Fishermans Creek

Properties at risk from Flooding over-floor in Mornington					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
	✓	✓	2 Wills Street	Mornington	Fishermans Creek
		✓	1/14 Wilsons Road	Mornington	Fishermans Creek
		✓	2/14 Wilsons Road	Mornington	Fishermans Creek
		✓	4/14 Wilsons Road	Mornington	Fishermans Creek
		✓	2/29 Wilsons Road	Mornington	Fishermans Creek
	✓	✓	3/31-33 Wilsons Road	Mornington	Fishermans Creek
	✓	✓	4/31-33 Wilsons Road	Mornington	Fishermans Creek
✓	✓	✓	62 Wilsons Road	Mornington	Fishermans Creek
✓	✓	✓	2/62 Wilsons Road	Mornington	Fishermans Creek
		✓	64 Wilsons Road	Mornington	Fishermans Creek
		✓	86 Wilsons Road	Mornington	Fishermans Creek
		✓	88 Wilsons Road	Mornington	Fishermans Creek
✓	✓	✓	130 Wilsons Road	Mornington	Fishermans Creek
		✓	1/2 Wood Street	Mornington	Yuilles Road Drain
		✓	2/2 Wood Street	Mornington	Yuilles Road Drain
		✓	3/2 Wood Street	Mornington	Yuilles Road Drain
		✓	4 Wood Street	Mornington	Yuilles Road Drain
		✓	7 Yacht Court	Mornington	Fishermans Creek
		✓	9 Yacht Court	Mornington	Fishermans Creek
		✓	13 Yacht Court	Mornington	Fishermans Creek
		✓	14 Yacht Court	Mornington	Fishermans Creek
		✓	1/15 Yacht Court	Mornington	Fishermans Creek
		✓	2/15 Yacht Court	Mornington	Fishermans Creek
		✓	3/15 Yacht Court	Mornington	Fishermans Creek
		✓	4/15 Yacht Court	Mornington	Fishermans Creek
	✓	✓	51 Yuilles Road	Mornington	Yuilles Road Drain
		✓	55 Yuilles Road	Mornington	Yuilles Road Drain
		✓	57 Yuilles Road	Mornington	Yuilles Road Drain
		✓	59-61 Yuilles Road	Mornington	Yuilles Road Drain
		✓	63 Yuilles Road	Mornington	Yuilles Road Drain
	✓	✓	1-4/71 Yuilles Road	Mornington	Yuilles Road Drain
	✓	✓	80 Yuilles Road	Mornington	Tanti Creek U/S
		✓	1/82-84 Yuilles Road	Mornington	Tanti Creek U/S
		✓	2/82-84 Yuilles Road	Mornington	Tanti Creek U/S
	✓	✓	2/32 Bentons Road	Mount Martha	Fishermans Creek
	✓	✓	3/32 Bentons Road	Mount Martha	Fishermans Creek
		✓	62-64 Bentons Road	Mount Martha	Fishermans Creek
	✓	✓	41 Birdrock Avenue	Mount Martha	Fishermans Creek
	✓	✓	1/11 Cromdale Street	Mount Martha	Fishermans Creek

Properties at risk from Flooding over-floor in Mornington					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
	✓	✓	2/11 Cromdale Street	Mount Martha	Fishermans Creek
✓	✓	✓	3/11 Cromdale Street	Mount Martha	Fishermans Creek
		✓	4/11 Cromdale Street	Mount Martha	Fishermans Creek
	✓	✓	5/11 Cromdale Street	Mount Martha	Fishermans Creek
		✓	14 Dulnain Street	Mount Martha	Fishermans Creek
	✓	✓	18A Dulnain Street	Mount Martha	Fishermans Creek
		✓	4/6 Green Island Avenue	Mount Martha	Fishermans Creek
✓	✓	✓	20 Green Island Avenue	Mount Martha	Fishermans Creek
		✓	4 Indura Street	Mount Martha	Fishermans Creek
		✓	7/4 Kerry Avenue	Mount Martha	Fishermans Creek
✓	✓	✓	8/4 Kerry Avenue	Mount Martha	Fishermans Creek
		✓	3 Lutana Court	Mount Martha	Fishermans Creek
✓	✓	✓	157 Osborne Drive	Mount Martha	Fishermans Creek
✓	✓	✓	159 Osborne Drive	Mount Martha	Fishermans Creek
✓	✓	✓	161 Osborne Drive	Mount Martha	Fishermans Creek
	✓	✓	22/165 Osborne Drive	Mount Martha	Fishermans Creek
	✓	✓	23/165 Osborne Drive	Mount Martha	Fishermans Creek
	✓	✓	24/165 Osborne Drive	Mount Martha	Fishermans Creek
	✓	✓	76/165 Osborne Drive	Mount Martha	Fishermans Creek
	✓	✓	77/165 Osborne Drive	Mount Martha	Fishermans Creek
		✓	78/165 Osborne Drive	Mount Martha	Fishermans Creek
	✓	✓	80/165 Osborne Drive	Mount Martha	Fishermans Creek
	✓	✓	110/165 Osborne Drive	Mount Martha	Fishermans Creek
	✓	✓	111/165 Osborne Drive	Mount Martha	Fishermans Creek
✓	✓	✓	112/165 Osborne Drive	Mount Martha	Fishermans Creek
		✓	114/165 Osborne Drive	Mount Martha	Fishermans Creek
✓	✓	✓	117/165 Osborne Drive	Mount Martha	Fishermans Creek
✓	✓	✓	118/165 Osborne Drive	Mount Martha	Fishermans Creek
	✓	✓	119/165 Osborne Drive	Mount Martha	Fishermans Creek
✓	✓	✓	125/165 Osborne Drive	Mount Martha	Fishermans Creek
		✓	9/183-191 Osborne Drive	Mount Martha	Fishermans Creek
	✓	✓	16/183-191 Osborne Drive	Mount Martha	Fishermans Creek
		✓	17/183-191 Osborne Drive	Mount Martha	Fishermans Creek
		✓	21/183-191 Osborne Drive	Mount Martha	Fishermans Creek
		✓	22/183-191 Osborne Drive	Mount Martha	Fishermans Creek
	✓	✓	23/183-191 Osborne Drive	Mount Martha	Fishermans Creek
		✓	33/183-191 Osborne Drive	Mount Martha	Fishermans Creek
	✓	✓	194 Osborne Drive	Mount Martha	Fishermans Creek
<b>Totals</b>					

Properties at risk from Flooding over-floor in Mornington					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event		Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP			1% AEP	
113	288	614			

Table C2.1 – Properties at risk of flooding around Mornington in Mornington Peninsula

## ISOLATION

No major isolation risks exist for areas around Mornington and Mount Martha. Some localised short-duration isolation may occur due to flash flooding.

## ESSENTIAL INFRASTRUCTURE

- The Bays Hospital, Eastern Ring Road, Mornington Main entry car-park likely flooded in parts during a 5% AEP (20yr ARI) event as well limited access via Main Street.

During an event, see the Public Transport Victoria's Website for details on delays or alterations to services. <http://ptv.vic.gov.au/live-travel-updates/>

Apart from the roads outlined below, all other essential infrastructure and services areas around Mornington and Mount Martha are expected to remain predominantly dry during an intense rainfall event.

## ROAD CLOSURES

The following roads are subject to closure during flooding around Mornington and Mount Martha. Check the VicRoads website for more details: <http://alerts.vicroads.vic.gov.au/>

VicRoads Roads flooded in a 1% AEP (100yr ARI) event
• Esplanade, Mornington between Fishermans Creek Reserve and Webb Street
• Nepean Highway, Mornington southbound at Strachans Road
• Nepean Highway, Mornington southbound between Mornington- Tyabb Road and Moomba Street
• Nepean Highway, Mount Martha between Hakea Drive and Bentons Road

Table C2.2 – VicRoads Possible Road Closures during a flooding event

Mornington Peninsula Council Roads flooded in a 1% AEP (100yr ARI) event			
<b>MORNIGTON</b>	• Murray Street	• Rodney Court	• Wood Street
• Adelaide Street	• Nelson Street	• Rodney Court	• Yacht Court
• Barkly Street	• Nepean Highway (slip lane)	• Schnapper Point Drive	<b>MOUNT MARTHA</b>
• Dava Drive	• Neptune Street	• Seaview Avenue	• Cromdale Street
• Downward Street	• Nuns Road	• Separation Street	• Endeavour Court
• Eastern Ring Road	• Pitt Street	• Strachans Road	• Osborne Drive
• Esplanade	• Prince Street	• Sunningdale Avenue	• Seachange Court
• Johns Road	• Raglan Street	• Webb Street	
• Mulsane Way	• Riordan Court	• Weber Drive	

Table C2.3 – Mornington Peninsula Council Possible Road Closures during a flooding event

## FLOOD MITIGATION

### RETARDING BASINS

Melbourne Water Retarding Basin	On Drain/ Waterway	Spillway Crest Level	Full Supply Level	Embankment Crest Height	Storage Capacity	ANCOLD Hazard Rating	Houses In Flow Path (dam breach)	Melway Reference
Archer Drive	Tarana Street Drain	25.25m AHD	Unavailable	1m	Unavailable	High C	Unavailable	104 K12
Bentons Road	Serpentine Wetlands Drain	Unavailable	Unavailable	Unavailable	32 ML	Very Low	Unavailable	146 B8
Tanti Creek	Tanti Creek	41m AHD	41m AHD	5.35m 42m AHD	Unavailable	High C	Unavailable	145 J2

Table C2.4 – Melbourne Water Retarding Basins around Mornington & Mount Martha in the Mornington Peninsula

A number of reserves and parklands may also act as retarding basins during flooding events. These include:

Reserve / Park	On Drain / Waterway	Location	Melway Reference
Fishermans Creek Reserve	Fishermans Creek	Esplanade, Mornington	145 B1
Nunns Reserve	Fishermans Creek	Nunns Road Mornington	145 C2
Pine Avenue Reserve	Fishermans Creek	Pine Avenue, Mornington	145 D2
Edward Berry Reserve	Tanti Creek	Phillip Street, Mornington	104 E10

Table C2.5 – Parks and Reserves around Mornington & Mount Martha near waterways in the Mornington Peninsula

### LEVEES & PUMPING STATIONS

No formal Pumping Stations or Levees exist around Mornington or Mount Martha.

### COMMAND, CONTROL & COORDINATION

VICSES will assume overall control of the response to flood incidents. Other agencies will be requested to support operations as detailed in this Plan. Control and coordination of a flood incident shall be carried out at the lowest effective level and in accordance with the State Emergency Response Plan (EMMV Part 3). During significant events, VICSES will conduct incident management using multi-agency resources.

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## FLOOD IMPACTS & REQUIRED ACTIONS

The table below is a breakdown of the number of properties flooded in a 1% AEP (100yr ARI) event. Refer to the following intelligence card/s for Fishermans Creek, Tanti Creek for more details.

Land Use Flooded in a 1% AEP Event	Total
Residential	466
Commercial	53
Industrial	90
Public Land	5
Rural	0
<b>Total</b>	<b>614</b>

Table C2.6 – Breakdown of likely land use flooded around Mornington during a 1% AEP event

## FLOOD INTELLIGENCE CARD – FISHERMANS CREEK, TANTI CREEK (UNGAUGED)

Version 2 – July 2017



*Note: flood intelligence records are approximations. This is because no two floods at a location, even if they peak at the same height, will have identical impacts. Flood intelligence cards detail the relationship between flood magnitude and flood consequences. More details about flood intelligence and its use can be found in the Australian Emergency Management Manuals flood series.*

*This Flood Intelligence Card publication is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.*

CLOSEST RAIN GAUGE	<b>Moorooduc (Devilbend Reservoir) Rain Gauge</b>
LOCATION	<b>Devilbend Reservoir Spillway, Graydens Road, Moorooduc</b>
MELWAY REF:	<b>152 H2</b>

GAUGE NUMBER	<b>586206</b>
GAUGE TYPE	<b>Rain</b>
TELEMETRIC/MANUAL	<b>Telemetric</b>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Operational Considerations
10mm in 10 mins; 17mm in 30 mins; 23mm in 1 hour; 29mm in 2 hours; or 43mm in 6 hours;  Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.	20% AEP (5 year ARI)	<b>Properties at Flood Risk (Over-Floor)</b> <b>113 Properties in Total</b> <b>Direct to Bay</b> <ul style="list-style-type: none"> <li>• 3/59, 70, 71, 72A, 72B, 74, 76, 2/81, Units 5-6/81 &amp; 3/89 Barkly Street, Mornington</li> <li>• 11/776-779 &amp; 6/799 Esplanade , Mornington</li> <li>• 10 Franklin Place, Mornington</li> <li>• 143, 147, 150, 154 &amp; 332 Main Street, Mornington</li> <li>• 70 &amp; 1/70 McLaren Place, Mornington</li> <li>• 9, 15, 17, 19, 21 &amp; 23 Murray Street, Mornington</li> <li>• Units 5-6/60 Tanti Avenue, Mornington</li> </ul> <b>Eastern Tanti Park Estate</b> <ul style="list-style-type: none"> <li>• 42 Ellinbank Crescent, Mornington</li> </ul> <b>Fishermans Creek</b> <ul style="list-style-type: none"> <li>• 25 &amp; 27 Bentons Road, Mornington</li> <li>• 61 &amp; 65 Carnoustie Grove, Mornington</li> <li>• 27, 29, 1/31, 2/31, 1/33A, 1/33, 2/33, 35, 35A &amp; 1/37 Dava Drive, Mornington</li> <li>• 5 &amp; 9 Eric Crescent, Mornington</li> </ul>	VICSES to respond on a request by request basis  VICSES may provide warnings using EM-COP to Mornington Peninsula Shire and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.  Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 720 Esplanade, Mornington</li> <li>• 5/9 &amp; 20 King Georges Avenue, Mornington</li> <li>• 43 Mitchell Street, Mornington</li> <li>• 23 Moona Avenue, Mornington</li> <li>• 4 &amp; 6 Mulsanne Way, Mornington</li> <li>• 721, 1/792 &amp; 831-833 Nepean Highway, Mornington</li> <li>• 3/13 Pitt Street, Mornington</li> <li>• 74 Prince Street, Mornington</li> <li>• 12 Sailing Lane, Mornington</li> <li>• 80, 89, 99 &amp; 101 Strachans Road, Mornington</li> <li>• 1A Swansea Grove, Mornington</li> <li>• 3/5 Ti-Tree Grove, Mornington</li> <li>• 80 &amp; 82-84 Venice Street, Mornington</li> <li>• 5 Weber Drive, Mornington</li> <li>• 62, 2/62 &amp; 130 Wilsons Road, Mornington</li> <li>• 3/11 Cromdale Street, Mount Martha</li> <li>• 20 Green Island Avenue, Mount Martha</li> <li>• 8/4 Kerry Avenue, Mount Martha</li> <li>• 157, 159, 161, 112/165, Units 117-118/165 &amp; 125/165 Osborne Drive, Mount Martha</li> </ul> <p><b>Tanti Creek</b></p> <ul style="list-style-type: none"> <li>• 130 &amp; 2/173 Barkley Street, Mornington</li> <li>• 1/40 Bath Street, Mornington</li> <li>• 26, 8/65, 1/69, 5/69 &amp; 78 Herbert Street, Mornington</li> <li>• 2 Lucerne Avenue, Mornington</li> <li>• 4, 10 &amp; 18 Shandon Street, Mornington</li> <li>• 2/12 &amp; 13 Shelbourne Court, Mornington</li> <li>• 3/47, 4/47, 5/47, 5/60, 6/60 &amp; 117 Tanti Avenue, Mornington</li> <li>• 15 &amp; 10/19 Bruce Street, Mornington</li> <li>• 127 Mornington-Tyabb Road, Mornington</li> <li>• 24A, 24B, 26 &amp; 31 Progress Street, Mornington</li> </ul> <p><b>Tarana Street Drain</b></p> <ul style="list-style-type: none"> <li>• 3 Archer Drive, Mornington</li> <li>• 11, 13 &amp; 17 Parwan Crescent, Mornington</li> <li>• 1/75 St Mitchell Circuit, Mornington</li> <li>• 38-40 Tallis Drive, Mornington</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Operational Considerations
		<p><b>Yuilles Road Drain</b></p> <ul style="list-style-type: none"> <li>1/901 &amp; 903 Nepean Highway, Mornington</li> <li>51 &amp; 1-4/71 Yuilles Road, Mornington</li> </ul> <p><b>Community Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>Mornington Peninsula Youth Enterprises and Community Garden, 43 Mitchell Street, Mornington</li> <li>Pine Avenue Reserve, Pine Avenue, Mornington</li> </ul> <p><b>Water Over Road (above 300mm depth)</b></p> <p><b>Fishermans Creek</b></p> <ul style="list-style-type: none"> <li>Esplanade, Mornington</li> <li>Nelson Street, Mornington</li> <li>Nepean Highway, Mornington</li> <li>Nepean Highway, Mount Martha</li> <li>Rodney Court, Mornington</li> </ul> <p><b>Pitt Street Drain</b></p> <ul style="list-style-type: none"> <li>Pitt Street, Mornington</li> <li>Yacht Court, Mornington</li> </ul> <p><b>Tanti Creek</b></p> <ul style="list-style-type: none"> <li>Schnapper Point Drive, Mornington</li> </ul>	
<p>14mm in 10 mins; 24mm in 30 mins; 30mm in 1 hour; 39mm in 2 hours; or 57mm in 6 hours;</p> <p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>	<p>5% AEP (20 year ARI)</p>	<p><b>Properties at Flood Risk (Over-Floor)</b></p> <p><b>288 Properties in Total</b></p> <p><b>Direct to Bay</b></p> <ul style="list-style-type: none"> <li>3/59, 70, 71, 72A, 72B, 74, 76, 2/81, Units 5-6/81 &amp; 3/89 Barkly Street, Mornington</li> <li>2A Cook Street, Mornington</li> <li>Units 7-9/776-779, 11/776-779 &amp; 5-6/799 Esplanade, Mornington</li> <li>2 &amp; 10 Franklin Place, Mornington</li> <li>143, 147, 150, 154, 207, 209 &amp; 332 Main Street, Mornington</li> <li>70 &amp; 1/70 McLaren Place, Mornington</li> <li>5, 9, 11, 15, 17, 19, 21, 23, 25, 31 &amp; 33 Murray Street, Mornington</li> <li>Units 5-6/60 Tanti Avenue, Mornington</li> </ul> <p><b>Eastern Tanti Park Estate</b></p> <ul style="list-style-type: none"> <li>40 &amp; 42 Ellinbank Crescent, Mornington</li> <li>100 Watt Road, Mornington</li> </ul> <p><b>Fishermans Creek</b></p> <ul style="list-style-type: none"> <li>17 Alma Street, Mornington</li> <li>25, 27 &amp; 57 Bentons Road, Mornington</li> </ul>	<p>VICSES to respond on a request by request basis</p> <p>VICSES may provide warnings using EM-COP to Mornington Peninsula Shire and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.</p> <p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 2 &amp; 4A Brent Street, Mornington</li> <li>• 57, 61, 63 &amp; 65 Carnoustie Grove, Mornington</li> <li>• 5/25 Darcy Street, Mornington</li> <li>• 2/25, 27, 29, 1/31, 2/31, 1/33A, 1/33, 2/33, 35, 35A, 1/37 &amp; 2/37 Dava Drive, Mornington</li> <li>• 43 Dorothy Crescent, Mornington</li> <li>• 5 &amp; 9 Eric Crescent, Mornington</li> <li>• 720 Esplanade, Mornington</li> <li>• Units 1-5/14-16 Fleet Street, Mornington</li> <li>• 57 Hampden Street, Mornington</li> <li>• 7A &amp; 7 Hargreaves Street, Mornington</li> <li>• 5/9, 18 &amp; 20 King Georges Avenue, Mornington</li> <li>• 35 Kooyonga Grove, Mornington</li> <li>• 43 Mitchell Street, Mornington</li> <li>• 23 Moona Avenue, Mornington</li> <li>• 4 &amp; 6 Mulsanne Way, Mornington</li> <li>• 3, 5/4-10, 2/5 &amp; 3/5 Napier Street, Mornington</li> <li>• 17 Nelson Street, Mornington</li> <li>• 717, 719, 721, 727, Units 1-2/792, 796, 831-833, 832 &amp; 855 Nepean Highway, Mornington</li> <li>• 58, 60, 60A &amp; 62-64 Nunns Road, Mornington</li> <li>• 1/6 &amp; 2/6 Orchid Avenue, Mornington</li> <li>• 3, 22 &amp; 14/26 Pamela Place, Mornington</li> <li>• 3/2-4, 4/2-4, 1/3 &amp; 3/13 Pitt Street, Mornington</li> <li>• 37, 39, 72 &amp; 74 Prince Street, Mornington</li> <li>• 3 &amp; 1/18-20 Rodney Court, Mornington</li> <li>• 12 Sailing Lane, Mornington</li> <li>• 1/21, 2/21 &amp; 6/33 Seaton Road, Mornington</li> <li>• 50 Seaview Avenue, Mornington</li> <li>• 80, 89, 99 &amp; 101 Strachans Road, Mornington</li> <li>• 1A Swansea Grove, Mornington</li> <li>• 1, 3/5, 7A &amp; 7 Ti-Tree Grove, Mornington</li> <li>• 80, 82-84 &amp; 86 Venice Street, Mornington</li> <li>• 8 View Street, Mornington</li> <li>• 1, 5, 12, 29 &amp; 31 Weber Drive, Mornington</li> <li>• 12A, 13A, 13B &amp; 17 Williams Road, Mornington</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 2 Wills Street, Mornington</li> <li>• 3/31-33, 4/31-33, 62, 2/62, 64, 86, 88 &amp; 130 Wilsons Road, Mornington</li> <li>• 2/32 &amp; 3/32 Bentons Road, Mount Martha</li> <li>• 41 Birdrock Avenue, Mount Martha</li> <li>• 1/11, 2/11, 3/11 &amp; 5/11 Cromdale Street, Mount Martha</li> <li>• 18A Dulnain Street, Mount Martha</li> <li>• 20 Green Island Avenue, Mount Martha</li> <li>• 8/4 Kerry Avenue, Mount Martha</li> <li>• 157, 159, 161, 22/165, 23/165, 24/165, Units 76-77/165, 80/165, Units 110-112/165, Units 117-119/165, 125/165, 16/183-191, 23/183-191 &amp; 194 Osborne Drive, Mount Martha</li> <li><b>Tanti Creek</b></li> <li>• 130, 135, 137 &amp; 2/173 Barkley Street, Mornington</li> <li>• 27, 38 &amp; 1/40 Bath Street, Mornington</li> <li>• 2/22 Beatty Parade, Mornington</li> <li>• 86 &amp; 7/96-98 Beleura Hill Road, Mornington</li> <li>• 23 Elizabeth Street, Mornington</li> <li>• 23A, 26, 27, 5/65, 8/65, 1/69, 3/69, 5/69, 78 &amp; 79B Herbert Street, Mornington</li> <li>• 1/1, 2, 1/3, 4, Units 1-2/10, 11A &amp; 1/16 Lucerne Avenue, Mornington</li> <li>• 13 Marchington Avenue, Mornington</li> <li>• 21 Mills Beach Close, Mornington</li> <li>• 10 Morell Street, Mornington</li> <li>• 4, 8, 10, 16, 18, 20, 1/22, 24 &amp; 1/32 Shandon Street, Mornington</li> <li>• 1/12, 2/12 &amp; 13 Shelbourne Court, Mornington</li> <li>• 2/47, 3/47, 4/47, 5/47, 5/60, 6/60, 3/110 &amp; 117 Tanti Avenue, Mornington</li> <li>• 15 &amp; 10/19 Bruce Street, Mornington</li> <li>• 1-2/125 &amp; 127 Mornington-Tyabb Road, Mornington</li> <li>• 11, 3/15-17, 4/15-17, 19, 24A, 24B, 26, 1/28, 2/28, 31, 32, 34, 36 &amp; 37 Progress Street, Mornington</li> <li>• 70, 72, 74 &amp; 2/84 Watt Road, Mornington</li> <li>• 80 YUILLES Road, Mornington</li> <li><b>Tarana Street Drain</b></li> <li>• 3 Albany Way, Mornington</li> <li>• 3 Archer Drive, Mornington</li> <li>• 37 Bungower Road, Mornington</li> <li>• 1/29 &amp; 2/29 Carbine Way, Mornington</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 46 &amp; 53 Carramar Street, Mornington</li> <li>• 1/15, 17 &amp; 19 Coimadai Court, Mornington</li> <li>• 6 Diamond Court, Mornington</li> <li>• 4 Eumong Court, Mornington</li> <li>• 5, 6 &amp; 8 Lavery Close, Mornington</li> <li>• 11, 13, 15, 17 &amp; 19 Parwan Crescent, Mornington</li> <li>• 71 &amp; 1/75 St Mitchell Circuit, Mornington</li> <li>• 38-40 Tallis Drive, Mornington</li> </ul> <p><b>Yuilles Road Drain</b></p> <ul style="list-style-type: none"> <li>• 13 Andrew Place, Mornington</li> <li>• 9 Broxbourne Brae, Mornington</li> <li>• 901A, 1/901, 903, 905 &amp; 1/1002-1004 Nepean Highway, Mornington</li> <li>• 51 &amp; 1-4/71 Yuilles Road, Mornington</li> </ul> <p><b>Community Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>• Beach Babies (Child Care Centre), 18-20 Fleet Street, Mornington</li> <li>• Mornington Peninsula Youth Enterprises and Community Garden, 43 Mitchell Street, Mornington</li> <li>• Pine Avenue Reserve, Pine Avenue, Mornington</li> </ul> <p><b>Water Over Road (above 300mm depth)</b></p> <p><b>Fishermans Creek</b></p> <ul style="list-style-type: none"> <li>• Esplanade, Mornington</li> <li>• Nelson Street, Mornington</li> <li>• Nepean Highway, Mornington</li> <li>• Nepean Highway, Mount Martha</li> <li>• Rodney Court, Mornington</li> </ul> <p><b>Pitt Street Drain</b></p> <ul style="list-style-type: none"> <li>• Pitt Street, Mornington</li> <li>• Yacht Court, Mornington</li> </ul> <p><b>Tanti Creek</b></p> <ul style="list-style-type: none"> <li>• Schnapper Point Drive, Mornington</li> </ul>	
<p>21mm in 10 mins; 33mm in 30 mins; 42mm in 1 hour; 53mm in 2 hours; or 77mm in 6 hours;</p>	<p>1% AEP (100 year ARI)</p>	<p><b>Properties at Flood Risk (Over-Floor)</b></p> <p><b>614 Properties in Total</b></p> <p><b>Direct to Bay</b></p> <ul style="list-style-type: none"> <li>• Units 1-10/5, 3/59, 7/59, 70, 71, 71A, 71B, 72A, 72B, 74, 76, Units 1-2/81, Units 5-6/81, 82 &amp; 3/89 Barkly Street, Mornington</li> <li>• 13 Canterbury Street, Mornington</li> </ul>	<p>VICSES to respond on a request by request basis</p> <p>VICSES may provide warnings using EM-COP to Mornington Peninsula Shire and appropriate agencies as required based intelligence regarding flood levels and the</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Operational Considerations
<p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>		<ul style="list-style-type: none"> <li>• 2A Cook Street, Mornington</li> <li>• 723, 2/747, 764, Units 7-11/776-779 &amp; Units 5-6/799 Esplanade , Mornington</li> <li>• 2 &amp; 10 Franklin Place, Mornington</li> <li>• 10 Gordon Street, Mornington</li> <li>• 143, 147, 150, 154, 207, 209, 262, 1-4/326, 2-6/326 &amp; 332 Main Street, Mornington</li> <li>• 70 &amp; 1/70 McLaren Place, Mornington</li> <li>• 5, 9, 11, 15, 17, 19, 21, 23, 25, 31 &amp; 33 Murray Street, Mornington</li> <li>• 17 Northcote Terrace, Mornington</li> <li>• 55 Queen Street, Mornington</li> <li>• 10 Shelley Street, Mornington</li> <li>• 5/60 &amp; 6/60 Tanti Avenue, Mornington</li> <li>• 10 Townsend Lane, Mornington</li> <li>• 1/1 Turnbull Street, Mornington</li> <li>• 25 Vale Street, Mornington</li> <li>• <b>Eastern Tanti Park Estate</b></li> <li>• 40, 42 &amp; 54 Ellinbank Crescent, Mornington</li> <li>• 100 Watt Road, Mornington</li> <li>• <b>Fishermans Creek</b></li> <li>• 42 &amp; 63 Adelaide Street, Mornington</li> <li>• 17 Alma Street, Mornington</li> <li>• 17, 25, 27 &amp; 57 Bentons Road, Mornington</li> <li>• 2, 4A, 8 &amp; 1/15 Brent Street, Mornington</li> <li>• 3 Burnett Street, Mornington</li> <li>• 2/50, 56, 57, 58, 61, 63 &amp; 65 Carnoustie Grove, Mornington</li> <li>• 3, 1/5, 2/5, 3/5, 4/5, 5/5 &amp; 6/5 Carol Street, Mornington</li> <li>• 1/7-9 &amp; 12 Coral Road, Mornington</li> <li>• 5/25 Darcy Street, Mornington</li> <li>• 2/25, 27, 29, 1/31, 2/31, 1/33A, 1/33, 2/33, 35, 35A, 1/37 &amp; 2/37 Dava Drive, Mornington</li> <li>• 43 Dorothy Crescent, Mornington</li> <li>• 3 Downward Street, Mornington</li> <li>• 5 &amp; 9 Eric Crescent, Mornington</li> <li>• 720, 721 &amp; 723 Esplanade, Mornington</li> <li>• 1/4, 2/4, 3/4, 5 &amp; Units 1-5/14-16 Fleet Street, Mornington</li> <li>• 3 &amp; 13 Fulton Avenue, Mornington</li> <li>• 9, 2/10, 11A, 11 &amp; 13 Gleneagles Avenue, Mornington</li> </ul>	<p>risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.</p> <p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 57 Hampden Street, Mornington</li> <li>• 7A &amp; 7 Hargreaves Street, Mornington</li> <li>• 11 Hutchins Park Close, Mornington</li> <li>• 5/9, 3/15, 18 &amp; 20 King Georges Avenue, Mornington</li> <li>• 29 &amp; 35 Kooyonga Grove, Mornington</li> <li>• 1/3 Kuranga Court, Mornington</li> <li>• 7, 23, 1/100, 2/100, 3/100 &amp; 135 Maxwell Street, Mornington</li> <li>• 32, 43, 52, 2/60 &amp; 3/60 Mitchell Street, Mornington</li> <li>• 15, 17 &amp; 18 Moomba Street, Mornington</li> <li>• 23 Moona Avenue, Mornington</li> <li>• 4 &amp; 6 Mulsanne Way, Mornington</li> <li>• 3, 5/4-10, 1/5, 2/5 &amp; 3/5 Napier Street, Mornington</li> <li>• 27A &amp; 27 Naples Street, Mornington</li> <li>• 2, 4, 1/6, 2/6, 3/6, 7, 9, 17, 19, 3/27, 30 &amp; 33 Nelson Street, Mornington</li> <li>• 717, 719, 721, 727, 729, 1/792, 2/792, 796, 831-833, 832, 855, 901A, 1/901, 903, 905, 917-921, 2/970, 988-990, 992, 994, 1000, 1/1002-1004, 1008 &amp; 1010-1012 Nepean Highway, Mornington</li> <li>• 14 Neptune Street, Mornington</li> <li>• 20, 1/49, 2/49, 3/49, 52, 4/53-55, 6/53-55, 2/57, 58, 60, 60A, 62-64 &amp; 1/69 Nunns Road, Mornington</li> <li>• 3/4-6, 4/4-6 &amp; 3/8 Oakland Street, Mornington</li> <li>• 1/6 &amp; 2/6 Orchid Avenue, Mornington</li> <li>• 3, 5, 20, 22, 3/26, 10/26, 11/26, 12/26 &amp; 14/26 Pamela Place, Mornington</li> <li>• 31 Pender Avenue, Mornington</li> <li>• 1/2-4, 2/2-4, 3/2-4, 4/2-4, 5/2-4, 1/3, 1/13, 3/13, 24 &amp; 26 Pitt Street, Mornington</li> <li>• 37, 39, 47, 1/59, 2/59, 72, 74, 81, 1/83, 3/83, 11/83, 12/83, 97, 4/103, 5/107 &amp; 108 Prince Street, Mornington</li> <li>• 40 Raglan Street, Mornington</li> <li>• 3 &amp; 8 Ranch Court, Mornington</li> <li>• 14 Riordan Court, Mornington</li> <li>• 3 &amp; 1/18-20 Rodney Court, Mornington</li> <li>• 12 Sailing Lane, Mornington</li> <li>• 1/21, 2/21, 4/29, 5/31 &amp; 6/33 Seaton Road, Mornington</li> <li>• 9B &amp; 50 Seaview Avenue, Mornington</li> <li>• 4/18 &amp; 5/18 Separation Street, Mornington</li> <li>• 38, 40, 56, 80, 87, 89, 91, 97, 99 &amp; 101 Strachans Road, Mornington</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 8 Sunningdale Avenue, Mornington</li> <li>• 1A &amp; 1/6 Swansea Grove, Mornington</li> <li>• 1, 2/5, 3/5, 7A &amp; 7 Ti-Tree Grove, Mornington</li> <li>• 1/5, 1/54, 2/54, 3/54, 76, 80, 82-84 &amp; 86 Venice Street, Mornington</li> <li>• 8, 11 &amp; 14 View Street, Mornington</li> <li>• 1, 3, 5, 9, 11, 12, 14, 29 &amp; 31 Weber Drive, Mornington</li> <li>• 9, 12A, 13A, 13B &amp; 17 Williams Road, Mornington</li> <li>• 2 Wills Street, Mornington</li> <li>• 1/14, 2/14, 4/14, 2/29, 3/31-33, 4/31-33, 62, 2/62, 64, 86, 88 &amp; 130 Wilsons Road, Mornington</li> <li>• 7, 9, 13, 14 &amp; Units 1-4/15 Yacht Court, Mornington</li> <li>• 2/32, 3/32 &amp; 62-64 Bentons Road, Mount Martha</li> <li>• 41 Birdrock Avenue, Mount Martha</li> <li>• 1/11, 2/11, 3/11, 4/11 &amp; 5/11 Cromdale Street, Mount Martha</li> <li>• 14 &amp; 18A Dulnain Street, Mount Martha</li> <li>• 4/6 &amp; 20 Green Island Avenue, Mount Martha</li> <li>• 4 Indura Street, Mount Martha</li> <li>• 7/4 &amp; 8/4 Kerry Avenue, Mount Martha</li> <li>• 3 Lutana Court, Mount Martha</li> <li>• 157, 159, 161, 22/165, 23/165, 24/165, Units 76-78/165, 80/165, Units 110-112/165, 114/165, Units 117-119/165, 125/165, 9/183-191, Units 16-17/183-191, Units 21-23/183-191, 33/182-191 &amp; 194 Osborne Drive, Mount Martha</li> <li><b>Tanti Creek</b></li> <li>• 116-118, 130, 135, 137 &amp; 2/173 Barkley Street, Mornington</li> <li>• 6, 6/24, 27, 30, 32, 38 &amp; 1/40 Bath Street, Mornington</li> <li>• 2/22 &amp; 3/22 Beatty Parade, Mornington</li> <li>• 86, 4/96-98 &amp; 7/96-98 Beleura Hill Road, Mornington</li> <li>• 9-11 Caldwell Street, Mornington</li> <li>• 21 &amp; 23 Elizabeth Street, Mornington</li> <li>• 20, 23A, 26, 27, 51, 53, Units 1-8/65, 1/69, 3/69, 5/69, 3/72, 78, 79B, 2/85, 3/94-96, 99 &amp; 99A Herbert Street, Mornington</li> <li>• 1A, 1/1, 2/1, 2, 1/3, 4, Units 1-5/6, Units 1-2/10, 4/10, 11A, 1/16, 3/16, 10/16, 22 &amp; 2/22 Lucerne Avenue, Mornington</li> <li>• 13 Marchington Avenue, Mornington</li> <li>• 21 Mills Beach Close, Mornington</li> <li>• 6 &amp; 10 Morell Street, Mornington</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 4, 6, 8, 10, 12, 16, 18, 20, 1/22, 2/22, 24, 26 &amp; 1/32 Shandon Street, Mornington</li> <li>• 1/12, 2/12 &amp; 13 Shelbourne Court, Mornington</li> <li>• 2/47, 3/47, 4/47, 5/47, 5/60, 6/60, 3/110 &amp; 117 Tanti Avenue, Mornington</li> <li>• 12 Whitby Street, Mornington</li> <li>• 15, 16, 3/19, 9/19 &amp; 10/19 Bruce Street, Mornington</li> <li>• 1-2/125 &amp; 127 Mornington-Tyabb Road, Mornington</li> <li>• 9, 11, 13, 1/15-17, 3/15-17, 4/15-17, 19, 21, 24A, 24B, 1/25, 5/25, 26, 21/27, 22/27, 1/28, 2/28, 1/30, 2/30, 31, 32, 34, 36 &amp; 37 Progress Street, Mornington</li> <li>• 26, 30, 70, 72, 74, 76, 1/84, 2/84 &amp; 100 Watt Road, Mornington</li> <li>• 80, 1/82-84 &amp; 2/82-84 Yuilles Road, Mornington</li> </ul> <p><b>Tarana Street Drain</b></p> <ul style="list-style-type: none"> <li>• 3 Albany Way, Mornington</li> <li>• 3 Archer Drive, Mornington</li> <li>• 6 Bareena Court, Mornington</li> <li>• 37 Bungower Road, Mornington</li> <li>• 2/23, 25, 1/29, 2/29 &amp; 31 Carbine Way, Mornington</li> <li>• 46 &amp; 53 Carramar Street, Mornington</li> <li>• 1/15, 17 &amp; 19 Coimadai Court, Mornington</li> <li>• 5 Currawong Street, Mornington</li> <li>• 1 Damian Close, Mornington</li> <li>• 6 Diamond Court, Mornington</li> <li>• 4 Eumong Court, Mornington</li> <li>• 12 Katherine Court, Mornington</li> <li>• 4, 5, 6 &amp; 8 Lavery Close, Mornington</li> <li>• 6, 12 &amp; 14 Noah Close, Mornington</li> <li>• 11, 13, 15, 17 &amp; 19 Parwan Crescent, Mornington</li> <li>• 20 Robertson Drive, Mornington</li> <li>• 12, 37, 71, 1/75 &amp; 2/75 St Mitchell Circuit, Mornington</li> <li>• 38-40 Tallis Drive, Mornington</li> <li>• 6/9-11 Tenya Court, Mornington</li> <li>• 30 Terrigal Street, Mornington</li> </ul> <p><b>Yuilles Road Drain</b></p> <ul style="list-style-type: none"> <li>• 13 Andrew Place, Mornington</li> <li>• 51 Bayview Road, Mornington</li> <li>• 4 &amp; 3/6 Bennetts Road, Mornington</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 8, 10 &amp; 12 Botany Walk, Mornington</li> <li>• 9 &amp; 11 Broxbourne Brae, Mornington</li> <li>• 5 Cumming Court, Mornington</li> <li>• 1/11-13, 2/11-13, 3/11-13, 4/11-13, 5/11-13, 6/11-13, 14, 16A, 16B, 18A, 18B, 20, 22A, 1/24 &amp; 2/24 Diane Street, Mornington</li> <li>• 301 Dunns Road, Mornington</li> <li>• 6 Farnham Place, Mornington</li> <li>• 18 Lawson Court, Mornington</li> <li>• 29-35, 1/37, 1/43, 2/43, 45, 51, 1-2/125 &amp; 127 Mornington-Tyabb Road, Mornington</li> <li>• 901A, 1/901, 903, 905, 917-921, 2/970, 988-990, 992, 994, 1000, 1/1002-1004, 1008 &amp; 1010-1012 Nepean Highway, Mornington</li> <li>• 2 Pentecost Road, Mornington</li> <li>• 46, 50 &amp; 52 Seaview Avenue, Mornington</li> <li>• 1/6, 7, 1/8, 2/8, 10-12 &amp; 14 Virginia Street, Mornington</li> <li>• 1/2, 2/2, 3/2 &amp; 4 Wood Street, Mornington</li> <li>• 51, 55, 57, 59-61, 63 &amp; 1-4/71 Yuilles Road, Mornington</li> </ul> <p><b>Community Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>• Beach Babies (Child Care Centre), 18-20 Fleet Street, Mornington</li> <li>• South Mornington Preschool, 1 Downward Street Mornington</li> <li>• Koorootang Court Retirement Village, 183 Osbourne Avenue, Mount Martha</li> <li>• Martha's Point Retirement Village, 165 Osborne Drive, Mount Martha</li> <li>• Mornington Peninsula Youth Enterprises and Community Garden, 43 Mitchell Street, Mornington</li> <li>• Pine Avenue Reserve, Pine Avenue, Mornington</li> </ul> <p><b>Essential Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>• The Bays Hospital, Eastern Ring Road, Mornington Main entry car-park likely flooded in parts as well limited access via Main Street</li> </ul> <p><b>Water Over Road (above 300mm depth)</b></p> <p><b>Fishermans Creek</b></p> <ul style="list-style-type: none"> <li>• Adelaide Street, Mornington</li> <li>• Cromdale Street, Mount Martha</li> <li>• Dava Drive, Mornington</li> <li>• Downward Street, Mornington</li> <li>• Endeavour Court, Mount Martha</li> <li>• Esplanade, Mornington</li> <li>• Esplanade, Mornington</li> <li>• Johns Road, Mornington</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• Mulsane Way, Mornington</li> <li>• Nelson Street, Mornington</li> <li>• Nepean Highway, Mornington</li> <li>• Nepean Highway, Mount Martha</li> <li>• Nepean Highway, (Slip Lane) Mornington</li> <li>• Prince Street, Mornington</li> <li>• Raglan Street, Mornington</li> <li>• Riordan Court, Mornington</li> <li>• Rodney Court, Mornington</li> <li>• Seachange Court, Mount Martha</li> <li>• Strachans Road, Mornington</li> <li>• Sunningdale Avenue, Mornington</li> <li>• Webb Street, Mornington</li> <li>• Weber Drive, Mornington</li> </ul> <p><b>Pitt Street Drain</b></p> <ul style="list-style-type: none"> <li>• Neptune Street, Mornington</li> <li>• Nunns Road, Mornington</li> <li>• Pitt Street, Mornington</li> <li>• Separation Street, Mornington</li> <li>• Yacht Court, Mornington</li> </ul> <p><b>Tanti Creek</b></p> <ul style="list-style-type: none"> <li>• Barkly Street, Mornington</li> <li>• Eastern Ring Road, Mornington</li> <li>• Murray Street, Mornington</li> <li>• Seaview Avenue, Mornington</li> <li>• Schnapper Point Drive, Mornington</li> </ul> <p><b>Yuilles Road Drain</b></p> <ul style="list-style-type: none"> <li>• Nepean Highway Mornington</li> <li>• Wood Street Mornington</li> </ul>	

Table C2.7 – Breakdown of possible consequences at various rainfall intensities around Mornington with operational considerations

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## APPENDIX C3 – HASTINGS FLOOD EMERGENCY PLAN

### OVERVIEW OF FLOODING CONSEQUENCES

Kings Creek and Warringine Creek are two open waterways beginning inland in Tuerong & Balnarring respectively, flowing east and discharging into Westerport Bay to the north and south of the town centre of Hastings. Within the town centre, two Melbourne Water stormwater drainage systems, Kings Creek Drain & Warringine Creek Drain are designed to clear stormwater to the two Creeks.

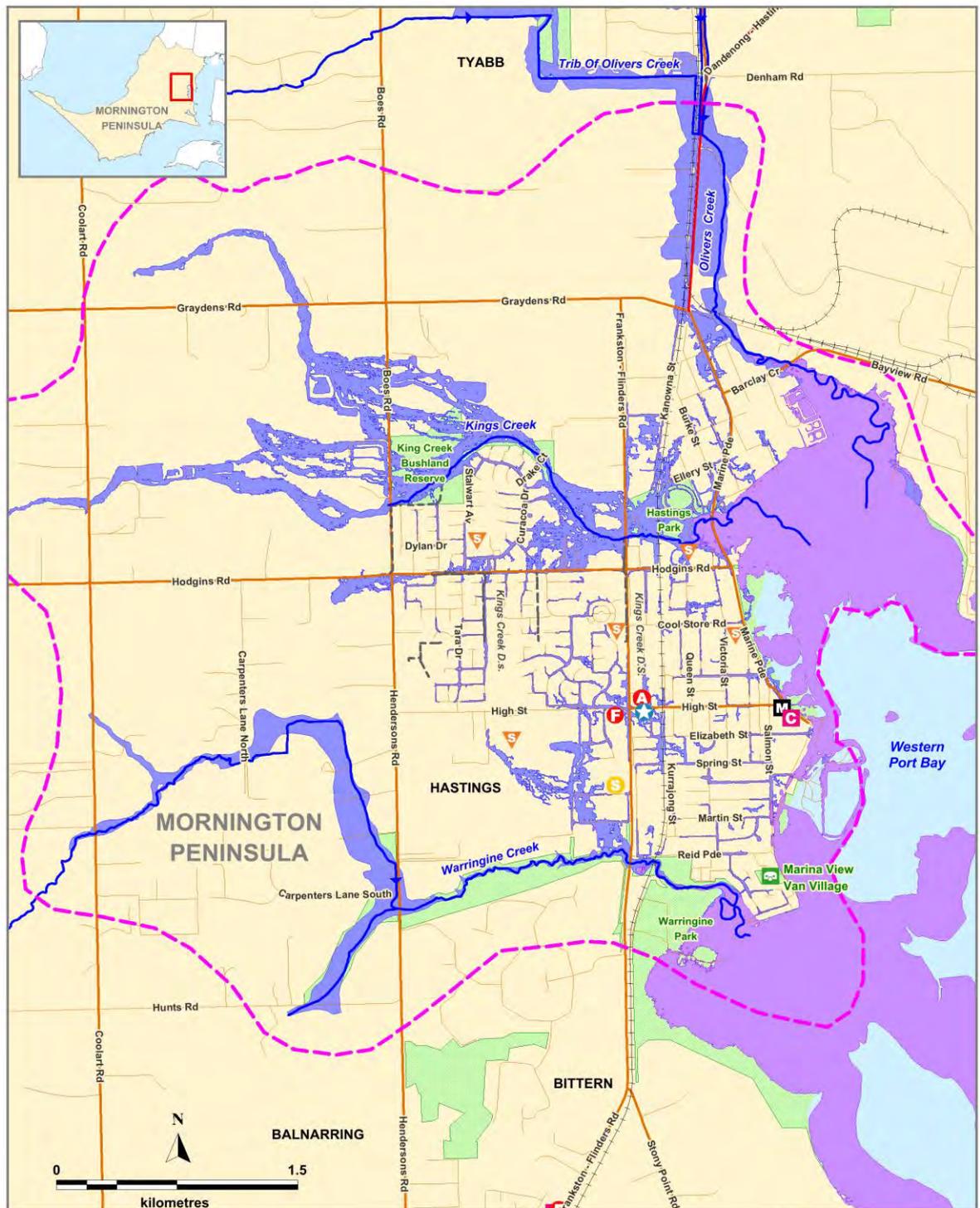
Both Kings Creek and Warringine Creek are part of small catchments and thus respond to short duration / high intensity storms. A number of local roads and properties are at risk from the flash flooding that may result.

### WARNING TIMES

No formal warning times are available for Hastings due to small catchment sizes in the area and the prevalence of flash flooding and short warning times available.

Rain gauges present at Devilbend Reservoir and Arthurs Seat may provide some warning of expected flooding. See the Melbourne Water website for more information on these gauges: <http://www.melbournewater.com.au/waterdata/rainfallandrivervelldata/Pages/Rainfall-and-river-level-new.aspx>. It is advised that residents monitor the Bureau of Meteorology's website <http://www.bom.gov.au/> and the VicEmergency website <https://emergency.vic.gov.au/> for any thunderstorm, flood or severe weather warnings present for their area.

## AREAS OF FLOOD RISK



Flood Modelling completed by Melbourne Water & Cardno, Jan 2010. Map Produced by VicSES June 2017

### MORNINGTON PENINSULA 1% AEP (100yr ARI) Flooding Areas of flood risk around Hastings

- 1% AEP Riverine Flood Extent
- 1% AEP Storm Surge Flood Extent
- Park / Reserve
- Melbourne Water Retarding Basin
- River / Creek / Channel
- Melbourne Water Stormwater Drain
- Area Boundary for this Appendix
- C Community Centre
- S School / College
- P Police Station
- F CFA Fire Station
- A Ambulance Station
- M Municipal Offices
- RV Caravan Park



This map publication is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.

Figure C3 – Areas of flood risk around Hastings and Tyabb

## PROPERTIES AT FLOOD RISK

Properties listed in the table below are at risk from flooding over-floor around Hastings. As more intelligence becomes available, this list may change. This table has been populated based on modelling work as part of the Kings Creek (Melbourne Water and Cardno, Jan 2010) and the Warringine Creek (Melbourne Water, Dec 2013) flood mapping and risk assessment programs.

*This Property Flood Risk Table is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.*

Properties at risk from Flooding Over-Floor around Hastings					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
	✓	✓	14 Autumn Court	Hastings	Local Drainage
		✓	16 Autumn Court	Hastings	Local Drainage
✓	✓	✓	18 Boes Road	Hastings	Kings Creek
	✓	✓	5/1 Bray Street	Hastings	Warringine Creek
✓	✓	✓	1/3 Bray Street	Hastings	Warringine Creek
✓	✓	✓	2/3 Bray Street	Hastings	Warringine Creek
		✓	5A Bray Street	Hastings	Warringine Creek
		✓	5B Bray Street	Hastings	Warringine Creek
		✓	5C Bray Street	Hastings	Warringine Creek
		✓	5D Bray Street	Hastings	Warringine Creek
		✓	5 Bray Street	Hastings	Warringine Creek
✓	✓	✓	1/7 Bray Street	Hastings	Warringine Creek
✓	✓	✓	2/7 Bray Street	Hastings	Warringine Creek
✓	✓	✓	3/7 Bray Street	Hastings	Warringine Creek
✓	✓	✓	1/8 Bray Street	Hastings	Warringine Creek
✓	✓	✓	2/8 Bray Street	Hastings	Warringine Creek
✓	✓	✓	3/8 Bray Street	Hastings	Warringine Creek
✓	✓	✓	8/8 Bray Street	Hastings	Warringine Creek
✓	✓	✓	10/8 Bray Street	Hastings	Warringine Creek
		✓	3 Carinya Court	Hastings	Local Drainage
		✓	4 Carinya Court	Hastings	Local Drainage
		✓	8 Dellwood Court	Hastings	Local Drainage
		✓	38 Edward Street	Hastings	Local Drainage
		✓	3/42 Edward Street	Hastings	Local Drainage
✓	✓	✓	27 Ellery Street	Hastings	Kings Creek
✓	✓	✓	1915 Frankston-Flinders Road	Hastings	Kings Creek
	✓	✓	1929 Frankston-Flinders Road	Hastings	Kings Creek
	✓	✓	1/1935 Frankston-Flinders Road	Hastings	Kings Creek
	✓	✓	2/1935 Frankston-Flinders Road	Hastings	Kings Creek
	✓	✓	1939 Frankston-Flinders Road	Hastings	Kings Creek
	✓	✓	1945 Frankston-Flinders Road	Hastings	Kings Creek
	✓	✓	1947A Frankston-Flinders Road	Hastings	Kings Creek
	✓	✓	1947B Frankston-Flinders Road	Hastings	Kings Creek

Properties at risk from Flooding Over-Floor around Hastings					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
	✓	✓	1947 Frankston-Flinders Road	Hastings	Kings Creek
	✓	✓	1953 Frankston-Flinders Road	Hastings	Kings Creek
	✓	✓	1996 Frankston-Flinders Road	Hastings	Kings Creek
✓	✓	✓	2080 Frankston-Flinders Road	Hastings	Local Drainage
		✓	2090 Frankston-Flinders Road	Hastings	Local Drainage
✓	✓	✓	1/2095 Frankston-Flinders Road	Hastings	Local Drainage
✓	✓	✓	2/2095 Frankston-Flinders Road	Hastings	Local Drainage
✓	✓	✓	3/2095 Frankston-Flinders Road	Hastings	Local Drainage
		✓	2098 Frankston-Flinders Road	Hastings	Local Drainage
		✓	2108 Frankston-Flinders Road	Hastings	Local Drainage
		✓	2125 Frankston-Flinders Road	Hastings	Local Drainage
		✓	1/2125 Frankston-Flinders Road	Hastings	Local Drainage
		✓	4/2135 Frankston-Flinders Road	Hastings	Local Drainage
✓	✓	✓	2173 Frankston-Flinders Road	Hastings	Warringine Creek
	✓	✓	14 Gascoyne Court	Hastings	Kings Creek
	✓	✓	11 Glendale Avenue	Hastings	Local Drainage
		✓	12 Glendale Avenue	Hastings	Local Drainage
	✓	✓	13 Glendale Avenue	Hastings	Local Drainage
		✓	1/14 Glendale Avenue	Hastings	Local Drainage
	✓	✓	15 Glendale Avenue	Hastings	Local Drainage
	✓	✓	21 Glendale Avenue	Hastings	Local Drainage
		✓	11 Greythorn Road	Hastings	Warringine Creek
		✓	64 High Street	Hastings	Local Drainage
		✓	66 High Street	Hastings	Local Drainage
		✓	68 High Street	Hastings	Local Drainage
✓	✓	✓	136 High Street	Hastings	Local Drainage
✓	✓	✓	152 High Street	Hastings	Local Drainage
✓	✓	✓	88 Hodgins Road	Hastings	Kings Creek
		✓	184 Hodgins Road	Hastings	Kings Creek
✓	✓	✓	188 Hodgins Road	Hastings	Kings Creek
		✓	22A Kanowna Street	Hastings	Olivers Creek
		✓	22 Kanowna Street	Hastings	Olivers Creek
✓	✓	✓	3 Lea Court	Hastings	Local Drainage
		✓	4 Lea Court	Hastings	Local Drainage
✓	✓	✓	1/3 Lyall Street	Hastings	Kings Creek
		✓	2/3 Lyall Street	Hastings	Kings Creek
✓	✓	✓	11 Lyall Street	Hastings	Kings Creek
		✓	13B Lyall Street	Hastings	Kings Creek
✓	✓	✓	1 Marine Parade	Hastings	Local Drainage
		✓	3A Marine Parade	Hastings	Kings Creek
		✓	3B Marine Parade	Hastings	Kings Creek
		✓	126 Marine Parade	Hastings	Kings Creek
		✓	155 Marine Parade	Hastings	Kings Creek

Properties at risk from Flooding Over-Floor around Hastings						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
		✓	159 Marine Parade	Hastings	Kings Creek	
		✓	1/244 Marine Parade	Hastings	Olivers Creek	
		✓	2/244 Marine Parade	Hastings	Olivers Creek	
✓	✓	✓	3/244 Marine Parade	Hastings	Olivers Creek	
✓	✓	✓	4/244 Marine Parade	Hastings	Olivers Creek	
✓	✓	✓	249 Marine Parade	Hastings	Olivers Creek	
✓	✓	✓	250 Marine Parade	Hastings	Olivers Creek	
		✓	253 Marine Parade	Hastings	Olivers Creek	
✓	✓	✓	254 Marine Parade	Hastings	Olivers Creek	
✓	✓	✓	257B Marine Parade	Hastings	Olivers Creek	
	✓	✓	259 Marine Parade	Hastings	Olivers Creek	
✓	✓	✓	260 Marine Parade	Hastings	Olivers Creek	
		✓	20 Matthew Circuit	Hastings	Kings Creek	
		✓	3/40 Pinewood Drive	Hastings	Kings Creek	
		✓	1/8 Plymouth Street	Hastings	Local Drainage	
		✓	2/8 Plymouth Street	Hastings	Local Drainage	
		✓	3/8 Plymouth Street	Hastings	Local Drainage	
		✓	4/8 Plymouth Street	Hastings	Local Drainage	
		✓	5/8 Plymouth Street	Hastings	Local Drainage	
✓	✓	✓	12 Plymouth Street	Hastings	Local Drainage	
		✓	6 Quality Court	Hastings	Kings Creek	
		✓	44 Salmon Street	Hastings	Local Drainage	
		✓	82 Salmon Street	Hastings	Local Drainage	
	✓	✓	84 Salmon Street	Hastings	Local Drainage	
		✓	5/4 Simon Street	Hastings	Local Drainage	
		✓	1/6 Simon Street	Hastings	Local Drainage	
		✓	2/6 Simon Street	Hastings	Local Drainage	
		✓	3/6 Simon Street	Hastings	Local Drainage	
		✓	4/6 Simon Street	Hastings	Local Drainage	
		✓	7/6 Simon Street	Hastings	Local Drainage	
		✓	3/2 Skinner Street	Hastings	Local Drainage	
		✓	4/2 Skinner Street	Hastings	Local Drainage	
		✓	5/2 Skinner Street	Hastings	Local Drainage	
		✓	8/2 Skinner Street	Hastings	Local Drainage	
		✓	9/2 Skinner Street	Hastings	Local Drainage	
		✓	10/2 Skinner Street	Hastings	Local Drainage	
		✓	13/2 Skinner Street	Hastings	Local Drainage	
		✓	3/12 Skinner Street	Hastings	Local Drainage	
		✓	1/1 Sovereign Drive	Hastings	Kings Creek	
		✓	2/1 Sovereign Drive	Hastings	Kings Creek	
✓	✓	✓	1/4 Sovereign Drive	Hastings	Kings Creek	
	✓	✓	2/4 Sovereign Drive	Hastings	Kings Creek	
✓	✓	✓	3/4 Sovereign Drive	Hastings	Kings Creek	

Properties at risk from Flooding Over-Floor around Hastings					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
		✓	1/6 Sovereign Drive	Hastings	Kings Creek
		✓	2/6 Sovereign Drive	Hastings	Kings Creek
	✓	✓	14 Sunset Rise	Hastings	Kings Creek
		✓	16 Victor Drive	Hastings	Kings Creek
		✓	6/62 Victoria Street	Hastings	Local Drainage
		✓	9/102 Victoria Street	Hastings	Local Drainage
		✓	1/110 Victoria Street	Hastings	Local Drainage
		✓	2/110 Victoria Street	Hastings	Local Drainage
		✓	3/110 Victoria Street	Hastings	Local Drainage
		✓	4/110 Victoria Street	Hastings	Local Drainage
		✓	5/110 Victoria Street	Hastings	Local Drainage
		✓	6/110 Victoria Street	Hastings	Local Drainage
		✓	7/110 Victoria Street	Hastings	Local Drainage
		✓	8/110 Victoria Street	Hastings	Local Drainage
		✓	9/110 Victoria Street	Hastings	Local Drainage
		✓	10/110 Victoria Street	Hastings	Local Drainage
		✓	11/110 Victoria Street	Hastings	Local Drainage
		✓	12/110 Victoria Street	Hastings	Local Drainage
		✓	13/110 Victoria Street	Hastings	Local Drainage
		✓	3A Wallaroo Place	Hastings	Kings Creek
		✓	3 Wallaroo Place	Hastings	Kings Creek
<b>Totals</b>					
<b>36</b>	<b>57</b>	<b>140</b>			

Table C3.2 – Properties at risk of flooding around Hastings on the Mornington Peninsula

## ISOLATION

No major isolation risks exist for areas around Hastings and Tyabb during a 1% AEP (100yr ARI) event. Some localised short-duration isolation may occur due to flash flooding.

## ESSENTIAL INFRASTRUCTURE

- The Hastings Railway Line is at risk from flooding during a 1% AEP (100yr ARI) event at Frankston-Flinders Road crossing and at Coleman Close, Hastings

During an event, see the Public Transport Victoria's Website for details on delays or alterations to services. <http://ptv.vic.gov.au/live-travel-updates/>

Apart from the roads outlined below, all other essential infrastructure and services areas around Hastings and Tyabb are expected to remain predominantly dry during an intense rainfall event.

## ROAD CLOSURES

The following roads are subject to closure during flooding around Hastings and Tyabb. Check the VicRoads website for more details: [alerts.vicroads.vic.gov.au](https://alerts.vicroads.vic.gov.au)

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**VicRoads Roads affected in a 1% AEP event**

- Coolart Road, Tuerong at Kings Creek crossing
- Frankston-Flinders Road, Hastings at Kings Creek crossing

Table C3.3 – VicRoads Possible Road Closures during a flooding event

**Mornington Peninsula Shire Council Roads affected in a 1% AEP event**

<b>HASTINGS</b>	
• Barcoo Street	• Ladava Court
• Boes Road	• Marine Parade
• Bray Street	• Pound Road
• Curacoa Drive	• Spruce Drive
• Drake Court	• Stalwart Avenue
• Hodgins Road	• Tambar Place
• Junee Court	• <b>TYABB</b>
	Graydens Road

Table C3.4 – Mornington Peninsula Council Possible Road Closures during a flooding event

## FLOOD MITIGATION

### RETARDING BASINS

Melbourne Water Retarding Basin	On Drain/ Waterway	Spillway Crest Level	Full Supply Level	1% AEP Flood Level	Embankment Crest Height	Storage Capacity	ANCOLD Hazard Rating	Houses In Flow Path (sunny day)	Melway Reference
George Avenue	Olivers Creek			23.00 AHD	3.2m 23.6m AHD	213 ML	Significant		148 G10

Table C3.5 – Melbourne Water Retarding Basins around Hastings on the Mornington Peninsula

### LEVEES & PUMPING STATIONS

No formal Pumping Stations or Levees exist around Hastings and Tyabb.

### COMMAND, CONTROL & COORDINATION

VICSES will assume overall control of the response to flood incidents. Other agencies will be requested to support operations as detailed in this Plan. Control and coordination of a flood incident shall be carried out at the lowest effective level and in accordance with the State Emergency Response Plan (EMMV Part 3). During significant events, VICSES will conduct incident management using multi-agency resources.

### FLOOD IMPACTS & REQUIRED ACTIONS

The table below is a breakdown of the number of properties flooded in a 1% AEP (100yr ARI) event. Refer to the following intelligence card/s for Kings Creek & Warrangine Creek for more details.

Land Use Flooded in a 1% AEP Event	Total
Residential	66
Commercial	9
Industrial	59
Public Land	5
Rural	1
<b>Total</b>	<b>140</b>

Table C3.6 – Breakdown of likely land use flooded around Hastings on the Mornington Peninsula during a 1% AEP event

## FLOOD INTELLIGENCE CARD – KINGS CREEK & WARRANGINE CREEK, HASTINGS (UNGAUGED)

Version 3 – July 2017



Note: flood intelligence records are approximations. This is because no two floods at a location, even if they peak at the same height, will have identical impacts. Flood intelligence cards detail the relationship between flood magnitude and flood consequences. More details about flood intelligence and its use can be found in the Australian Emergency Management Manuals flood series.

This Flood Intelligence Card publication is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.

CLOSEST RAIN GAUGE	<b>Moorooduc</b>
LOCATION	<b>Devilbend Reservoir Spillway, Graydens Road, Moorooduc</b>
MELWAY REF:	<b>152 H2</b>

GAUGE NUMBER	<b>586206</b>
GAUGE TYPE	<b>Rain</b>
TELEMETRIC/MANUAL	<b>Telemetric</b>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
10mm in 10 mins; 17mm in 30 mins; 23mm in 1 hour; 29mm in 2 hours; or 43mm in 6 hours;  Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.	20% AEP (5 year ARI)	<b>Properties at Flood Risk (Over-Floor)</b> <b>36 Properties in Total</b> <b>Kings Creek</b> <ul style="list-style-type: none"> <li>• 18 Boes Road, Hastings</li> <li>• 27 Ellery Street, Hastings</li> <li>• 1915 Frankston-Flinders Road, Hastings</li> <li>• 88 &amp; 188 Hodgins Road, Hastings</li> <li>• 1/3 &amp; 11 Lyall Street, Hastings</li> <li>• 1/4 &amp; 3/4 Sovereign Drive, Hastings</li> </ul> <b>Local Drainage</b> <ul style="list-style-type: none"> <li>• 2080, 1/2095, 2/2095 &amp; 3/2095 Frankston-Flinders Road, Hastings</li> <li>• 136 &amp; 152 High Street, Hastings</li> <li>• 3 Lea Court, Hastings</li> <li>• 1 Marine Parade, Hastings</li> <li>• 12 Plymouth Street, Hastings</li> </ul> <b>Oivers Creek</b>	VICSES to respond on a request by request basis  VICSES may provide warnings using EM-COP to Mornington Peninsula Shire and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.  Council and VicRoads (as appropriate) to

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 3/244, 4/244, 249, 250, 254, 257B &amp; 260 Marine Parade, Hastings</li> </ul> <p><b>Warringine Creek</b></p> <ul style="list-style-type: none"> <li>• 1/3, 2/3, Units 1-3/7, Units 1-3/8, 8/8 &amp; 10/8 Bray Street, Hastings</li> <li>• 2173 Frankston-Flinders Road, Hastings</li> </ul> <p><b>Community Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>• Access to Wallaroo Preschool on Wallaroo Place, Hastings likely restricted with flooding along Curacoa Drive</li> <li>• Westerpont Child Care Centre at 249 Marine Parade, Hastings</li> </ul> <p><b>Water Over Road (over 300mm depth)</b></p> <p><b>Kings Creek</b></p> <ul style="list-style-type: none"> <li>• Coolart Road, Tuerong at Kings Creek crossing</li> <li>• Drake Court, Hastings</li> <li>• Boes Road, Hastings at Kings Creek crossing</li> </ul>	<p>provide road closure signage under predetermined arrangements</p>
<p>14mm in 10 mins; 24mm in 30 mins; 30mm in 1 hour; 39mm in 2 hours; or 57mm in 6 hours;</p> <p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>	<p>5% AEP (20 year ARI)</p>	<p><b>Properties at Flood Risk (Over-Floor)</b></p> <p><b>57 Properties in Total</b></p> <p><b>Kings Creek</b></p> <ul style="list-style-type: none"> <li>• 18 Boes Road, Hastings</li> <li>• 27 Ellery Street, Hastings</li> <li>• 1915, 1929, 1/1935, 2/1935, 1939, 1945, 1947A, 1947B, 1947, 1953 &amp; 1996 Frankston-Flinders Road, Hastings</li> <li>• 14 Gascoyne Court, Hastings</li> <li>• 88 &amp; 188 Hodgins Road, Hastings</li> <li>• 1/3 &amp; 11 Lyall Street, Hastings</li> <li>• 1/4, 2/4 &amp; 3/4 Sovereign Drive, Hastings</li> <li>• 14 Sunset Rise, Hastings</li> </ul> <p><b>Local Drainage</b></p> <ul style="list-style-type: none"> <li>• 14 Autumn Court, Hastings</li> <li>• 2080, 1/2095, 2/2095 &amp; 3/2095 Frankston-Flinders Road, Hastings</li> <li>• 11, 13, 15 &amp; 21 Glendale Avenue, Hastings</li> <li>• 136 &amp; 152 High Street, Hastings</li> <li>• 3 Lea Court, Hastings</li> <li>• 1 Marine Parade, Hastings</li> <li>• 12 Plymouth Street, Hastings</li> <li>• 84 Salmon Street, Hastings</li> </ul> <p><b>Olvers Creek</b></p>	<p>VICSES to respond on a request by request basis</p> <p>VICSES may provide warnings using EM-COP to Mornington Peninsula Shire and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.</p> <p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 3/244, 4/244, 249, 250, 254, 257B, 259 &amp; 260 Marine Parade, Hastings</li> </ul> <p><b>Warringine Creek</b></p> <ul style="list-style-type: none"> <li>• 5/1, 1/3, 2/3, Units 1-3/7, Units 1-3/8, 8/8 &amp; 10/8 Bray Street, Hastings</li> <li>• 2173 Frankston-Flinders Road, Hastings</li> </ul> <p><b>Community Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>• Access to Wallaroo Preschool on Wallaroo Place, Hastings likely restricted with flooding along Curacoa Drive</li> <li>• Westport Child Care Centre at 249 Marine Parade, Hastings</li> </ul> <p><b>Water Over Road (over 300mm depth)</b></p> <p><b>Kings Creek</b></p> <ul style="list-style-type: none"> <li>• Coolart Road, Tuerong at Kings Creek crossing</li> <li>• Drake Court, Hastings</li> <li>• Graydens Road, Tyabb at low point between Coolart Road and Boes Road</li> <li>• Boes Road, Hastings at Kings Creek crossing</li> <li>• Spruce Drive, Hastings</li> <li>• Hodgins Road, Hastings between Boes Road and Frankston-Flinders Road</li> <li>• Curacoa Drive, Hastings</li> <li>• Frankston-Flinders Road, Hastings at Kings Creek crossing</li> <li>• Marine Parade, Hastings at Kings Creek crossing</li> </ul> <p><b>Warringine Creek Drain</b></p> <ul style="list-style-type: none"> <li>• Bray Street, Hastings</li> </ul>	
<p>21mm in 10 mins; 33mm in 30 mins; 42mm in 1 hour; 53mm in 2 hours; or 77mm in 6 hours;</p> <p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>	<p>1% AEP (100 year ARI)</p>	<p><b>Properties at Flood Risk (Over-Floor)</b></p> <p><b>140 Properties in Total</b></p> <p><b>Kings Creek</b></p> <ul style="list-style-type: none"> <li>• 18 Boes Road, Hastings</li> <li>• 27 Ellery Street, Hastings</li> <li>• 1915, 1929, 1/1935, 2/1935, 1939, 1945, 1947A, 1947B, 1947, 1953 &amp; 1996 Frankston-Flinders Road, Hastings</li> <li>• 14 Gascoyne Court, Hastings</li> <li>• 88, 184 &amp; 188 Hodgins Road, Hastings</li> <li>• 1/3, 2/3, 11 &amp; 13B Lyall Street, Hastings</li> <li>• 3A, 3B, 126, 155 &amp; 159 Marine Parade, Hastings</li> <li>• 20 Matthew Circuit, Hastings</li> <li>• 3/40 Pinewood Drive, Hastings</li> <li>• 6 Quality Court, Hastings</li> <li>• 1/1, 2/1, 1/4, 2/4, 3/4, 1/6 &amp; 2/6 Sovereign Drive, Hastings</li> </ul>	<p>VICSES to respond on a request by request basis</p> <p>VICSES may provide warnings using EM-COP to Mornington Peninsula Shire and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 14 Sunset Rise, Hastings</li> <li>• 16 Victor Drive, Hastings</li> <li>• 3A &amp; 3 Wallaroo Place, Hastings</li> <li><b>Local Drainage</b></li> <li>• 14 &amp; 16 Autumn Court, Hastings</li> <li>• 3 &amp; 4 Carinya Court, Hastings</li> <li>• 8 Dellwood Court, Hastings</li> <li>• 38 &amp; 3/42 Edward Street, Hastings</li> <li>• 2080, 2090, 1/2095, 2/2095, 3/2095, 2098, 2108, 2125, 1/2125 &amp; 4/2135 Frankston-Flinders Road, Hastings</li> <li>• 11, 12, 13, 1/14, 15 &amp; 21 Glendale Avenue, Hastings</li> <li>• 64, 66, 68, 136 &amp; 152 High Street, Hastings</li> <li>• 3 &amp; 4 Lea Court, Hastings</li> <li>• 1 Marine Parade, Hastings</li> <li>• 1/8, 2/8, 3/8, 4/8, 5/8 &amp; 12 Plymouth Street, Hastings</li> <li>• 44, 82 &amp; 84 Salmon Street, Hastings</li> <li>• 5/4, 1/6, 2/6, 3/6, 4/6 &amp; 7/6 Simon Street, Hastings</li> <li>• 3/2, 4/2, 5/2, 8/2, 9/2, 10/2, 13/2 &amp; 3/12 Skinner Street, Hastings</li> <li>• 6/62, 9/102, Units 1-13/110 Victoria Street, Hastings</li> <li><b>Olvers Creek</b></li> <li>• 22A &amp; 22 Kanowna Street, Hastings</li> <li>• 1/244, 2/244, 3/244, 4/244, 249, 250, 253, 254,257B, 259 &amp; 260 Marine Parade, Hastings</li> <li><b>Warringine Creek</b></li> <li>• 5/1, 1/3, 2/3, 5A, 5B, 5C, 5D, 5, Units 1-3/7, Units 1-3/8, 8/8 &amp; 10/8 Bray Street, Hastings</li> <li>• 2173 Frankston-Flinders Road, Hastings</li> <li>• 11 Greythorn Road, Hastings</li> <li><b>Community Infrastructure Flooded</b></li> <li>• Access to Wallaroo Preschool on Wallaroo Place, Hastings likely restricted with flooding along Curacoa Drive</li> <li>• Westernport Child Care Centre at 249 Marine Parade, Hastings</li> <li><b>Water Over Road (over 300mm depth)</b></li> <li><b>Kings Creek</b></li> <li>• Coolart Road, Tuerong at Kings Creek crossing</li> <li>• Drake Court, Hastings</li> </ul>	<p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• Graydens Road, Tyabb at low point between Coolart Road and Boes Road</li> <li>• Boes Road, Hastings at Kings Creek crossing</li> <li>• Junee Court, Hastings</li> <li>• Barcoo Street, Hastings</li> <li>• Ladava Court, Hastings</li> <li>• Spruce Drive, Hastings</li> <li>• Hodgins Road, Hastings between Boes Road and Frankston-Flinders Road</li> <li>• Tambar Place, Hastings</li> <li>• Curacoa Drive, Hastings</li> <li>• Frankston-Flinders Road, Hastings at Kings Creek crossing</li> <li>• Marine Parade, Hastings at Kings Creek crossing</li> <li><b>Warrangine Creek Drain</b></li> <li>• Bray Street, Hastings</li> <li>• Pound Road, Hastings</li> </ul>	

Table C3.7 – Breakdown of possible consequences at various rainfall intensities around Hastings with operational considerations

# APPENDIX C4 – DROMANA & SAFETY BEACH FLOOD EMERGENCY PLAN

## OVERVIEW OF FLOODING CONSEQUENCES

Dunns Creek and Sheepwash Creek are two open waterways flowing from Arthurs Seat down to discharge into Port Phillip Bay at Safety Beach, passing through Dromana.

Safety Beach is located on flat terrain and when either Creek bursts its banks, floodwaters are likely to spread out across local roadways and properties. Being by the coast, Safety Beach and Dromana are susceptible to Port Phillip Bay tide levels with these possibly impacting on flood levels from Sheepwash Creek and Dunns Creek. Storm Surge levels from Port Phillip Bay are likely to see heights increase within Martha Cove but stay within the channel.

Nepean Highway is at risk of flooding at multiple points as it crosses Dunns Creek, Sheepwash Creek & Bald Hill Creek. Other infrastructure at risk is an Aged Care Facility and Retirement Village on Country Club Drive, Don Bosco School Camp on Dromana Parade and also a number of Caravan Parks along Dromana Parade.

## WARNING TIMES

Whilst there are hydrographic/telemetry stations (river gauges) within the municipality, Melbourne Water does not provide any flood warning service at this point, due to the generally short warning times available.

Hydrographic Monitoring Station	Station No.	Location	Stream Level & Flow Gauge	Rain Gauge	Melway Reference
Cerberus AWS (BoM)	86361	HMAS Cerberus Stream Level & Flow Gauge		✓	194 F3
Moorooduc	586206	West bank of Devilbend Creek, Moorooduc 100m d/s of Devilbend Reservoir Dam Wall Rain Gauge Melway Reference		✓	152 H2

Table C4.1 – Hydrographic Monitoring Stations closest to Dromana & Safety Beach Arthurs Seat

These Gauges may provide some warning of expected flooding. See the Melbourne Water website <http://www.melbournewater.com.au/waterdata/rainfallandriverleveldata/Pages/Rainfall-and-river-level-new.aspx>. It is advised that residents monitor the Bureau of Meteorology's website <http://www.bom.gov.au/> and the VicEmergency website <http://www.emergency.vic.gov.au/> for any thunderstorm, flood or severe weather warnings present for their area.

Cerberus AWS (BoM)	86361		✓	194 F3
Moorooduc	586206	West bank of Devilbend Creek, Moorooduc 100m d/s of Devilbend Reservoir Dam Wall	✓	152 H2
Mornington Tide Recorder	228397A			

# AREAS OF FLOOD RISK



Flood Modelling completed by Melbourne Water & Cardno, Feb 2009. Map Produced by VICSES, June 2017

## MORNINGTON PENINSULA 1% AEP (100yr ARI) Flooding Areas of flood risk around Safety Beach & Dromana

- 1% AEP Riverine Flood Extent
- 1% AEP Storm Surge Flood Extent
- Park / Reserve
- Melbourne Water Retarding Basin
- Waterbody
- Levee / Embankment
- Area Boundary for this Appendix
- River / Creek / Channel
- Melbourne Water Stormwater Drain
- S School / College
- F CFA Fire Station
- D Municipal Depot
- C Caravan Park



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Figure C4 – Areas of flood risk around Dromana & Safety Beach

## PROPERTIES AT FLOOD RISK

Properties listed in the table below are at risk from flooding over-floor around Dromana & Safety Beach. As more intelligence becomes available, this list may change. This table has been populated based on modelling work as part of the Dunns & Sheepwash Creek (Melbourne Water and Cardno, Feb 2009) flood mapping and risk assessment programs.

*This Property Flood Risk Table is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.*

Properties at risk from Flooding Over-Floor around Safety Beach & Dromana					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
		✓	1 Balmoral Avenue	Safety Beach	Sheepwash Lower
		✓	2 Balmoral Avenue	Safety Beach	Sheepwash Lower
		✓	25 Balmoral Avenue	Safety Beach	Sheepwash Lower
	✓	✓	27A Balmoral Avenue	Safety Beach	Sheepwash Lower
		✓	35 Balmoral Avenue	Safety Beach	Sheepwash Lower
		✓	2/10 Brasser Avenue	Dromana	Sheepwash Upper
	✓	✓	3 Brian Street	Safety Beach	Dunns Lower
	✓	✓	4 Brian Street	Safety Beach	Dunns Lower
	✓	✓	8 Brian Street	Safety Beach	Dunns Lower
	✓	✓	17 Brian Street	Safety Beach	Dunns Lower
	✓	✓	18 Brian Street	Safety Beach	Dunns Lower
	✓	✓	19 Brian Street	Safety Beach	Dunns Lower
	✓	✓	22 Brian Street	Safety Beach	Dunns Lower
	✓	✓	23 Brian Street	Safety Beach	Dunns Lower
	✓	✓	24 Brian Street	Safety Beach	Dunns Lower
✓	✓	✓	25 Brian Street	Safety Beach	Dunns Lower
		✓	45A Brian Street	Safety Beach	Tonkin Street Drain
	✓	✓	2 Clyde Road	Safety Beach	Sheepwash Lower
		✓	4 Clyde Road	Safety Beach	Sheepwash Lower
	✓	✓	5 Clyde Road	Safety Beach	Sheepwash Lower
	✓	✓	14 Clyde Road	Safety Beach	Sheepwash Lower
		✓	17 Clyde Road	Safety Beach	Dunns Lower
	✓	✓	18 Clyde Road	Safety Beach	Sheepwash Lower
		✓	28 Clyde Road	Safety Beach	Dunns Lower
		✓	15 Country Club Drive	Safety Beach	Dunns Lower
		✓	20 Country Club Drive	Safety Beach	Dunns Lower
		✓	21 Country Club Drive	Safety Beach	Dunns Lower
		✓	23 Country Club Drive	Safety Beach	Dunns Lower
		✓	25 Country Club Drive	Safety Beach	Dunns Lower
		✓	27 Country Club Drive	Safety Beach	Dunns Lower
		✓	92A Country Club Drive	Safety Beach	Sheepwash Lower
		✓	92 Country Club Drive	Safety Beach	Sheepwash Lower

**Properties at risk from Flooding Over-Floor around Safety Beach & Dromana**

Properties at risk from Flooding Over-Floor around Safety Beach & Dromana					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
		✓	94 Country Club Drive	Safety Beach	Sheepwash Lower
	✓	✓	97A Country Club Drive	Safety Beach	Sheepwash Lower
		✓	104 Country Club Drive	Safety Beach	Sheepwash Lower
	✓	✓	7/104 Country Club Drive	Safety Beach	Sheepwash Lower
	✓	✓	8/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	11/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	12/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	13/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	14/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	15/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	16/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	17/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	18/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	19/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	20/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	21/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	22/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	50/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	51/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	52/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	53/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	54/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	55/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	56/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	57/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	61/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	62/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	63/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	64/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	66/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	67/104 Country Club Drive	Safety Beach	Sheepwash Lower
		✓	1 Coutts Street	Safety Beach	Tonkin Street Drain
		✓	3 Coutts Street	Safety Beach	Tonkin Street Drain
		✓	4 Coutts Street	Safety Beach	Tonkin Street Drain
		✓	8 Dale Avenue	Safety Beach	Dunns Lower
		✓	14 Dale Avenue	Safety Beach	Dunns Lower
		✓	16 Dale Avenue	Safety Beach	Dunns Lower
		✓	40 Dromana Parade	Safety Beach	Sheepwash Lower
	✓	✓	42 Dromana Parade	Safety Beach	Sheepwash Lower
	✓	✓	44 Dromana Parade	Safety Beach	Sheepwash Lower
	✓	✓	46 Dromana Parade	Safety Beach	Sheepwash Lower

**Properties at risk from Flooding Over-Floor around Safety Beach & Dromana**

Properties at risk from Flooding Over-Floor around Safety Beach & Dromana					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
		✓	49 Dromana Parade	Safety Beach	Sheepwash Lower
		✓	52 Dromana Parade	Safety Beach	Sheepwash Lower
		✓	57 Dromana Parade	Safety Beach	Sheepwash Lower
	✓	✓	59 Dromana Parade	Safety Beach	Sheepwash Lower
	✓	✓	1/65 Dromana Parade	Safety Beach	Sheepwash Lower
		✓	2/65 Dromana Parade	Safety Beach	Sheepwash Lower
		✓	3/65 Dromana Parade	Safety Beach	Sheepwash Lower
		✓	4/65 Dromana Parade	Safety Beach	Sheepwash Lower
		✓	5/65 Dromana Parade	Safety Beach	Sheepwash Lower
		✓	6/65 Dromana Parade	Safety Beach	Sheepwash Lower
	✓	✓	70 Dromana Parade	Safety Beach	Sheepwash Lower
		✓	76 Dromana Parade	Safety Beach	Dunns Lower
		✓	79 Dromana Parade	Safety Beach	Sheepwash Lower
	✓	✓	84 Dromana Parade	Safety Beach	Dunns Lower
		✓	1/85 Dromana Parade	Safety Beach	Sheepwash Lower
		✓	2/85 Dromana Parade	Safety Beach	Sheepwash Lower
	✓	✓	3/85 Dromana Parade	Safety Beach	Sheepwash Lower
		✓	4/85 Dromana Parade	Safety Beach	Sheepwash Lower
		✓	87A Dromana Parade	Safety Beach	Sheepwash Lower
	✓	✓	96 Dromana Parade	Safety Beach	Dunns Lower
✓	✓	✓	98 Dromana Parade	Safety Beach	Dunns Lower
	✓	✓	99 Dromana Parade	Safety Beach	Sheepwash Lower
	✓	✓	100 Dromana Parade	Safety Beach	Dunns Lower
	✓	✓	102 Dromana Parade	Safety Beach	Dunns Lower
	✓	✓	103 Dromana Parade	Safety Beach	Sheepwash Lower
	✓	✓	104 Dromana Parade	Safety Beach	Dunns Lower
	✓	✓	105 Dromana Parade	Safety Beach	Sheepwash Lower
	✓	✓	107 Dromana Parade	Safety Beach	Sheepwash Lower
		✓	129 Dromana Parade	Safety Beach	Dunns Lower
✓	✓	✓	141-147 Dromana Parade	Safety Beach	Dunns Lower
		✓	160 Dromana Parade	Safety Beach	Tonkin Street Drain
		✓	1/213 Dromana Parade	Safety Beach	Tonkin Street Drain
		✓	3/241 Dromana Parade	Safety Beach	Tonkin Street Drain
		✓	1 Frank Street	Safety Beach	Sheepwash Lower
	✓	✓	3 Frank Street	Safety Beach	Sheepwash Lower
	✓	✓	4 Golf Course Circle	Safety Beach	Dunns Lower
		✓	6 Golf Course Circle	Safety Beach	Dunns Lower
	✓	✓	8 Golf Course Circle	Safety Beach	Dunns Lower
✓	✓	✓	10 Golf Course Circle	Safety Beach	Dunns Lower
✓	✓	✓	12 Golf Course Circle	Safety Beach	Dunns Lower
		✓	16 Golf Course Circle	Safety Beach	Dunns Lower

**Properties at risk from Flooding Over-Floor around Safety Beach & Dromana**

Properties at risk from Flooding Over-Floor around Safety Beach & Dromana					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
	✓	✓	18 Golf Course Circle	Safety Beach	Dunns Lower
✓	✓	✓	20 Golf Course Circle	Safety Beach	Dunns Lower
	✓	✓	22 Golf Course Circle	Safety Beach	Dunns Lower
	✓	✓	24 Golf Course Circle	Safety Beach	Dunns Lower
	✓	✓	26 Golf Course Circle	Safety Beach	Dunns Lower
		✓	30 Golf Course Lane	Safety Beach	Dunns Lower
	✓	✓	34 Golf Course Lane	Safety Beach	Dunns Lower
	✓	✓	36 Golf Course Lane	Safety Beach	Dunns Lower
	✓	✓	38 Golf Course Lane	Safety Beach	Dunns Lower
	✓	✓	40 Golf Course Lane	Safety Beach	Dunns Lower
	✓	✓	42 Golf Course Lane	Safety Beach	Dunns Lower
	✓	✓	46 Golf Course Lane	Safety Beach	Dunns Lower
	✓	✓	48 Golf Course Lane	Safety Beach	Dunns Lower
	✓	✓	50 Golf Course Lane	Safety Beach	Dunns Lower
		✓	54 Golf Course Lane	Safety Beach	Dunns Lower
		✓	58 Golf Course Lane	Safety Beach	Dunns Lower
		✓	1 Lake View Drive	Safety Beach	Dunns Lower
		✓	2 Lake View Lane	Safety Beach	Dunns Lower
		✓	4 Lake View Lane	Safety Beach	Dunns Lower
		✓	5 Lake View Drive	Safety Beach	Dunns Lower
		✓	7 Lake View Drive	Safety Beach	Dunns Lower
	✓	✓	8 Lake View Drive	Safety Beach	Dunns Lower
		✓	10 Lake View Drive	Safety Beach	Dunns Lower
	✓	✓	11 Lake View Drive	Safety Beach	Dunns Lower
	✓	✓	12 Lake View Drive	Safety Beach	Dunns Lower
	✓	✓	13 Lake View Drive	Safety Beach	Dunns Lower
		✓	14 Lake View Lane	Safety Beach	Dunns Lower
	✓	✓	14 Lake View Drive	Safety Beach	Dunns Lower
	✓	✓	15 Lake View Drive	Safety Beach	Dunns Lower
	✓	✓	16 Lake View Drive	Safety Beach	Dunns Lower
	✓	✓	18 Lake View Drive	Safety Beach	Dunns Lower
		✓	19 Lake View Drive	Safety Beach	Dunns Lower
		✓	20 Lake View Drive	Safety Beach	Dunns Lower
		✓	22 Lake View Drive	Safety Beach	Dunns Lower
		✓	25 Lake View Drive	Safety Beach	Dunns Lower
		✓	27 Lake View Drive	Safety Beach	Dunns Lower
		✓	31 Lake View Drive	Safety Beach	Dunns Lower
		✓	37-38 Marine Drive	Safety Beach	Sheepwash Lower
		✓	40 Marine Drive	Safety Beach	Sheepwash Lower
		✓	43 Marine Drive	Safety Beach	Sheepwash Lower
✓	✓	✓	44 Marine Drive	Safety Beach	Sheepwash Lower

**Properties at risk from Flooding Over-Floor around Safety Beach & Dromana**

Properties at risk from Flooding Over-Floor around Safety Beach & Dromana					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
		✓	45 Marine Drive	Safety Beach	Sheepwash Lower
		✓	46 Marine Drive	Safety Beach	Sheepwash Lower
	✓	✓	56 Marine Drive	Safety Beach	Sheepwash Lower
	✓	✓	74 Marine Drive	Safety Beach	Dunns Lower
		✓	75 Marine Drive	Safety Beach	Dunns Lower
	✓	✓	78 Marine Drive	Safety Beach	Dunns Lower
✓	✓	✓	79A Marine Drive	Safety Beach	Dunns Lower
		✓	107 Marine Drive	Safety Beach	Tonkin Street Drain
		✓	157 Marine Drive	Safety Beach	Tonkin Street Drain
✓	✓	✓	1A Mason Avenue	Safety Beach	Sheepwash Lower
		✓	4 Morgan Court	Safety Beach	Dunns Lower
	✓	✓	8 Morgan Court	Safety Beach	Dunns Lower
		✓	118 Nepean Highway	Dromana	Sheepwash Lower
		✓	1A Pickings Road	Safety Beach	Tonkin Street Drain
		✓	2 Pickings Road	Safety Beach	Tonkin Street Drain
		✓	9 Prescott Avenue	Safety Beach	Dunns Lower
	✓	✓	10 Prescott Avenue	Safety Beach	Dunns Lower
		✓	12 Prescott Avenue	Safety Beach	Dunns Lower
✓	✓	✓	15 Prescott Avenue	Safety Beach	Dunns Lower
		✓	16 Prescott Avenue	Safety Beach	Dunns Lower
		✓	18 Prescott Avenue	Safety Beach	Dunns Lower
	✓	✓	19 Prescott Avenue	Safety Beach	Dunns Lower
	✓	✓	20 Prescott Avenue	Safety Beach	Dunns Lower
	✓	✓	23 Prescott Avenue	Safety Beach	Dunns Lower
		✓	24 Prescott Avenue	Safety Beach	Dunns Lower
	✓	✓	25 Prescott Avenue	Safety Beach	Dunns Lower
		✓	26 Prescott Avenue	Safety Beach	Dunns Lower
	✓	✓	1/29 Prescott Avenue	Safety Beach	Dunns Lower
	✓	✓	2/29 Prescott Avenue	Safety Beach	Dunns Lower
	✓	✓	31 Prescott Avenue	Safety Beach	Dunns Lower
		✓	37 Prescott Avenue	Safety Beach	Dunns Lower
		✓	22 Tassel Road	Safety Beach	Dunns Lower
		✓	26 Tassel Road	Safety Beach	Dunns Lower
		✓	46 Tassel Road	Safety Beach	Dunns Lower
		✓	48 Tassel Road	Safety Beach	Dunns Lower
		✓	11 Victoria Crescent	Safety Beach	Sheepwash Lower
		✓	13 Victoria Crescent	Safety Beach	Sheepwash Lower
		✓	21 Victoria Crescent	Safety Beach	Sheepwash Lower
		✓	27 Victoria Crescent	Safety Beach	Sheepwash Lower
		✓	30 Victoria Crescent	Safety Beach	Sheepwash Lower
	✓	✓	1 Woodlands Grove	Safety Beach	Sheepwash Lower

Properties at risk from Flooding Over-Floor around Safety Beach & Dromana					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
✓	✓	✓	2 Woodlands Grove	Safety Beach	Sheepwash Lower
		✓	3 Woodlands Grove	Safety Beach	Sheepwash Lower
	✓	✓	5 Woodlands Grove	Safety Beach	Sheepwash Lower
✓	✓	✓	9 Woodlands Grove	Safety Beach	Sheepwash Lower
		✓	10 Woodlands Grove	Safety Beach	Sheepwash Lower
Totals					
12	82	201			

Table C4.2 – Properties at risk of flooding around Safety Beach & Dromana in Mornington Peninsula

## ISOLATION

No major isolation risks exist for areas around Dromana & Safety Beach during a 1% AEP (100yr ARI) event. Some localised short-duration isolation may occur due to flash flooding.

## ESSENTIAL INFRASTRUCTURE

During an event, see the Public Transport Victoria's Website for details on delays or alterations to services. <http://ptv.vic.gov.au/live-travel-updates/>

Apart from the roads outlined below, all other essential infrastructure and services areas around Dromana & Safety Beach are expected to remain predominantly dry during an intense rainfall event.

## ROAD CLOSURES

The following roads are subject to closure during flooding around Dromana & Safety Beach. Check the VicRoads website for more details: [alerts.vicroads.vic.gov.au](https://alerts.vicroads.vic.gov.au)

VicRoads Roads affected in a 1% AEP event	
•	Nepean Highway, Dromana to the north of Dunns Creek crossing
•	Nepean Highway, Dromana near Bald Hill Creek crossing
•	Nepean Highway, Dromana between Point Nepean Road and Mornington Peninsula Freeway underpass
•	Marine Drive, Safety Beach between Sheepwash Creek and Dunns Creek

Table C4.3 – VicRoads Possible Road Closures during a flooding event

Mornington Peninsula Council Roads affected in a 1% AEP event	
<b>DROMANA</b>	• Dale Avenue
• Boundary Road	• Dromana Parade
• Charles Street	• Frank Street
• Collins Road	• Golf Course Lane
<b>SAFETY BEACH</b>	• Lake View Drive
• Brian Street	• Mason Avenue
• Clyde Road	• Morgan Court
• Country Club Drive	• Prescott Avenue
• Course Circle	• Tassel Road
• Coutts Street	

Table C4.4 – Mornington Peninsula Council Possible Road Closures during a flooding event

## FLOOD MITIGATION

### RETARDING BASINS

Melbourne Water Retarding Basin	On Drain/ Waterway	Spillway Crest Level	Full Supply Level	Embankment Crest Height	Storage Capacity	ANCOLD Hazard Rating	Houses In Flow Path (dam breach)	Melway Reference
Brasser Ave	Boundary Creek	Unavailable	14 AHD	0.5-1.0m 14 AHD	Unavailable	High C	Unavailable	160 C7

Table C4.5 – Melbourne Water Retarding Basins around Safety Beach & Dromana in the Mornington Peninsula

No formal Pumping Stations or Levees exist around Dromana & Safety Beach.

## COMMAND, CONTROL & COORDINATION

VICSES will assume overall control of the response to flood incidents. Other agencies will be requested to support operations as detailed in this Plan. Control and coordination of a flood incident shall be carried out at the lowest effective level and in accordance with the State Emergency Response Plan (EMMV Part 3). During significant events, VICSES will conduct incident management using multi-agency resources.

## FLOOD IMPACTS & REQUIRED ACTIONS

The table below is a breakdown of the number of properties flooded in a 1% AEP (100yr ARI) event. Refer to the following intelligence card/s for Dromana & Safety Beach for more details.

Land Use Flooded in a 1% AEP Event	Total
Residential	145
Commercial	53
Industrial	2
Public Land	1
Rural	0
<b>Total</b>	<b>201</b>

Table C4.5 – Breakdown of likely land use flooded in the Around Safety Beach & Dromana during a 1% AEP event

## FLOOD INTELLIGENCE CARD – DUNNS CREEK & SHEEPWASH CREEK, SAFETY BEACH (UNGAUGED)

Version 3 – July 2017



Note: flood intelligence records are approximations. This is because no two floods at a location, even if they peak at the same height, will have identical impacts. Flood intelligence cards detail the relationship between flood magnitude and flood consequences. More details about flood intelligence and its use can be found in the Australian Emergency Management Manuals flood series.

This Flood Intelligence Card publication is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.

CLOSEST RAIN GAUGE	<b>Moorooduc</b>
LOCATION	<b>Devilbend Reservoir Spillway, Graydens Road, Moorooduc</b>
MELWAY REF:	<b>152 H2</b>

GAUGE NUMBER	<b>586206</b>
GAUGE TYPE	<b>Rain</b>
TELEMETRIC/MANUAL	<b>Telemetric</b>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Operational Consideration
10mm in 10 mins; 17mm in 30 mins; 23mm in 1 hour; 29mm in 2 hours; or 43mm in 6 hours;  Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.	20% AEP (5 year ARI)	<b>Properties at Flood Risk (Over-Floor)</b> <b>12 Properties in Total</b> <b>Dunns Creek (Lower)</b> <ul style="list-style-type: none"> <li>25 Brian Street, Safety Beach</li> <li>98 &amp; 141-147 Dromana Parade, Safety Beach</li> <li>10, 12 &amp; 20 Golf Course Circle, Safety Beach</li> <li>79A Marine Drive, Safety Beach</li> <li>15 Prescott Avenue, Safety Beach</li> </ul> <b>Sheepwash Creek (Lower)</b> <ul style="list-style-type: none"> <li>44 Marine Drive, Safety Beach</li> <li>1A Mason Avenue, Safety Beach</li> <li>2 &amp; 9 Woodlands Grove, Safety Beach</li> </ul> <b>Community Infrastructure Flooded</b> <ul style="list-style-type: none"> <li>Don Bosco School Camp on Dromana Parade, Safety Beach</li> <li>Miami Caravan Park on Dromana Parade, Safety Beach</li> </ul> <b>Water Over Road (over 300mm depth)</b> <b>Dunns Creek</b>	VICSES to respond on a request by request basis  VICSES may provide warnings using EM-COP to Mornington Peninsula Shire and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.  Council and VicRoads (as appropriate) to

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Operational Consideration
		<ul style="list-style-type: none"> <li>• Clyde Road, Safety Beach</li> <li>• Brian Street, Safety Beach</li> <li>• Prescott Avenue, Safety Beach</li> <li>• Dromana Parade, Safety Beach at Dunns Creek crossing</li> </ul> <p><b>Sheepwash Creek</b></p> <ul style="list-style-type: none"> <li>• Boundary Road, Dromana at Eatons Cutting Road</li> </ul>	provide road closure signage under predetermined arrangements
<p>14mm in 10 mins; 24mm in 30 mins; 30mm in 1 hour; 39mm in 2 hours; 57mm in 6 hours; or 72mm in 12 hours</p> <p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>	5% AEP (20 year ARI)	<p><b>Properties at Flood Risk (Over-Floor)</b></p> <p><b>82 Properties in Total</b></p> <p><b>Dunns Creek (Lower)</b></p> <ul style="list-style-type: none"> <li>• 3, 4, 8, 17, 18, 19, 22, 23,24 &amp; 25 Brian Street, Safety Beach</li> <li>• 84, 96, 98, 100, 102, 104 &amp; 141-147 Dromana Parade, Safety Beach</li> <li>• 4, 8, 10, 12, 18, 20, 22, 24,26, 34, 36, 38, 40, 42, 46, 48 &amp; 50 Golf Course Circle, Safety Beach</li> <li>• 8, 11, 12, 13, 14, 15, 16 &amp; 18 Lake View Drive, Safety Beach</li> <li>• 74, 78 &amp; 79A Marine Drive, Safety Beach</li> <li>• 8 Morgan Court, Safety Beach</li> <li>• 10, 15, 19, 20, 23, 25, 1/29, 2/29 &amp; 31 Prescott Avenue, Safety Beach</li> </ul> <p><b>Sheepwash Creek (Lower)</b></p> <ul style="list-style-type: none"> <li>• 27A Balmoral Avenue, Safety Beach</li> <li>• 2, 5, 14 &amp; 18 Clyde Road, Safety Beach</li> <li>• 97A, 7/104 &amp; 8/104 Country Club Drive, Safety Beach</li> <li>• 42, 44, 46, 59, 1/65, 70, 3/85, 99, 103, 105 &amp; 107 Dromana Parade, Safety Beach</li> <li>• 3 Frank Street, Safety Beach</li> <li>• 44 &amp; 56 Marine Drive, Safety Beach</li> <li>• 1A Mason Avenue, Safety Beach</li> <li>• 1, 2, 5 &amp; 9 Woodlands Grove, Safety Beach</li> </ul> <p><b>Community Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>• Safety Beach Country Club on Country Club Drive, Safety Beach flooded in parts</li> <li>• Don Bosco School Camp on Dromana Parade, Safety Beach</li> <li>• Miami Caravan Park on Dromana Parade, Safety Beach</li> </ul> <p><b>Water Over Road (over 300mm depth)</b></p> <p><b>Dunns Creek</b></p> <ul style="list-style-type: none"> <li>• Nepean Highway, Dromana to the north of Dunns Creek crossing</li> <li>• Course Circle, Safety Beach</li> </ul>	<p>VICSES to respond on a request by request basis</p> <p>VICSES may provide warnings using EM-COP to Mornington Peninsula Shire and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.</p> <p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Operational Consideration
		<ul style="list-style-type: none"> <li>• Tassel Road, Safety Beach</li> <li>• Golf Course Lane, Safety Beach</li> <li>• Dale Avenue, Safety Beach</li> <li>• Clyde Road, Safety Beach</li> <li>• Brian Street, Safety Beach</li> <li>• Prescott Avenue, Safety Beach</li> <li>• Dromana Parade, Safety Beach</li> <li>• Morgan Court, Safety Beach</li> <li>• Marine Drive, Safety Beach</li> <li><b>Bald Hill Creek</b></li> <li>• Nepean Highway, Dromana near Bald Hill Creek crossing</li> <li><b>Sheepwash Creek</b></li> <li>• Boundary Road, Dromana at Eatons Cutting Road</li> <li>• Collins Road, Dromana</li> <li>• Nepean Highway, Dromana between Point Nepean Road and Mornington Peninsula Freeway underpass</li> <li>• Charles Street, Dromana</li> <li>• Woodlands Grove, Safety Beach</li> <li>• Victoria Crescent, Safety Beach</li> <li>• Dromana Parade, Safety Beach</li> <li>• Balmoral Avenue, Safety Beach</li> </ul>	
<p>21mm in 10 mins; 33mm in 30 mins; 42mm in 1 hour; 53mm in 2 hours; 77mm in 6 hours; or 98mm in 12 hours</p> <p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This</p>	1% AEP (100 year ARI)	<p><b>Properties at Flood Risk (Over-Floor)</b> <b>201 Properties in Total</b> <b>Dunns Creek (Lower)</b></p> <ul style="list-style-type: none"> <li>• 3, 4, 8, 17, 18, 19, 22, 23,24 &amp; 25 Brian Street, Safety Beach</li> <li>• 17 &amp; 28 Clyde Road, Safety Beach</li> <li>• 15, 20, 21, 23, 25 &amp; 27 Country Club Drive, Safety Beach</li> <li>• 8, 14 &amp; 16 Dale Avenue, Safety Beach</li> <li>• 76, 84, 96, 98, 100, 102, 104, 129 &amp; 141-147 Dromana Parade, Safety Beach</li> <li>• 4, 6, 8, 10, 12, 16, 18, 20,22, 24, 26, 30, 34, 36, 38, 40, 42, 46, 48, 50, 54 &amp; 58 Golf Course Circle, Safety Beach</li> <li>• 1, 2, 4, 5, 7, 8, 10, 11,12, 13, 14, 15, 16, 18, 19, 20, 22, 25, 27 &amp; 31 Lake View Drive, Safety Beach</li> <li>• 14 Lake View Lane, Safety Beach</li> <li>• 74, 75, 78 &amp; 79A Marine Drive, Safety Beach</li> </ul>	<p>VICSES to respond on a request by request basis</p> <p>VICSES may provide warnings using EM-COP to Mornington Peninsula Shire and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Operational Consideration
should be used as a guide only.		<ul style="list-style-type: none"> <li>• 4 &amp; 8 Morgan Court, Safety Beach</li> <li>• 9, 10, 12, 15, 16, 18, 19, 20,23, 24, 25, 26, Units 1-2/29, 31 &amp; 37 Prescott Avenue, Safety Beach</li> <li>• 22, 26, 46 &amp; 48 Tassel Road, Safety Beach</li> <li>• <b>Sheepwash Creek (Lower)</b></li> <li>• 1, 2, 25, 27A &amp; 35 Balmoral Avenue, Safety Beach</li> <li>• 2, 4, 5, 14 &amp; 18 Clyde Road, Safety Beach</li> <li>• 92A, 92, 94, 97A, 104, Units 7-8/104, Units 11-22/104, Units 50-57/104, Units 61-64/104 &amp; Units 66-67/104 Country Club Drive, Safety Beach</li> <li>• 40, 42, 44, 46, 49, 52, 57, 59, Units 1-6/65, 70, 79, Units 1-4/85, 87A, 99, 103, 105 &amp; 107 Dromana Parade, Safety Beach</li> <li>• 1 &amp; 3 Frank Street, Safety Beach</li> <li>• 37-38, 40, 43, 44, 45, 46 &amp; 56 Marine Drive, Safety Beach</li> <li>• 1A Mason Avenue, Safety Beach</li> <li>• 118 Nepean Highway, Dromana</li> <li>• 11, 13, 21, 27 &amp; 30 Victoria Crescent, Safety Beach</li> <li>• 1, 2, 3, 5, 9 &amp; 10 Woodlands Grove, Safety Beach</li> <li>• <b>Sheepwash Creek (Upper)</b></li> <li>• 2/10 Brasser Avenue, Dromana</li> <li>• <b>Tonkin Street Drain</b></li> <li>• 45A Brian Street, Safety Beach</li> <li>• 1, 3 &amp; 4 Coutts Street, Safety Beach</li> <li>• 160, 1/213 &amp; 3/241 Dromana Parade, Safety Beach</li> <li>• 107 &amp; 157 Marine Drive, Safety Beach</li> <li>• 1A &amp; 2 Pickings Road, Safety Beach</li> <li>• <b>Community Infrastructure Flooded</b></li> <li>• Safety Beach Country Club on Country Club Drive, Safety Beach flooded in parts</li> <li>• Mt Martha Valley Lodge Hostel (Aged Care) on Country Club Drive, may have access restricted with flooding along road</li> <li>• Village Life – Safety Beach on Country Club Drive, may have access restricted with flooding along road</li> <li>• Don Bosco School Camp on Dromana Parade, Safety Beach</li> <li>• Miami Caravan Park on Dromana Parade, Safety Beach</li> <li>• <b>Water Over Road (over 300mm depth)</b></li> <li>• <b>Dunns Creek</b></li> <li>• Nepean Highway, Dromana to the north of Dunns Creek crossing</li> </ul>	<p>the level of incident.</p> <p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Operational Consideration
		<ul style="list-style-type: none"> <li>• Course Circle, Safety Beach</li> <li>• Lake View Drive, Safety Beach</li> <li>• Tassel Road, Safety Beach</li> <li>• Golf Course Lane, Safety Beach</li> <li>• Coutts Street, Safety Beach</li> <li>• Dale Avenue, Safety Beach</li> <li>• Clyde Road, Safety Beach</li> <li>• Brian Street, Safety Beach</li> <li>• Prescott Avenue, Safety Beach</li> <li>• Dromana Parade, Safety Beach</li> <li>• Morgan Court, Safety Beach</li> <li>• Marine Drive, Safety Beach between Sheepwash Creek and Dunns Creek</li> <li>  <b>Bald Hill Creek</b></li> <li>• Nepean Highway, Dromana near Bald Hill Creek crossing</li> <li>  <b>Sheepwash Creek</b></li> <li>• Boundary Road, Dromana at Eatons Cutting Road</li> <li>• Collins Road, Dromana</li> <li>• Nepean Highway, Dromana between Point Nepean Road and Mornington Peninsula Freeway underpass</li> <li>• Charles Street, Dromana</li> <li>• Country Club Drive, Safety Beach near Nepean Highway</li> <li>• Frank Street, Safety Beach</li> <li>• Mason Avenue, Safety Beach</li> <li>• Woodlands Grove, Safety Beach</li> <li>• Victoria Crescent, Safety Beach</li> <li>• Dromana Parade, Safety Beach</li> <li>• Balmoral Avenue, Safety Beach</li> </ul>	

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## APPENDIX C5 – ROSEBUD & McCRAE FLOOD EMERGENCY PLAN

### OVERVIEW OF FLOODING CONSEQUENCES

Rosebud, Rosebud West, McCrae & Boneo are located approximately 85km South of Melbourne in a primarily rural area with established residential zones toward the coast. Chinamans Creek & Murray Anderson Creek are the prominent watercourses in the area, flowing from the inland hills around Arthurs Seat. High Intensity, short duration rainfall events can cause flash flooding in and around Rosebud, Rosebud West, McCrae & Boneo, while prolonged rainfall may see Chinamans Creek & Murray Anderson Creek flood. The area sees a mixture of moderate and slow water movement as water moves from the foothills of Arthurs Seat to the flatlands around Boneo & Rosebud West. As a result, flooding in the foothills with rise and fall fairly quickly while ponding may occur where the terrain is flat and flooding last for days. See mapping in **Appendix F** for more insight into flooding in the area.

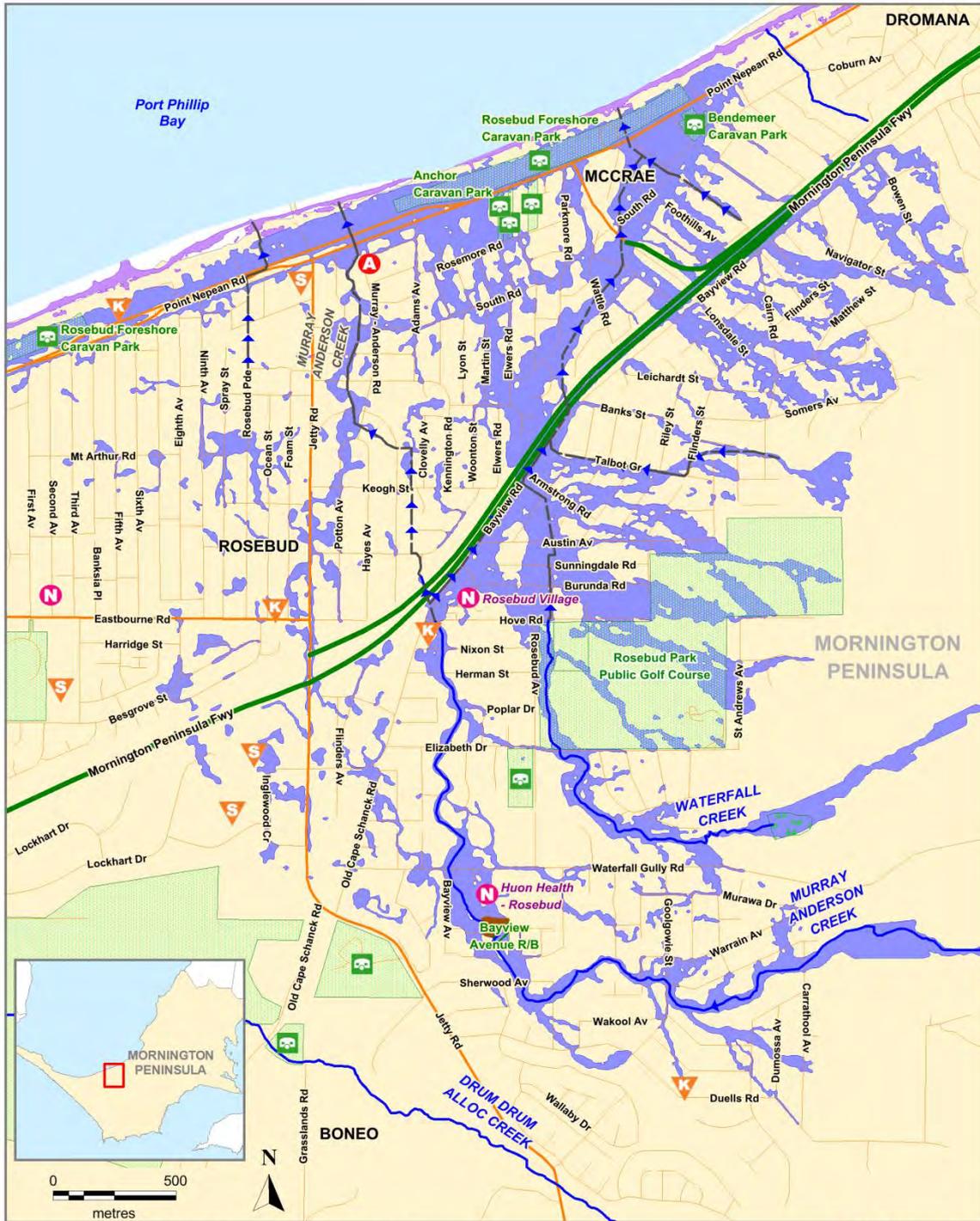
### WARNING TIMES

Whilst there are hydrographic/telemetry stations (river gauges) within the municipality, Melbourne Water does not provide any flood warning service at this point, due to the generally short warning times available.

Hydrographic Monitoring Gauge	Station No.	Owner	Gauge Type	Melway Reference
Arthurs Seat RG (at Seawinds National Park)	586202	Melbourne Water	Rain	159 E12

These Gauges may provide some warning of expected flooding. See the Melbourne Water website for more information on these gauges: [http://www.melbournewater.com.au/content/rivers\\_and\\_creeks/rainfall\\_and\\_river\\_level\\_data/rainfall\\_and\\_river\\_level\\_data.asp](http://www.melbournewater.com.au/content/rivers_and_creeks/rainfall_and_river_level_data/rainfall_and_river_level_data.asp). It is advised that residents monitor the Bureau of Meteorology's website <http://www.bom.gov.au/> and the VicEmergency website <https://emergency.vic.gov.au/> for any thunderstorm, flood or severe weather warnings present for their area.

# AREAS AFFECTED



Please note: Map Compiled June 2014. Flood Extents may not reflect council owned drains or assets.

## MORNINGTON PENINSULA SHIRE 1% AEP (100yr ARI) Flooding

### Areas of flood risk around Murray-Anderson & Waterfall Creeks

- |  |                                  |  |                              |  |                           |
|--|----------------------------------|--|------------------------------|--|---------------------------|
|  | Melbourne Water Stormwater Drain |  | Ambulance                    |  | School / College          |
|  | River / Creek                    |  | 1% AEP Riverine Flood Extent |  | Kindergarten / Child Care |
|  | Embankment                       |  | Area of Interest             |  | Nursing Home / Aged Care  |
|  | Caravan Park                     |  | 1% AEP Storm Surge Extent    |  |                           |
|  | Melbourne Water Retarding Basin  |  |                              |  |                           |



This map publication is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.

Figure C5 – Areas of flood risk in Rosebud and McCrae

## PROPERTIES AT FLOOD RISK

Properties listed in the table below are at risk from flooding over-floor in Rosebud & McCrae. As more intelligence becomes available, this list may change. This table has been populated based on modelling work as part of the Murray-Anderson Creek (Melbourne Water and Cardno, June 2012) flood mapping and risk assessment program.

*This Property Flood Risk Table is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.*

Properties at risk from Flooding Over-Floor in Rosebud & McCrae					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
✓	✓	✓	8 Abbey Lane	Mccrae	Local Drainage
		✓	9 Abbey Lane	Mccrae	Local Drainage
		✓	2/1 Adams Avenue	Rosebud	Direct to Bay
		✓	3/1 Adams Avenue	Rosebud	Direct to Bay
		✓	4/1 Adams Avenue	Rosebud	Direct to Bay
		✓	40 Anne Street	Rosebud	Murray Anderson Creek
		✓	42 Anne Street	Rosebud	Murray Anderson Creek
✓	✓	✓	45 Anne Street	Rosebud	Murray Anderson Creek
✓	✓	✓	21 Armstrong Road	Mccrae	Waterfall Creek
✓	✓	✓	24 Armstrong Road	Mccrae	Waterfall Creek
		✓	25 Armstrong Road	Mccrae	Waterfall Creek
✓	✓	✓	32 Armstrong Road	Mccrae	Waterfall Creek
✓	✓	✓	33 Armstrong Road	Mccrae	Waterfall Creek
	✓	✓	34 Armstrong Road	Mccrae	Waterfall Creek
✓	✓	✓	38 Armstrong Road	Mccrae	Waterfall Creek
✓	✓	✓	39B Armstrong Road	Mccrae	Waterfall Creek
		✓	42 Armstrong Road	Mccrae	Waterfall Creek
✓	✓	✓	45 Armstrong Road	Mccrae	Waterfall Creek
✓	✓	✓	46 Armstrong Road	Mccrae	Waterfall Creek
✓	✓	✓	1/48 Armstrong Road	Mccrae	Waterfall Creek
✓	✓	✓	2/48 Armstrong Road	Mccrae	Waterfall Creek
✓	✓	✓	3/48 Armstrong Road	Mccrae	Waterfall Creek
		✓	49 Armstrong Road	Mccrae	Waterfall Creek
		✓	50 Armstrong Road	Mccrae	Waterfall Creek
	✓	✓	1/57 Armstrong Road	Mccrae	Waterfall Creek
		✓	58A Armstrong Road	Mccrae	Waterfall Creek
		✓	1A Austin Avenue	Mccrae	Waterfall Creek
	✓	✓	1 Austin Avenue	Mccrae	Waterfall Creek
		✓	2 Austin Avenue	Mccrae	Waterfall Creek
✓	✓	✓	9 Austin Avenue	Mccrae	Waterfall Creek
✓	✓	✓	11 Austin Avenue	Mccrae	Waterfall Creek
		✓	12 Austin Avenue	Mccrae	Waterfall Creek
		✓	19 Austin Avenue	Mccrae	Waterfall Creek

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
✓	✓	✓	26 Austin Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	28 Austin Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	32 Austin Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	41 Austin Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	45 Austin Avenue	Mccrae	Waterfall Creek	
		✓	48 Austin Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	49 Austin Avenue	Mccrae	Waterfall Creek	
		✓	53 Austin Avenue	Mccrae	Waterfall Creek	
		✓	55 Austin Avenue	Mccrae	Waterfall Creek	
	✓	✓	57 Austin Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	59 Austin Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	61 Austin Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	63 Austin Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	65 Austin Avenue	Mccrae	Waterfall Creek	
		✓	69 Austin Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	71 Austin Avenue	Mccrae	Waterfall Creek	
	✓	✓	101 Austin Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	103 Austin Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	105 Austin Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	107 Austin Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	111 Austin Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	113 Austin Avenue	Mccrae	Waterfall Creek	
	✓	✓	115 Austin Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	119 Austin Avenue	Mccrae	Waterfall Creek	
		✓	137 Austin Avenue	Mccrae	Murray Anderson Creek	
✓	✓	✓	5 Avalon Drive	Rosebud	Murray Anderson Creek	
✓	✓	✓	18 Avalon Drive	Rosebud	Murray Anderson Creek	
		✓	54 Avalon Drive	Rosebud	Murray Anderson Creek	
✓	✓	✓	62 Avalon Drive	Rosebud	Murray Anderson Creek	
✓	✓	✓	66 Avalon Drive	Rosebud	Murray Anderson Creek	
✓	✓	✓	1 Banks Street	Mccrae	Waterfall Creek	
		✓	3-5 Baroda Street	Rosebud	Direct to Bay	
✓	✓	✓	2 Bartels Street	Mccrae	Direct to Bay	
✓	✓	✓	16 Bass Street	Mccrae	Local Drainage	
		✓	1/17 Bass Avenue	Rosebud	Local Drainage	
✓	✓	✓	18 Bass Street	Mccrae	Local Drainage	
	✓	✓	19 Bass Avenue	Rosebud	Local Drainage	
		✓	20 Bass Street	Mccrae	Local Drainage	
		✓	21 Bass Street	Mccrae	Local Drainage	
✓	✓	✓	28 Bass Street	Mccrae	Local Drainage	
✓	✓	✓	29 Bass Street	Mccrae	Local Drainage	
✓	✓	✓	30 Bass Street	Mccrae	Local Drainage	
		✓	31 Bass Street	Mccrae	Local Drainage	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
		✓	32 Bass Street	Mccrae	Local Drainage
	✓	✓	1 Bay Vista Court	Mccrae	Local Drainage
✓	✓	✓	5 Bay Vista Court	Mccrae	Local Drainage
	✓	✓	21 Bayview Avenue	Rosebud	Murray Anderson Creek
✓	✓	✓	111 Bayview Road	Mccrae	Local Drainage
	✓	✓	113 Bayview Road	Mccrae	Local Drainage
		✓	147 Bayview Road	Mccrae	Local Drainage
		✓	149 Bayview Road	Mccrae	Local Drainage
		✓	151 Bayview Road	Mccrae	Local Drainage
		✓	169-171 Bayview Road	Mccrae	Local Drainage
		✓	173 Bayview Road	Mccrae	Local Drainage
	✓	✓	233 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	235 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	237 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	239 Bayview Road	Mccrae	Waterfall Creek
		✓	241 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	243 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	247 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	249 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	251 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	253 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	255 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	257 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	1/259 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	2/259 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	3/259 Bayview Road	Mccrae	Waterfall Creek
		✓	263 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	267 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	269 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	271 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	1/273 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	2/273 Bayview Road	Mccrae	Waterfall Creek
✓	✓	✓	275 Bayview Road	Mccrae	Waterfall Creek
	✓	✓	277 Bayview Road	Mccrae	Waterfall Creek
	✓	✓	279 Bayview Road	Mccrae	Waterfall Creek
	✓	✓	281 Bayview Road	Mccrae	Waterfall Creek
		✓	285 Bayview Road	Mccrae	Murray Anderson Creek
✓	✓	✓	1/287 Bayview Road	Rosebud	Murray Anderson Creek
✓	✓	✓	2/287 Bayview Road	Rosebud	Murray Anderson Creek
	✓	✓	3/287 Bayview Road	Rosebud	Murray Anderson Creek
	✓	✓	4/287 Bayview Road	Rosebud	Murray Anderson Creek
	✓	✓	5/287 Bayview Road	Rosebud	Murray Anderson Creek
	✓	✓	6/287 Bayview Road	Rosebud	Murray Anderson Creek

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
	✓	✓	7/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	8/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	9/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	10/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	11/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	12/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	13/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	14/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	15/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	16/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	17/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	18/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	19/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	20/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	21/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	22/287 Bayview Road	Rosebud	Murray Anderson Creek	
		✓	64/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	65/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	66/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	67/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	68/287 Bayview Road	Rosebud	Murray Anderson Creek	
	✓	✓	69/287 Bayview Road	Rosebud	Murray Anderson Creek	
	✓	✓	70/287 Bayview Road	Rosebud	Murray Anderson Creek	
		✓	71/287 Bayview Road	Rosebud	Murray Anderson Creek	
	✓	✓	73/287 Bayview Road	Rosebud	Murray Anderson Creek	
		✓	77/287 Bayview Road	Rosebud	Murray Anderson Creek	
		✓	78/287 Bayview Road	Rosebud	Murray Anderson Creek	
		✓	80/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	81/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	82/287 Bayview Road	Rosebud	Murray Anderson Creek	
	✓	✓	83/287 Bayview Road	Rosebud	Murray Anderson Creek	
	✓	✓	84/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	85/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	86/287 Bayview Road	Rosebud	Murray Anderson Creek	
	✓	✓	87/287 Bayview Road	Rosebud	Murray Anderson Creek	
	✓	✓	88/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	89/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	90/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	91/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	92/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	93/287 Bayview Road	Rosebud	Murray Anderson Creek	
	✓	✓	94/287 Bayview Road	Rosebud	Murray Anderson Creek	
	✓	✓	95/287 Bayview Road	Rosebud	Murray Anderson Creek	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
✓	✓	✓	96/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	97/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	98/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	99/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	100/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	101/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	102/287 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	323A Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	323 Bayview Road	Rosebud	Murray Anderson Creek	
		✓	1/333 Bayview Road	Rosebud	Murray Anderson Creek	
		✓	335 Bayview Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	3 Beacon Rise	Mccrae	Local Drainage	
✓	✓	✓	4 Beacon Rise	Mccrae	Local Drainage	
✓	✓	✓	6 Beacon Rise	Mccrae	Local Drainage	
✓	✓	✓	2-4 Bellbangra Avenue	Rosebud	Murray Anderson Creek	
		✓	3 Bellbangra Avenue	Rosebud	Murray Anderson Creek	
	✓	✓	5 Bellbangra Avenue	Rosebud	Murray Anderson Creek	
		✓	10 Bellbangra Avenue	Rosebud	Murray Anderson Creek	
		✓	7 Bentley Road	Mccrae	Waterfall Creek	
		✓	8 Bentley Road	Mccrae	Waterfall Creek	
✓	✓	✓	13 Bentley Road	Mccrae	Waterfall Creek	
	✓	✓	14 Bentley Road	Mccrae	Waterfall Creek	
✓	✓	✓	15 Bentley Road	Mccrae	Waterfall Creek	
✓	✓	✓	17 Bentley Road	Mccrae	Waterfall Creek	
✓	✓	✓	19 Bentley Road	Mccrae	Waterfall Creek	
		✓	19 Besgrove Street	Rosebud	Local Drainage	
		✓	22 Besgrove Street	Rosebud	Local Drainage	
	✓	✓	2 Beth Court	Rosebud	Waterfall Creek	
	✓	✓	4 Beth Court	Rosebud	Waterfall Creek	
	✓	✓	6 Beth Court	Rosebud	Waterfall Creek	
		✓	10 Beth Court	Rosebud	Waterfall Creek	
	✓	✓	12 Beth Court	Rosebud	Waterfall Creek	
		✓	2 Bilbul Avenue	Rosebud	Murray Anderson Creek	
	✓	✓	27 Bilbul Avenue	Rosebud	Murray Anderson Creek	
	✓	✓	29 Bilbul Avenue	Rosebud	Murray Anderson Creek	
	✓	✓	33 Bilbul Avenue	Rosebud	Murray Anderson Creek	
		✓	36 Bilbul Avenue	Rosebud	Murray Anderson Creek	
		✓	1 Bucher Place	Rosebud	Direct to Bay	
	✓	✓	2 Bucher Place	Rosebud	Direct to Bay	
	✓	✓	36 Burrell Street	Mccrae	Direct to Bay	
✓	✓	✓	1 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	3 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	7 Burunda Road	Rosebud	Waterfall Creek	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
✓	✓	✓	9 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	11 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	12 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	13 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	14 Burunda Road	Rosebud	Waterfall Creek	
	✓	✓	15A Burunda Road	Rosebud	Waterfall Creek	
	✓	✓	15 Burunda Road	Rosebud	Waterfall Creek	
	✓	✓	16 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	17 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	18 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	22 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	25 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	26 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	27 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	28 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	29 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	30 Burunda Road	Rosebud	Waterfall Creek	
	✓	✓	31 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	32 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	34 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	35 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	36 Burunda Road	Rosebud	Waterfall Creek	
✓	✓	✓	14 Cairn Road	Mccrae	Local Drainage	
✓	✓	✓	16 Cairn Road	Mccrae	Local Drainage	
		✓	19 Cairn Road	Mccrae	Local Drainage	
✓	✓	✓	29 Cairn Road	Mccrae	Local Drainage	
		✓	30 Cairn Road	Mccrae	Local Drainage	
		✓	31 Cairn Road	Mccrae	Local Drainage	
✓	✓	✓	34 Cairn Road	Mccrae	Local Drainage	
✓	✓	✓	38 Cairn Road	Mccrae	Local Drainage	
		✓	40 Cairn Road	Mccrae	Local Drainage	
✓	✓	✓	41A Cairn Road	Mccrae	Local Drainage	
✓	✓	✓	47 Cairn Road	Mccrae	Local Drainage	
✓	✓	✓	2 Caroline Court	Rosebud	Murray Anderson Creek	
		✓	26 Caroline Court	Rosebud	Murray Anderson Creek	
		✓	4 Carrajung Street	Rosebud	Waterfall Creek	
		✓	7 Carrajung Street	Rosebud	Waterfall Creek	
		✓	6 Carrathool Avenue	Rosebud	Murray Anderson Creek	
✓	✓	✓	45 Carrathool Avenue	Rosebud	Murray Anderson Creek	
		✓	6 Cass Street	Rosebud	Murray Anderson Creek	
	✓	✓	16 Cass Street	Rosebud	Murray Anderson Creek	
✓	✓	✓	18-20 Cass Street	Rosebud	Murray Anderson Creek	
		✓	31 Cass Street	Rosebud	Murray Anderson Creek	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
	✓	✓	33 Cass Street	Rosebud	Murray Anderson Creek	
		✓	4 Catherine Street	Mccrae	Direct to Bay	
✓	✓	✓	13 Catherine Street	Mccrae	Waterfall Creek	
		✓	15 Catherine Street	Mccrae	Waterfall Creek	
✓	✓	✓	1/20 Catherine Street	Mccrae	Waterfall Creek	
		✓	2/20 Catherine Street	Mccrae	Waterfall Creek	
✓	✓	✓	3/20 Catherine Street	Mccrae	Waterfall Creek	
	✓	✓	4/20 Catherine Street	Mccrae	Waterfall Creek	
✓	✓	✓	1 Chunar Grove	Mccrae	Local Drainage	
	✓	✓	2 Chunar Grove	Mccrae	Local Drainage	
	✓	✓	5 Chunar Grove	Mccrae	Local Drainage	
✓	✓	✓	7 Chunar Grove	Mccrae	Local Drainage	
✓	✓	✓	8 Chunar Grove	Mccrae	Local Drainage	
✓	✓	✓	9 Chunar Grove	Mccrae	Local Drainage	
		✓	13 Chunar Grove	Mccrae	Local Drainage	
✓	✓	✓	93 Cinerama Crescent	Mccrae	Waterfall Creek	
		✓	2 Comet Court	Rosebud	Murray Anderson Creek	
		✓	4 Comet Court	Rosebud	Murray Anderson Creek	
✓	✓	✓	13-15 Cook Avenue	Rosebud	Local Drainage	
	✓	✓	16 Cook Street	Mccrae	Local Drainage	
	✓	✓	20 Cook Street	Mccrae	Local Drainage	
		✓	24 Cook Street	Mccrae	Local Drainage	
		✓	4 Coral Close	Rosebud	Murray Anderson Creek	
		✓	16 Cranston Court	Rosebud	Local Drainage	
	✓	✓	24 Cranston Court	Rosebud	Local Drainage	
		✓	4 Daimler Court	Mccrae	Waterfall Creek	
	✓	✓	44 Deighton Drive	Rosebud	Local Drainage	
		✓	4 Devon Court	Rosebud	Murray Anderson Creek	
✓	✓	✓	16 Dorothy Court	Mccrae	Local Drainage	
✓	✓	✓	20 Dorothy Court	Mccrae	Local Drainage	
		✓	8 Dumossa Avenue	Rosebud	Murray Anderson Creek	
		✓	18 Dumossa Avenue	Rosebud	Murray Anderson Creek	
	✓	✓	32 Dumossa Avenue	Rosebud	Murray Anderson Creek	
✓	✓	✓	1 Durham Place	Rosebud	Direct to Bay	
✓	✓	✓	4 Durham Place	Rosebud	Direct to Bay	
✓	✓	✓	2 Eddystone Street	Mccrae	Waterfall Creek	
✓	✓	✓	4 Eddystone Street	Mccrae	Waterfall Creek	
✓	✓	✓	6 Eddystone Street	Mccrae	Waterfall Creek	
✓	✓	✓	8 Eddystone Street	Mccrae	Waterfall Creek	
✓	✓	✓	11 Eddystone Street	Mccrae	Direct to Bay	
	✓	✓	121 Elizabeth Drive	Rosebud	Murray Anderson Creek	
✓	✓	✓	129 Elizabeth Drive	Rosebud	Murray Anderson Creek	
	✓	✓	16 Elm Court	Rosebud	Murray Anderson Creek	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
		✓	20 Elwers Road	Rosebud	Waterfall Creek	
		✓	30 Elwers Road	Rosebud	Waterfall Creek	
	✓	✓	40 Elwers Road	Rosebud	Waterfall Creek	
		✓	43 Elwers Road	Rosebud	Waterfall Creek	
	✓	✓	45 Elwers Road	Rosebud	Waterfall Creek	
	✓	✓	46 Elwers Road	Rosebud	Waterfall Creek	
	✓	✓	48 Elwers Road	Rosebud	Waterfall Creek	
✓	✓	✓	9 Fairway Crescent	Mccrae	Waterfall Creek	
✓	✓	✓	11 Fairway Crescent	Mccrae	Waterfall Creek	
✓	✓	✓	16 Fairway Crescent	Mccrae	Waterfall Creek	
	✓	✓	17 Fairway Crescent	Mccrae	Waterfall Creek	
✓	✓	✓	18 Fairway Crescent	Mccrae	Waterfall Creek	
	✓	✓	41 Fairway Grove	Rosebud	Waterfall Creek	
✓	✓	✓	44 Fairway Grove	Rosebud	Waterfall Creek	
✓	✓	✓	45 Fairway Grove	Rosebud	Waterfall Creek	
✓	✓	✓	46 Fairway Grove	Rosebud	Waterfall Creek	
✓	✓	✓	47 Fairway Grove	Rosebud	Waterfall Creek	
		✓	50 Fairway Grove	Rosebud	Waterfall Creek	
✓	✓	✓	53 Fairway Grove	Rosebud	Waterfall Creek	
✓	✓	✓	55 Fairway Grove	Rosebud	Waterfall Creek	
✓	✓	✓	57 Fairway Grove	Rosebud	Waterfall Creek	
		✓	60 Fairway Grove	Rosebud	Murray Anderson Creek	
		✓	62 Fairway Grove	Rosebud	Murray Anderson Creek	
		✓	64 Fairway Grove	Rosebud	Murray Anderson Creek	
✓	✓	✓	66 Fairway Grove	Rosebud	Murray Anderson Creek	
		✓	23 Flinders Avenue	Rosebud	Local Drainage	
		✓	53 Flinders Street	Mccrae	Local Drainage	
✓	✓	✓	57 Flinders Street	Mccrae	Local Drainage	
✓	✓	✓	59 Flinders Street	Mccrae	Local Drainage	
		✓	60 Flinders Street	Mccrae	Local Drainage	
✓	✓	✓	61 Flinders Street	Mccrae	Local Drainage	
✓	✓	✓	62 Flinders Street	Mccrae	Local Drainage	
	✓	✓	68 Flinders Street	Mccrae	Local Drainage	
	✓	✓	73 Flinders Street	Mccrae	Local Drainage	
		✓	75 Flinders Street	Mccrae	Local Drainage	
		✓	78 Flinders Street	Mccrae	Local Drainage	
✓	✓	✓	86 Flinders Street	Mccrae	Local Drainage	
	✓	✓	88 Flinders Street	Mccrae	Local Drainage	
		✓	90 Flinders Street	Mccrae	Local Drainage	
✓	✓	✓	92 Flinders Street	Mccrae	Local Drainage	
✓	✓	✓	94 Flinders Street	Mccrae	Local Drainage	
✓	✓	✓	96 Flinders Street	Mccrae	Local Drainage	
	✓	✓	102 Flinders Street	Mccrae	Local Drainage	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
	✓	✓	124 Flinders Street	Mccrae	Local Drainage	
✓	✓	✓	125 Flinders Street	Mccrae	Waterfall Creek	
✓	✓	✓	134 Flinders Street	Mccrae	Waterfall Creek	
✓	✓	✓	18 Foam Street	Rosebud	Local Drainage	
		✓	75 Foam Street	Rosebud	Local Drainage	
		✓	109 Foam Street	Rosebud	Local Drainage	
		✓	121 Foam Street	Rosebud	Local Drainage	
	✓	✓	1 Foothills Avenue	Mccrae	Waterfall Creek	
		✓	2A Foothills Avenue	Mccrae	Waterfall Creek	
		✓	8 Foothills Avenue	Mccrae	Local Drainage	
✓	✓	✓	17 Foothills Avenue	Mccrae	Waterfall Creek	
		✓	25A Foothills Avenue	Mccrae	Local Drainage	
✓	✓	✓	27 Foothills Avenue	Mccrae	Waterfall Creek	
		✓	34 Foothills Avenue	Mccrae	Waterfall Creek	
		✓	38 Foothills Avenue	Mccrae	Waterfall Creek	
		✓	39 Foothills Avenue	Mccrae	Waterfall Creek	
	✓	✓	2 Forshaw Court	Rosebud	Murray Anderson Creek	
		✓	10 Fowler Court	Rosebud	Direct to Bay	
✓	✓	✓	2 Gellibrand Street	Mccrae	Waterfall Creek	
✓	✓	✓	3 Gellibrand Street	Mccrae	Waterfall Creek	
✓	✓	✓	1/4 Gellibrand Street	Mccrae	Waterfall Creek	
✓	✓	✓	2/4 Gellibrand Street	Mccrae	Waterfall Creek	
✓	✓	✓	3/4 Gellibrand Street	Mccrae	Waterfall Creek	
✓	✓	✓	4/4 Gellibrand Street	Mccrae	Waterfall Creek	
		✓	5 Gellibrand Street	Mccrae	Waterfall Creek	
		✓	5 Glendale Grove	Mccrae	Waterfall Creek	
		✓	7 Goolgowie Street	Rosebud	Waterfall Creek	
		✓	11 Goolgowie Street	Rosebud	Waterfall Creek	
✓	✓	✓	16 Goolgowie Street	Rosebud	Waterfall Creek	
		✓	20 Goolgowie Street	Rosebud	Waterfall Creek	
		✓	22 Goolgowie Street	Rosebud	Waterfall Creek	
	✓	✓	3 Greenhill Road	Rosebud	Murray Anderson Creek	
	✓	✓	9 Greenhill Road	Rosebud	Murray Anderson Creek	
		✓	11 Greenhill Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	2 Greenmount Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	44 Herman Street	Rosebud	Murray Anderson Creek	
	✓	✓	46 Herman Street	Rosebud	Murray Anderson Creek	
	✓	✓	48 Herman Street	Rosebud	Murray Anderson Creek	
✓	✓	✓	1 Highfield Road	Mccrae	Waterfall Creek	
✓	✓	✓	2 Highfield Road	Mccrae	Waterfall Creek	
✓	✓	✓	3 Highfield Road	Mccrae	Waterfall Creek	
✓	✓	✓	4 Highfield Road	Mccrae	Waterfall Creek	
✓	✓	✓	6 Highfield Road	Mccrae	Waterfall Creek	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
✓	✓	✓	1/8 Highfield Road	Mccrae	Waterfall Creek	
✓	✓	✓	10 Highfield Road	Mccrae	Waterfall Creek	
	✓	✓	13 Highfield Road	Mccrae	Waterfall Creek	
		✓	23 Highfield Road	Mccrae	Waterfall Creek	
	✓	✓	29 Highfield Road	Mccrae	Waterfall Creek	
		✓	31 Highfield Road	Mccrae	Waterfall Creek	
		✓	33 Hilary Avenue	Mccrae	Waterfall Creek	
		✓	39 Hilary Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	13 Hillman Avenue	Mccrae	Waterfall Creek	
	✓	✓	15 Hillman Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	18 Hillman Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	20 Hillman Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	21 Hillman Avenue	Mccrae	Waterfall Creek	
		✓	23 Hillman Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	26 Hillman Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	30 Hillman Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	31 Hillman Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	36 Hillman Avenue	Mccrae	Waterfall Creek	
	✓	✓	1/38 Hillman Avenue	Mccrae	Waterfall Creek	
		✓	1/44 Hillman Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	2/44 Hillman Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	46 Hillman Avenue	Mccrae	Waterfall Creek	
		✓	48 Hillman Avenue	Mccrae	Waterfall Creek	
	✓	✓	50 Hillman Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	52 Hillman Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	1 Hove Road	Rosebud	Waterfall Creek	
✓	✓	✓	3 Hove Road	Rosebud	Waterfall Creek	
✓	✓	✓	7 Hove Road	Rosebud	Waterfall Creek	
✓	✓	✓	9 Hove Road	Rosebud	Waterfall Creek	
✓	✓	✓	11 Hove Road	Rosebud	Waterfall Creek	
	✓	✓	19 Hove Road	Rosebud	Waterfall Creek	
	✓	✓	23 Hove Road	Rosebud	Waterfall Creek	
	✓	✓	27 Hove Road	Rosebud	Waterfall Creek	
	✓	✓	29 Hove Road	Rosebud	Waterfall Creek	
		✓	30 Hove Road	Rosebud	Waterfall Creek	
		✓	51 Hove Road	Rosebud	Waterfall Creek	
✓	✓	✓	53 Hove Road	Rosebud	Waterfall Creek	
	✓	✓	57 Hove Road	Rosebud	Waterfall Creek	
✓	✓	✓	61 Hove Road	Rosebud	Waterfall Creek	
✓	✓	✓	65 Hove Road	Rosebud	Waterfall Creek	
✓	✓	✓	1B Jetty Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	1A Jetty Road	Rosebud	Murray Anderson Creek	
	✓	✓	2 Jetty Road	Rosebud	Direct to Bay	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
	✓	✓	4 Jetty Road	Rosebud	Direct to Bay
		✓	5/72 Jetty Road	Rosebud	Local Drainage
		✓	6/72 Jetty Road	Rosebud	Local Drainage
		✓	7/72 Jetty Road	Rosebud	Local Drainage
✓	✓	✓	113 Jetty Road	Rosebud	Local Drainage
		✓	123-127 Jetty Road	Rosebud	Local Drainage
✓	✓	✓	150 Jetty Road	Rosebud	Local Drainage
		✓	152 Jetty Road	Rosebud	Local Drainage
		✓	184 Jetty Road	Rosebud	Local Drainage
		✓	236 Jetty Road	Rosebud	Local Drainage
		✓	7/254 Jetty Road	Rosebud	Local Drainage
	✓	✓	1 Kewan Court	Rosebud	Waterfall Creek
	✓	✓	5 Kewan Court	Rosebud	Waterfall Creek
✓	✓	✓	6 Kewan Court	Rosebud	Waterfall Creek
✓	✓	✓	1 Lawson Crescent	Rosebud	Murray Anderson Creek
✓	✓	✓	1/3 Lawson Crescent	Rosebud	Murray Anderson Creek
		✓	2/5 Lawson Crescent	Rosebud	Murray Anderson Creek
✓	✓	✓	24 Leichardt Street	Mccrae	Local Drainage
✓	✓	✓	8 Leisure Way	Rosebud	Murray Anderson Creek
✓	✓	✓	16 Leisure Way	Rosebud	Murray Anderson Creek
✓	✓	✓	18 Leisure Way	Rosebud	Murray Anderson Creek
		✓	41 Leisure Way	Rosebud	Murray Anderson Creek
	✓	✓	2/6 Leon Avenue	Rosebud	Murray Anderson Creek
	✓	✓	65 Lockhart Drive	Rosebud	Local Drainage
✓	✓	✓	12 Lonsdale Street	Mccrae	Local Drainage
		✓	4 Madura Street	Rosebud	Direct to Bay
		✓	5 Madura Street	Rosebud	Direct to Bay
		✓	12 Madura Street	Rosebud	Direct to Bay
		✓	27 Marion Road	Rosebud	Waterfall Creek
		✓	29 Marion Road	Rosebud	Waterfall Creek
	✓	✓	33 Marion Road	Rosebud	Waterfall Creek
✓	✓	✓	35 Marion Road	Rosebud	Waterfall Creek
✓	✓	✓	37 Marion Road	Rosebud	Waterfall Creek
	✓	✓	3 Martin Street	Rosebud	Waterfall Creek
		✓	1/5 Martin Street	Rosebud	Waterfall Creek
	✓	✓	2/5 Martin Street	Rosebud	Waterfall Creek
		✓	3/5 Martin Street	Rosebud	Waterfall Creek
	✓	✓	4/5 Martin Street	Rosebud	Waterfall Creek
		✓	10 Martin Street	Rosebud	Waterfall Creek
	✓	✓	1/13 Martin Street	Rosebud	Waterfall Creek
	✓	✓	4/13 Martin Street	Rosebud	Waterfall Creek
	✓	✓	17 Martin Street	Rosebud	Waterfall Creek
		✓	19 Martin Street	Rosebud	Waterfall Creek

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
	✓	✓	21 Martin Street	Rosebud	Waterfall Creek	
		✓	25 Martin Street	Rosebud	Waterfall Creek	
	✓	✓	27 Martin Street	Rosebud	Waterfall Creek	
		✓	33 Martin Street	Rosebud	Waterfall Creek	
	✓	✓	39 Martin Street	Rosebud	Waterfall Creek	
✓	✓	✓	7 Matthew Street	Mccrae	Local Drainage	
		✓	9 Matthew Street	Mccrae	Local Drainage	
✓	✓	✓	13 Matthew Street	Mccrae	Local Drainage	
		✓	15 Matthew Street	Mccrae	Local Drainage	
✓	✓	✓	18 Matthew Street	Mccrae	Local Drainage	
		✓	19 Matthew Street	Mccrae	Local Drainage	
✓	✓	✓	24 Matthew Street	Mccrae	Local Drainage	
✓	✓	✓	38 Matthew Street	Mccrae	Local Drainage	
✓	✓	✓	4 Morgan Court	Mccrae	Waterfall Creek	
✓	✓	✓	8 Morgan Street	Rosebud	Murray Anderson Creek	
✓	✓	✓	12B Morgan Street	Rosebud	Murray Anderson Creek	
✓	✓	✓	12A Morgan Street	Rosebud	Murray Anderson Creek	
	✓	✓	13B Morgan Street	Rosebud	Murray Anderson Creek	
✓	✓	✓	13A Morgan Street	Rosebud	Murray Anderson Creek	
	✓	✓	15 Morgan Street	Rosebud	Murray Anderson Creek	
✓	✓	✓	17 Morgan Street	Rosebud	Murray Anderson Creek	
✓	✓	✓	18 Morgan Street	Rosebud	Murray Anderson Creek	
✓	✓	✓	19 Morgan Street	Rosebud	Murray Anderson Creek	
✓	✓	✓	21 Morgan Street	Rosebud	Murray Anderson Creek	
✓	✓	✓	23 Morgan Street	Rosebud	Murray Anderson Creek	
✓	✓	✓	1A Mount Arthur Avenue	Rosebud	Murray Anderson Creek	
		✓	53 Mount Arthur Avenue	Rosebud	Murray Anderson Creek	
	✓	✓	1 Mount View Road	Rosebud	Waterfall Creek	
	✓	✓	2 Mount View Road	Rosebud	Waterfall Creek	
		✓	10 Mount View Road	Rosebud	Waterfall Creek	
		✓	5 Murawa Drive	Rosebud	Murray Anderson Creek	
		✓	12 Murawa Drive	Rosebud	Murray Anderson Creek	
✓	✓	✓	7 Murray Street	Mccrae	Local Drainage	
	✓	✓	9 Murray Street	Mccrae	Local Drainage	
		✓	10 Murray Street	Mccrae	Local Drainage	
		✓	11 Murray Street	Mccrae	Local Drainage	
✓	✓	✓	1/1 Murray-Anderson Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	2/1 Murray-Anderson Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	3/1 Murray-Anderson Road	Rosebud	Murray Anderson Creek	
		✓	23 Murray-Anderson Road	Rosebud	Murray Anderson Creek	
		✓	28 Murray-Anderson Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	36 Murray-Anderson Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	38 Murray-Anderson Road	Rosebud	Murray Anderson Creek	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
✓	✓	✓	48A Murray-Anderson Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	62 Murray-Anderson Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	64 Murray-Anderson Road	Rosebud	Murray Anderson Creek	
		✓	70 Murray-Anderson Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	2A Navigator Street	Mccrae	Local Drainage	
✓	✓	✓	2 Navigator Street	Mccrae	Local Drainage	
		✓	12 Navigator Street	Mccrae	Local Drainage	
✓	✓	✓	24 Navigator Street	Mccrae	Local Drainage	
✓	✓	✓	26 Navigator Street	Mccrae	Local Drainage	
✓	✓	✓	32 Navigator Street	Mccrae	Local Drainage	
		✓	2 Nicholas Court	Rosebud	Murray Anderson Creek	
		✓	8 Nicholas Court	Rosebud	Murray Anderson Creek	
	✓	✓	5 Ninth Avenue	Rosebud	Direct to Bay	
		✓	13-15 Ninth Avenue	Rosebud	Direct to Bay	
		✓	17-19 Ninth Avenue	Rosebud	Direct to Bay	
		✓	21 Ninth Avenue	Rosebud	Direct to Bay	
	✓	✓	23 Ninth Avenue	Rosebud	Direct to Bay	
	✓	✓	43 Nixon Street	Rosebud	Murray Anderson Creek	
		✓	45 Nixon Street	Rosebud	Murray Anderson Creek	
✓	✓	✓	69 Old Cape Schanck Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	71 Old Cape Schanck Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	77 Old Cape Schanck Road	Rosebud	Murray Anderson Creek	
	✓	✓	91 Old Cape Schanck Road	Rosebud	Murray Anderson Creek	
	✓	✓	93 Old Cape Schanck Road	Rosebud	Murray Anderson Creek	
	✓	✓	95-97 Old Cape Schanck Road	Rosebud	Murray Anderson Creek	
		✓	27 Overlea Avenue	Rosebud	Waterfall Creek	
		✓	28 Overlea Avenue	Rosebud	Waterfall Creek	
		✓	30 Overlea Avenue	Rosebud	Waterfall Creek	
	✓	✓	34 Overlea Avenue	Rosebud	Waterfall Creek	
✓	✓	✓	7 Parkmore Road	Rosebud	Direct to Bay	
✓	✓	✓	11 Parkmore Road	Rosebud	Direct to Bay	
		✓	1/13 Parkmore Road	Rosebud	Direct to Bay	
		✓	2/13 Parkmore Road	Rosebud	Direct to Bay	
		✓	3/13 Parkmore Road	Rosebud	Direct to Bay	
		✓	4/13 Parkmore Road	Rosebud	Direct to Bay	
		✓	5/13 Parkmore Road	Rosebud	Direct to Bay	
		✓	6/13 Parkmore Road	Rosebud	Direct to Bay	
		✓	15 Parkmore Road	Rosebud	Direct to Bay	
✓	✓	✓	658 Point Nepean Road	Mccrae	Direct to Bay	
	✓	✓	671-673 Point Nepean Road	Mccrae	Direct to Bay	
		✓	675-677 Point Nepean Road	Mccrae	Direct to Bay	
✓	✓	✓	676 Point Nepean Road	Mccrae	Direct to Bay	
		✓	681 Point Nepean Road	Mccrae	Direct to Bay	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
		✓	683 Point Nepean Road	Mccrae	Direct to Bay	
✓	✓	✓	690 Point Nepean Road	Mccrae	Direct to Bay	
✓	✓	✓	691 Point Nepean Road	Mccrae	Direct to Bay	
✓	✓	✓	695 Point Nepean Road	Mccrae	Direct to Bay	
	✓	✓	703 Point Nepean Road	Mccrae	Direct to Bay	
	✓	✓	707 Point Nepean Road	Mccrae	Waterfall Creek	
		✓	717 Point Nepean Road	Mccrae	Waterfall Creek	
	✓	✓	765 Point Nepean Road	Rosebud	Direct to Bay	
		✓	1/769 Point Nepean Road	Rosebud	Direct to Bay	
		✓	2/769 Point Nepean Road	Rosebud	Direct to Bay	
		✓	3/769 Point Nepean Road	Rosebud	Direct to Bay	
		✓	4/769 Point Nepean Road	Rosebud	Direct to Bay	
		✓	5/769 Point Nepean Road	Rosebud	Direct to Bay	
		✓	6/769 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	15/771 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	16/771 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	17/771 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	18/771 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	19/771 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	20/771 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	21/771 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	22/771 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	23/771 Point Nepean Road	Rosebud	Direct to Bay	
		✓	24/771 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	1/773 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	2/773 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	3/773 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	4/773 Point Nepean Road	Rosebud	Direct to Bay	
		✓	5/773 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	6/773 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	7/773 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	8/773 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	9/773 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	10/773 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	11/773 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	12/773 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	13/773 Point Nepean Road	Rosebud	Direct to Bay	
		✓	775 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	1/777 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	2/777 Point Nepean Road	Rosebud	Direct to Bay	
		✓	3/777 Point Nepean Road	Rosebud	Direct to Bay	
		✓	1/785 Point Nepean Road	Rosebud	Direct to Bay	
		✓	2/785 Point Nepean Road	Rosebud	Direct to Bay	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
		✓	3/785 Point Nepean Road	Rosebud	Direct to Bay	
		✓	4/785 Point Nepean Road	Rosebud	Direct to Bay	
		✓	5/785 Point Nepean Road	Rosebud	Direct to Bay	
		✓	1/791 Point Nepean Road	Rosebud	Direct to Bay	
		✓	2/791 Point Nepean Road	Rosebud	Direct to Bay	
		✓	3/791 Point Nepean Road	Rosebud	Direct to Bay	
		✓	4/791 Point Nepean Road	Rosebud	Direct to Bay	
		✓	5/791 Point Nepean Road	Rosebud	Direct to Bay	
		✓	7/791 Point Nepean Road	Rosebud	Direct to Bay	
		✓	8/791 Point Nepean Road	Rosebud	Direct to Bay	
		✓	9/791 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	10/791 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	1/797 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	2/797 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	3/797 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	4/797 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	5/797 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	799 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	813-817 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	819-821 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	823 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	825 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	827-829 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	831 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	1/834 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	2/834 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	3/834 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	4/834 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	5/834 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	6/834 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	835 Point Nepean Road	Rosebud	Murray Anderson Creek	
	✓	✓	836 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	838-840 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	839-841 Point Nepean Road	Rosebud	Murray Anderson Creek	
	✓	✓	842 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	1/843 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	2/843 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	844 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	854 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	856 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	858 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	859-865 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	1/860 Point Nepean Road	Rosebud	Murray Anderson Creek	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
	✓	✓	2/860 Point Nepean Road	Rosebud	Murray Anderson Creek	
	✓	✓	3/860 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	4/860 Point Nepean Road	Rosebud	Murray Anderson Creek	
	✓	✓	5/860 Point Nepean Road	Rosebud	Murray Anderson Creek	
	✓	✓	6/860 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	7/860 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	5/862 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	7/862 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	867A Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	867 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	1/869 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	2/869 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	3/869 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	4/869 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	5/869 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	6/869 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	7/869 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	8/869 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	870 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	871 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	873 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	875-877 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	878 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	879 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	881 Point Nepean Road	Rosebud	Murray Anderson Creek	
	✓	✓	882 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	1/882 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	2/882 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	3/882 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	4/882 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	883 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	884 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	885 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	887 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	888 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	889 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	890-892 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	891-893 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	895 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	896 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	897 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	899 Point Nepean Road	Rosebud	Murray Anderson Creek	
		✓	900 Point Nepean Road	Rosebud	Direct to Bay	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
✓	✓	✓	901 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	902 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	903 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	1/904 Point Nepean Road	Rosebud	Direct to Bay	
		✓	2/904 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	3/904 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	4/904 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	5/904 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	6/904 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	7/904 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	8/904 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	905 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	911 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	912 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	913 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	915 Point Nepean Road	Rosebud	Murray Anderson Creek	
✓	✓	✓	918 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	920 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	921 Point Nepean Road	Rosebud	Murray Anderson Creek	
	✓	✓	924 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	926-928 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	932 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	1-2/967 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	3-4/967 Point Nepean Road	Rosebud	Direct to Bay	
		✓	5/967 Point Nepean Road	Rosebud	Direct to Bay	
		✓	6/967 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	7/967 Point Nepean Road	Rosebud	Direct to Bay	
		✓	994 Point Nepean Road	Rosebud	Direct to Bay	
		✓	1000 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	1027 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	1033 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	1035 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	1037 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	1039 Point Nepean Road	Rosebud	Direct to Bay	
		✓	1041 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	1045 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	1049 Point Nepean Road	Rosebud	Direct to Bay	
		✓	1051 Point Nepean Road	Rosebud	Direct to Bay	
		✓	1053-1055 Point Nepean Road	Rosebud	Direct to Bay	
		✓	1057-1061 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	1063 Point Nepean Road	Rosebud	Direct to Bay	
	✓	✓	1065 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	1067 Point Nepean Road	Rosebud	Direct to Bay	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
	✓	✓	1069 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	1073-1077 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	1079 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	1/1079 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	2/1079 Point Nepean Road	Rosebud	Direct to Bay	
		✓	1083-1085 Point Nepean Road	Rosebud	Direct to Bay	
		✓	1099-1125 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	1137-1151 Point Nepean Road	Rosebud	Direct to Bay	
		✓	1153-1157 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	1159 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	1171-1173 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	1175-1177 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	1183 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	1185 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	1187 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	1/1189 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	2/1189 Point Nepean Road	Rosebud	Direct to Bay	
✓	✓	✓	5 Potton Avenue	Rosebud	Murray Anderson Creek	
✓	✓	✓	7 Potton Avenue	Rosebud	Murray Anderson Creek	
		✓	8 Potton Avenue	Rosebud	Murray Anderson Creek	
		✓	50 Potton Avenue	Rosebud	Local Drainage	
		✓	52 Potton Avenue	Rosebud	Local Drainage	
		✓	56 Potton Avenue	Rosebud	Local Drainage	
		✓	58 Potton Avenue	Rosebud	Local Drainage	
	✓	✓	66 Potton Avenue	Rosebud	Local Drainage	
	✓	✓	74 Potton Avenue	Rosebud	Local Drainage	
		✓	9 Riley Street	Mccrae	Local Drainage	
		✓	11 Riley Street	Mccrae	Local Drainage	
✓	✓	✓	23 Riley Street	Mccrae	Waterfall Creek	
	✓	✓	27 Riley Street	Mccrae	Waterfall Creek	
✓	✓	✓	32 Riley Street	Mccrae	Waterfall Creek	
✓	✓	✓	45 Riley Street	Mccrae	Waterfall Creek	
		✓	57A Riley Street	Mccrae	Waterfall Creek	
✓	✓	✓	59 Riley Street	Mccrae	Waterfall Creek	
		✓	65 Riley Street	Mccrae	Waterfall Creek	
	✓	✓	69 Riley Street	Mccrae	Waterfall Creek	
✓	✓	✓	1 Rosebud Parade	Rosebud	Direct to Bay	
✓	✓	✓	2 Rosebud Avenue	Rosebud	Waterfall Creek	
	✓	✓	10 Rosebud Avenue	Rosebud	Waterfall Creek	
		✓	94 Rosebud Parade	Rosebud	Local Drainage	
		✓	32 Rosemore Road	Rosebud	Direct to Bay	
		✓	35 Rosemore Road	Rosebud	Direct to Bay	
	✓	✓	1/36 Rosemore Road	Rosebud	Direct to Bay	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
		✓	2/36 Rosemore Road	Rosebud	Direct to Bay	
	✓	✓	3/36 Rosemore Road	Rosebud	Direct to Bay	
	✓	✓	4/36 Rosemore Road	Rosebud	Direct to Bay	
		✓	5/36 Rosemore Road	Rosebud	Direct to Bay	
	✓	✓	1/38 Rosemore Road	Rosebud	Direct to Bay	
	✓	✓	2/38 Rosemore Road	Rosebud	Direct to Bay	
		✓	3/38 Rosemore Road	Rosebud	Direct to Bay	
		✓	1/40 Rosemore Road	Rosebud	Direct to Bay	
		✓	2/40 Rosemore Road	Rosebud	Direct to Bay	
	✓	✓	4/40 Rosemore Road	Rosebud	Direct to Bay	
		✓	5/40 Rosemore Road	Rosebud	Direct to Bay	
		✓	3/44 Rosemore Road	Rosebud	Direct to Bay	
		✓	5/44 Rosemore Road	Rosebud	Direct to Bay	
		✓	6/44 Rosemore Road	Rosebud	Direct to Bay	
		✓	7/44 Rosemore Road	Rosebud	Direct to Bay	
		✓	8/44 Rosemore Road	Rosebud	Direct to Bay	
		✓	9/44 Rosemore Road	Rosebud	Direct to Bay	
		✓	51 Rosemore Road	Rosebud	Direct to Bay	
		✓	1 Russell Street	Mccrae	Local Drainage	
✓	✓	✓	8 Russell Street	Mccrae	Local Drainage	
	✓	✓	9 Russell Street	Mccrae	Local Drainage	
	✓	✓	10 Russell Street	Mccrae	Local Drainage	
	✓	✓	10A Russell Street	Mccrae	Local Drainage	
✓	✓	✓	11 Russell Street	Mccrae	Local Drainage	
		✓	2/12 Russell Street	Mccrae	Local Drainage	
✓	✓	✓	13 Russell Street	Mccrae	Local Drainage	
✓	✓	✓	7 Seabrook Avenue	Rosebud	Waterfall Creek	
		✓	14 Seabrook Avenue	Rosebud	Waterfall Creek	
		✓	16 Seabrook Avenue	Rosebud	Waterfall Creek	
		✓	27 Seabrook Avenue	Rosebud	Waterfall Creek	
	✓	✓	28 Seabrook Avenue	Rosebud	Waterfall Creek	
	✓	✓	38 Seabrook Avenue	Rosebud	Waterfall Creek	
		✓	46 Seabrook Avenue	Rosebud	Waterfall Creek	
✓	✓	✓	54 Seabrook Avenue	Rosebud	Waterfall Creek	
		✓	13 Seaview Close	Rosebud	Waterfall Creek	
		✓	26 Seaview Close	Rosebud	Murray Anderson Creek	
	✓	✓	2 Sharen Court	Rosebud	Waterfall Creek	
		✓	4 Sharen Court	Rosebud	Waterfall Creek	
		✓	10 Sharen Court	Rosebud	Waterfall Creek	
	✓	✓	12 Sharen Court	Rosebud	Waterfall Creek	
	✓	✓	16 Sharen Court	Rosebud	Waterfall Creek	
✓	✓	✓	18 Sharen Court	Rosebud	Waterfall Creek	
✓	✓	✓	20 Sharen Court	Rosebud	Waterfall Creek	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
✓	✓	✓	24 Sharen Court	Rosebud	Waterfall Creek	
✓	✓	✓	36 Sharen Court	Rosebud	Waterfall Creek	
✓	✓	✓	38 Sharen Court	Rosebud	Waterfall Creek	
✓	✓	✓	35 Sherwood Avenue	Rosebud	Murray Anderson Creek	
	✓	✓	39 Sherwood Avenue	Rosebud	Murray Anderson Creek	
✓	✓	✓	42 Sherwood Avenue	Rosebud	Murray Anderson Creek	
	✓	✓	55-57 Sherwood Avenue	Rosebud	Murray Anderson Creek	
		✓	59 Sherwood Avenue	Rosebud	Murray Anderson Creek	
		✓	77 Sherwood Avenue	Rosebud	Murray Anderson Creek	
✓	✓	✓	79 Sherwood Avenue	Rosebud	Murray Anderson Creek	
		✓	2 Sixth Avenue	Rosebud	Direct to Bay	
		✓	2 Somers Avenue	Mccrae	Local Drainage	
		✓	6 Somers Avenue	Mccrae	Local Drainage	
	✓	✓	20 Somers Avenue	Mccrae	Local Drainage	
		✓	22 Somers Avenue	Mccrae	Local Drainage	
✓	✓	✓	26 Somers Avenue	Mccrae	Local Drainage	
		✓	32 Somers Avenue	Mccrae	Local Drainage	
		✓	34 Somers Avenue	Mccrae	Local Drainage	
	✓	✓	8 South Road	Mccrae	Waterfall Creek	
	✓	✓	12 South Road	Mccrae	Waterfall Creek	
✓	✓	✓	13 South Road	Mccrae	Waterfall Creek	
		✓	15 South Road	Mccrae	Waterfall Creek	
		✓	17 South Road	Mccrae	Waterfall Creek	
		✓	47 South Road	Rosebud	Direct to Bay	
		✓	54A South Road	Rosebud	Direct to Bay	
		✓	64 South Road	Rosebud	Direct to Bay	
	✓	✓	1/70 South Road	Rosebud	Direct to Bay	
	✓	✓	2/70 South Road	Rosebud	Direct to Bay	
	✓	✓	3/70 South Road	Rosebud	Direct to Bay	
	✓	✓	4/70 South Road	Rosebud	Direct to Bay	
		✓	6 Spensley Street	Rosebud	Direct to Bay	
		✓	8 Spensley Street	Rosebud	Direct to Bay	
		✓	13 Spensley Street	Rosebud	Direct to Bay	
		✓	30 Spray Street	Rosebud	Local Drainage	
		✓	45 Spray Street	Rosebud	Local Drainage	
	✓	✓	47 Spray Street	Rosebud	Local Drainage	
✓	✓	✓	49 Spray Street	Rosebud	Local Drainage	
	✓	✓	50 Spray Street	Rosebud	Local Drainage	
✓	✓	✓	51 Spray Street	Rosebud	Local Drainage	
		✓	53 Spray Street	Rosebud	Local Drainage	
		✓	28 St Andrews Avenue	Rosebud	Waterfall Creek	
		✓	31 St Andrews Avenue	Rosebud	Waterfall Creek	
✓	✓	✓	32 St Andrews Avenue	Rosebud	Waterfall Creek	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
✓	✓	✓	33 St Andrews Avenue	Rosebud	Waterfall Creek	
✓	✓	✓	34 St Andrews Avenue	Rosebud	Waterfall Creek	
		✓	41 St Andrews Avenue	Rosebud	Waterfall Creek	
✓	✓	✓	42-44 St Andrews Avenue	Rosebud	Waterfall Creek	
✓	✓	✓	43 St Andrews Avenue	Rosebud	Waterfall Creek	
✓	✓	✓	47 St Andrews Avenue	Rosebud	Waterfall Creek	
✓	✓	✓	48 St Andrews Avenue	Rosebud	Waterfall Creek	
✓	✓	✓	49 St Andrews Avenue	Rosebud	Waterfall Creek	
		✓	10 Sunhill Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	17 Sunningdale Road	Rosebud	Waterfall Creek	
✓	✓	✓	23 Sunningdale Road	Rosebud	Waterfall Creek	
	✓	✓	27 Sunningdale Road	Rosebud	Waterfall Creek	
✓	✓	✓	28 Sunningdale Road	Rosebud	Waterfall Creek	
✓	✓	✓	31 Sunningdale Road	Rosebud	Waterfall Creek	
✓	✓	✓	32 Sunningdale Road	Rosebud	Waterfall Creek	
✓	✓	✓	33 Sunningdale Road	Rosebud	Waterfall Creek	
✓	✓	✓	34 Sunningdale Road	Rosebud	Waterfall Creek	
✓	✓	✓	35 Sunningdale Road	Rosebud	Waterfall Creek	
✓	✓	✓	36 Sunningdale Road	Rosebud	Waterfall Creek	
✓	✓	✓	38 Sunningdale Road	Rosebud	Waterfall Creek	
	✓	✓	40 Sunningdale Road	Rosebud	Waterfall Creek	
✓	✓	✓	43 Sunningdale Road	Rosebud	Waterfall Creek	
✓	✓	✓	45 Sunningdale Road	Rosebud	Waterfall Creek	
✓	✓	✓	46 Sunningdale Road	Rosebud	Waterfall Creek	
✓	✓	✓	47 Sunningdale Road	Rosebud	Waterfall Creek	
✓	✓	✓	48 Sunningdale Road	Rosebud	Waterfall Creek	
✓	✓	✓	49 Sunningdale Road	Rosebud	Waterfall Creek	
	✓	✓	52 Sunningdale Road	Rosebud	Waterfall Creek	
✓	✓	✓	61 Sunningdale Road	Rosebud	Murray Anderson Creek	
		✓	14 Sylvan Drive	Rosebud	Murray Anderson Creek	
✓	✓	✓	2 Talbot Grove	Mccrae	Waterfall Creek	
		✓	4 Talbot Grove	Mccrae	Waterfall Creek	
✓	✓	✓	11 Talbot Grove	Mccrae	Waterfall Creek	
✓	✓	✓	12 Talbot Grove	Mccrae	Waterfall Creek	
✓	✓	✓	13A Talbot Grove	Mccrae	Waterfall Creek	
✓	✓	✓	13 Talbot Grove	Mccrae	Waterfall Creek	
		✓	1 The Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	2 The Avenue	Mccrae	Waterfall Creek	
	✓	✓	3 The Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	4 The Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	2/4 The Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	3/4 The Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	4/4 The Avenue	Mccrae	Waterfall Creek	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	
20% AEP	5% AEP	1% AEP				
✓	✓	✓	1/5 The Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	2/5 The Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	3/5 The Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	4/5 The Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	5/5 The Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	6/5 The Avenue	Mccrae	Waterfall Creek	
✓	✓	✓	7/5 The Avenue	Mccrae	Waterfall Creek	
	✓	✓	16 The Avenue	Mccrae	Waterfall Creek	
		✓	33 The Avenue	Mccrae	Waterfall Creek	
		✓	1 Troon Road	Mccrae	Waterfall Creek	
		✓	12 Troon Road	Rosebud	Waterfall Creek	
✓	✓	✓	18 Troon Road	Rosebud	Waterfall Creek	
		✓	14 Tudor Road	Rosebud	Waterfall Creek	
	✓	✓	2 Vickie Court	Rosebud	Waterfall Creek	
		✓	6 Vickie Court	Rosebud	Waterfall Creek	
	✓	✓	8 Vickie Court	Rosebud	Waterfall Creek	
	✓	✓	10 Vickie Court	Rosebud	Waterfall Creek	
✓	✓	✓	1/12 Vickie Court	Rosebud	Waterfall Creek	
✓	✓	✓	2/12 Vickie Court	Rosebud	Waterfall Creek	
	✓	✓	3/12 Vickie Court	Rosebud	Waterfall Creek	
	✓	✓	4/12 Vickie Court	Rosebud	Waterfall Creek	
	✓	✓	5/12 Vickie Court	Rosebud	Waterfall Creek	
	✓	✓	6/12 Vickie Court	Rosebud	Waterfall Creek	
	✓	✓	7/12 Vickie Court	Rosebud	Waterfall Creek	
	✓	✓	8/12 Vickie Court	Rosebud	Waterfall Creek	
	✓	✓	9/12 Vickie Court	Rosebud	Waterfall Creek	
	✓	✓	10/12 Vickie Court	Rosebud	Waterfall Creek	
	✓	✓	11/12 Vickie Court	Rosebud	Waterfall Creek	
	✓	✓	18 Vickie Court	Rosebud	Waterfall Creek	
	✓	✓	20 Vickie Court	Rosebud	Waterfall Creek	
	✓	✓	22 Vickie Court	Rosebud	Waterfall Creek	
	✓	✓	24 Vickie Court	Rosebud	Waterfall Creek	
	✓	✓	26 Vickie Court	Rosebud	Waterfall Creek	
		✓	2 Wakool Avenue	Rosebud	Murray Anderson Creek	
	✓	✓	46 Wakool Avenue	Rosebud	Murray Anderson Creek	
		✓	9A/35 Wannaeue Place	Rosebud	Direct to Bay	
		✓	9/35 Wannaeue Place	Rosebud	Direct to Bay	
		✓	4 Warrain Avenue	Rosebud	Murray Anderson Creek	
		✓	6 Warrain Avenue	Rosebud	Murray Anderson Creek	
		✓	7 Warrain Avenue	Rosebud	Murray Anderson Creek	
		✓	8 Warrain Avenue	Rosebud	Murray Anderson Creek	
	✓	✓	9 Warrain Avenue	Rosebud	Murray Anderson Creek	
✓	✓	✓	11 Warrain Avenue	Rosebud	Murray Anderson Creek	

**Properties at risk from Flooding Over-Floor in Rosebud & McCrae**

Properties at risk from Flooding Over-Floor in Rosebud & McCrae					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
		✓	45 Warrain Avenue	Rosebud	Murray Anderson Creek
		✓	49 Warrain Avenue	Rosebud	Murray Anderson Creek
✓	✓	✓	335 Waterfall Gully Road	Rosebud	Waterfall Creek
✓	✓	✓	337 Waterfall Gully Road	Rosebud	Waterfall Creek
	✓	✓	341 Waterfall Gully Road	Rosebud	Waterfall Creek
		✓	359 Waterfall Gully Road	Rosebud	Waterfall Creek
✓	✓	✓	374 Waterfall Gully Road	Rosebud	Waterfall Creek
✓	✓	✓	376 Waterfall Gully Road	Rosebud	Waterfall Creek
		✓	402A Waterfall Gully Road	Rosebud	Waterfall Creek
✓	✓	✓	441 Waterfall Gully Road	Rosebud	Murray Anderson Creek
		✓	475 Waterfall Gully Road	Rosebud	Murray Anderson Creek
		✓	477 Waterfall Gully Road	Rosebud	Murray Anderson Creek
		✓	496 Waterfall Gully Road	Rosebud	Murray Anderson Creek
	✓	✓	5-7 Wattle Place	Mccrae	Waterfall Creek
✓	✓	✓	7 Wattle Road	Mccrae	Waterfall Creek
✓	✓	✓	9 Wattle Road	Mccrae	Waterfall Creek
✓	✓	✓	11 Wattle Road	Mccrae	Waterfall Creek
✓	✓	✓	13 Wattle Road	Mccrae	Waterfall Creek
✓	✓	✓	14 Wattle Road	Mccrae	Waterfall Creek
✓	✓	✓	1/15 Wattle Road	Mccrae	Waterfall Creek
✓	✓	✓	2/15 Wattle Road	Mccrae	Waterfall Creek
	✓	✓	1/17 Wattle Road	Mccrae	Waterfall Creek
✓	✓	✓	2/17 Wattle Road	Mccrae	Waterfall Creek
	✓	✓	19 Wattle Road	Mccrae	Waterfall Creek
	✓	✓	21 Wattle Road	Mccrae	Waterfall Creek
	✓	✓	23 Wattle Road	Mccrae	Waterfall Creek
✓	✓	✓	1 Wilgah Road	Rosebud	Waterfall Creek
✓	✓	✓	5 Wilgah Road	Rosebud	Waterfall Creek
✓	✓	✓	6 Wilgah Road	Rosebud	Waterfall Creek
✓	✓	✓	8 Wilgah Road	Rosebud	Waterfall Creek
✓	✓	✓	10 Wilgah Road	Rosebud	Waterfall Creek
		✓	1/24 William Street	Mccrae	Waterfall Creek
		✓	2/24 William Street	Mccrae	Waterfall Creek
		✓	16 William Hunter Court	Rosebud	Murray Anderson Creek
✓	✓	✓	1 Wilson Street	Rosebud	Murray Anderson Creek
✓	✓	✓	31 Wilson Street	Rosebud	Murray Anderson Creek
		✓	2 Woodvale Grove	Rosebud	Direct to Bay
✓	✓	✓	13-15 Woodvale Grove	Rosebud	Waterfall Creek
		✓	16 Woodvale Grove	Rosebud	Waterfall Creek
		✓	17 Woodvale Grove	Rosebud	Waterfall Creek
	✓	✓	18 Woodvale Grove	Rosebud	Waterfall Creek
		✓	19 Woodvale Grove	Rosebud	Waterfall Creek
		✓	22 Woodvale Grove	Rosebud	Waterfall Creek

Properties at risk from Flooding Over-Floor in Rosebud & McCrae					
Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse
20% AEP	5% AEP	1% AEP			
✓	✓	✓	23 Woodvale Grove	Rosebud	Waterfall Creek
	✓	✓	30 Woodvale Grove	Rosebud	Waterfall Creek
	✓	✓	31 Woodvale Grove	Rosebud	Waterfall Creek
		✓	32 Woodvale Grove	Rosebud	Waterfall Creek
	✓	✓	33 Woodvale Grove	Rosebud	Waterfall Creek
	✓	✓	35 Woodvale Grove	Rosebud	Waterfall Creek
		✓	39 Woodvale Grove	Rosebud	Waterfall Creek
	✓	✓	41 Woodvale Grove	Rosebud	Waterfall Creek
	✓	✓	43 Woodvale Grove	Rosebud	Waterfall Creek
		✓	45 Woodvale Grove	Rosebud	Waterfall Creek
	✓	✓	47 Woodvale Grove	Rosebud	Waterfall Creek
		✓	4 Woonton Street	Rosebud	Waterfall Creek
		✓	7 Yambill Avenue	Rosebud	Murray Anderson Creek
<b>Totals</b>					
<b>442</b>	<b>677</b>	<b>992</b>			

Table C5.2 – Properties at risk of flooding in Rosebud & McCrae on the Mornington Peninsula

## ISOLATION

No major isolation risks exist for areas around Rosebud & McCrae. Some localised short-duration isolation may occur closer to the coast due to flash flooding.

## ESSENTIAL INFRASTRUCTURE

Apart from the roads outlined below, all other essential infrastructure and services areas around Rosebud & McCrae are expected to remain predominantly dry during an intense rainfall event.

## ROAD CLOSURES

The following roads are subject to closure during flooding around Rosebud & McCrae. Check the VicRoads website for more details: [alerts.vicroads.vic.gov.au](https://alerts.vicroads.vic.gov.au)

VicRoads Roads affected in a 1% AEP event	
•	Mornington Peninsula Freeway between Beverley Road Pedestrian Bridge and Jetty Road, McCrae
•	Point Nepean Road, Rosebud and McCrae between Jetty Road and Bartel Street

Table C5.3 – VicRoads Possible Road Closures during a flooding event

Mornington Peninsula Shire Council Roads affected in a 1% AEP event			
<b>MCCRAE</b>	• Highfield Road	• Elizabeth Drive	• Nixon Street
• Armstrong Road	• Hillman Avenue	• Elizabeth Drive	• Parkedge Circuit
• Austin Avenue	• Matthew Street	• Elwers Road	• Rosemore Road
• Banks Street	• May Vista Court	• Fairway Grove	• Sherwood Avenue
• Bartels Street	• Rose Court	• Fowler Court	• South Road
• Bass Street	• Sunhill Avenue	• Goolgowie Street	• Spensley Street
• Bayview Road	• The Avenue	• Greenhill Road	• St Andrews Avenue
• Beacon Rise	• Wattle Road	• Herman Street	• Sunningdale Road
• Bentley Road	<b>ROSEBUD</b>	• Hove Road	• Vickie Court
• Bowen Street	• Baroda Street	• Hove Road	• Waterfall Gully Road
• Cairn Road	• Bayview Road	• Laurens Street	• Wilgah Road
• Cinerama Crescent	• Beth Court	• Madura Street	• Woodvale Grove
• Eddystone Street	• Burunda Road	• Martin Street	Yambill Avenue
• Flinders Street	• Carrathool Avenue	• Mount View Road	
• Gillibrand Street	• Dmossa Avenue	• Murray Anderson Road	

Table C5.4 – Mornington Peninsula Council Possible Road Closures during a flooding event

## FLOOD MITIGATION

### RETARDING BASINS

Melbourne Water Retarding Basin	On Drain/ Waterway	Spillway Crest Level	Full Supply Level	Embankment Crest Height	Storage Capacity	ANCOLD Hazard Rating	Houses In Flow Path (dam breach)	Melway Reference
Barakee Reserve	Barakee Reserve Outfall Drain	74.85 AHD	74.85 AHD	2-3m 39 AHD	11 ML	Low	Unavailable	170 G6

Table C5.5 – Melbourne Water Retarding Basins in Rosebud

No formal Pumping Stations or Levees exist around Rosebud & McCrae.

### COMMAND, CONTROL & COORDINATION

VICSES will assume overall control of the response to flood incidents. Other agencies will be requested to support operations as detailed in this Plan. Control and coordination of a flood incident shall be carried out at the lowest effective level and in accordance with the State Emergency Response Plan (EMMV Part 3). During significant events, VICSES will conduct incident management using multi-agency resources.

### FLOOD IMPACTS & REQUIRED ACTIONS

The table below is a breakdown of the number of properties flooded in a 1% AEP (100yr ARI) event. Refer to the following intelligence card/s for Murray Anderson Creek & Waterfall Creek for more details.

Land Use Flooded in a 1% AEP Event	Total
Residential	892
Commercial	93
Industrial	0
Public Land	7
Rural	0
<b>Total</b>	<b>992</b>

Table C5.6 – Breakdown of likely land use flooded in Rosebud during a 1% AEP event

Total

Public Land

Rural

## FLOOD INTELLIGENCE CARD – MURRAY ANDERSON CREEK, ROSEBUD (UNGAUGED)

Version 2 – June 2014



*Note: flood intelligence records are approximations. This is because no two floods at a location, even if they peak at the same height, will have identical impacts. Flood intelligence cards detail the relationship between flood magnitude and flood consequences. More details about flood intelligence and its use can be found in the Australian Emergency Management Manuals flood series.*

*This Flood Intelligence Card publication is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.*

CLOSEST RAIN GAUGE	<b>Arthurs Seat</b>
LOCATION	<b>Seawinds National Park</b>
MELWAY REF:	<b>159 D12</b>

GAUGE NUMBER	<b>586202</b>
GAUGE TYPE	<b>Rain</b>
TELEMETRIC/MANUAL	<b>Telemetric</b>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Action
10mm in 10 mins; 17mm in 30 mins; 22mm in 1 hour; 29mm in 2 hours; or 42mm in 6 hours;  Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.	20% AEP (5 year ARI)	<b>Properties at Flood Risk (Over-Floor)</b> <b>442 Properties in Total</b> <b>Direct to Bay</b> <ul style="list-style-type: none"> <li>• 2 Bartels Street, McCrae</li> <li>• 1 &amp; 4 Durham Place, Rosebud</li> <li>• 11 Eddystone Street, McCrae</li> <li>• 7 &amp; 11 Parkmore Road, Rosebud</li> <li>• 658, 676, 690, 691, 695, Units 7-8/773, 870, 878, 884, 888, 896, 902, 1/904, Units 3-8/904, 912, 918, 920, 926-928, 932, 1063, 1067, 1073-1077, 1079, Units 1-2/1079, 1137-1151, 1159, 1171-1173, 1175-1177, 1183, 1185, 1187 &amp; 1-2/1189 Point Nepean Road, McCrae</li> <li>• 1 Rosebud Parade, Rosebud</li> </ul> <b>Local Drainage</b> <ul style="list-style-type: none"> <li>• 8 Abbey Lane, McCrae</li> <li>• 16, 18, 28, 29 &amp; 30 Bass Street, McCrae</li> <li>• 5 Bay Vista Court, McCrae</li> <li>• 111 Bayview Road, McCrae</li> <li>• 3, 4 &amp; 6 Beacon Rise, McCrae</li> </ul>	VICSES to respond on a request by request basis  VICSES may provide warnings using EM-COP to Mornington Peninsula Shire and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.  Council and VicRoads (as appropriate) to

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Action
		<ul style="list-style-type: none"> <li>• 14, 16, 29, 34, 38, 41A &amp; 47 Cairn Road, McCrae</li> <li>• 1, 7, 8 &amp; 9 Chunar Grove, McCrae</li> <li>• 13-15 Cook Avenue, Rosebud</li> <li>• 16 &amp; 20 Dorothy Court, McCrae</li> <li>• 57, 59, 61, 62, 86, 92, 94 &amp; 96 Flinders Street, McCrae</li> <li>• 18 Foam Street, Rosebud</li> <li>• 113 &amp; 150 Jetty Road, Rosebud</li> <li>• 24 Leichardt Street, McCrae</li> <li>• 12 Lonsdale Street, McCrae</li> <li>• 7, 13, 18, 24 &amp; 38 Matthew Street, McCrae</li> <li>• 7 Murray Street, McCrae</li> <li>• 2A, 2, 24, 26 &amp; 32 Navigator Street, McCrae</li> <li>• 8, 11 &amp; 13 Russell Street, McCrae</li> <li>• 26 Somers Avenue, McCrae</li> <li>• 49 &amp; 51 Spray Street, Rosebud</li> <li>• <b>Murray Anderson Creek</b></li> <li>• 45 Anne Street, Rosebud</li> <li>• 5, 18, 62 &amp; 66 Avalon Drive, Rosebud</li> <li>• Units 1-2/287, Units 8-22/287, Units 65-68/287, Units 81-82/287, 85-86, 89-102/287, 323 &amp; 323A Bayview Road, Rosebud</li> <li>• 2-4 Bellbangra Avenue, Rosebud</li> <li>• 2 Caroline Court, Rosebud</li> <li>• 45 Carrathool Avenue, Rosebud</li> <li>• 18-20 Cass Street, Rosebud</li> <li>• 129 Elizabeth Drive, Rosebud</li> <li>• 66 Fairway Grove, Rosebud</li> <li>• 44 Herman Street, Rosebud</li> <li>• 1B &amp; 1A Jetty Road, Rosebud</li> <li>• 1 &amp; 1/3 Lawson Crescent, Rosebud</li> <li>• 8, 16 &amp; 18 Leisure Way, Rosebud</li> <li>• 8, 12B, 12A, 13A, 17, 18, 19, 21 &amp; 23 Morgan Street, Rosebud</li> <li>• 1A Mount Arthur Avenue, Rosebud</li> <li>• 1/1, 2/1, 3/1, 36, 38, 48A, 62 &amp; 64 Murray-Anderson Road, Rosebud</li> <li>• 69, 71 &amp; 77 Old Cape Schanck Road, Rosebud</li> <li>• 823, 825, 827-829, 831, 844, 854, 856, 858, 7/860, 867, 867A, Units 1-8/869, 871, 873, 875-877, 879, 881, 883, 885, 887, 889, 891-893, 895, 897, 899, 901, 903, 905,</li> </ul>	<p>provide road closure signage under predetermined arrangements</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Action
		<p>911, 913, 915 &amp; 921 Point Nepean Road, Rosebud</p> <ul style="list-style-type: none"> <li>• 5 &amp; 7 Potton Avenue, Rosebud</li> <li>• 35, 42 &amp; 79 Sherwood Avenue, Rosebud</li> <li>• 61 Sunningdale Road, Rosebud</li> <li>• 11 Warrain Avenue, Rosebud</li> <li>• 441 Waterfall Gully Road, Rosebud</li> <li>• 1 &amp; 31 Wilson Street, Rosebud</li> </ul> <p><b>Waterfall Creek</b></p> <ul style="list-style-type: none"> <li>• 21, 24, 32, 33, 38, 39B, 45, 46 &amp; 1-3/48 Armstrong Road, McCrae</li> <li>• 9, 11, 26, 28, 32, 41, 45, 49, 59, 61, 63, 65, 71, 103, 105, 107, 111, 113 &amp; 119 Austin Avenue, McCrae</li> <li>• 1 Banks Street, McCrae</li> <li>• 235, 237, 239, 243, 247, 249, 251, 253, 255, 257, Units 1-3/259, 267, 269, 271, Units 1-2/273 &amp; 275 Bayview Road, McCrae</li> <li>• 13, 15, 17 &amp; 19 Bentley Road, McCrae</li> <li>• 1, 3, 7, 9, 11, 12, 13, 14, 17, 18, 22, 25, 26, 27, 28, 29, 30, 32, 34, 35 &amp; 36 Burunda Road, Rosebud</li> <li>• 13, 1/20 &amp; 3/20 Catherine Street, McCrae</li> <li>• 93 Cinerama Crescent, McCrae</li> <li>• 2, 4, 6 &amp; 8 Eddystone Street, McCrae</li> <li>• 9, 11, 16, 18, 44, 45, 46, 47, 53, 55 &amp; 57 Fairway Crescent, McCrae</li> <li>• 125 &amp; 134 Flinders Street, McCrae</li> <li>• 17 &amp; 27 Foothills Avenue, McCrae</li> <li>• 2, 3, 1/4, 2/4, 3/4 &amp; 4/4 Gellibrand Street, McCrae</li> <li>• 16 Goolgowie Street, Rosebud</li> <li>• 2 Greenmount Avenue, McCrae</li> <li>• 1, 2, 3, 4, 6, 1/8 &amp; 10 Highfield Road, McCrae</li> <li>• 13, 18, 20, 21, 26, 30, 31, 36, 2/44, 46 52 Hillman Avenue, McCrae</li> <li>• 1, 3, 7, 9, 11, 53, 61 &amp; 65 Hove Road, Rosebud</li> <li>• 6 Kewan Court, Rosebud</li> <li>• 35 &amp; 37 Marion Road, Rosebud</li> <li>• 4 Morgan Court, McCrae</li> <li>• 23, 32, 45 &amp; 59 Riley Street, McCrae</li> <li>• 2 Rosebud Avenue, Rosebud</li> <li>• 7 &amp; 54 Seabrook Avenue, Rosebud</li> <li>• 18, 20, 24, 36 &amp; 38 Sharen Court, Rosebud</li> <li>• 13 South Road, McCrae</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Action
		<ul style="list-style-type: none"> <li>• 32, 33, 34, 42-44, 43, 47, 48 &amp; 49 St Andrews Avenue, Rosebud</li> <li>• 17, 23, 28, 31, 32, 33, 34, 35, 36, 38, 43, 45, 46, 47, 48 &amp; 49 Sunningdale Road, Rosebud</li> <li>• 2, 11, 12, 13 &amp; 13A Talbot Grove, McCrae</li> <li>• 2, 4, 2/4, 3/4, 4/4, 1/5, 2/5, 3/5, 4/5 &amp; 5/5 The Avenue , McCrae</li> <li>• 18 Troon Road, Rosebud</li> <li>• 1/12 &amp; 2/12 Vickie Court, Rosebud</li> <li>• 335, 337, 374 &amp; 376 Waterfall Gully Road, Rosebud</li> <li>• 7, 9, 11, 13, 14, 1/15, 2/15 &amp; 2/17 Wattle Road, McCrae</li> <li>• 1, 5, 6, 8 &amp; 10 Wilgah Road, Rosebud</li> <li>• 13-15 &amp; 23 Woodvale Grove, Rosebud</li> </ul> <p><b>Community Infrastructure Flooded</b></p> <p><b>Murray Anderson Creek</b></p> <ul style="list-style-type: none"> <li>• Rosebud Retirement Village on Hove Road, Rosebud flooded along Bayview Road with approximately 33 residences at risk</li> <li>• Rosebud Foreshore Caravan Park along Nepean Highway, Rosebud</li> </ul> <p><b>Waterfall Creek</b></p> <ul style="list-style-type: none"> <li>• Rosebud Park Public Golf Course on Elizabeth Drive, Rosebud flooded in parts by overland flows coming down from Arthurs Seat State Park</li> <li>• Rosebud Retirement Village on Hove Road, Rosebud flooded along Bayview Road with approximately 33 residences at risk</li> <li>• Bendemeer Caravan Park on Nepean Highway, McCrae</li> <li>• Rosebud Foreshore Caravan Park along Nepean Highway, Rosebud</li> </ul> <p><b>Water Over Road (over 300mm depth)</b></p> <p><b>Murray Anderson Creek</b></p> <ul style="list-style-type: none"> <li>• Carrathool Avenue, Rosebud</li> <li>• Dumossa Avenue, Rosebud</li> <li>• Yambill Avenue, Rosebud</li> <li>• Goolgowie Street, Rosebud</li> <li>• Greenhill Road, Rosebud</li> <li>• Sherwood Avenue, Rosebud</li> <li>• Elizabeth Drive, Rosebud</li> <li>• Nixon Street, Rosebud</li> <li>• Bayview Road, Rosebud</li> </ul> <p><b>Waterfall Creek</b></p> <ul style="list-style-type: none"> <li>• Bowen Street, McCrae</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Action
		<ul style="list-style-type: none"> <li>• Beacon Rise &amp; May Vista Court, McCrae</li> <li>• Bayview Road, McCrae at Navigator Street and between Hove Road and Banks Street</li> <li>• Armstrong Road, McCrae</li> <li>• Sunningdale Road, Rosebud</li> <li>• Fairway Grove, Rosebud</li> <li>• Elizabeth Drive, Rosebud</li> <li>• Vickie Court, Rosebud</li> <li>• Woodvale Grove, Rosebud</li> <li>• Wattle Road, McCrae</li> <li>• Highfield Road, McCrae</li> <li>• South Road, McCrae between Lonsdale Street and The Avenue</li> <li>• The Avenue, McCrae</li> <li>• Gellibrand Street, McCrae</li> <li>• Eddystone Street, McCrae</li> </ul>	
<p>20mm in 10 mins; 32mm in 30 mins; 40mm in 1 hour; 51mm in 2 hours; 72mm in 6 hours; or 90mm in 12 hours</p> <p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>	<p>1% AEP (100 year ARI)</p>	<p><b>Properties at Flood Risk (Over-Floor)</b> <b>992 Properties in Total</b> <b>Direct to Bay</b></p> <ul style="list-style-type: none"> <li>• 2/1, 3/1 &amp; 4/1 Adams Avenue, Rosebud</li> <li>• 3-5 Baroda Street, Rosebud</li> <li>• 2 Bartels Street, McCrae</li> <li>• 1 &amp; 2 Bucher Place, Rosebud</li> <li>• 36 Burrell Street, McCrae</li> <li>• 4 Catherine Street, McCrae</li> <li>• 1 &amp; 4 Durham Place, Rosebud</li> <li>• 11 Eddystone Street, McCrae</li> <li>• 10 Fowler Court, Rosebud</li> <li>• 2 &amp; 4 Jetty Road, Rosebud</li> <li>• 4, 5 &amp; 12 Madura Street, Rosebud</li> <li>• 5, 13-15, 17-19, 21 &amp; 23 Ninth Avenue, Rosebud</li> <li>• 7, 11, Units 1-6/13 &amp; 15 Parkmore Road, Rosebud</li> <li>• 658, 671-673, 675-677, 676, 681, 683, 690, 691, 695, 703, 765, Units 1-6/769, Units 15-24/771, Units 1-13/773, 775, Units 1-3/777, Units 1-5/785, Units 1-10/791, Units 1-5/797, 799, 870, 878, 882, Units 1-4/882, 884, 888, 890-892, 896, 900, 902, Units 1-8/904, 912, 918, 920, 924, 926-928, 932, 1-2/967, 3-4/967, Shops 5-7/967, 994, 1000, 1027, 1033, 1037, 1039, 1041, 1045, 1049, 1051, 1053-1055, 1057-1061, 1063, 1065,</li> </ul>	<p>VICSES to respond on a request by request basis</p> <p>VICSES may provide warnings using EM-COP to Mornington Peninsula Shire and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.</p> <p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Action
		<p>1067, 1069, 1073-1077, 1079, Shops 1-2/1079, 1083-1085, 1099-1125, 1137-1151, 1153-1157, 1159, 1171-1173, 1175-1177, 1183, 1185, 1187 &amp; Shops 1-2/1189 Point Nepean Road, McCrae</p> <ul style="list-style-type: none"> <li>• 1 Rosebud Parade, Rosebud</li> <li>• 32, 35, Units 1-5/36, Units 1-3/38, Units 1-2/40, Units 4-5/40, 3/44, Units 5-9/44 &amp; 51 Rosemore Road, Rosebud</li> <li>• 2 Sixth Avenue, Rosebud</li> <li>• 47, 54A, 64 &amp; Units 1-4/70 South Road, Rosebud</li> <li>• 6, 8 &amp; 13 Spensley Street, Rosebud</li> <li>• 9A/35 &amp; 9/35 Wannaeue Place, Rosebud</li> <li>• 2 Woodvale Grove, Rosebud</li> </ul> <p><b>Local Drainage</b></p> <ul style="list-style-type: none"> <li>• 8 &amp; 9 Abbey Lane, McCrae</li> <li>• 16, 1/17, 18, 19, 20, 21, 28, 29, 30, 31 &amp; 32 Bass Street, McCrae</li> <li>• 1 &amp; 5 Bay Vista Court, McCrae</li> <li>• 111, 113, 147, 149, 151, 169-171 &amp; 173 Bayview Road, McCrae</li> <li>• 3, 4 &amp; 6 Beacon Rise, McCrae</li> <li>• 19 &amp; 22 Besgrove Street, Rosebud</li> <li>• 14, 16, 19, 29, 30, 31, 34, 38, 40, 41A &amp; 47 Cairn Road, McCrae</li> <li>• 1, 2, 5, 7, 8, 9 &amp; 13 Chunar Grove, McCrae</li> <li>• 13-15, 16, 20 &amp; 24 Cook Avenue, Rosebud</li> <li>• 16 &amp; 24 Cranston Court, Rosebud</li> <li>• 44 Deighton Drive, Rosebud</li> <li>• 16 &amp; 20 Dorothy Court, McCrae</li> <li>• 23, 53, 57, 59, 60, 61, 62, 68, 73, 75, 78, 86, 88, 90, 92, 94, 96, 102 &amp; 124 Flinders Avenue, Rosebud</li> <li>• 18, 75, 109 &amp; 121 Foam Street, Rosebud</li> <li>• 8 &amp; 25A Foothills Avenue, McCrae</li> <li>• 5/72, 6/72, 7/72, 113, 123-127, 150, 152, 184, 236 &amp; 7/254 Jetty Road, Rosebud</li> <li>• 24 Leichardt Street, McCrae</li> <li>• 65 Lockhart Drive, Rosebud</li> <li>• 12 Lonsdale Street, McCrae</li> <li>• 7, 9, 13, 15, 18, 19, 24 &amp; 38 Matthew Street, McCrae</li> <li>• 7, 9, 10 &amp; 11 Murray Street, McCrae</li> <li>• 2A, 2, 12, 24, 26 &amp; 32 Navigator Street, McCrae</li> <li>• 50, 52, 56, 58, 66 &amp; 74 Potton Avenue, Rosebud</li> <li>• 9 &amp; 11 Riley Street, McCrae</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Action
		<ul style="list-style-type: none"> <li>• 94 Rosebud Parade, Rosebud</li> <li>• 1, 8, 9, 10, 10A, 11, 2/12 &amp; 13 Russell Street, McCrae</li> <li>• 2, 6, 20, 22, 26, 32 &amp; 34 Somers Avenue, McCrae</li> <li>• 30, 45, 47, 49, 50, 51 &amp; 53 Spray Street, Rosebud</li> <li>• <b>Murray Anderson Creek</b></li> <li>• 40, 42 &amp; 45 Anne Street, Rosebud</li> <li>• 137 Austin Avenue, McCrae</li> <li>• 5, 18, 54, 62 &amp; 66 Avalon Drive, Rosebud</li> <li>• 21, 285, Units 1-22/287, Units 64-72/287, 73/287, Units 77-78/287, Units 80-102/287, 323, 323A, 1/333 &amp; 335 Bayview Avenue, Rosebud</li> <li>• 2-4, 3, 5 &amp; 10 Bellbangra Avenue, Rosebud</li> <li>• 2, 27, 29, 33 &amp; 36 Bilbul Avenue, Rosebud</li> <li>• 2 &amp; 26 Caroline Court, Rosebud</li> <li>• 6 &amp; 45 Carrathool Avenue, Rosebud</li> <li>• 6, 16, 18-20, 31 &amp; 33 Cass Street, Rosebud</li> <li>• 2 &amp; 4 Comet Court, Rosebud</li> <li>• 4 Coral Close, Rosebud</li> <li>• 4 Devon Court, Rosebud</li> <li>• 8, 18 &amp; 32 Dumossa Avenue, Rosebud</li> <li>• 121 &amp; 129 Elizabeth Drive, Rosebud</li> <li>• 16 Elm Court, Rosebud</li> <li>• 60, 62, 64 &amp; 66 Fairway Grove, Rosebud</li> <li>• 2 Forshaw Court, Rosebud</li> <li>• 3, 9 &amp; 11 Greenhill Road, Rosebud</li> <li>• 44, 46 &amp; 48 Herman Street, Rosebud</li> <li>• 1B &amp; 1A Jetty Road, Rosebud</li> <li>• 1, 1/3 &amp; 2/5 Lawson Crescent, Rosebud</li> <li>• 8, 16, 18 &amp; 41 Leisure Way, Rosebud</li> <li>• 2/6 Leon Avenue, Rosebud</li> <li>• 8, 12B, 12A, 13B, 13A, 15, 17, 18, 19, 21 &amp; 23 Morgan Street, Rosebud</li> <li>• 1A &amp; 53 Mount Arthur Avenue, Rosebud</li> <li>• 5 &amp; 12 Murawa Drive, Rosebud</li> <li>• 1/1, 2/1, 3/1, 23, 28, 36, 38, 48A, 62, 64 &amp; 70 Murray-Anderson Road, Rosebud</li> <li>• 2 &amp; 8 Nicholas Court, Rosebud</li> <li>• 43 &amp; 45 Nixon Street, Rosebud</li> <li>• 69, 71, 77, 91, 93 &amp; 95-97 Old Cape Schanck Road, Rosebud</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Action
		<ul style="list-style-type: none"> <li>• 813-817, 819-821, 823, 825, 827-829, 831, Units 1-6/834, 835, 836, 838-840, 839-841, 842, Units 1-2/843, 844, 854, 856, 858, 859-865, Units 1-7/860, 5/862, Units 7-8/869, 871, 873, 875-877, 879, 81, 883, 885, 887, 889, 891-893, 895, 897, 899, 901, 903, 905, 911, 913, 915 &amp; 921 Point Nepean Road, Rosebud</li> <li>• 5, 7 &amp; 8 Potton Avenue, Rosebud</li> <li>• 26 Seaview Close, Rosebud</li> <li>• 35, 39, 42, 55-57, 59, 77 &amp; 79 Sherwood Avenue, Rosebud</li> <li>• 61 Sunningdale Road, Rosebud</li> <li>• 14 Sylvan Drive, Rosebud</li> <li>• 2 &amp; 46 Wakool Avenue, Rosebud</li> <li>• 4, 6, 7, 8, 9, 11, 45 &amp; 49 Warrain Avenue, Rosebud</li> <li>• 441, 475, 477 &amp; 496 Waterfall Gully Road, Rosebud</li> <li>• 16 William Hunter Court, Rosebud</li> <li>• 1 &amp; 31 Wilson Street, Rosebud</li> <li>• 7 Yambill Avenue, Rosebud</li> <li>• <b>Waterfall Creek</b></li> <li>• 21, 24, 25, 32, 33, 34, 38, 39B, 42, 45, 46, Units 1-3/48, 49, 50, 1/57 &amp; 58A Armstrong Road, McCrae</li> <li>• 1A, 1, 2, 9, 11, 12, 19, 26, 28, 32, 41, 45, 48, 49, 53, 55, 57, 59, 61, 63, 65, 69, 71, 101, 103, 105, 107, 111, 113, 115 &amp; 119 Austin Avenue, McCrae</li> <li>• 1 Banks Street, McCrae</li> <li>• 233, 235, 237, 239, 241, 243, 247, 249, 251, 253, 255, 257, Units 1-3/259, 263, 267, 269, 271, Units 1-2/273, 275, 277, 279 &amp; 281 Bayview Road, McCrae</li> <li>• 7, 8, 13, 14, 15, 17 &amp; 19 Bentley Road, McCrae</li> <li>• 2, 4, 6, 10 &amp; 12 Beth Court, Rosebud</li> <li>• 1, 3, 7, 9, 11, 12, 13, 14, 15A, 15, 16, 17, 18, 22, 25, 26, 27, 28, 29, 30, 31, 32, 34, 35 &amp; 36 Burunda Road, Rosebud</li> <li>• 4 &amp; 7 Carrajung Street, Rosebud</li> <li>• 13, 15, &amp; Units 1-4/20 Catherine Street, McCrae</li> <li>• 93 Cinerama Crescent, McCrae</li> <li>• 4 Daimler Court, McCrae</li> <li>• 2, 4, 6 &amp; 8 Eddystone Street, McCrae</li> <li>• 20, 30, 40, 43, 45, 46 &amp; 48 Elwers Road, Rosebud</li> <li>• 9, 11, 16, 17, 18, 41, 44, 45, 46, 47, 50, 53, 55 &amp; 57 Fairway Crescent, McCrae</li> <li>• 125 &amp; 134 Flinders Street, McCrae</li> <li>• 1, 2A, 17, 27, 34, 38 &amp; 39 Foothills Avenue, McCrae</li> <li>• 2, 3, 1/4, 2/4, 3/4, 4/4 &amp; 5 Gellibrand Street, McCrae</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Action
		<ul style="list-style-type: none"> <li>• 5 Glendale Grove, McCrae</li> <li>• 7, 11, 16, 20 &amp; 22 Goolgowie Street, Rosebud</li> <li>• 2 Greenmount Avenue, McCrae</li> <li>• 1, 2, 3, 4, 6, 1/8, 10, 13, 23, 29 &amp; 31 Highfield Road, McCrae</li> <li>• 33 &amp; 39 Hilary Avenue, McCrae</li> <li>• 13, 15, 18, 20, 21, 23, 26, 30, 31, 36, 1/38, Units 1-2/44, 46, 48, 50 &amp; 52 Hillman Avenue, McCrae</li> <li>• 1, 3, 7, 9, 11, 19, 23, 27, 29, 30, 51, 53, 57, 61 &amp; 65 Hove Road, Rosebud</li> <li>• 1, 5 &amp; 6 Kewan Court, Rosebud</li> <li>• 27, 29, 33, 35 &amp; 37 Marion Road, Rosebud</li> <li>• 3, Units 1-4/5, 10, 1/13, 4/13, 17, 19, 21, 25, 27, 33 &amp; 39 Martin Street, Rosebud</li> <li>• 4 Morgan Court, McCrae</li> <li>• 1, 2 &amp; 10 Mount View Road, Rosebud</li> <li>• 27, 28, 30 &amp; 34 Overlea Avenue, Rosebud</li> <li>• 707 &amp; 717 Point Nepean Road, McCrae</li> <li>• 23, 27, 32, 45, 57A, 59, 65 &amp; 69 Riley Street, McCrae</li> <li>• 2 &amp; 10 Rosebud Avenue, Rosebud</li> <li>• 7, 14, 16, 27, 28, 38, 46 &amp; 54 Seabrook Avenue, Rosebud</li> <li>• 13 Seaview Close, Rosebud</li> <li>• 2, 4, 10, 12, 16, 18, 20, 24, 36 &amp; 38 Sharen Court, Rosebud</li> <li>• 8, 12, 13, 15 &amp; 17 South Road, McCrae</li> <li>• 28, 31, 32, 33, 34, 41, 42-44, 43, 47, 48 &amp; 49 St Andrews Avenue, Rosebud</li> <li>• 10 Sunhill Avenue, McCrae</li> <li>• 17, 23, 27, 28, 31, 32, 33, 34, 35, 36, 38, 40, 43, 45, 46, 47, 48, 49 &amp; 52 Sunningdale Road, Rosebud</li> <li>• 2, 4, 11, 12, 13A &amp; 13 Talbot Grove, McCrae</li> <li>• 1, 2, 3, 4, Units 2-4/4, Units 1-7/5, 16 &amp; 33 The Avenue , McCrae</li> <li>• 1, 12 &amp; 18 Troon Road, McCrae</li> <li>• 14 Tudor Road, Rosebud</li> <li>• 2, 6, 8, 10, Units 1-11/12, 18, 20, 22, 24 &amp; 26 Vickie Court, Rosebud</li> <li>• 335, 337, 341, 359, 374, 376 &amp; 402A Waterfall Gully Road, Rosebud</li> <li>• 5-7, 7, 9, 11, 13, 14, Units 1-2/15, Units 1-2/17, 19, 21 &amp; 23 Wattle Place, McCrae</li> <li>• 1, 5, 6, 8 &amp; 10 Wilgah Road, Rosebud</li> <li>• Units 1-2/24 William Street, McCrae</li> <li>• 13-15, 16, 17, 18, 19, 22, 23, 30, 31, 32, 33, 35, 39, 41, 43, 45 &amp; 47 Woodvale Grove, Rosebud</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Action
		<ul style="list-style-type: none"> <li>• 4 Woonton Street, Rosebud</li> <li><b>Community Infrastructure Flooded</b></li> <li><b>Murray Anderson Creek</b></li> <li>• Huon Heath Aged Care Facility on Waterfall Gully Road, Rosebud</li> <li>• Rosebud Foreshore Caravan Park along Nepean Highway, Rosebud</li> <li><b>Waterfall Creek</b></li> <li>• Rosebud Park Public Golf Course on Elizabeth Drive, Rosebud flooded in parts by overland flows coming down from Arthurs Seat State Park</li> <li>• Rosebud Retirement Village on Hove Road, Rosebud flooded along Bayview Road with approximately 50 residences at risk</li> <li>• Anchor Caravan Park on Nepean Highway, Rosebud at risk along Rosemore Road</li> <li>• Bendemeer Caravan Park on Nepean Highway, McCrae</li> <li>• Rosebud Foreshore Caravan Park along Nepean Highway, Rosebud</li> <li><b>Water Over Road (over 300mm depth)</b></li> <li><b>Murray Anderson Creek</b></li> <li>• Carrathool Avenue, Rosebud at two low points</li> <li>• Dumossa Avenue, Rosebud</li> <li>• Yambill Avenue, Rosebud</li> <li>• Goolgowie Street, Rosebud</li> <li>• Greenhill Road, Rosebud</li> <li>• Sherwood Avenue, Rosebud</li> <li>• Waterfall Gully Road, Rosebud</li> <li>• Elizabeth Drive, Rosebud</li> <li>• Herman Street, Rosebud</li> <li>• Nixon Street, Rosebud</li> <li>• Hove Road, Rosebud</li> <li>• Bayview Road, Rosebud</li> <li>• Murray Anderson Road, Rosebud at Morgan Street</li> <li>• Point Nepean Road, Rosebud between Jetty Road to Lonsdale Street</li> <li><b>Waterfall Creek</b></li> <li>• Matthew Street, McCrae</li> <li>• Bowen Street, McCrae</li> <li>• Flinders Street, McCrae at Navigator Street and at Talbot Grove</li> <li>• Beacon Rise &amp; May Vista Court, McCrae</li> <li>• Bayview Road, McCrae between Cairn Road and Bowen Street and also between</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability	Consequence / Impact	Action
		<ul style="list-style-type: none"> <li>Banks Street and Hove Road</li> <li>• Mornington Peninsula Freeway between Beverley Road Pedestrian bridge and Jetty Road, McCrae</li> <li>• Bass Street, McCrae</li> <li>• Cairn Road, McCrae near Marina Avenue</li> <li>• Cinerama Crescent, McCrae</li> <li>• Banks Street, McCrae</li> <li>• Bentley Road, McCrae</li> <li>• Armstrong Road, McCrae</li> <li>• Hillman Avenue, McCrae</li> <li>• Austin Avenue, McCrae</li> <li>• Sunningdale Road, Rosebud</li> <li>• Burunda Road, Rosebud</li> <li>• Wilgah Road, Rosebud</li> <li>• Fairway Grove, Rosebud</li> <li>• Hove Road, Rosebud</li> <li>• Elizabeth Drive, Rosebud</li> <li>• St Andrews Avenue, Rosebud</li> <li>• Vickie Court, Rosebud</li> <li>• Beth Court, Rosebud</li> <li>• Mount View Road, Rosebud</li> <li>• Martin Street, Rosebud</li> <li>• Elwers Road, Rosebud</li> <li>• Woodvale Grove, Rosebud</li> <li>• Wattle Road, McCrae</li> <li>• Highfield Road, McCrae</li> <li>• Sunhill Avenue, McCrae</li> <li>• South Road, Rosebud at multiple points between Adams Avenue and The Avenue</li> <li>• Baroda Street, Rosebud</li> <li>• Spensley Street, Rosebud</li> <li>• Madura Street, Rosebud</li> <li>• Laurens Street, Rosebud</li> <li>• Rosemore Road, Rosebud</li> <li>• Fowler Court, Rosebud</li> </ul>	

Design Rainfall Depths (mm) – <i>Indication of Possible Flooding</i>	Annual Exceedance Probability	Consequence / Impact	Action
		<ul style="list-style-type: none"> <li>• Rose Court, McCrae</li> <li>• The Avenue, McCrae</li> <li>• Gellibrand Street, McCrae</li> <li>• Eddystone Street, McCrae</li> <li>• Bartels Street, McCrae at Nepean Highway</li> <li>• Point Nepean Road, Rosebud and McCrae between Adams Avenue and Bartel Street</li> </ul>	

Table C5.7 – Breakdown of possible consequences at various rainfall intensities around Rosebud & McCrae with operational considerations

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# APPENDIX C6 – BAXTER AND SOMERVILLE FLOOD EMERGENCY PLAN

## OVERVIEW OF FLOODING CONSEQUENCES

The semi-rural townships of Baxter and Somerville are located along the northern border of the Mornington Peninsula. The terrain is flat, leading to slow-moving and dispersed flooding along the stormwater drains in the area that drain into Watson Creek which flows east discharging into Western Port Bay.

A number of residential properties are at risk of flooding, most notably properties along Lavender Lane that have not been built above the 1%AEP flood level. Sages Road and Baxter – Tooradin Road is also at risk of flooding.

## WARNING TIMES

Neither the Bureau of Meteorology nor Melbourne Water currently provides flood forecasts for Watson Creek. All flood response actions must therefore be driven by rainfall observations.

Melbourne Water Hydrographic Monitoring Station	Station No.	Location	Stream Level & Flow Gauge	Rain Gauge	Melway Reference
Moorooduc	586206	West bank of Devilbend Creek, Moorooduc 100m d/s of Devilbend Reservoir Dam Wall		✓	152 H2

Table C6.1 – Hydrographic Monitoring Stations near Baxter & Somerville

This rain gauge may provide some warning of expected flooding. See the Melbourne Water website for more information on these gauges: <http://www.melbournewater.com.au/waterdata/rainfallandriverveldata/Pages/Rainfall-and-river-level-new.aspx>. It is advised that residents monitor the Bureau of Meteorology's website <http://www.bom.gov.au/> and the VicEmergency website <https://emergency.vic.gov.au/> or VicSES website <http://www.ses.vic.gov.au/> for any thunderstorm, flood or severe weather warnings present for their area.

# AREAS OF FLOOD RISK

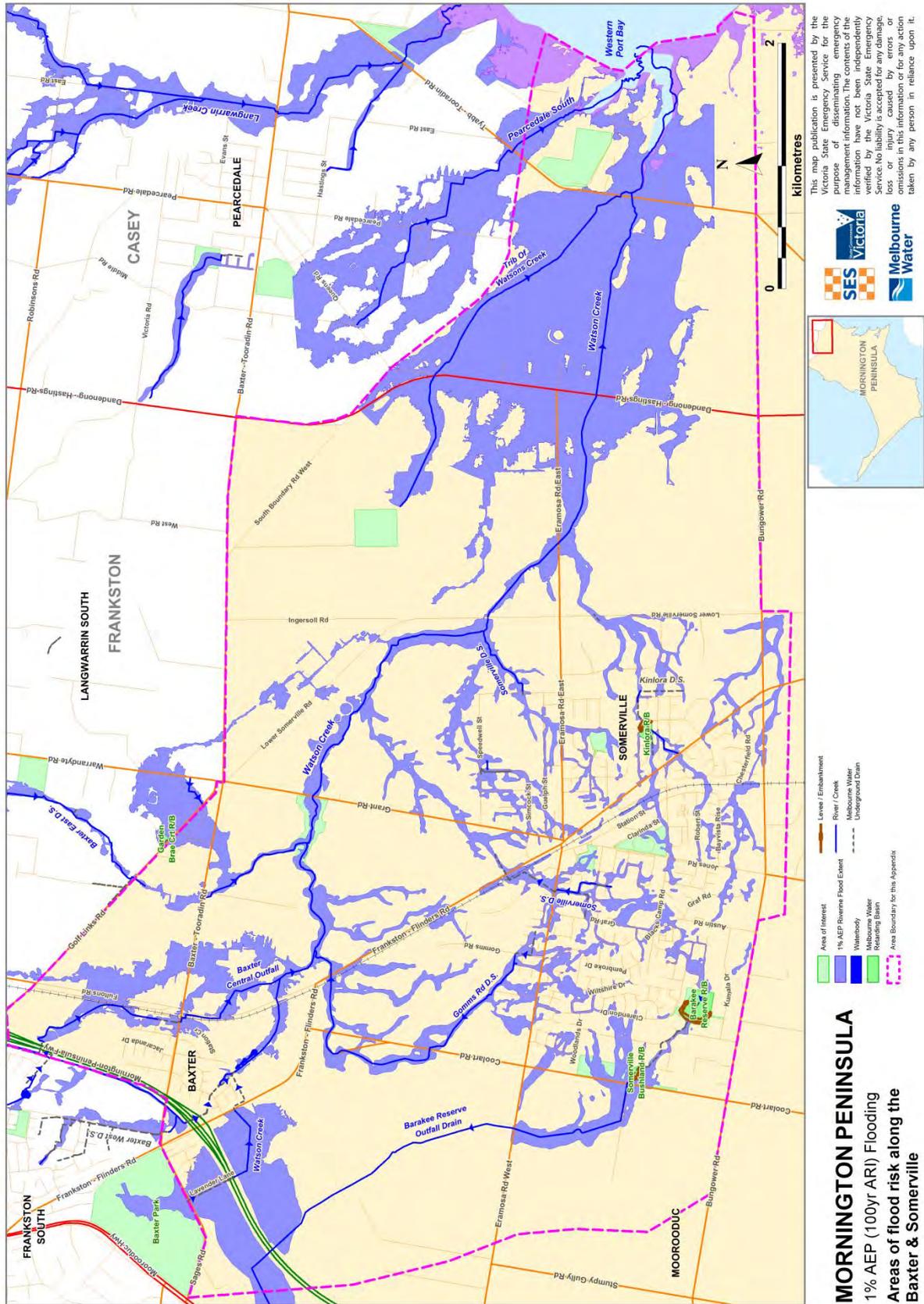


Figure C6 – Areas of flood risk around Baxter & Somerville in the Mornington Peninsula

## PROPERTIES AT FLOOD RISK

Properties listed in the table below are at risk from flooding in Baxter & Somerville. As more intelligence becomes available, this list may change. This table has been populated based on modelling work as part of the Watson Creek (Melbourne Water, July 2014) and the Somerville (Melbourne Water and URS, Feb 2014) flood mapping and risk assessment programs.

*This Property Flood Risk Table is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.*

Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville			
Residential	Commercial	Industrial	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse
7	Angelina Way	Somerville	Somerville Drain System
25	Angelina Way	Somerville	Somerville Drain System
1	Anne Close	Somerville	Gomms Road Drain System
3	Anne Close	Somerville	Gomms Road Drain System
4	Anne Close	Somerville	Gomms Road Drain System
5	Anne Close	Somerville	Gomms Road Drain System
6	Anne Close	Somerville	Gomms Road Drain System
20	Applewood Rise	Somerville	Local Drainage
12	Austral Crescent	Baxter	Baxter West Drain
18	Austral Crescent	Baxter	Baxter West Drain
20	Austral Crescent	Baxter	Baxter West Drain
21	Austral Crescent	Baxter	Baxter West Drain
22	Austral Crescent	Baxter	Baxter West Drain
23	Austral Crescent	Baxter	Baxter West Drain
24	Austral Crescent	Baxter	Baxter West Drain
25	Austral Crescent	Baxter	Baxter West Drain
26	Austral Crescent	Baxter	Baxter West Drain
27	Austral Crescent	Baxter	Baxter West Drain
28	Austral Crescent	Baxter	Baxter West Drain
29	Austral Crescent	Baxter	Baxter West Drain
30	Austral Crescent	Baxter	Baxter West Drain
32	Austral Crescent	Baxter	Baxter West Drain
33	Austral Crescent	Baxter	Baxter West Drain
34	Austral Crescent	Baxter	Baxter West Drain
35	Austral Crescent	Baxter	Baxter West Drain
37	Austral Crescent	Baxter	Baxter West Drain
41	Austral Crescent	Baxter	Baxter West Drain
43	Austral Crescent	Baxter	Baxter West Drain
45	Austral Crescent	Baxter	Baxter West Drain
49	Austral Crescent	Baxter	Baxter West Drain
53	Austral Crescent	Baxter	Baxter West Drain
55	Austral Crescent	Baxter	Baxter West Drain
57	Austral Crescent	Baxter	Baxter West Drain
1/59	Austral Crescent	Baxter	Baxter West Drain
2/59	Austral Crescent	Baxter	Baxter West Drain

**Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville**

Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	
84	Baxter-Tooradin Road	Baxter	Baxter Central Outfall Drain	
86	Baxter-Tooradin Road	Baxter	Baxter Central Outfall Drain	
88	Baxter-Tooradin Road	Baxter	Baxter Central Outfall Drain	
90	Baxter-Tooradin Road	Baxter	Baxter Central Outfall Drain	
92	Baxter-Tooradin Road	Baxter	Baxter Central Outfall Drain	
94	Baxter-Tooradin Road	Baxter	Baxter Central Outfall Drain	
95	Baxter-Tooradin Road	Baxter	Baxter Central Outfall Drain	
105	Baxter-Tooradin Road	Baxter	Baxter Central Outfall Drain	
111	Baxter-Tooradin Road	Baxter	Baxter Central Outfall Drain	
117A	Baxter-Tooradin Road	Baxter	Baxter Central Outfall Drain	
161	Baxter-Tooradin Road	Baxter	Baxter Central Outfall Drain	
178	Baxter-Tooradin Road	Baxter	Baxter East Drain	
180	Baxter-Tooradin Road	Baxter	Baxter East Drain	
182	Baxter-Tooradin Road	Baxter	Baxter East Drain	
184	Baxter-Tooradin Road	Baxter	Baxter East Drain	
186	Baxter-Tooradin Road	Baxter	Baxter East Drain	
188	Baxter-Tooradin Road	Baxter	Baxter East Drain	
190	Baxter-Tooradin Road	Baxter	Baxter East Drain	
192	Baxter-Tooradin Road	Baxter	Baxter East Drain	
194	Baxter-Tooradin Road	Baxter	Baxter East Drain	
196	Baxter-Tooradin Road	Baxter	Baxter East Drain	
198	Baxter-Tooradin Road	Baxter	Baxter East Drain	
200	Baxter-Tooradin Road	Baxter	Baxter East Drain	
235	Baxter-Tooradin Road	Baxter	Baxter East Drain	
9	Bayvista Rise	Somerville	Kinlora Road Drain	
22	Bayvista Rise	Somerville	Kinlora Road Drain	
26	Bayvista Rise	Somerville	Kinlora Road Drain	
4	Bernard Court	Somerville	Kinlora Road Drain	
5	Bernard Court	Somerville	Kinlora Road Drain	
6	Bernard Court	Somerville	Kinlora Road Drain	
7	Bernard Court	Somerville	Kinlora Road Drain	
8	Bernard Court	Somerville	Kinlora Road Drain	
5	Black Wattle Place	Somerville	Local Drainage	
11	Black Wattle Place	Somerville	Local Drainage	
15	Black Wattle Place	Somerville	Local Drainage	
25	Bruce Drive	Somerville	Somerville Drain System	
27	Bruce Drive	Somerville	Somerville Drain System	
29	Bruce Drive	Somerville	Somerville Drain System	
7	Bushy Court	Somerville	Kinlora Road Drain	
35	Callum Avenue	Somerville	Barakee Reserve Outfall Drain	
34	Callum Avenue	Somerville	Barakee Reserve Outfall Drain	
4	Callum Avenue	Somerville	Barakee Reserve Outfall Drain	
3	Callum Avenue	Somerville	Barakee Reserve Outfall Drain	
2	Callum Avenue	Somerville	Barakee Reserve Outfall Drain	

**Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville**

Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	
1	Callum Avenue	Somerville	Barakee Reserve Outfall Drain	
2	Carrup Place	Somerville	Local Drainage	
5	Carrup Place	Somerville	Local Drainage	
3	Cassandra Close	Somerville	Gomms Road Drain System	
5	Cassandra Close	Somerville	Gomms Road Drain System	
29	Chesterfield Road	Somerville	Local Drainage	
31	Chesterfield Road	Somerville	Local Drainage	
53	Clarendon Drive	Somerville	Barakee Reserve Outfall Drain	
62	Clarendon Drive	Somerville	Barakee Reserve Outfall Drain	
64	Clarendon Drive	Somerville	Barakee Reserve Outfall Drain	
66	Clarendon Drive	Somerville	Barakee Reserve Outfall Drain	
68	Clarendon Drive	Somerville	Barakee Reserve Outfall Drain	
70	Clarendon Drive	Somerville	Barakee Reserve Outfall Drain	
78	Clarendon Drive	Somerville	Barakee Reserve Outfall Drain	
80	Clarendon Drive	Somerville	Barakee Reserve Outfall Drain	
144	Clarendon Drive	Somerville	Barakee Reserve Outfall Drain	
142	Clarendon Drive	Somerville	Barakee Reserve Outfall Drain	
143	Clarendon Drive	Somerville	Barakee Reserve Outfall Drain	
145	Clarendon Drive	Somerville	Barakee Reserve Outfall Drain	
147	Clarendon Drive	Somerville	Barakee Reserve Outfall Drain	
160	Clarendon Drive	Somerville	Barakee Reserve Outfall Drain	
162	Clarendon Drive	Somerville	Barakee Reserve Outfall Drain	
146	Clarendon Drive	Somerville	Barakee Reserve Outfall Drain	
148	Clarendon Drive	Somerville	Barakee Reserve Outfall Drain	
8	Colchester Court	Somerville	Gomms Road Drain System	
9	Colchester Court	Somerville	Gomms Road Drain System	
10	Colchester Court	Somerville	Gomms Road Drain System	
12	Compass Court	Somerville	Local Drainage	
266	Coolart Road	Moorooduc	Barakee Reserve Outfall Drain	
385	Coolart Road	Somerville	Local Drainage	
71	Dandenong-Hastings Road	Somerville	Watson Creek	
93	Dandenong-Hastings Road	Somerville	Watson Creek	
95	Dandenong-Hastings Road	Somerville	Watson Creek	
97	Dandenong-Hastings Road	Somerville	Watson Creek	
99	Dandenong-Hastings Road	Somerville	Watson Creek	
101	Dandenong-Hastings Road	Somerville	Watson Creek	
8	David Close	Somerville	Barakee Reserve Outfall Drain	
31	Deanswood Drive	Somerville	Kinlora Road Drain	
33	Deanswood Drive	Somerville	Kinlora Road Drain	
34	Deanswood Drive	Somerville	Kinlora Road Drain	
36	Deanswood Drive	Somerville	Kinlora Road Drain	
38	Deanswood Drive	Somerville	Kinlora Road Drain	
40	Deanswood Drive	Somerville	Kinlora Road Drain	
42	Deanswood Drive	Somerville	Kinlora Road Drain	

**Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville**

Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	
44	Deanswood Drive	Somerville	Kinlora Road Drain	
1	Diane Court	Somerville	Gomms Road Drain System	
1	Dominic Mews	Somerville	Gomms Road Drain System	
2	Dominic Mews	Somerville	Gomms Road Drain System	
3	Dominic Mews	Somerville	Gomms Road Drain System	
16	Dominic Mews	Somerville	Gomms Road Drain System	
17	Dominic Mews	Somerville	Gomms Road Drain System	
18	Dominic Mews	Somerville	Gomms Road Drain System	
13	Drovers Lane	Somerville	Kinlora Road Drain	
21	Drovers Lane	Somerville	Kinlora Road Drain	
4	Dudley Court	Somerville	Gomms Road Drain System	
5	Dudley Court	Somerville	Gomms Road Drain System	
6	Dudley Court	Somerville	Gomms Road Drain System	
7	Dudley Court	Somerville	Gomms Road Drain System	
10	Dudley Court	Somerville	Gomms Road Drain System	
7	Elaine Court	Somerville	Gomms Road Drain System	
9	Elaine Court	Somerville	Gomms Road Drain System	
15	Eliza Place	Somerville	Gomms Road Drain System	
5	Eramosa Road East	Somerville	Somerville Drain System	
7	Eramosa Road East	Somerville	Somerville Drain System	
9	Eramosa Road East	Somerville	Somerville Drain System	
11	Eramosa Road East	Somerville	Somerville Drain System	
12	Eramosa Road East	Somerville	Somerville Drain System	
13	Eramosa Road East	Somerville	Somerville Drain System	
15	Eramosa Road East	Somerville	Somerville Drain System	
19	Eramosa Road East	Somerville	Somerville Drain System	
3/78	Eramosa Road East	Somerville	Somerville Drain System	
4/78	Eramosa Road East	Somerville	Somerville Drain System	
3/82	Eramosa Road East	Somerville	Somerville Drain System	
4/82	Eramosa Road East	Somerville	Somerville Drain System	
143	Eramosa Road East	Somerville	Watson Creek	
157	Eramosa Road East	Somerville	Watson Creek	
161	Eramosa Road East	Somerville	Watson Creek	
166	Eramosa Road East	Somerville	Watson Creek	
170	Eramosa Road East	Somerville	Watson Creek	
174	Eramosa Road East	Somerville	Watson Creek	
182	Eramosa Road East	Somerville	Watson Creek	
1/24	Eramosa Road West	Somerville	Somerville Drain System	
2/24	Eramosa Road West	Somerville	Somerville Drain System	
3/24	Eramosa Road West	Somerville	Somerville Drain System	
4/24	Eramosa Road West	Somerville	Somerville Drain System	
26	Eramosa Road West	Somerville	Somerville Drain System	
1/28	Eramosa Road West	Somerville	Somerville Drain System	
2/28	Eramosa Road West	Somerville	Somerville Drain System	

**Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville**

Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	
3/28	Eramosa Road West	Somerville	Somerville Drain System	
4/28	Eramosa Road West	Somerville	Somerville Drain System	
5/28	Eramosa Road West	Somerville	Somerville Drain System	
70	Eramosa Road West	Somerville	Gomms Road Drain System	
4/72	Eramosa Road West	Somerville	Gomms Road Drain System	
5/72	Eramosa Road West	Somerville	Gomms Road Drain System	
99	Eramosa Road West	Somerville	Gomms Road Drain System	
101	Eramosa Road West	Somerville	Gomms Road Drain System	
146	Eramosa Road West	Somerville	Gomms Road Drain System	
168	Eramosa Road West	Somerville	Gomms Road Drain System	
7	Fay Court	Somerville	Gomms Road Drain System	
10	Fay Court	Somerville	Gomms Road Drain System	
11	Fay Court	Somerville	Gomms Road Drain System	
1067	Frankston-Flinders Road	Somerville	Somerville Drain System	
1/1071	Frankston-Flinders Road	Somerville	Somerville Drain System	
2/1071	Frankston-Flinders Road	Somerville	Somerville Drain System	
3/1071	Frankston-Flinders Road	Somerville	Somerville Drain System	
4/1071	Frankston-Flinders Road	Somerville	Somerville Drain System	
1079	Frankston-Flinders Road	Somerville	Somerville Drain System	
1081	Frankston-Flinders Road	Somerville	Somerville Drain System	
6/1170	Frankston-Flinders Road	Somerville	Somerville Drain System	
7/1170	Frankston-Flinders Road	Somerville	Somerville Drain System	
8/1170	Frankston-Flinders Road	Somerville	Somerville Drain System	
1173	Frankston-Flinders Road	Somerville	Somerville Drain System	
1178	Frankston-Flinders Road	Somerville	Somerville Drain System	
1/1180	Frankston-Flinders Road	Somerville	Somerville Drain System	
50-68	Fultons Road	Baxter	Baxter Central Outfall Drain	
70-88	Fultons Road	Baxter	Baxter Central Outfall Drain	
34	George Street	Somerville	Somerville Drain System	
344	Golf Links Road	Baxter	Baxter East Drain	
346	Golf Links Road	Baxter	Baxter East Drain	
348	Golf Links Road	Baxter	Baxter East Drain	
350	Golf Links Road	Baxter	Baxter East Drain	
352	Golf Links Road	Baxter	Baxter East Drain	
354	Golf Links Road	Baxter	Baxter East Drain	
360	Golf Links Road	Baxter	Baxter East Drain	
362	Golf Links Road	Baxter	Baxter East Drain	
364	Golf Links Road	Baxter	Baxter East Drain	
368	Golf Links Road	Baxter	Baxter East Drain	
370	Golf Links Road	Baxter	Baxter East Drain	
372	Golf Links Road	Baxter	Baxter East Drain	
374	Golf Links Road	Baxter	Baxter East Drain	
376	Golf Links Road	Baxter	Baxter East Drain	
378	Golf Links Road	Baxter	Baxter East Drain	

**Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville**

Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	
382	Golf Links Road	Baxter	Baxter East Drain	
13	Gomms Road	Somerville	Gomms Road Drain System	
14	Gomms Road	Somerville	Gomms Road Drain System	
16	Gomms Road	Somerville	Gomms Road Drain System	
18-20	Gomms Road	Somerville	Gomms Road Drain System	
22	Gomms Road	Somerville	Gomms Road Drain System	
25	Graf Road	Somerville	Somerville Drain System	
27	Graf Road	Somerville	Somerville Drain System	
29	Graf Road	Somerville	Somerville Drain System	
1/5	Grant Road	Somerville	Somerville Drain System	
9	Grant Road	Somerville	Somerville Drain System	
16	Grant Road	Somerville	Watson Creek	
18	Grant Road	Somerville	Watson Creek	
20	Grant Road	Somerville	Watson Creek	
26	Grant Road	Somerville	Watson Creek	
1/7	Guelph Street	Somerville	Somerville Drain System	
2/7	Guelph Street	Somerville	Somerville Drain System	
5/7	Guelph Street	Somerville	Somerville Drain System	
6/7	Guelph Street	Somerville	Somerville Drain System	
7/7	Guelph Street	Somerville	Somerville Drain System	
2/11	Guelph Street	Somerville	Somerville Drain System	
3/11	Guelph Street	Somerville	Somerville Drain System	
1/13	Guelph Street	Somerville	Somerville Drain System	
7/13	Guelph Street	Somerville	Somerville Drain System	
8/13	Guelph Street	Somerville	Somerville Drain System	
9/13	Guelph Street	Somerville	Somerville Drain System	
10/13	Guelph Street	Somerville	Somerville Drain System	
20	Guelph Street	Somerville	Somerville Drain System	
1/34	Guelph Street	Somerville	Somerville Drain System	
2/34	Guelph Street	Somerville	Somerville Drain System	
3/34	Guelph Street	Somerville	Somerville Drain System	
63	Guelph Street	Somerville	Somerville Drain System	
5A	Imre Court	Baxter	Baxter West Drain	
6	Imre Court	Baxter	Baxter West Drain	
7	Imre Court	Baxter	Baxter West Drain	
8	Imre Court	Baxter	Baxter West Drain	
9	Imre Court	Baxter	Baxter West Drain	
10	Imre Court	Baxter	Baxter West Drain	
11	Imre Court	Baxter	Baxter West Drain	
12	Imre Court	Baxter	Baxter West Drain	
13	Imre Court	Baxter	Baxter West Drain	
14	Imre Court	Baxter	Baxter West Drain	
6	Inverness Court	Somerville	Local Drainage	
7A	Inverness Court	Somerville	Local Drainage	

**Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville**

Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	
3	Kent Place	Somerville	Barakee Reserve Outfall Drain	
4	Kent Place	Somerville	Barakee Reserve Outfall Drain	
1	Kevin Court	Somerville	Somerville Drain System	
5	Kevin Court	Somerville	Somerville Drain System	
1/4	Lavender Lane	Baxter	Baxter West Drain	
2/4	Lavender Lane	Baxter	Baxter West Drain	
3/4	Lavender Lane	Baxter	Baxter West Drain	
4/4	Lavender Lane	Baxter	Baxter West Drain	
7	Lavender Lane	Baxter	Baxter West Drain	
1/9	Lavender Lane	Baxter	Baxter West Drain	
2/9	Lavender Lane	Baxter	Baxter West Drain	
3/9	Lavender Lane	Baxter	Baxter West Drain	
4/9	Lavender Lane	Baxter	Baxter West Drain	
5/9	Lavender Lane	Baxter	Baxter West Drain	
6/9	Lavender Lane	Baxter	Baxter West Drain	
7/9	Lavender Lane	Baxter	Baxter West Drain	
10	Lavender Lane	Baxter	Baxter West Drain	
12	Lavender Lane	Baxter	Baxter West Drain	
14	Lavender Lane	Baxter	Baxter West Drain	
16	Lavender Lane	Baxter	Baxter West Drain	
17	Lavender Lane	Baxter	Baxter West Drain	
18	Lavender Lane	Baxter	Baxter West Drain	
19	Lavender Lane	Baxter	Baxter West Drain	
20	Lavender Lane	Baxter	Baxter West Drain	
21	Lavender Lane	Baxter	Baxter West Drain	
22	Lavender Lane	Baxter	Baxter West Drain	
23	Lavender Lane	Baxter	Baxter West Drain	
24	Lavender Lane	Baxter	Baxter West Drain	
26	Lavender Lane	Baxter	Baxter West Drain	
28	Lavender Lane	Baxter	Baxter West Drain	
30	Lavender Lane	Baxter	Baxter West Drain	
32	Lavender Lane	Baxter	Baxter West Drain	
34	Lavender Lane	Baxter	Baxter West Drain	
36	Lavender Lane	Baxter	Baxter West Drain	
38	Lavender Lane	Baxter	Baxter West Drain	
1	Lemongrass Court	Baxter	Baxter West Drain	
2	Lemongrass Court	Baxter	Baxter West Drain	
3	Lemongrass Court	Baxter	Baxter West Drain	
4	Lemongrass Court	Baxter	Baxter West Drain	
5	Lemongrass Court	Baxter	Baxter West Drain	
1/6	Lemongrass Court	Baxter	Baxter West Drain	
2/6	Lemongrass Court	Baxter	Baxter West Drain	
7	Lemongrass Court	Baxter	Baxter West Drain	
30	Lower Somerville Road	Somerville	Kinlora Road Drain	

**Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville**

Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	
32	Lower Somerville Road	Somerville	Kinlora Road Drain	
4	Majestic Drive	Somerville	Somerville Drain System	
6	Majestic Drive	Somerville	Somerville Drain System	
7	Michael Way	Somerville	Somerville Drain System	
9	Michael Way	Somerville	Somerville Drain System	
10	Michael Way	Somerville	Somerville Drain System	
1	Mimi Court	Somerville	Barakee Reserve Outfall Drain	
16	Mitch Court	Somerville	Gomms Road Drain System	
17	Mitch Court	Somerville	Gomms Road Drain System	
18	Mitch Court	Somerville	Gomms Road Drain System	
19	Mitch Court	Somerville	Gomms Road Drain System	
20	Mitch Court	Somerville	Gomms Road Drain System	
3	Ninalee Way	Somerville	Barakee Reserve Outfall Drain	
5	Ninalee Way	Somerville	Barakee Reserve Outfall Drain	
15	Nottingham Avenue	Somerville	Somerville Drain System	
31	Nottingham Avenue	Somerville	Somerville Drain System	
6	One Chain Road	Somerville	Somerville Drain System	
4	Pembroke Drive	Somerville	Gomms Road Drain System	
7	Pembroke Drive	Somerville	Gomms Road Drain System	
8	Pembroke Drive	Somerville	Gomms Road Drain System	
10	Pembroke Drive	Somerville	Gomms Road Drain System	
23	Petalnina Close	Somerville	Kinlora Road Drain	
24	Petalnina Close	Somerville	Kinlora Road Drain	
25	Petalnina Close	Somerville	Kinlora Road Drain	
1	Raglin Close	Somerville	Gomms Road Drain System	
2	Raglin Close	Somerville	Gomms Road Drain System	
3	Raglin Close	Somerville	Gomms Road Drain System	
2/6	Raymond Street	Somerville	Somerville Drain System	
3/6	Raymond Street	Somerville	Somerville Drain System	
4/6	Raymond Street	Somerville	Somerville Drain System	
5/6	Raymond Street	Somerville	Somerville Drain System	
4/8	Raymond Street	Somerville	Somerville Drain System	
5/8	Raymond Street	Somerville	Somerville Drain System	
6/8	Raymond Street	Somerville	Somerville Drain System	
4/10	Raymond Street	Somerville	Somerville Drain System	
5/10	Raymond Street	Somerville	Somerville Drain System	
3/32	Robert Street	Somerville	Kinlora Road Drain	
1/34	Robert Street	Somerville	Kinlora Road Drain	
46	Robert Street	Somerville	Kinlora Road Drain	
4	Ronald Court	Somerville	Somerville Drain System	
5	Ronald Court	Somerville	Somerville Drain System	
7	Roslyn Street	Somerville	Somerville Drain System	
9	Roslyn Street	Somerville	Somerville Drain System	
11	Ruby Joy Drive	Somerville	Kinlora Road Drain	

**Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville**

Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	
18	Ruby Joy Drive	Somerville	Kinlora Road Drain	
20	Ruby Joy Drive	Somerville	Kinlora Road Drain	
22	Ruby Joy Drive	Somerville	Kinlora Road Drain	
29	Sages Road	Baxter	Baxter West Drain	
31	Sages Road	Baxter	Baxter West Drain	
33	Sages Road	Baxter	Baxter West Drain	
35	Sages Road	Baxter	Baxter West Drain	
37	Sages Road	Baxter	Baxter West Drain	
1	Sandown Court	Somerville	Gomms Road Drain System	
6	Sandown Court	Somerville	Gomms Road Drain System	
2/21	Simcock Street	Somerville	Somerville Drain System	
3/21	Simcock Street	Somerville	Somerville Drain System	
4/21	Simcock Street	Somerville	Somerville Drain System	
1/23	Simcock Street	Somerville	Somerville Drain System	
2/23	Simcock Street	Somerville	Somerville Drain System	
16	Sinclair Street	Somerville	Somerville Drain System	
19	South Boundary Road	Somerville	Watson Creek	
29	South Boundary Road	Somerville	Watson Creek	
1	St Kilda Street	Baxter	Baxter East Drain	
2	St Kilda Street	Baxter	Baxter East Drain	
7	St Kilda Street	Baxter	Baxter East Drain	
8	St Kilda Street	Baxter	Baxter East Drain	
9	St Kilda Street	Baxter	Baxter East Drain	
10	St Kilda Street	Baxter	Baxter East Drain	
11	St Kilda Street	Baxter	Baxter East Drain	
12	St Kilda Street	Baxter	Baxter East Drain	
13	St Kilda Street	Baxter	Baxter East Drain	
14	St Kilda Street	Baxter	Baxter East Drain	
16	St Kilda Street	Baxter	Baxter East Drain	
18	St Kilda Street	Baxter	Baxter East Drain	
20	St Kilda Street	Baxter	Baxter East Drain	
1	Station Crescent	Baxter	Baxter Central Outfall Drain	
3	Station Crescent	Baxter	Baxter Central Outfall Drain	
5	Station Crescent	Baxter	Baxter Central Outfall Drain	
6	Station Crescent	Baxter	Baxter Central Outfall Drain	
7	Station Crescent	Baxter	Baxter Central Outfall Drain	
8	Station Crescent	Baxter	Baxter Central Outfall Drain	
9	Station Crescent	Baxter	Baxter Central Outfall Drain	
10	Station Crescent	Baxter	Baxter Central Outfall Drain	
11	Station Crescent	Baxter	Baxter Central Outfall Drain	
13A	Station Crescent	Baxter	Baxter Central Outfall Drain	
49	Station Street	Baxter	Baxter Central Outfall Drain	
21	Station Street	Somerville	Kinlora Road Drain	
23	Station Street	Somerville	Kinlora Road Drain	

**Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville**

Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	
19	Stephens Place	Somerville	Barakee Reserve Outfall Drain	
21	Stephens Place	Somerville	Barakee Reserve Outfall Drain	
23	Stephens Place	Somerville	Barakee Reserve Outfall Drain	
24	Stephens Place	Somerville	Barakee Reserve Outfall Drain	
25	Stephens Place	Somerville	Barakee Reserve Outfall Drain	
26	Stephens Place	Somerville	Barakee Reserve Outfall Drain	
27	Stephens Place	Somerville	Barakee Reserve Outfall Drain	
28	Stephens Place	Somerville	Barakee Reserve Outfall Drain	
30	Stephens Place	Somerville	Barakee Reserve Outfall Drain	
34	Stephens Place	Somerville	Barakee Reserve Outfall Drain	
32	Sullivan Drive	Somerville	Somerville Drain System	
34	Sullivan Drive	Somerville	Somerville Drain System	
5	Swamp Gum Place	Somerville	Local Drainage	
6	Swamp Gum Place	Somerville	Local Drainage	
7	Swamp Gum Place	Somerville	Local Drainage	
8	Swamp Gum Place	Somerville	Local Drainage	
9	Swamp Gum Place	Somerville	Local Drainage	
10	Swamp Gum Place	Somerville	Local Drainage	
11	Swamp Gum Place	Somerville	Local Drainage	
18	Sweet Wattle Place	Somerville	Kinlora Road Drain	
19	Sweet Wattle Place	Somerville	Kinlora Road Drain	
22	Sweet Wattle Place	Somerville	Kinlora Road Drain	
23	Sweet Wattle Place	Somerville	Kinlora Road Drain	
19	Sydney Street	Somerville	Somerville Drain System	
6	The Heights	Somerville	Kinlora Road Drain	
3	The Outlook	Somerville	Kinlora Road Drain	
4	The Outlook	Somerville	Kinlora Road Drain	
3	The Rise	Somerville	Kinlora Road Drain	
4	The Rise	Somerville	Kinlora Road Drain	
3	The Terrace	Somerville	Kinlora Road Drain	
6	The Terrace	Somerville	Kinlora Road Drain	
38	Thomas Street	Baxter	Baxter Central Outfall Drain	
40	Thomas Street	Baxter	Baxter Central Outfall Drain	
42	Thomas Street	Baxter	Baxter Central Outfall Drain	
13	Toorak Avenue	Baxter	Baxter East Drain	
15	Toorak Avenue	Baxter	Baxter East Drain	
17	Toorak Avenue	Baxter	Baxter East Drain	
19	Toorak Avenue	Baxter	Baxter East Drain	
21	Toorak Avenue	Baxter	Baxter East Drain	
22	Toorak Avenue	Baxter	Baxter East Drain	
23	Toorak Avenue	Baxter	Baxter East Drain	
24	Toorak Avenue	Baxter	Baxter East Drain	
24A	Toorak Avenue	Baxter	Baxter East Drain	
25	Toorak Avenue	Baxter	Baxter East Drain	

Properties at risk from Flooding during a 1% AEP event in Baxter & Somerville				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	
26	Toorak Avenue	Baxter	Baxter East Drain	
27	Toorak Avenue	Baxter	Baxter East Drain	
28	Toorak Avenue	Baxter	Baxter East Drain	
29	Toorak Avenue	Baxter	Baxter East Drain	
30	Toorak Avenue	Baxter	Baxter East Drain	
31	Toorak Avenue	Baxter	Baxter East Drain	
32	Toorak Avenue	Baxter	Baxter East Drain	
33	Toorak Avenue	Baxter	Baxter East Drain	
34	Toorak Avenue	Baxter	Baxter East Drain	
35	Toorak Avenue	Baxter	Baxter East Drain	
36	Toorak Avenue	Baxter	Baxter East Drain	
37	Toorak Avenue	Baxter	Baxter East Drain	
39	Toorak Avenue	Baxter	Baxter East Drain	
40	Toorak Avenue	Baxter	Baxter East Drain	
41	Toorak Avenue	Baxter	Baxter East Drain	
42	Toorak Avenue	Baxter	Baxter East Drain	
43	Toorak Avenue	Baxter	Baxter East Drain	
45	Toorak Avenue	Baxter	Baxter East Drain	
47	Toorak Avenue	Baxter	Baxter East Drain	
100	Tyabb-Tooradin Road	Somerville	Watson Creek	
109	Tyabb-Tooradin Road	Somerville	Watson Creek	
8	Woodlands Drive	Somerville	Local Drainage	
10	Woodlands Drive	Somerville	Local Drainage	
12	Woodlands Drive	Somerville	Local Drainage	
29	Woodlands Drive	Somerville	Local Drainage	
9	Woodside Close	Somerville	Somerville Drain System	
15	Woodside Close	Somerville	Somerville Drain System	
16	Woodside Close	Somerville	Somerville Drain System	
<b>Total</b>				
<b>459</b>				

Table C6.2 – Properties at risk of flooding around Baxter & Somerville

## ISOLATION

No major isolation risks exist for areas around Baxter and Somerville during a 1% AEP (100yr ARI) event. Some localised short-duration isolation may occur due to flash flooding.

## ESSENTIAL INFRASTRUCTURE

During an event, see the Public Transport Victoria's Website for details on delays or alterations to services. <http://ptv.vic.gov.au/live-travel-updates/>

Apart from the roads outlined below, all other essential infrastructure and services areas around Baxter and Somerville are expected to remain unaffected by flooding during a 1% AEP (100yr ARI) event.

## ROAD CLOSURES

The following roads are subject to closure during flooding around Baxter and Somerville. Check the VicRoads website for more details: <http://alerts.vicroads.vic.gov.au/>

VicRoads Roads flooded in a 1% AEP (100yr ARI) event	
•	Baxter - Tooradin Road, Baxter at Stotts Road; at Station Crescent; and between Fultons Road and Grant Road
•	Dandenong - Hastings Road, Somerville south of Watsons Creek
•	Grant Street, Somerville at various locations between Baxter - Tooradin Road and Eramosa Road East
•	Sages Road, Baxter at Baxter Park and Austral Crescent

Table C6.3 – VicRoads Possible Road Closures during a flooding event

Mornington Peninsula Council Roads flooded in a 1% AEP (100yr ARI) event			
<b>BAXTER</b>	• Lower Somerville Road	• Coolart Road	• South Boundary Road East
• Austral Crescent	• St Kilda Street	• Eramosa Road East	• Stanley Street
• Fultons Road	• Station Crescent	• Eramosa Road West	• Station Street
• Golf Links Road	• Station Street	• Lower Somerville Road	• Stephens Place
• Hawkins Road	• Toorak Avenue	• Majestic Drive	• The Rise
• Imre Court	<b>SOMERVILLE</b>	• Raymond Street	• Tyabb - Tooradin Road
• Lavender Lane	• Clairmont Close	• Robert Street	• Wiltshire Drive
• Lemongrass Court	• Clarendon Drive	• Simcock Street	• Woodlands Drive

Table C6.4 – Mornington Peninsula Council Possible Road Closures during a flooding event

## FLOOD MITIGATION

### RETARDING BASINS

Melbourne Water Retarding Basin	On Drain/ Waterway	Area	Storage Capacity	Spillway Crest Level	Full Supply Level	Embankment Crest Level	ANCOLD Hazard Rating	Houses In Flow Path (dam breach)	Melway Reference
Barakee Reserve	Barakee Reserve Outfall Drain	74.85 AHD	74.85 AHD	2m 75.25 AHD	44 ML	Significant	0	148 B2	
Garden Brae Court	Baxter East D.S.	Unknown	Unknown	Unknown	4m	0.5MI	Very Low	0	107 F4
Kinlora	Kinlora D.S.	41.8m AHD	41.8m AHD	3.5m 42m AHD	22 ML	Low	Unavailable	148 H2	
Somerville Bushland	Barakee Reserve Outfall Drain	67.3m AHD	67.3m AHD	1.5m 67.8m AHD	5.3 ML	Very Low	0	148A2	

Table C6.5 – Melbourne Water Retarding Basins within the around Baxter and Somerville

No formal Pumping Stations or Levees exist around Baxter and Somerville.

## COMMAND, CONTROL & COORDINATION

VICSES will assume overall control of the response to flood incidents. Other agencies will be requested to support operations as detailed in this Plan. Control and coordination of a flood incident shall be carried out at the lowest effective level and in accordance with the State Emergency Response Plan (EMMV Part 3). During significant events, VICSES will conduct incident management using multi-agency resources.

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## FLOOD IMPACTS & REQUIRED ACTIONS

The table below is a breakdown of the number of properties flooded in a 1% AEP (100yr ARI) event. Refer to the following intelligence cards for Baxter and Somerville for more details.

Land Use Flooded in a 1% AEP Event	Total
Residential	405
Commercial	23
Industrial	9
Public Land	1
Rural	21
<b>Total</b>	<b>459</b>

Table C6.6 – Breakdown of likely land use flooded around Baxter and Somerville during a 1% AEP event

## FLOOD INTELLIGENCE CARD – BAXTER (UNGAUGED)

Version 1 – July 2017



*Note: flood intelligence records are approximations. This is because no two floods at a location, even if they peak at the same height, will have identical impacts. Flood intelligence cards detail the relationship between flood magnitude and flood consequences. More details about flood intelligence and its use can be found in the Australian Emergency Management Manuals flood series.*

*This Flood Intelligence Card publication is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.*

CLOSEST RAIN GAUGE	<b>Moorooduc (Devilbend Reservoir) Rain Gauge</b>
LOCATION	<b>Devilbend Reservoir Spillway, Graydens Road, Moorooduc</b>
MELWAY REF:	<b>152 H2</b>

GAUGE NUMBER	<b>586206</b>
GAUGE TYPE	<b>Rain</b>
TELEMETRIC/MANUAL	<b>Telemetric</b>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
21mm in 10 mins; 33mm in 30 mins; 42mm in 1 hour; 53mm in 2 hours; or 77mm in 6 hours;  Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.	1% AEP (100 year ARI)	<b>Properties at Flood Risk</b> <b>179 Properties in Total</b> <b>Baxter Central Outfall Drain</b> <ul style="list-style-type: none"> <li>• 84, 86, 88, 90, 92, 94, 95, 105, 111, 117A &amp; 161 Baxter-Tooradin Road, Baxter</li> <li>• 50-68 &amp; 70-88 Fultons Road, Baxter</li> <li>• 1, 3, 5, 6, 7, 8, 9, 10, 11, 13A &amp; 49 Station Crescent, Baxter</li> <li>• 38, 40 &amp; 42 Thomas Street, Baxter</li> </ul> <b>Baxter East Drain</b> <ul style="list-style-type: none"> <li>• 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200 &amp; 235 Baxter-Tooradin Road, Baxter</li> <li>• 344, 346, 348, 350, 352, 354, 360, 362, 364, 368, 370, 372, 374, 376, 378 &amp; 382 Golf Links Road, Baxter</li> <li>• 1, 2, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18 &amp; 20 St Kilda Street, Baxter</li> <li>• 13, 15, 17, 19, 21, 22, 23, 24, 24A, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 39, 40, 41, 42, 43, 45 &amp; 47 Toorak Avenue, Baxter</li> <li>• 12, 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 37, 41, 43, 45, 49, 53, 55, 57 &amp; Units 1-2/59 Austral Crescent, Baxter</li> <li>• 5A, 6, 7, 8, 9, 10, 11, 12, 13 &amp; 14 Imre Court, Baxter</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• Units 1-4/4, 7, Units 1-7/9, 10, 12, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 28, 30, 32, 34, 36 &amp; 38 Lavender Lane, Baxter</li> <li>• 1, 2, 3, 4, 5, 1/6, 2/6 &amp; 7 Lemongrass Court, Baxter</li> <li>• 29, 31, 33, 35 &amp; 37 Sages Road, Baxter</li> </ul> <p><b>Community Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>• Baxter Childcare Centre at 111 Baxter-Tooradin Road, Baxter</li> <li>• The Mornington Peninsula Tourist Railway Line likely flooded north of Baxter Station and west of Frankston-Flinders Road, Baxter</li> </ul> <p><b>Essential Infrastructure Impacted</b></p> <ul style="list-style-type: none"> <li>• The Baxter Telephone Exchange on Baxter – Tooradin Road, may experience flooding from Baxter Central Outfall Drain</li> </ul> <p><b>Water Over Road</b></p> <ul style="list-style-type: none"> <li>• Austral Crescent</li> <li>• Fultons Road</li> <li>• Golf Links Road</li> <li>• Hawkins Road</li> <li>• Imre Court</li> <li>• Lavender Lane</li> <li>• Lemongrass Court</li> <li>• Lower Somerville Road</li> <li>• St Kilda Street</li> <li>• Station Crescent</li> <li>• Station Street</li> <li>• Toorak Avenue</li> </ul>	

Table C6.7 – Breakdown of possible consequences at various rainfall intensities around Baxter with operational considerations

## FLOOD INTELLIGENCE CARD – SOMERVILLE (UNGAUGED)

Version 1 – July 2017



*Note: flood intelligence records are approximations. This is because no two floods at a location, even if they peak at the same height, will have identical impacts. Flood intelligence cards detail the relationship between flood magnitude and flood consequences. More details about flood intelligence and its use can be found in the Australian Emergency Management Manuals flood series.*

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CLOSEST RAIN GAUGE	<b>Moorooduc (Devilbend Reservoir) Rain Gauge</b>
LOCATION	<b>Devilbend Reservoir Spillway, Graydens Road, Moorooduc</b>
MELWAY REF:	<b>152 H2</b>

GAUGE NUMBER	<b>586206</b>
GAUGE TYPE	<b>Rain</b>
TELEMETRIC/MANUAL	<b>Telemetric</b>

Design Rainfall Depths (mm) – <i>Indication of Possible Flooding</i>	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
21mm in 10 mins; 33mm in 30 mins; 42mm in 1 hour; 53mm in 2 hours; or 77mm in 6 hours;  Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.	1% AEP (100 year ARI)	<b>Properties at Flood Risk</b> <b>240 Properties in Total</b> <b>Barakee Reserve Outfall Drain</b> <ul style="list-style-type: none"> <li>• 1, 2, 3, 4, 34 &amp; 35 Callum Avenue, Somerville</li> <li>• 53, 62, 64, 66, 68, 70, 78, 80, 142, 143, 144, 145, 146, 147, 148, 160 &amp; 162 Clarendon Drive, Somerville</li> <li>• 266 Coolart Road, Moorooduc</li> <li>• 8 David Close, Somerville</li> <li>• 3 &amp; 4 Kent Place, Somerville</li> <li>• 1 Mimi Court, Somerville</li> <li>• 3 &amp; 5 Ninalee Way, Somerville</li> <li>• 19, 21, 23, 24, 25, 26, 27, 28, 30 &amp; 34 Stephens Place, Somerville</li> </ul> <b>Gomms Road Drain System</b> <ul style="list-style-type: none"> <li>• 1, 3, 4, 5 &amp; 6 Anne Close, Somerville</li> <li>• 3 &amp; 5 Cassandra Close, Somerville</li> <li>• 8, 9 &amp; 10 Colchester Court, Somerville</li> <li>• 1 Diane Court, Somerville</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 1, 2, 3, 16, 17 &amp; 18 Dominic Mews, Somerville</li> <li>• 4, 5, 6, 7 &amp; 10 Dudley Court, Somerville</li> <li>• 7 &amp; 9 Elaine Court, Somerville</li> <li>• 15 Eliza Place, Somerville</li> <li>• 70, 4/72, 5/72, 99, 101, 146 &amp; 168 Eramosa Road, Somerville</li> <li>• 7, 10 &amp; 11 Fay Court, Somerville</li> <li>• 13, 14, 16, 18-20 &amp; 22 Gomms Road, Somerville</li> <li>• 16, 17, 18, 19 &amp; 20 Mitch Court, Somerville</li> <li>• 4, 7, 8 &amp; 10 Pembroke Drive, Somerville</li> <li>• 1, 2 &amp; 3 Raglin Close, Somerville</li> <li>• 1 &amp; 6 Sandown Court, Somerville</li> <li>• <b>Kinlora Road Drain</b></li> <li>• 9, 22 &amp; 26 Bayvista Rise, Somerville</li> <li>• 4, 5, 6, 7 &amp; 8 Bernard Court, Somerville</li> <li>• 7 Bushy Court, Somerville</li> <li>• 31, 33, 34, 36, 38, 40, 42 &amp; 44 Deanswood Drive, Somerville</li> <li>• 13 &amp; 21 Drovers Lane, Somerville</li> <li>• 30 &amp; 32 Lower Somerville Road, Somerville</li> <li>• 23, 24 &amp; 25 Petalnina Close, Somerville</li> <li>• 3/32, 1/34 &amp; 46 Robert Street, Somerville</li> <li>• 11, 18, 20 &amp; 22 Ruby Joy Drive, Somerville</li> <li>• 21 &amp; 23 Station Street, Somerville</li> <li>• 18, 19, 22 &amp; 23 Sweet Wattle Place, Somerville</li> <li>• 6 The Heights , Somerville</li> <li>• 3 &amp; 4 The Outlook , Somerville</li> <li>• 3 &amp; 4 The Rise , Somerville</li> <li>• 3 &amp; 6 The Terrace , Somerville</li> <li>• <b>Local Drainage</b></li> <li>• 20 Applewood Rise, Somerville</li> <li>• 5, 11 &amp; 15 Black Wattle Place, Somerville</li> <li>• 2 &amp; 5 Carrup Place, Somerville</li> <li>• 29 &amp; 31 Chesterfield Road, Somerville</li> <li>• 12 Compass Court, Somerville</li> <li>• 385 Coolart Road, Somerville</li> <li>• 6 &amp; 7A Inverness Court, Somerville</li> <li>• 5, 6, 7, 8, 9, 10 &amp; 11 Swamp Gum Place, Somerville</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 8, 10, 12 &amp; 29 Woodlands Drive, Somerville</li> <li>• <b>Somerville Drain System</b></li> <li>• 7 &amp; 25 Angelina Way, Somerville</li> <li>• 25, 27 &amp; 29 Bruce Drive, Somerville</li> <li>• 5, 7, 9, 11, 12, 13, 15, 19, 3/78, 4/78, 3/82 &amp; 4/82 Eramosa Road East, Somerville</li> <li>• Units 1-4/24, 26 &amp; Units 1-5/28 Eramosa Road West, Somerville</li> <li>• 1067, 1/1071, 2/1071, 3/1071, 4/1071, 1079, 1081, 6/1170, 7/1170, 8/1170, 1173, 1178 &amp; 1/1180 Frankston-Flinders Road, Somerville</li> <li>• 34 George Street, Somerville</li> <li>• 25, 27 &amp; 29 Graf Road, Somerville</li> <li>• 1/5 &amp; 9 Grant Road, Somerville</li> <li>• 1/7, 2/7, 5/7, 6/7, 7/7, 2/11, 3/11, 1/13, 7/13, 8/13, 9/13, 10/13, 20, Units 1-3/34 &amp; 63 Guelph Street, Somerville</li> <li>• 1 &amp; 5 Kevin Court, Somerville</li> <li>• 4 &amp; 6 Majestic Drive, Somerville</li> <li>• 7, 9 &amp; 10 Michael Way, Somerville</li> <li>• 15 &amp; 31 Nottingham Avenue, Somerville</li> <li>• 6 One Chain Road, Somerville</li> <li>• 2/6, 3/6, 4/6, 5/6, 4/8, 5/8, 6/8, 4/10 &amp; 5/10 Raymond Street, Somerville</li> <li>• 4 &amp; 5 Ronald Court, Somerville</li> <li>• 7 &amp; 9 Roslyn Street, Somerville</li> <li>• 2/21, 3/21, 4/21, 1/23 &amp; 2/23 Simcock Street, Somerville</li> <li>• 16 Sinclair Street, Somerville</li> <li>• 32 &amp; 34 Sullivan Drive, Somerville</li> <li>• 19 Sydney Street, Somerville</li> <li>• 9, 15 &amp; 16 Woodside Close, Somerville</li> <li>• <b>Watson Creek</b></li> <li>• 71, 93, 95, 97, 99 &amp; 101 Dandenong-Hastings Road, Somerville</li> <li>• 143, 157, 161, 166, 170, 174 &amp; 182 Eramosa Road, Somerville</li> <li>• 16, 18, 20 &amp; 26 Grant Road, Somerville</li> <li>• 19 &amp; 29 South Boundary Road, Somerville</li> <li>• 100 &amp; 109 Tyabb-Tooradin Road, Somerville</li> <li>• <b>Community Infrastructure Flooded</b></li> <li>• Eramosa Child Care Centre at 70 Eramosa Road, Somerville</li> <li>• <b>Water Over Road (over 300mm depth)</b></li> <li>• Clairmont Close</li> </ul>	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• Clarendon Drive</li> <li>• Coolart Road</li> <li>• Eramosa Road East</li> <li>• Eramosa Road West</li> <li>• Lower Somerville Road</li> <li>• Majestic Drive</li> <li>• Raymond Street</li> <li>• Robert Street</li> <li>• Simcock Street</li> <li>• South Boundary Road East at Tyabb - Tooradin Road</li> <li>• Stanley Street</li> <li>• Station Street</li> <li>• Stephens Place</li> <li>• The Rise</li> <li>• Tyabb - Tooradin Road</li> <li>• Wiltshire Drive</li> <li>• Woodlands Drive</li> </ul>	

Table C6.8 – Breakdown of possible consequences at various rainfall intensities around Somerville with operational considerations

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## APPENDIX D - FLOOD EVACUATION ARRANGEMENTS

### Phase 1 - Decision to Evacuate

The IC may make the decision to evacuate an at-risk community under the following circumstances:

Properties are likely to become inundated;

Properties are likely to become isolated and occupants are not suitable for isolated conditions;

Public health is at threat as a consequence of flooding and evacuation is considered the most effective risk treatment. This is the role of the Health Commander of the incident to assess and manage. Refer to the State Emergency Response Plan (SERP) for details);

Essential services have been damaged and are not available to a community and evacuation is considered the most effective risk treatment.

The following should be considered when planning for evacuation:

Anticipated flood consequences and their timing and reliability of predictions;

Size and location of the community to be evacuated;

Likely duration of evacuation;

Forecast weather;

Flood Models;

Predicted timing of flood consequences;

Time required to conduct the evacuation;

Time available to conduct the evacuation;

Evacuation priorities and evacuation planning arrangements;

Access and egress routes available and their potential flood liability;

Current and likely future status of essential infrastructure;

Resources required to conduct the evacuation;

Resources available to conduct the evacuation;

Shelter including Emergency Relief Centres, Assembly Areas etc.;

Vulnerable people and facilities;

Transportation;

Registration

People of CALD background and transient populations;

Safety of emergency service personnel;

Different stages of an evacuation process.

The decision to evacuate is to be made by the IC in consultation with the MERO, MERC, MRM, DHHS, Health Commander and other key agencies and expert advice (CMA's and Flood Intelligence specialists).

There are currently no pre-established triggers for evacuation within Mornington Peninsula.

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## Phase 2 – Warning

Warnings may include a warning to prepare to evacuate and a warning to evacuate immediately. Once the decision to evacuate has been made, the at-risk community will be warned to evacuate. Evacuation warnings can be disseminated via methods listed in part 3 of this plan.

Evacuation warning messages will be developed and issued by VICSES in consultation with the MERO, MERC, MRM, DHHS and other key agencies and expert advice (CMA's and Flood Intelligence specialists).

## Phase 3 – Withdrawal

Withdrawal will be controlled by VicPol. VICSES will provide advice regarding most appropriate evacuation routes and locations for at-risk communities to evacuate to, etc.

VICSES, CFA, AV and Local Government will provide resources where available to support VicPol/VicRoads with route control and may assist VicPol in arranging evacuation transportation.

VicPol will control security of evacuated areas.

Evacuees will be encouraged to move using their own transport where possible. Transport for those without vehicles or other means will be arranged at the request of the IC or via the appointed VicPol evacuation manager.

No Landing zones for helicopters have been pre identified in the Mornington Peninsula. There are numerous parks and open spaces which could be utilised in an emergency.

Landing zones for aircraft will be determined by the following:

- The IC will determine the requirements for airborne resources,
- The State Aircraft Desk will deploy and coordinate air resources,
- The pilot in command will determine the safest location to land.

## Vulnerable People in Emergencies

Vulnerable people living in the community will be identified through funded agencies, community service organisations or other community networks. Such people will be assessed against the definition of a vulnerable person and may qualify for registration on the Vulnerable Persons Register (VPR). Further information on Vulnerable People in Emergencies can be obtained from DHHS.

A list of facilities where vulnerable people may be located is also kept by Council. These may be funded facilities including, education, health and childcare, commonwealth regulated aged care facilities and other locally identified facilities.

## Phase 4 – Shelter

Emergency Relief/ Recovery Centres and/or Assembly Areas which cater for people's basic needs may be established to meet the immediate needs of people affected by storm and/or flooding. Relief Centres will be determined dependent on location and size of event.

The Emergency Relief/ Recovery Centres and/or Assembly Areas are as per Part 6 of the Relief and Recovery Arrangements in Mornington Peninsula Shire MEMP.

VicPol in consultation with VICSES will liaise with Local Government and DHHS (where regional coordination is required) via the relevant control centre to plan for the opening and operation of relief centres. This can best be achieved through the Emergency Management Team (EMT).

## Animal Shelter

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The need for animal shelter compounds will be determined dependant on the location and size of the event. Refer to Part 6 of the Relief and Recovery Arrangements in Mornington Peninsula Shire MEMP for more information.

## Caravans

Where present, caravans may be evacuated. Caravan evacuation will be determined dependent on location and size of event.

## Phase 5 – Return

Return will be consistent with the Strategic Plan for the Return of Community

The IC in consultation with VicPol will determine when it is safe for evacuees to return to their properties and will arrange for the notification of the community.

VicPol will manage the return of evacuated people with the assistance of other agencies as required.

Considerations for deciding whether to evacuate include:

Current storm/flood situation;

Status of flood mitigation systems;

Size and location of the community;

Access and egress routes available and their status;

Resources required to coordinate the return;

Special needs groups;

Forecast weather and;

Transportation particularly for people without access to transport

## Disruption to Services

Disruption to a range of services can occur in the event of a flood. This may include road closures affecting school bus routes, water treatment plant affecting potable water supplies etc.

This table will be populated as a more detailed analysis of the flood risk is completed.

Service	Impact	Trigger Point for action	Strategy/Temporary Measures
<b>School Bus Routes</b>	General road closures across network leading to student pickups being suspended	Inundation of road network and associated damage to an extent that it is unsafe for vehicles to use road	Alternate routes via clearly signed detours. Alternate routes to be determined by Council Traffic Engineers or works crews in conjunction with VicPol. Council works crews to install and monitor detour signage. Council Network Inspectors to monitor road conditions, closure signage and detour signage. Alternate student collection points to be established.
<b>Local Road Network</b>	General road closures across network	Inundation of road network and associated damage to an extent that it is unsafe for	Alternate routes via clearly signed detours. Alternate routes to be determined by Council Traffic Engineers,

		vehicles to use road	Council works personnel and VicPol. Council works crews to install and monitor detour signage. Council Network Inspectors to monitor road conditions, closure signage and detour signage.
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## Essential Community Infrastructure and Property Protection

Essential Community Infrastructure and properties (e.g. residences, businesses, roads, power supply etc.) that require protection are listed in the MEMP.

For small scale events sandbags can be purchased from Bunning's. For larger scale events sandbag collection points and filling points will be determined, with the community being informed of these points depending on the nature and proximity of the event.

## Rescue

Requests for Mornington Peninsula Shire resources to support rescue operations will be forwarded via the MERC.

Resources are available within the VICSES Hastings and VICSES Sorrento units to assist with rescue operations. Full details of equipment and resources are held by the VICSES units. Known high-risk areas/communities (i.e. low-lying islands) where rescues might be required are detailed in the **Appendix F** flood maps.

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## APPENDIX E - FLOOD WARNING SYSTEMS

### Storm and Flood Warning

Storm and Flood Warning products and Flood Class Levels can be found on the BoM website and through the VicEmergency website. Storm and Flood Warning Products include Severe Thunderstorm Warnings, Severe Weather Warnings, Flood Watches and Flood Warnings.

The Mornington Peninsula is more vulnerable to flash flooding than riverine flooding. While the BoM provides severe weather warnings, which can include the risk of flash flooding, specific flash flood forecasts and warnings (i.e. including specific location and timing information) are not generally provided. This is due to the unpredictable nature and speed of flash flooding. As a result, no flood bulletins will be issued prior to flash flooding.

### Flood Bulletins

VICSES distributes flood emergency information to the media through “Flood Bulletins”. Flood Bulletins provide BoM Flood Warning information as well as information regarding possible flood consequences and safety advice, not contained in BoM Flood Warning products. VICSES uses the title Flood Bulletin to ensure emphasis is placed upon BoM Flood Warning product titles.

The relevant VICSES RDO or the established ICC will normally be responsible for drafting, authorizing and issuing issue Flood Bulletins, using the VicEmergency (EM-COP) system.

Flood Bulletins should refer to the warning title within the Bulletin header, for example Flood Bulletin for Major Flood Warning on Yarra River.

Flood Bulletins should follow the following structure

What is the current flood situation;

What is the predicted flood situation;

What are the likely flood consequences;

What should the community do in response to flood warnings;

Where to seek further information;

Who to call if emergency assistance is required.

It is important that the description of the predicted flood situation is consistent with and reflects the relevant BoM Flood Warning.

Flood Bulletins should be focused on specific gauge (or in the absence of gauges, catchment) reference areas, that is the area in which flood consequences specifically relate to the relevant flood gauge.

Flood Bulletins should be prepared and issued after receipt of each Flood Watch and Flood Warning from the BoM, or after Severe Weather or Thunderstorm Warnings indicating potential for severe flash flooding.

To ensure flood bulletins are released in a timely manner, standardised flood bulletins may be drafted based on different scenarios, prior to events occurring. The standardised flood bulletins can then be adapted to the specifics of the event occurring or predicted to occur.

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## Local Flood Warning System Arrangements

There are no standing flood warning systems or arrangements in place in Mornington Peninsula.

Mornington Peninsula Shire will suggest that any flood warnings issued by VICSES and any local information distributed by the Shire includes appropriate recommendations including:

- Ensure the ground below decks is clear for flow paths.
- Store pollutants and similar chemicals in garages and sheds a minimum of 300mm above expected flood heights
- Install electrical connections 300mm above expected flood heights

These recommendations will also be included in any community education/information sessions on floods.

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## APPENDIX F – MAPS

### Overview

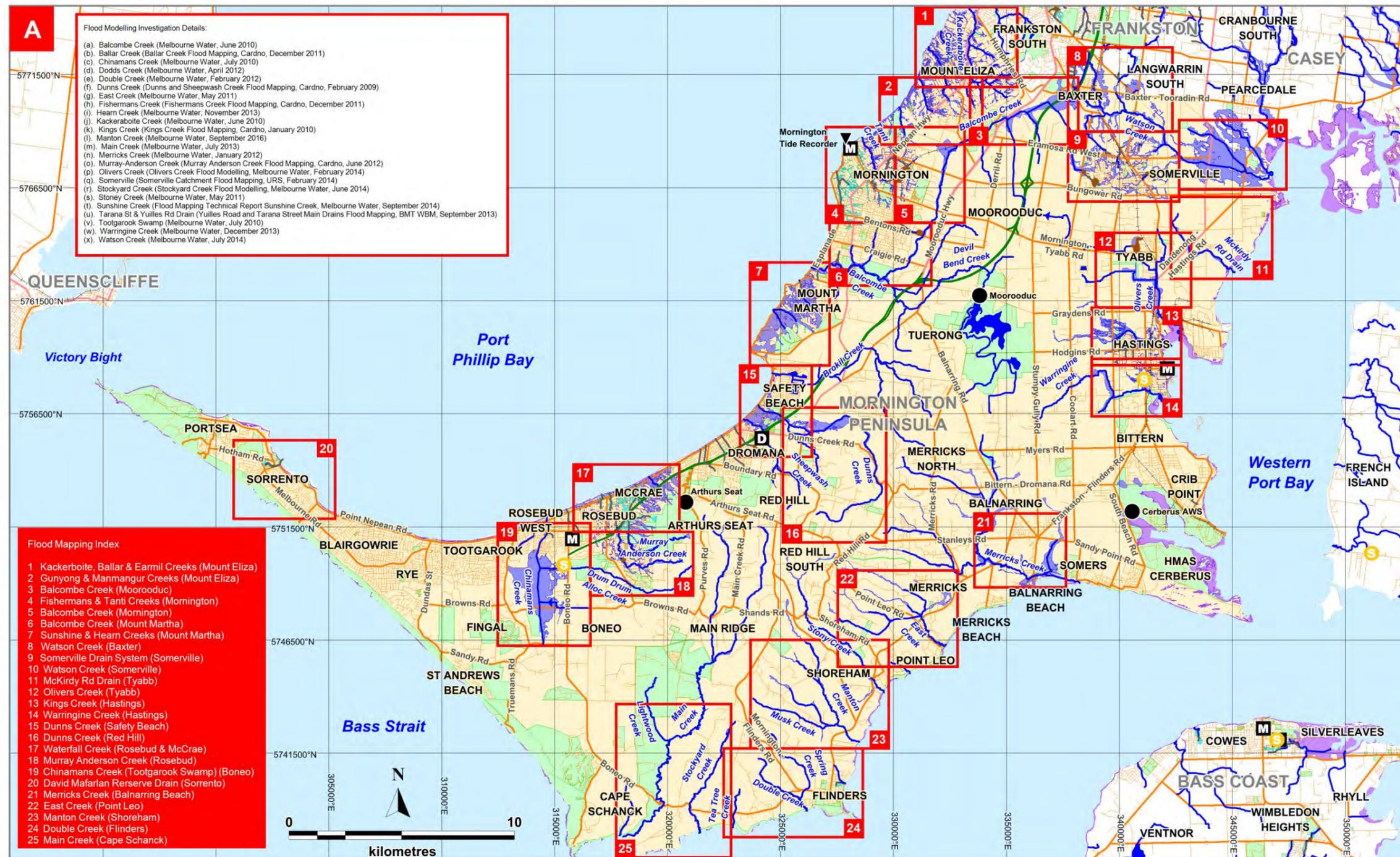
Maps considered useful to flood response are included in this Appendix. They include:

- A map outlining a series of flooding hot spot maps within the Mornington Peninsula .
- A map showing the Municipal boundary together with the open waterways and underground stormwater drainage pipe network within the Mornington Peninsula and the 1% AEP (100-year ARI) flood extents (sourced from Melbourne Water GIS).
- A set of 13 maps showing flooding hot spots within the Mornington Peninsula together with the 1% AEP (100-year ARI) flood extents (sourced from the Melbourne Water GIS).

#### Note that:

- The mapping/data provided in this Appendix has been developed from Melbourne Water and other sources and taken from historical records and flood modelling. It may not include more recent data or local anecdotal information. It is planned that the mapping/data be updated as further studies or modelling is completed and other Information obtained.
- Maps showing the Special Building Overlay and Land Subject to Inundation Overlay are included in the Mornington Peninsula Planning Scheme can be used as a guide to areas that may flood during an event. The maps can be found in hard copy form at the Council's main office or online at the Department of Planning and Community Development website <http://planningschemes.dpcd.vic.gov.au/>.
- Maps showing 1 in 100-year ARI (1% AEP) flood extents and floodways (together with volume, height and water quality data) are shown at the Victorian Water Resources website <http://nremap-sc.nre.vic.gov.au/MapShare.v2/imf.jsp?site=water>.

# Mornington Peninsula Municipal Maps (sourced Melbourne Water GIS)



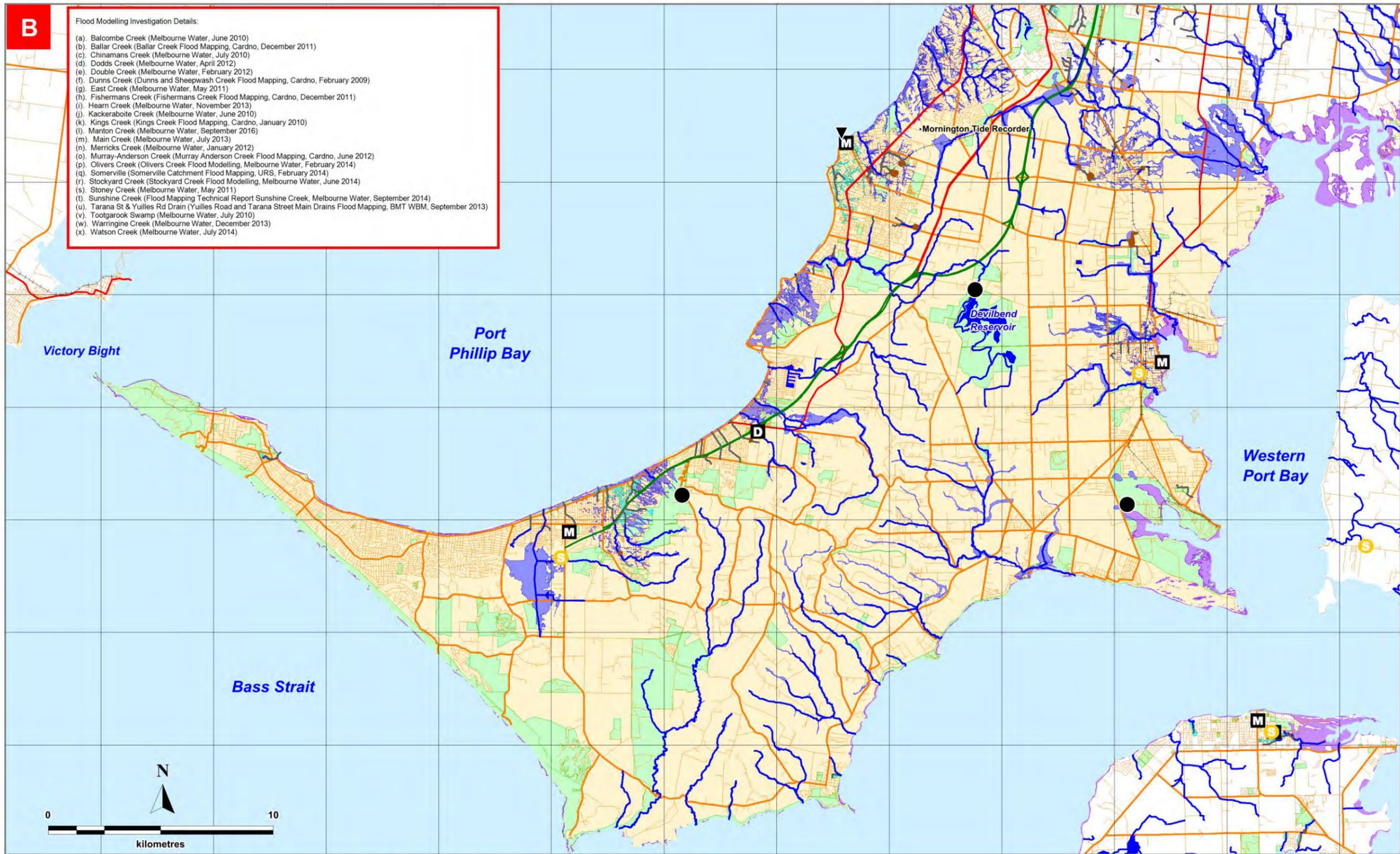
## MORNINGTON PENINSULA

Version 3: July 2017  
A - Flood Mapping Index



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Z



- B** Flood Modelling Investigation Details:
- (a). Balcombe Creek (Melbourne Water, June 2010)
  - (b). Ballar Creek (Ballar Creek Flood Mapping, Cardno, December 2011)
  - (c). Chinamans Creek (Melbourne Water, July 2010)
  - (d). Dodds Creek (Melbourne Water, April 2012)
  - (e). Double Creek (Melbourne Water, February 2012)
  - (f). Dunns Creek (Dunns and Sheepwash Creek Flood Mapping, Cardno, February 2009)
  - (g). East Creek (Melbourne Water, May 2011)
  - (h). Fishermans Creek (Fishermans Creek Flood Mapping, Cardno, December 2011)
  - (i). Hearn Creek (Melbourne Water, November 2013)
  - (j). Kackeraboite Creek (Melbourne Water, June 2010)
  - (k). Kings Creek (Kings Creek Flood Mapping, Cardno, January 2010)
  - (l). Manton Creek (Melbourne Water, September 2016)
  - (m). Main Creek (Melbourne Water, July 2013)
  - (n). Merricks Creek (Melbourne Water, January 2012)
  - (o). Murray-Anderson Creek (Murray Anderson Creek Flood Mapping, Cardno, June 2012)
  - (p). Olivers Creek (Olivers Creek Flood Modelling, Melbourne Water, February 2014)
  - (q). Somerville (Somerville Catchment Flood Mapping, URS, February 2014)
  - (r). Stockyard Creek (Stockyard Creek Flood Modelling, Melbourne Water, June 2014)
  - (s). Stoney Creek (Melbourne Water, May 2011)
  - (t). Sunshine Creek (Flood Mapping Technical Report Sunshine Creek, Melbourne Water, September 2014)
  - (u). Tarana St & Yuilles Rd Drain (Yuilles Road and Tarana Street Main Drains Flood Mapping, BMT WBM, September 2013)
  - (v). Tootgarook Swamp (Melbourne Water, July 2010)
  - (w). Warringine Creek (Melbourne Water, December 2013)
  - (x). Watson Creek (Melbourne Water, July 2014)

**MORNINGTON PENINSULA**  
 Version 3: July 2017  
**B - 1% AEP (100yr ARI) Flood Extent**

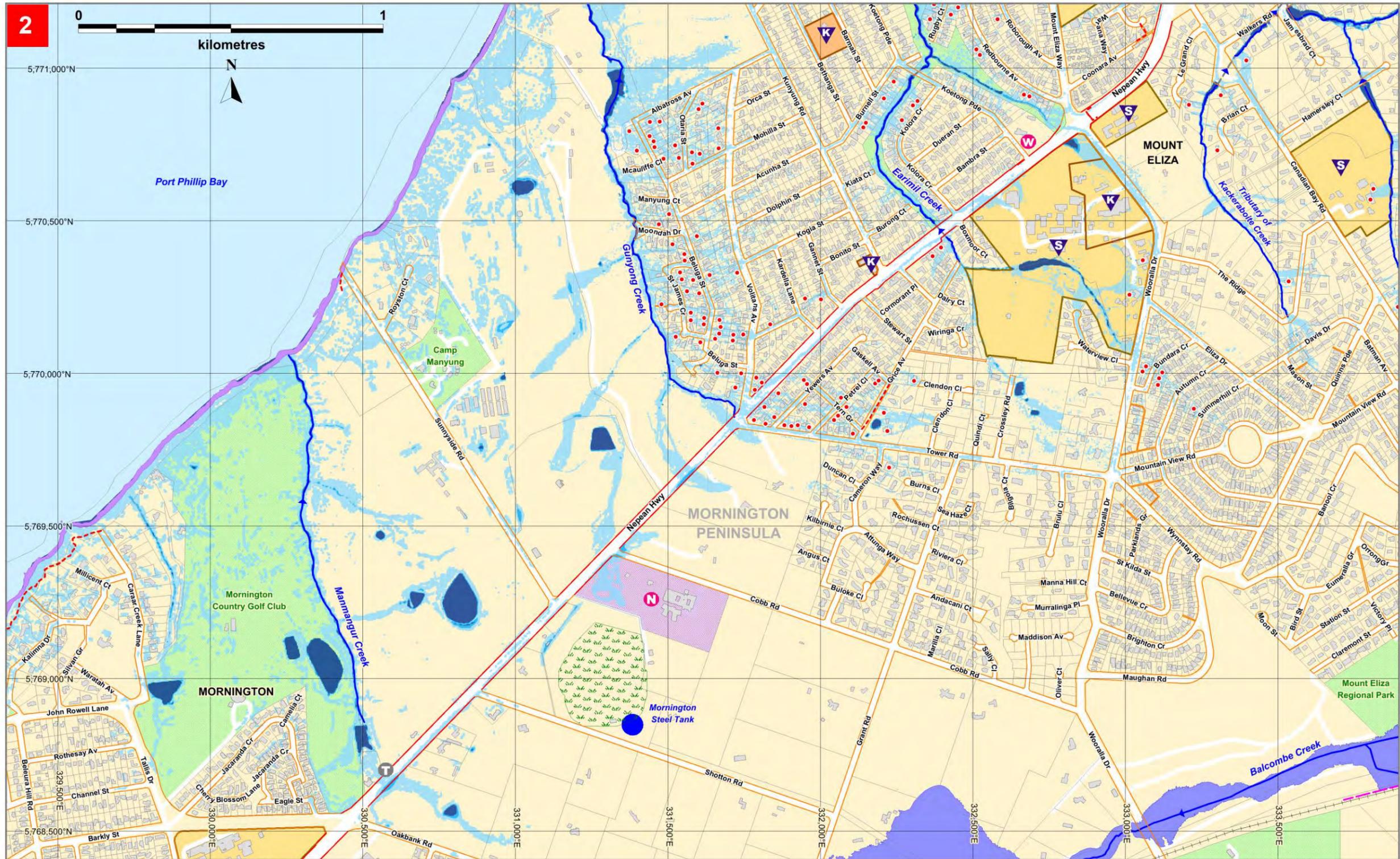
- Reserve / Parkland
- 1% AEP Flash Flood Extent
- 1% AEP Riverine Flood Extent
- 1% AEP Storm Surge Flood Extent
- Waterbody
- Levee / Embankment
- River / Creek
- Melbourne Water Underground Drain
- VicSES Unit
- D Municipal Depot
- M Municipal Offices
- Stream Level Gauge
- Rain Gauge



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# Flood Extent Maps (sourced Melbourne Water GIS)





Flood Modelling completed by Melbourne Water & Cardno. Map Produced by VicSES July 2017.

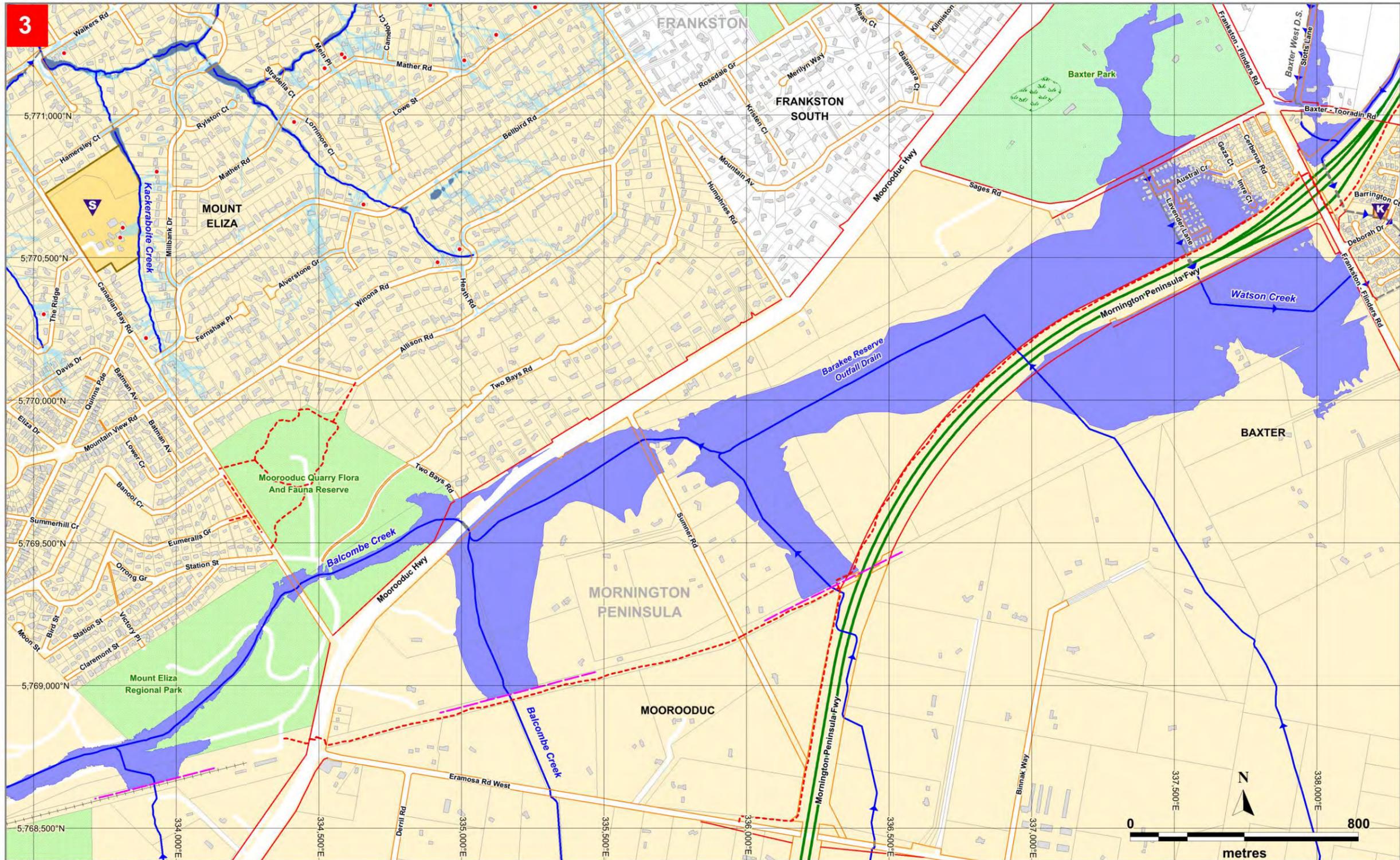
**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
 2. Gonyong & Manmangur Creeks  
 (Mount Eliza)

- |                                      |  |                                  |                                 |
|--------------------------------------|--|----------------------------------|---------------------------------|
| Area of Interest                     | 1% AEP Storm Surge Extent (Depth Unavailable)    | Creek / Channel                  | School / College                |
| Building                             | 1% AEP Riverine Flood Extent (Depth Unavailable) | Bicycle / Walking Trail          | Kindergarten / Childcare        |
| 1% AEP Flood Depth Greater than 0.6m | Waterbody  | Melbourne Water Stormwater Drain | 1% AEP Over-Floor Flooding Risk |
| 0.3m to 0.6m                         | Natural Wetland                                  | Nursing Home / Aged Care         | Telephone Exchange              |
| Up to 0.3m                           |  | Place Of Worship                 |                                 |



**SES Victoria Melbourne Water**

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Flood Modelling completed by Melbourne Water & Cardno. Map Produced by VicSES July 2017.

**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
**3. Balcombe Creek**  
 (Moorooduc)

- Building
- 1% AEP Riverine Flood Extent (Depth Unavailable)
- 1% AEP Flood Depth
- Greater than 0.6m
- 0.3m to 0.6m
- Up to 0.3m
- Natural Wetland
- Melbourne Water Stormwater Drain
- Creek / Channel
- Bicycle / Walking Trail
- Flood Model Extent
- School / College
- Kindergarten / Childcare
- 1% AEP Over-Floor Flood Risk



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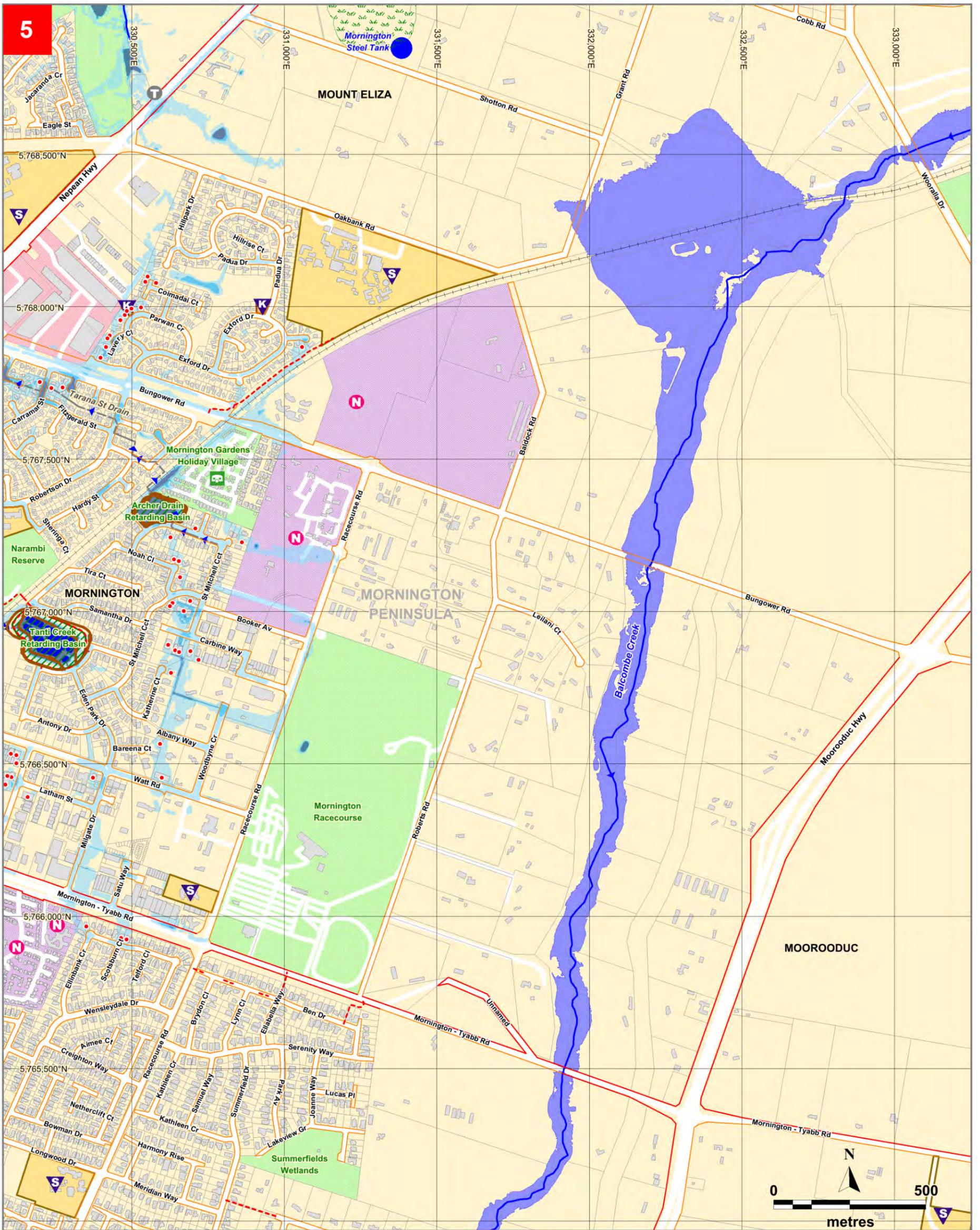
Flood Modelling completed by Melbourne Water, Cardno & WBM BMT. Map Produced by VicSES July 2017.

**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
**4. Fishermans & Tanti Creeks (Mornington)**

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**Melbourne Water**  
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Flood Modelling completed by Melbourne Water & WBM BMT. Map Produced by VicSES July 2017.

## MORNINGTON PENINSULA

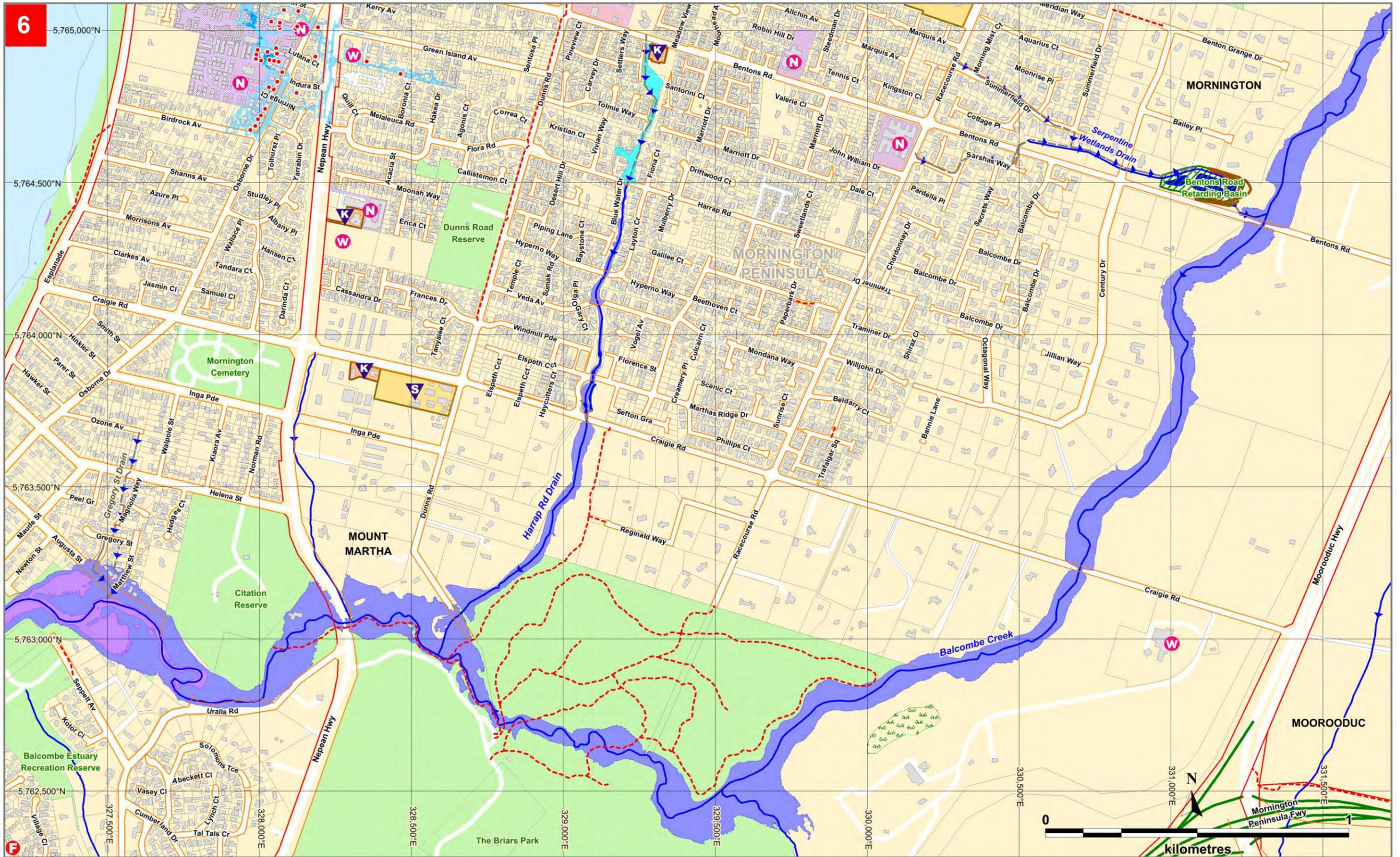
1% AEP (100yr ARI) Flooding

### 5. Balcombe Creek (Mornington)

- |                           |  |  |                                  |  |                                 |
|---------------------------|--|--|----------------------------------|--|---------------------------------|
|                           | Building   |  | Natural Wetland                  |  | Telephone Exchange              |
|                           | Area of Interest                                 |  | Waterbody                        |  | Caravan Park                    |
|                           | Shopping Precinct                                |  | Melbourne Water Stormwater Drain |  | 1% AEP Over-Floor Flooding Risk |
| <b>1% AEP Flood Depth</b> |  |  |                                  |  |                                 |
|                           | Greater than 0.6m                                |  | Nursing Home / Aged Care         |  | School / College                |
|                           | 0.3m to 0.6m                                     |  | Kidergarten / Child Care         |  |                                 |
|                           | Up to 0.3m                                       |  |                                  |  |                                 |
|                           | Melbourne Water Retarding Basin                  |  |                                  |  |                                 |
|                           | 1% AEP Riverine Flood Extent (Depth Unavailable) |  |                                  |  |                                 |



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Flood Modelling completed by Melbourne Water. Map Produced by VicSES July 2017.

**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
**6. Balcombe Creek (Mount Martha)**

- |  |  |                          |                                 |
|--|--|--------------------------|---------------------------------|
| Building                                   | Melbourne Water Retarding Basin                  | Levee / Embankment       | 1% AEP Over-Floor Flooding Risk |
| Area of Interest                           | 1% AEP Flash Flood Extent (Depth Unavailable)    | Creek / Channel          | Nursing Home / Aged Care        |
| Waterbody                                  | 1% AEP Storm Surge Extent (Depth Unavailable)    | Bicycle / Walking Trail  | Place Of Worship                |
| 1% AEP Flash Flood Depth Greater than 0.6m | 1% AEP Riverine Flood Extent (Depth Unavailable) | Flood Model Extent       | CFA Fire Station                |
| 1% AEP Flash Flood Depth 0.3m to 0.6m      | Melbourne Water Stormwater Drain                 | School / College         |                                 |
| 1% AEP Flash Flood Depth Up to 0.3m        |  | Kindergarten / Childcare |                                 |



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7



Flood Modelling completed by Melbourne Water. Map Produced by VicSES July 2017.

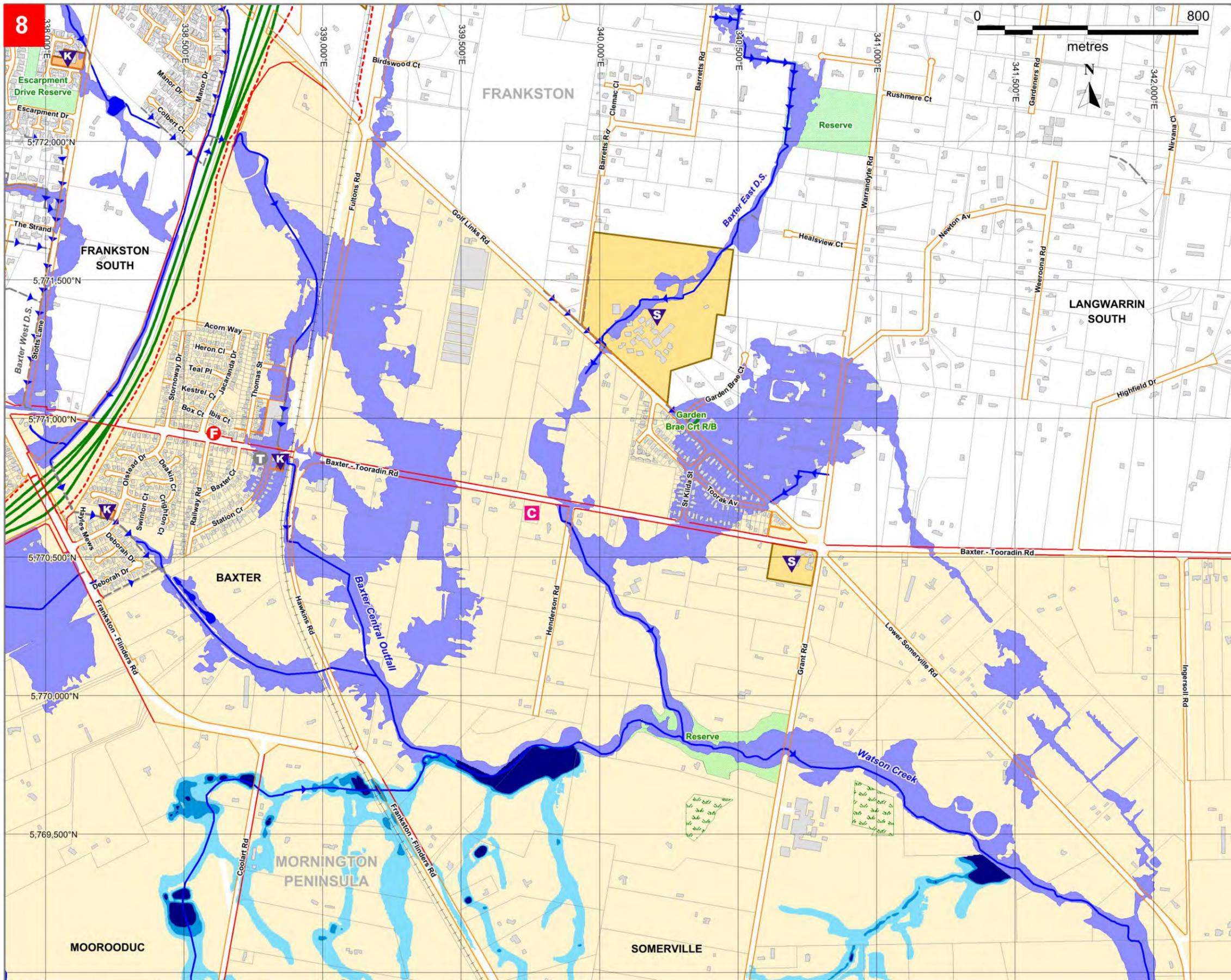
**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
**7. Sunshine & Hearn Creeks**  
 (Mount Martha)

- |  |                                  |
|--|----------------------------------|
| Building   | Melbourne Water Stormwater Drain |
| Area of Interest                                 | Creek / Channel                  |
| 1% AEP Riverine Flood Extent (Depth Unavailable) | Bicycle / Walking Trail          |
| 1% AEP Storm Surge Flood Extent                  | School / College                 |
| <b>1% AEP Flash Flood Depth</b>                  | Kindergarten / Child Care        |
| Greater than 0.6m                                | CFA Fire Station                 |
| 0.3m to 0.6m                                     | Telephone Exchange               |
| Up to 0.3m                                       | Camping Ground                   |
| Waterbody  |                                  |



**SES Victoria Melbourne Water**

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- Building
- Area of Interest
- 1% AEP Riverine Flood Extent (Depth Unavailable)
- 1% AEP Flood Depth**
- Greater than 0.6m
- 0.3m to 0.6m
- Up to 0.3m
- Melbourne Water Retarding Basin
- Natural Wetland
- Creek / Waterway
- Melbourne Water Stormwater Drain
- Bicycle / Walking Trail
- CFA Fire Station
- Community Centre
- School / College
- Kindergarten / Child Care
- Telephone Exchange

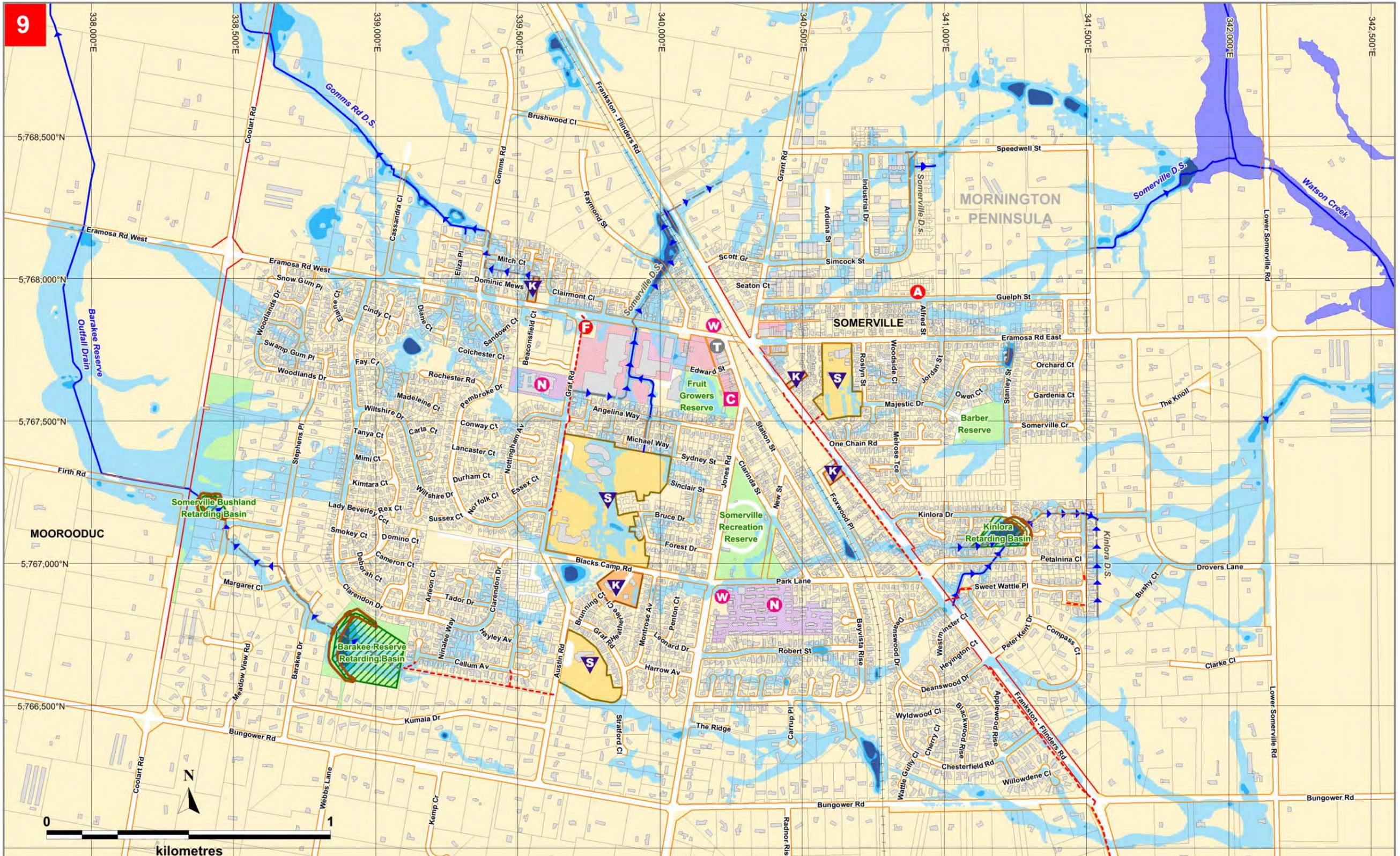


**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
**8. Watson Creek (Baxter)**



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Flood Modelling completed by Melbourne Water & URS. Map Produced by VicSES June 2017.



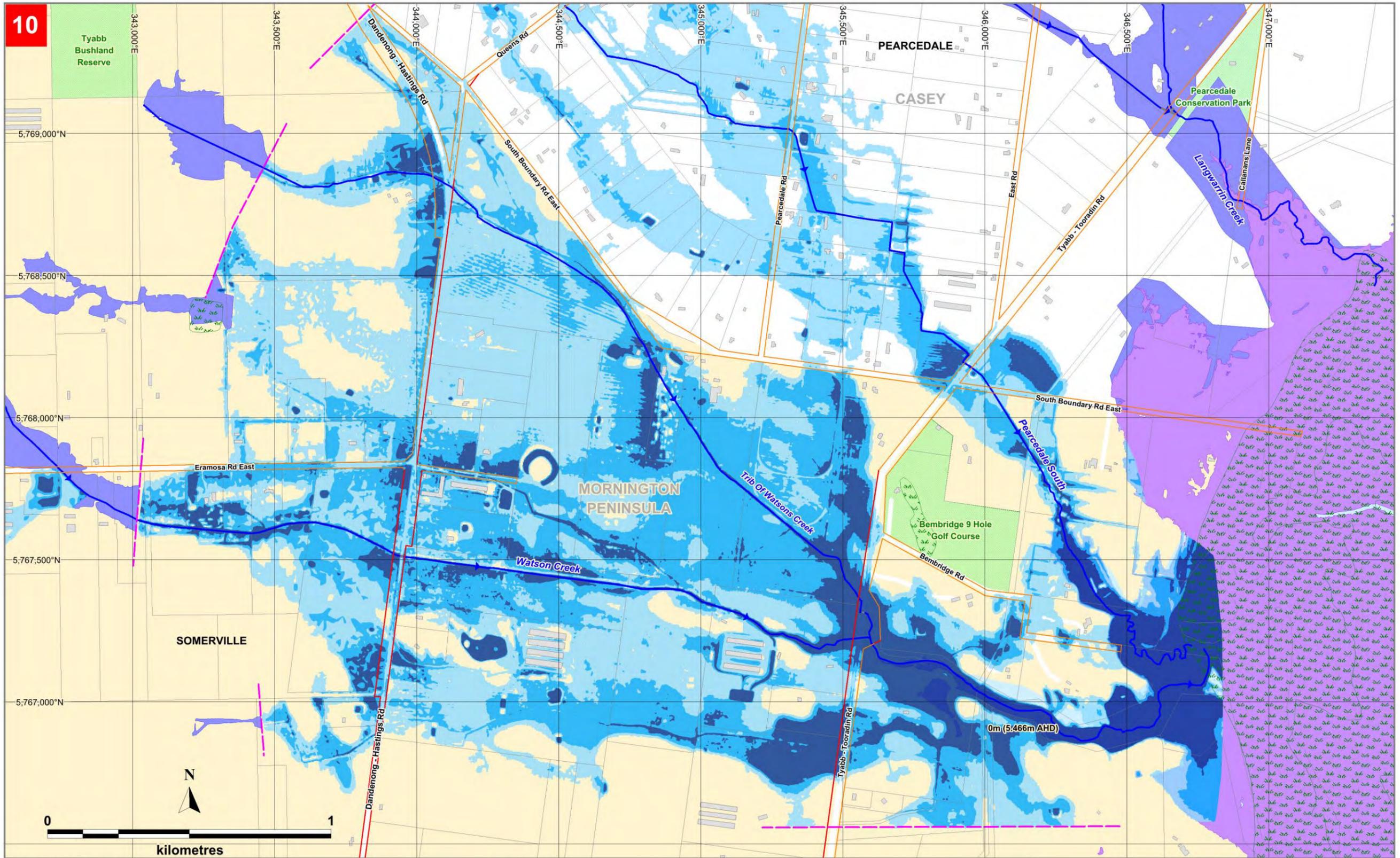
Flood Modelling completed by Melbourne Water & URS. Map Produced by VicSES July 2017.

**MORNINGTON PENINSULA SHIRE**  
 1% AEP (100yr ARI) Flooding  
**9. Somerville Drain System**  
 (Somerville)

- |                                      |  |                          |                  |
|--------------------------------------|--|--------------------------|------------------|
| Building                             | 1% AEP Riverine Flood Extent (Depth Unavailable) | School / College         | CFA Fire Station |
| Area of Interest                     | Melbourne Water Retarding Basin                  | Kindergarten / Childcare | Community Centre |
| 1% AEP Flood Depth Greater than 0.6m | Melbourne Water Stormwater Drain                 | Ambulance Station        |                  |
| 0.3m to 0.6m                         | Creek / Channel                                  | Nursing Home / Aged Care |                  |
| Up to 0.3m                           | Bicycle / Walking Trail                          | Place Of Worship         |                  |
| Shopping Centre                      | Levee / Embankment                               | Telephone Exchange       |                  |



**Melbourne Water**  
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Flood Modelling completed by Melbourne Water. Map Produced by VicSES July 2017.

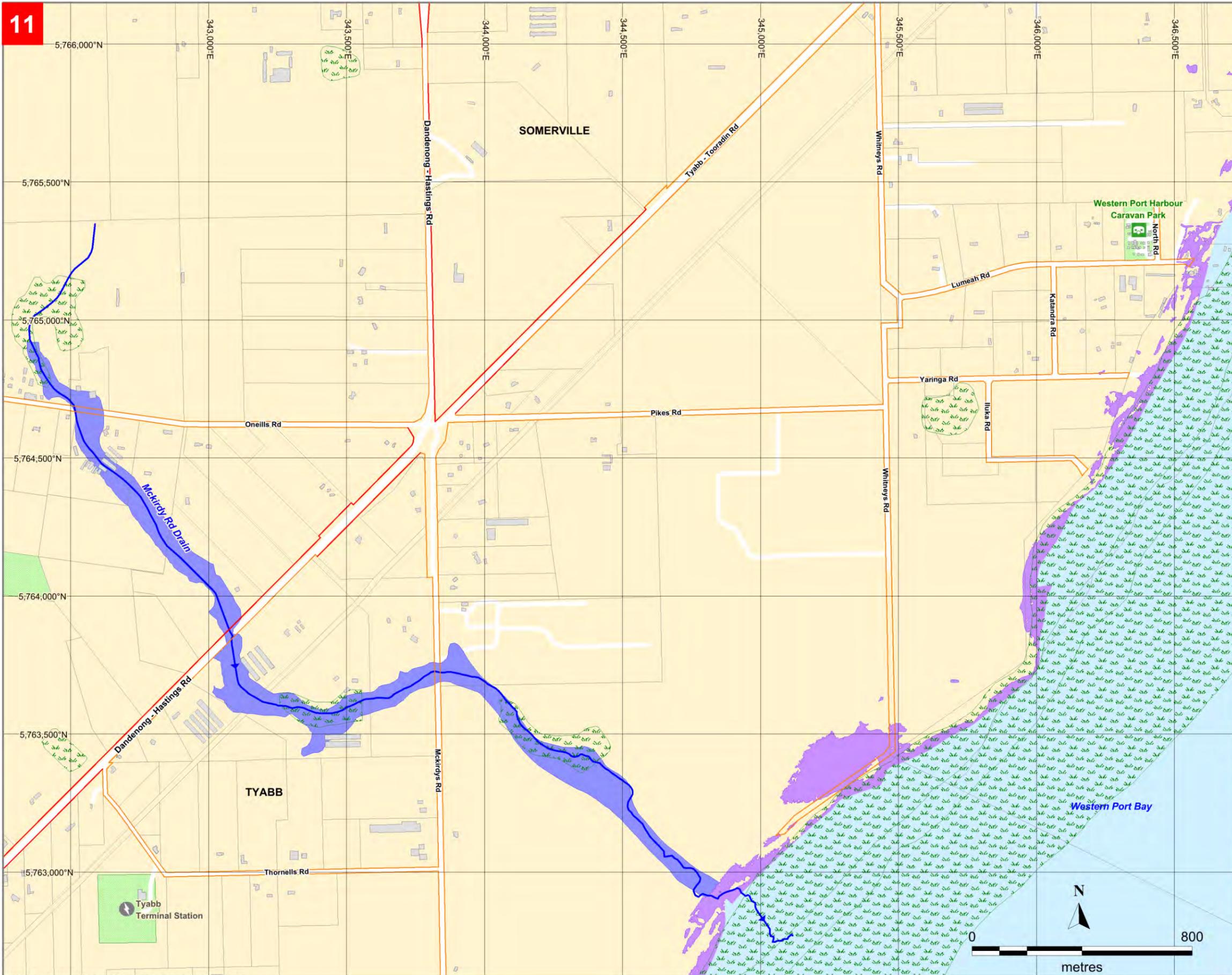
**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
**10. Watson Creek**  
 (Somerville)

- |  |                   |  |  |
|--|-------------------|--|--|
|  | Building          |  | 1% AEP Riverine Flood Extent (Depth Unavailable) |
|  | Area of Interest  |  | 1% AEP Storm Surge Extent (Depth Unavailable)    |
|  | Greater than 0.6m |  | Natural Wetland                                  |
|  | 0.3m to 0.6m      |  | Creek / Channel                                  |
|  | Up to 0.3m        |  | Flood Model Extent                               |



**SES** **Victoria** **Melbourne Water**

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- Building
- Area of Interest
- 1% AEP Riverine Flood Extent (Depth Unavailable)
- 1% AEP Storm Surge Extent (Depth Unavailable)
- Natural Wetland
- Creek / Waterway
- Caravan Park
- Terminal Station

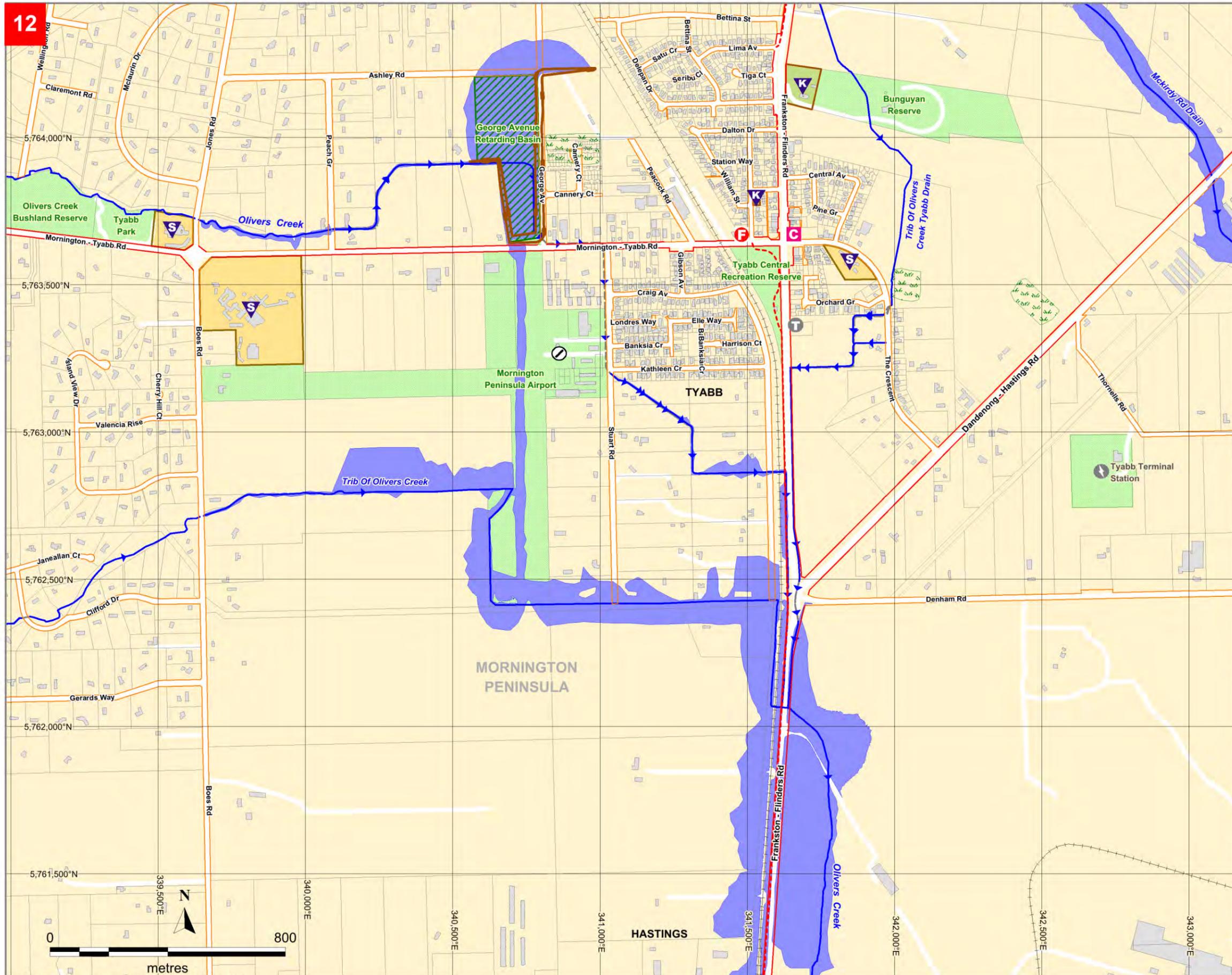


**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
 11. McKirdy Rd Drain (Tyabb)



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Flood Modelling completed by Melbourne Water. Map Produced by VicSES July 2017.



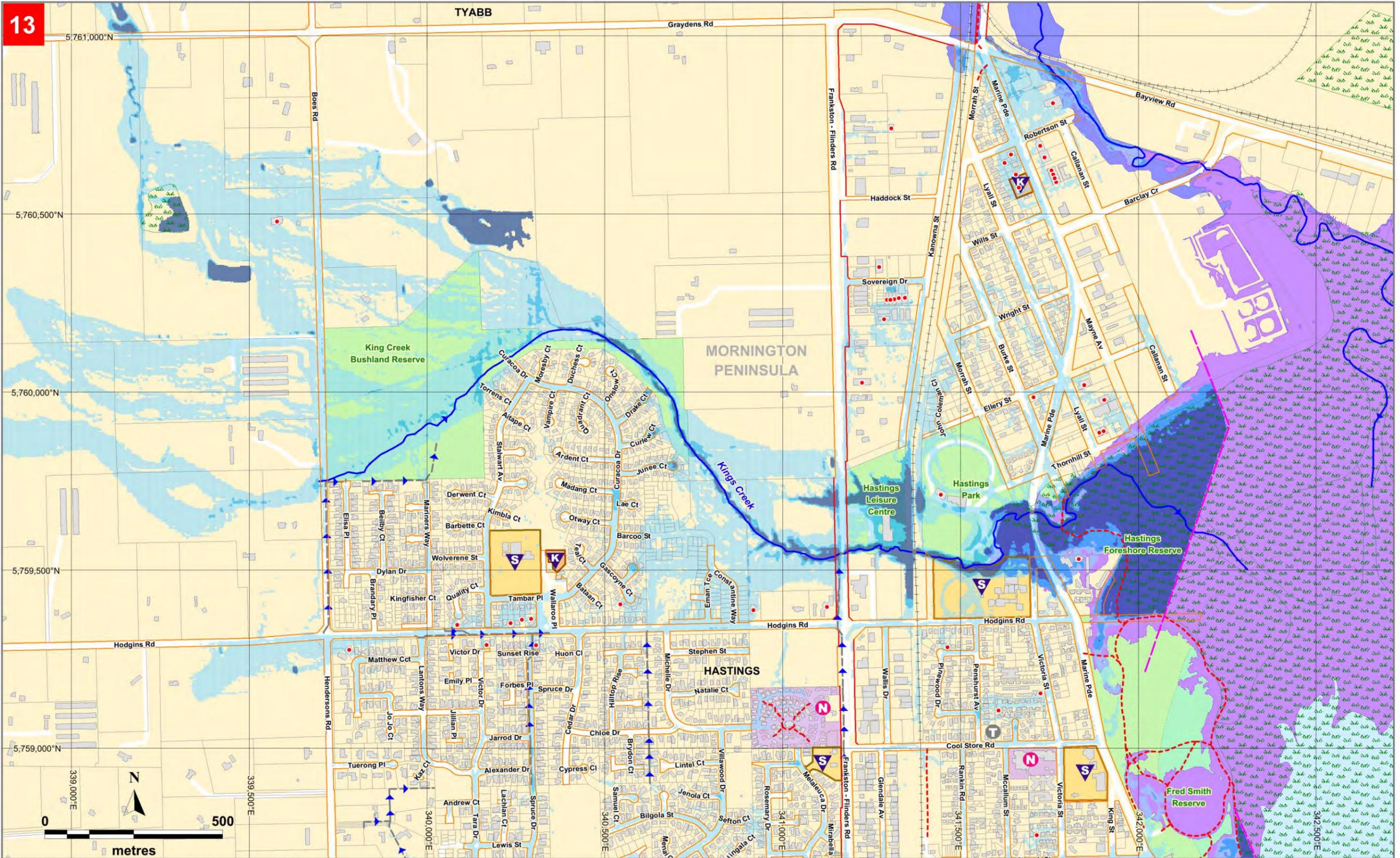
- Building
- Area of Interest
- Natural Wetland
- 1% AEP Riverine Flood Extent
- Melbourne Water Retarding Basin
- Creek / Waterway
- Bicycle / Walking Trail
- Levee / Embankment
- Melbourne Water Underground Drain
- CFA Fire Station
- Telephone Exchange
- Kindergarten / Childcare
- School / College
- Community Centre
- Terminal Station
- Airport / Airfield



**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
**12. Olivers Creek (Tyabb)**

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Flood Modelling completed by Melbourne Water. Map Produced by VicSES July 2017.



Flood Modelling completed by Melbourne Water & Cardno January 2010. Map Produced by VicSES July 2017.

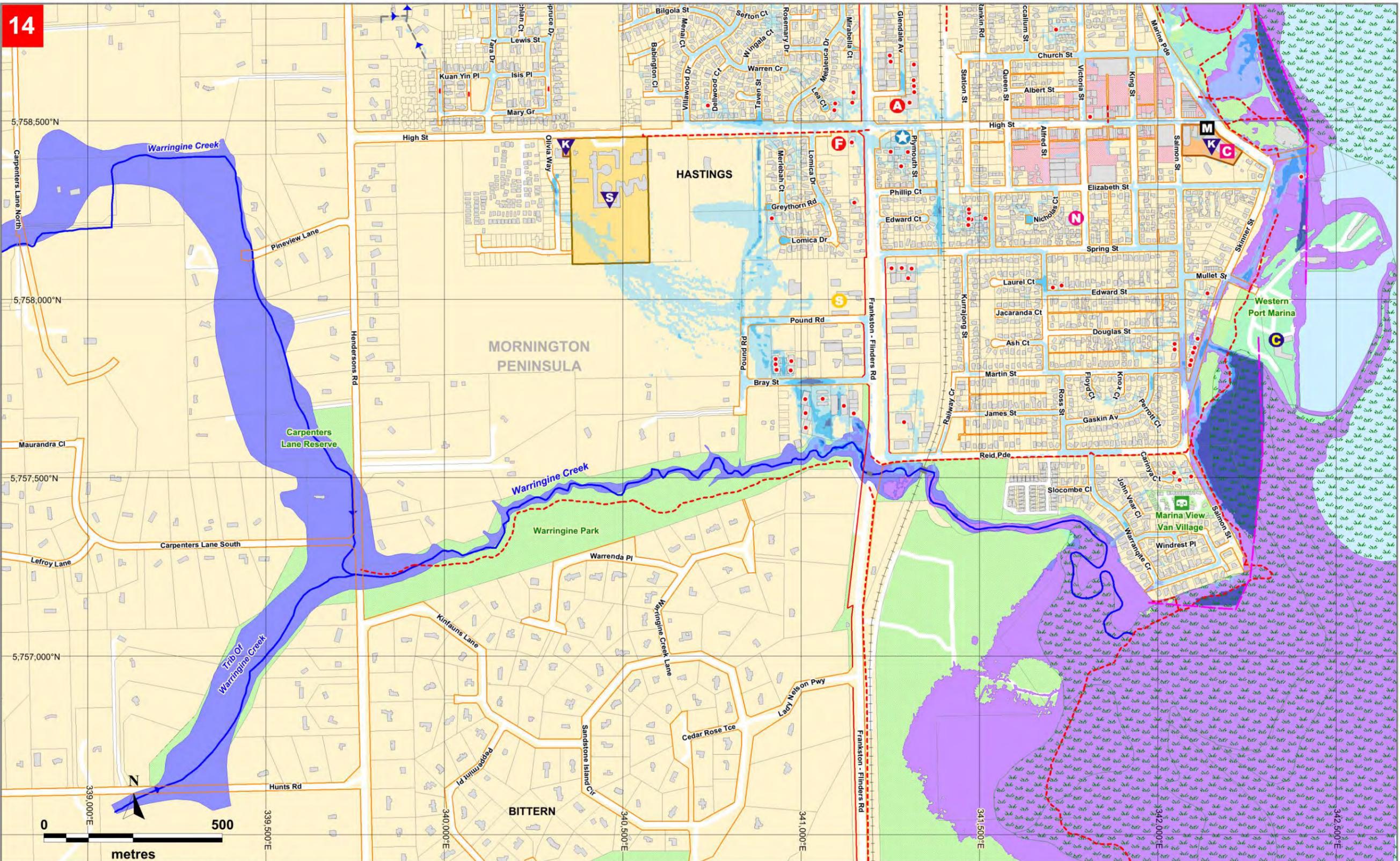
**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
 13. Kings Creek (Hastings)

- |                   |  |                                 |
|-------------------|--|---------------------------------|
| Building          | 1% AEP Riverine Flood Extent (Depth Unavailable) | Telephone Exchange              |
| Area of Interest  | 1% AEP Storm Surge Flood Extent                  | Nursing Home / Aged Care        |
| Greater than 0.6m | Creek / Channel                                  | 1% AEP Over-Floor Flooding Risk |
| 0.3m to 0.6m      | Bicycle / Walking Trail                          | School / College                |
| Up to 0.3m        | Flood Model Extent                               | Kindergarten / Childcare        |
| Natural Wetland   |  |                                 |



**SES** **Victoria** **Melbourne Water**

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Flood Modelling completed by Melbourne Water & Cardno January 2010. Map Produced by VicSES July 2017.

### MORNINGTON PENINSULA

1% AEP (100yr ARI) Flooding

#### 14. Warringine Creek (Hastings)

- |                                      |  |                                  |                        |
|--------------------------------------|--|----------------------------------|------------------------|
| Building                             | 1% AEP Riverine Flood Extent (Depth Unavailable) | Victoria State Emergency Service | Police Station         |
| Area of Interest                     | 1% AEP Storm Surge Flood Extent                  | Nursing Home / Aged Care         | Coast Guard Flotilla 4 |
| 1% AEP Flood Depth Greater than 0.6m | Creek / Channel                                  | 1% AEP Over-Floor Flooding Risk  | Ambulance Station      |
| 0.3m to 0.6m                         | Bicycle / Walking Trail                          | School / College                 | Municipal Offices      |
| Up to 0.3m                           | Flood Model Extent                               | Kindergarten / Childcare         | Community Centre       |
| Natural Wetland                      | Melbourne Water Underground Drain                | CFA Fire Station                 | Caravan Park           |



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**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
 15. Dunns Creek (Safety Beach)

- |                                 |                                  |                                 |
|---------------------------------|----------------------------------|---------------------------------|
| Building                        | 1% AEP Storm Surge Flood Extent  | Caravan Park                    |
| Area of Interest                | Melbourne Water Stormwater Drain | Municipal Depot                 |
| <b>1% AEP Flood Depth</b>       | Creek / Channel                  | Camping Ground                  |
| Greater than 0.6m               | Bicycle / Walking Trail          | Camping Ground                  |
| 0.3m to 0.6m                    | Levee / Embankment               | Nursing Home / Aged Care        |
| Up to 0.3m                      | School / College                 | 1% AEP Over-Floor Flooding Risk |
| Melbourne Water Retarding Basin | Kindergarten / Child Care        |                                 |
| Waterbody                       |                                  |                                 |



**SES Victoria Melbourne Water**

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Flood Modelling completed by Melbourne Water & Cardno. Map Produced by VicSES July 2017.

### MORNINGTON PENINSULA

1% AEP (100yr ARI) Flooding

#### 16. Dunns Creek (Red Hill)

- |                           |  |  |                                  |
|---------------------------|--|--|----------------------------------|
|                           | Building   |  | Natural Wetland                  |
|                           | Area of Interest                                 |  | Melbourne Water Stormwater Drain |
|                           | 1% AEP Riverine Flood Extent (Depth Unavailable) |  | Creek / Channel                  |
| <b>1% AEP Flood Depth</b> |  |  | Bicycle / Walking Trail          |
|                           | Greater than 0.6m                                |  | School / College                 |
|                           | 0.3m to 0.6m                                     |  | Kindergarten / Child Care        |
|                           | Up to 0.3m                                       |  | Place Of Worship                 |
|                           | Waterbody  |  |                                  |



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Flood Modelling completed by Melbourne Water & Cardno. Map Produced by VicSES July 2017.

### MORNINGTON PENINSULA

1% AEP (100yr ARI) Flooding

#### 17. Waterfall Creek (Rosebud & McCrae)

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Flood Modelling completed by Melbourne Water & Cardno. Map Produced by VicSES July 2017.

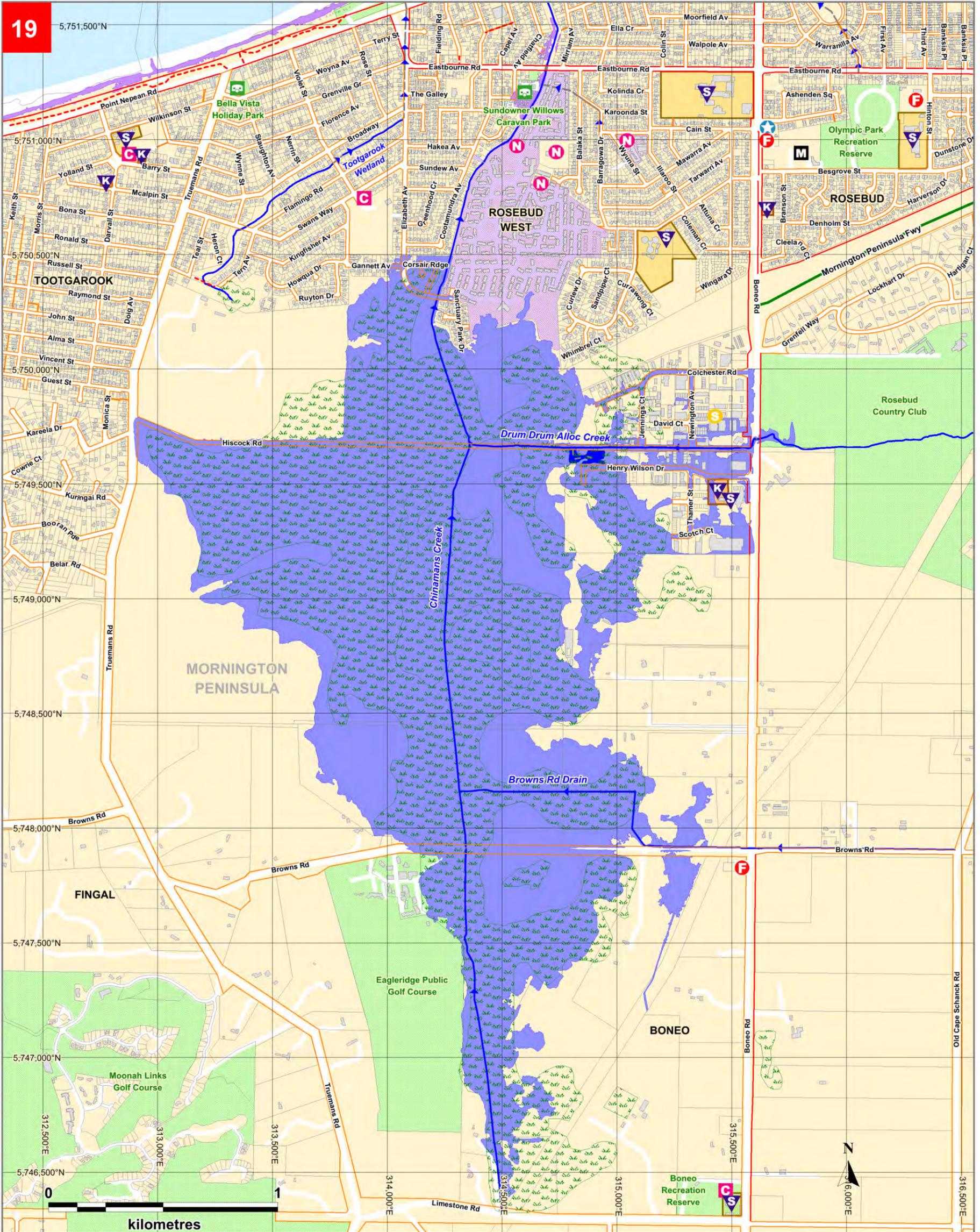
**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
 18. Murray Anderson Creek  
 (Rosebud)

- |                                      |                          |                                 |
|--------------------------------------|--------------------------|---------------------------------|
| Building                             | Creek / Channel          | 1% AEP Over-Floor Flooding Risk |
| Area of Interest                     | Bicycle / Walking Trail  | Nursing Home / Aged Care        |
| 1% AEP Flood Depth Greater than 0.6m | Flood Model Extent       | Place Of Worship                |
| 1% AEP Flood Depth 0.3m to 0.6m      | School / College         | Caravan Park                    |
| 1% AEP Flood Depth Up to 0.3m        | Kindergarten / Childcare |                                 |



**SES Victoria Melbourne Water**

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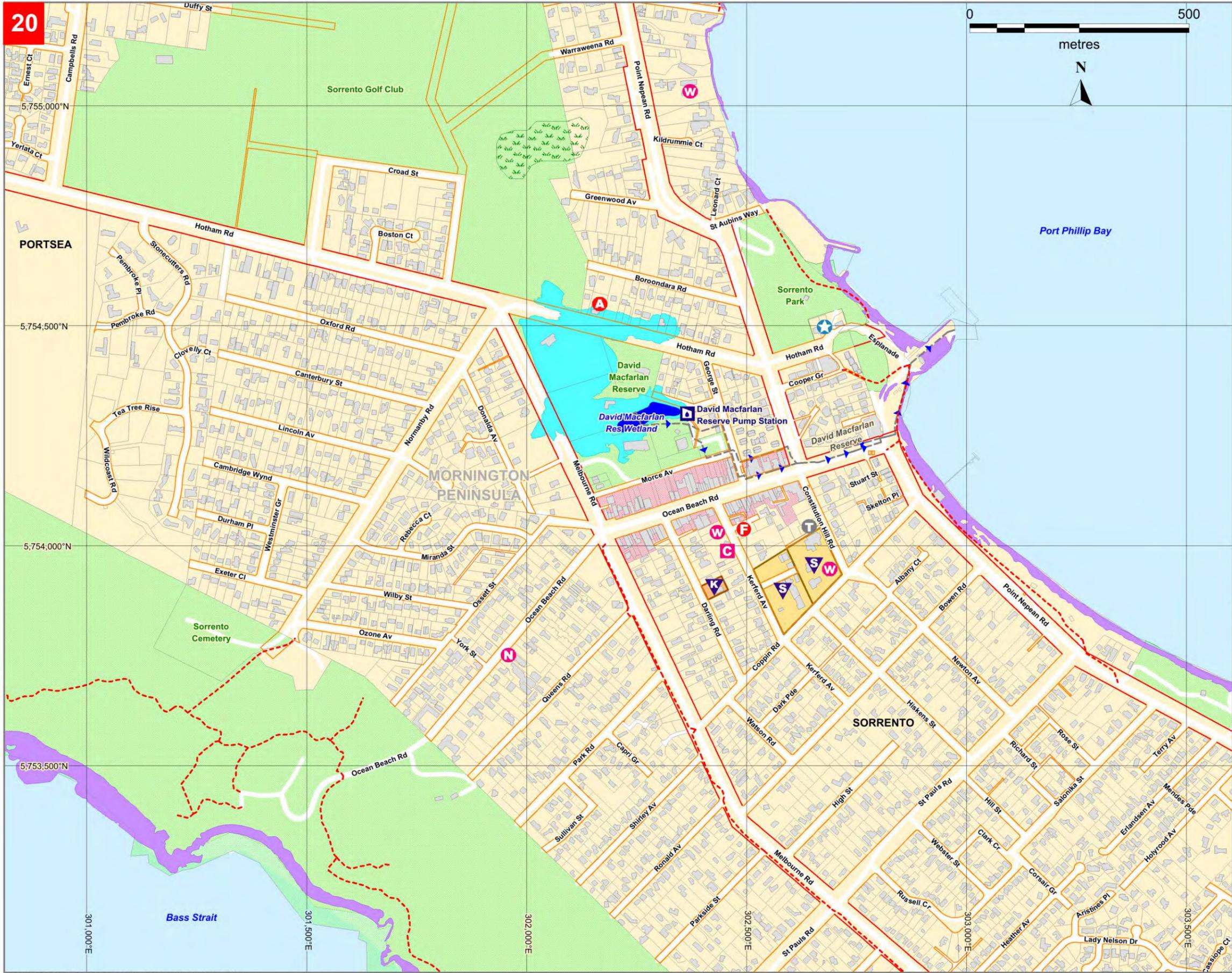
Flood Modelling completed by Melbourne Water. Map Produced by VicSES July 2017.

**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
**19. Chinamans Creek (Tootgarook Swamp) (Boneo)**

- |                                 |                                  |                          |
|---------------------------------|----------------------------------|--------------------------|
| Building                        | Melbourne Water Stormwater Drain | Municipal Offices        |
| Area of Interest                | Creek / Channel                  | Community Centre         |
| 1% AEP Riverine Flood Extent    | Bicycle / Walking Trail          | Police Station           |
| 1% AEP Storm Surge Flood Extent | School / College                 | Caravan Park             |
| Waterbody                       | Kindergarten / Child Care        | Nursing Home / Aged Care |
| Nursing Home / Aged Care        | Nursing Home / Aged Care         | CFA Fire Station         |
| Natural Wetland                 | State Emergency Service Unit     |                          |



**Melbourne Water**  
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- Building
- Area of Interest
- 1% AEP Flash Flood Extent (Depth Unavailable)
- 1% AEP Storm Surge Flood Extent
- Shopping Centre
- Waterbody
- Natural Wetland
- Melbourne Water Stormwater Drain
- Bicycle / Walking Trail
- Nursing Home / Aged Care
- Telephone Exchange
- Place Of Worship
- Ambulance Station
- CFA Fire Station
- Police Station
- Community Centre
- School / College
- Kindergarten / Child Care
- Drainage Pumping Station

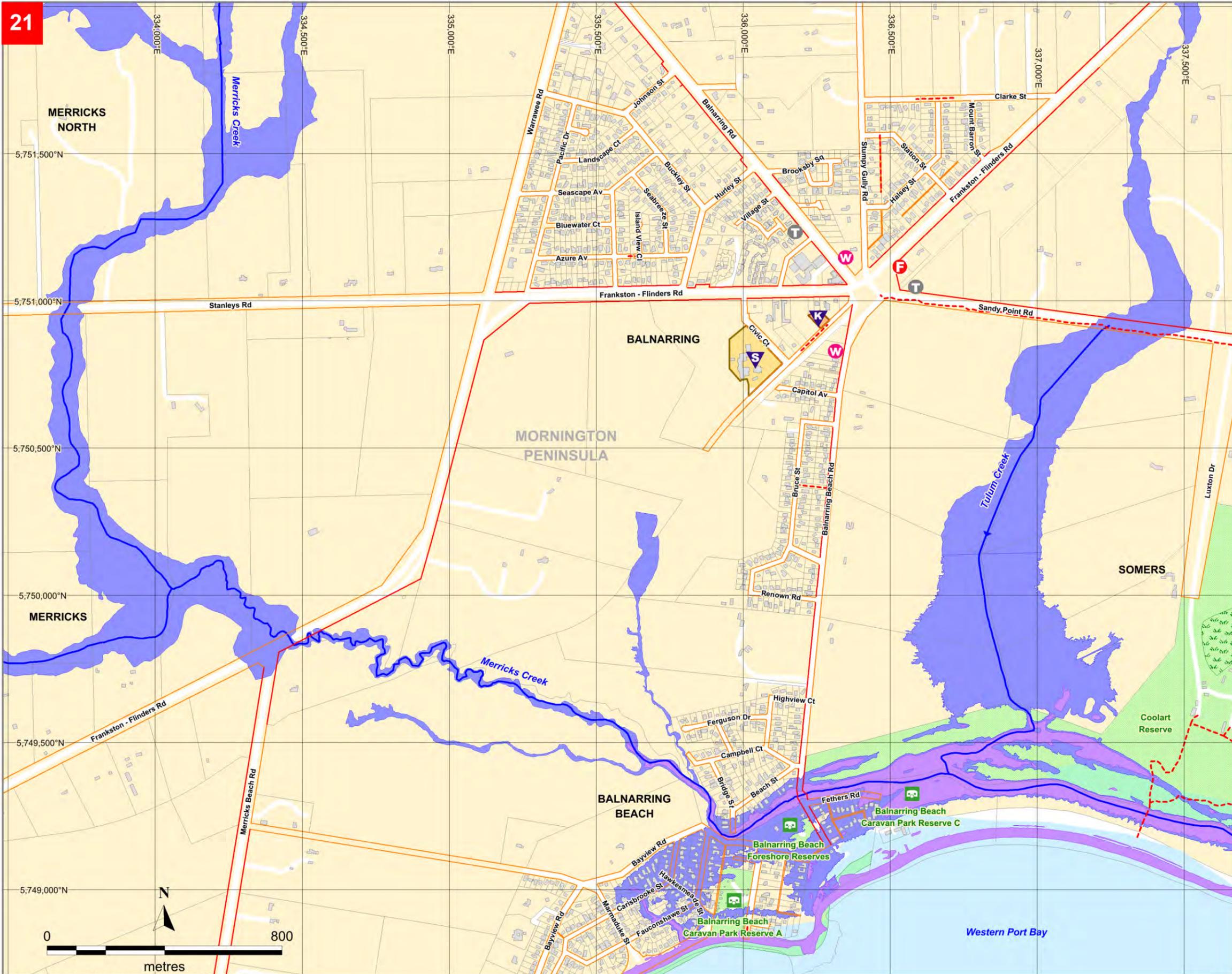


**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
 20. David Mafarlan Reserve Drain (Sorrento)



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Flood Modelling completed by Melbourne Water. Map Produced by VicSES June 2017.



- Building
- Area of Interest
- Natural Wetland
- 1% AEP Storm Surge Flood Extent
- 1% AEP Riverine Flood Extent
- Creek / Waterway
- Bicycle / Walking Trail
- Kindergarten / Childcare
- Place Of Worship
- CFA Fire Station
- Telephone Exchange
- Caravan Park



**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
 21. Merricks Creek (Balnarring Beach)



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Flood Modelling completed by Melbourne Water. Map Produced by VicSES July 2017.



- Building
- Area of Interest
- 1% AEP Riverine Flood Extent
- 1% AEP Storm Surge Flood Extent
- Creek / Channel
- Melbourne Water Stormwater Drain
- Bicycle / Walking Trail
- Nursing Home / Aged Care
- Caravan Park
- Camping Ground
- Telephone Exchange
- Place Of Worship



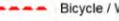
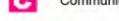
**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
**22 East Creek (Point Leo)**



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Flood Modelling completed by Melbourne Water. Map Produced by VicSES June 2017.



-  Building
-  Area of Interest
-  Natural Wetland
-  1% AEP Storm Surge Flood Extent
-  1% AEP Riverine Flood Extent
-  Creek / Waterway
-  Bicycle / Walking Trail
-  Community Centre
-  Place Of Worship
-  CFA Fire Station



**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
**23 Manton Creek (Shoreham)**



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Flood Modelling completed by Melbourne Water. Map Produced by VicSES July 2017.



Flood Modelling completed by Melbourne Water. Map Produced by VicSES July 2017.

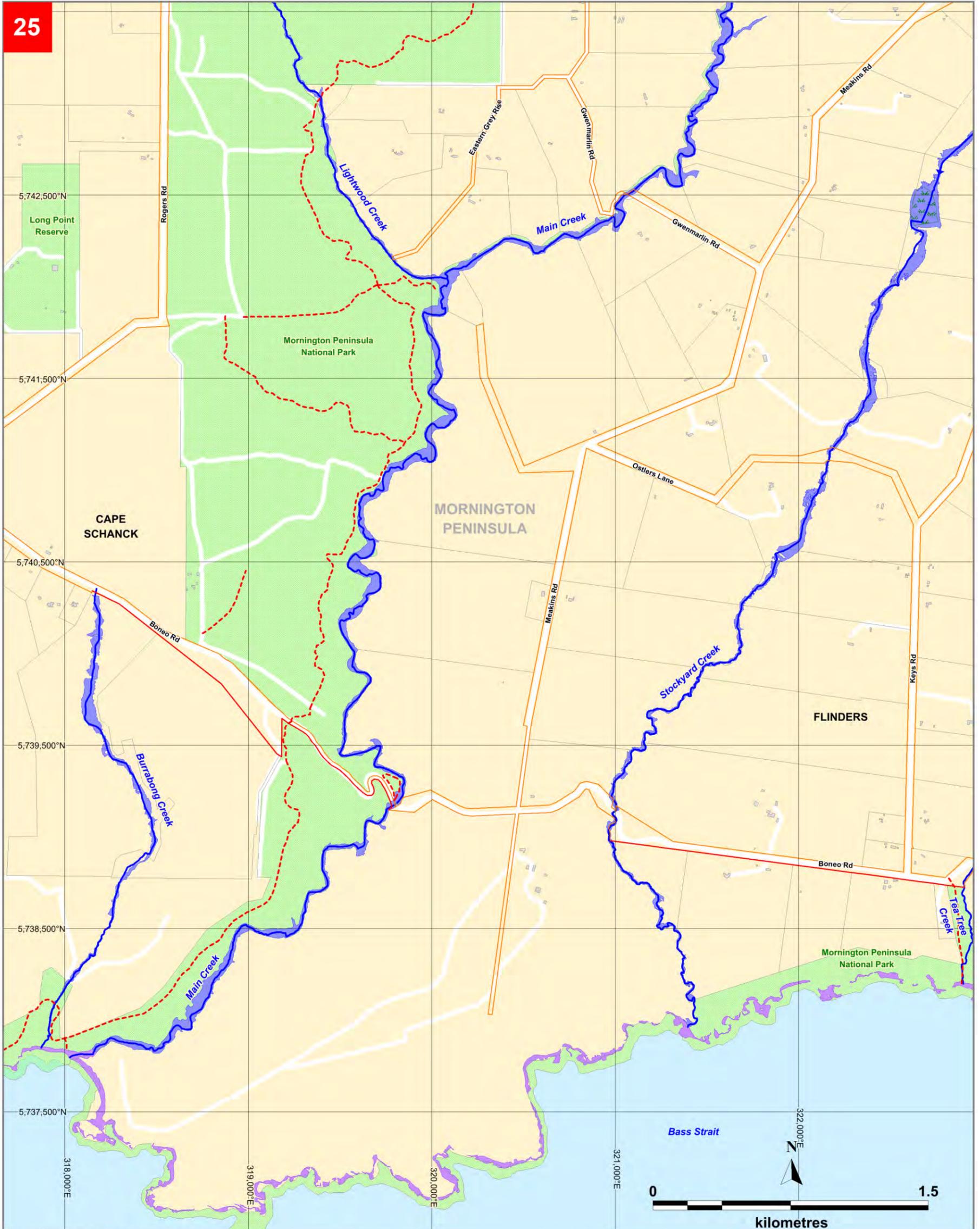
**MORNINGTON PENINSULA**  
 1% AEP (100yr ARI) Flooding  
 24. Double Creek (Flinders)

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**SES Victoria Melbourne Water**

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Flood Modelling completed by Melbourne Water. Map Produced by VicSES July 2017.

- Building
- Area of Interest
- 1% AEP Riverine Flood Extent
- 1% AEP Storm Surge Flood Extent
- Creek / Channel
- Bicycle / Walking Trail

**MORNINGTON PENINSULA**

1% AEP (100yr ARI) Flooding

**25. Main Creek (Cape Schanck)**



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