



Strathbogrie
shire

**Violet Town Flood Mitigation/Drainage
UPDATE MEETING**

Date/Time: 6:00 – 7:30pm Wednesday 9th May 2018

Venue: Violet Town Football/Netball Clubrooms

AGENDA

1. WELCOME AND INTRODUCTIONS

Chairperson - Mayor Amanda McClaren

Significant flooding from the Honeysuckle and Lambing Gonyah Creeks is recorded in 1916, 1974, 1993 and 1999. Modelling shows that the 1 in 100 year event floods 162 properties, 63 above the floor.

The cost to the community on average, per year, is approximate \$150,000.

In addition, flash flooding occurred in 2016, with 2 properties flooded above the floor.

2. BACKGROUND

Manager Infrastructure – Uwe Paffrath

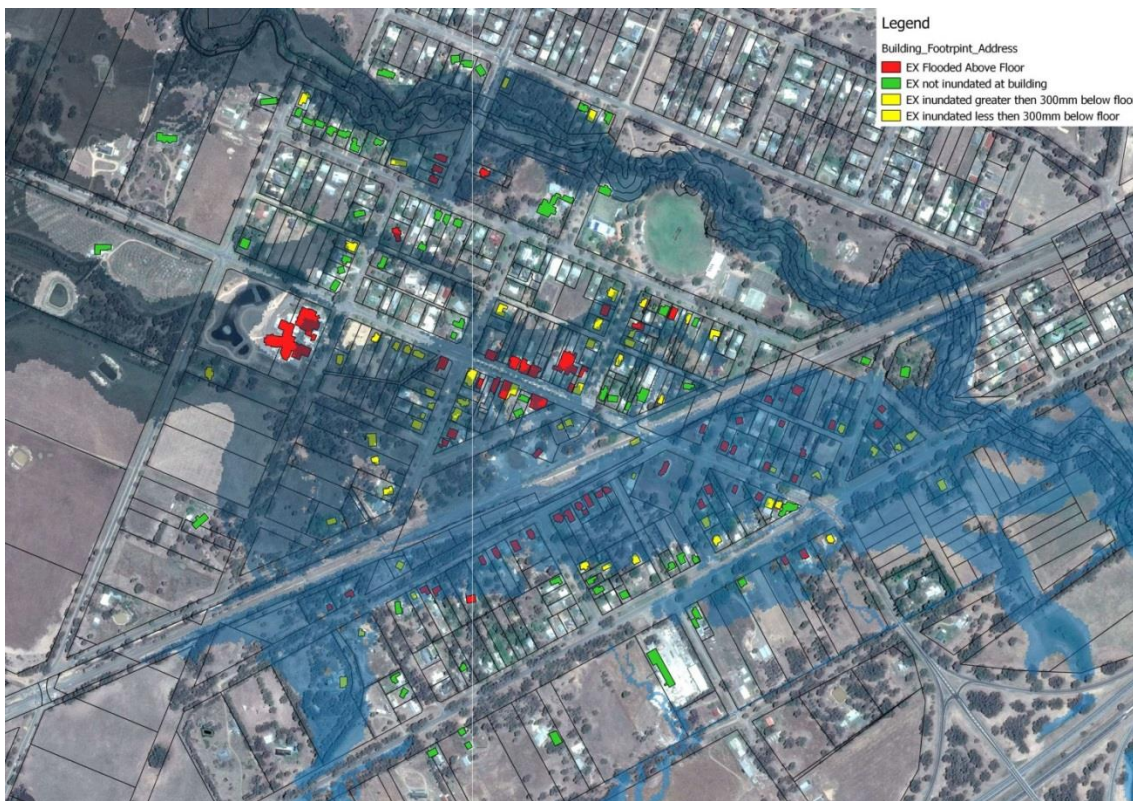
- **Council Plan 2017/18**

Strategy 2.2 – Mitigate and adapt to a changing climate

Action 2.2.3 – Hold a flood mitigation / drainage update meeting in Violet Town to form a consensus on future actions.

- **Flooding from Honeysuckle Creek**

Existing Flood Map (image courtesy Water Technology)



A Water Act 1989, “Violet Town Water Management Scheme” has been in the development phase for approximately 10 years. The features proposed are: -

- An earthen levee, 1 km long on the South bank of the Honeysuckle Creek between the rail line and the Hume Freeway.
- Improved culvert structures
- House protection, and
- Early Warning System

Council proposed to contribute \$100,000 from budget funds, and raise a further \$320,000 from benefitting landowners via a Special Charge Scheme.

Note – A Special Charge Scheme was used to fund the Euroa levee in 1998.

- **Levee Alignment**

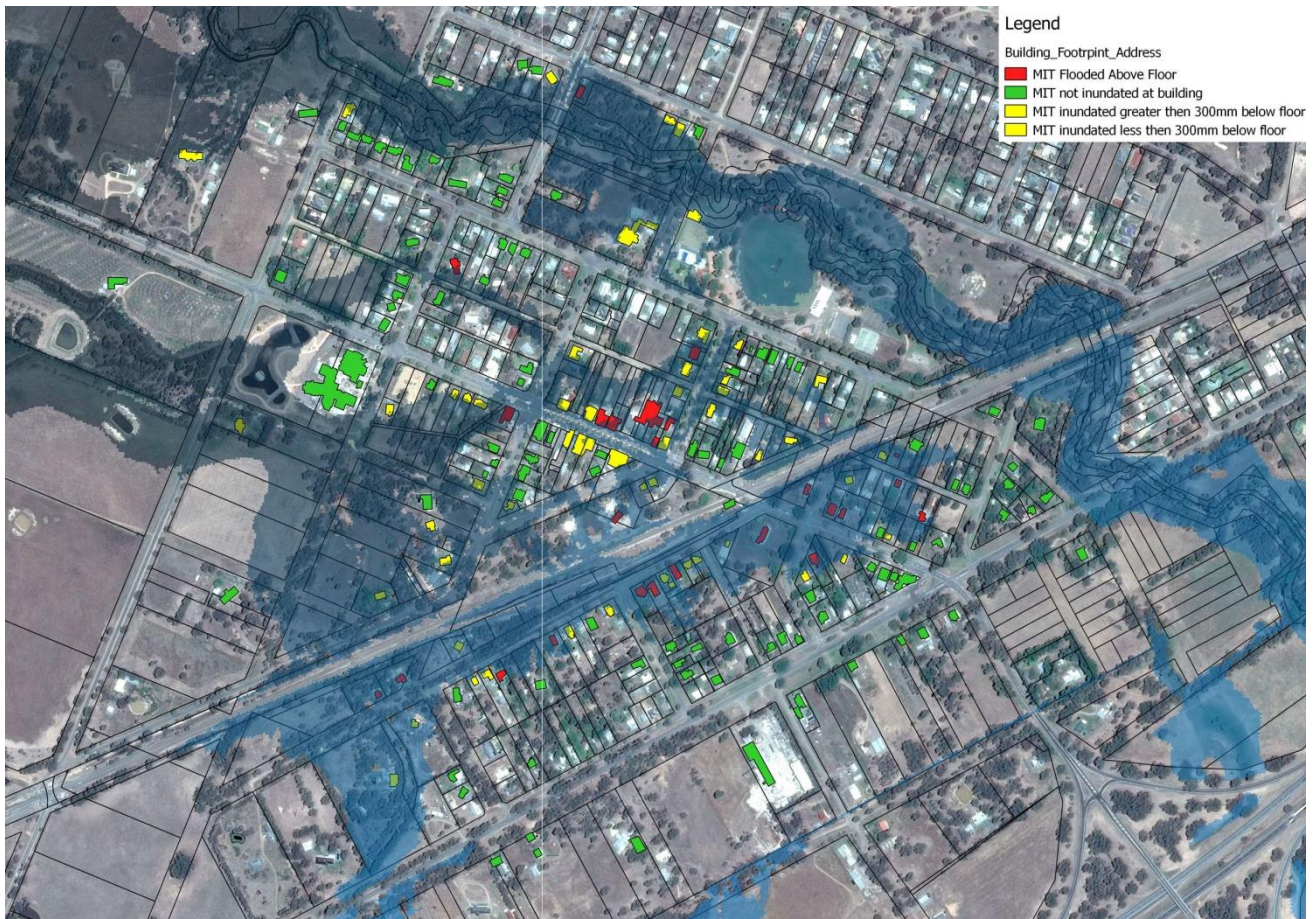
Total cost of \$1,260,000 to be shared equally between

Australian Government	\$420,000	
Victorian Government	\$420,000	
Local Contribution	\$420,000	(Combined Total \$1,260,000)

- **Project Cost**

Updating of documentation and designs	\$140,000
Construction Cost	\$860,000
Project Management Cost	\$ 50,000
Contingency (20%)	\$210,000
Total	\$1,260,000

Mitigated Flood Map (image courtesy Water Technology)



- **Council has been offered funding to update documentation and designs: -**
 - Update Impact Assessments
 - Update Floodplain Management Plan
 - Finalise Design Documentation
 - Consultation Process
 - Prepare “Levee Management Manual”
 - Update Floodplain Management Scheme
 - Funding for construction would be approved following finalization of the Floodplain Management Scheme.

Council suspended work as a result of risks which became apparent in the Water Act liability framework.

The risks relates to financial loss through legal challenge from Landowners, based on, for example: -

- Flood water exceeding that modelled
- Compensation not received or not adequate, or
- Works not adequate.

3. UPDATE ON THE SCHEME

- Council has obtained the assistance of the Municipal Association of Victoria (MAV) to have DELWP review the current liability framework in the Water Act 1989. In June 2017 the MAV coordinated a survey of regional Councils by Deloitte Access Economics, acting for DELWP, to examine the “Cost benefit analysis of changes to the Water Act 1989 liability framework for the flood mitigation infrastructure (Urban Levees in Regional Victoria). The outcome of the analysis is not yet known.
- The issue of liability and any outcomes of the review will need to be assessed prior to Council finalising any future floodplain management plan or proceeding with further construction work.

Information from DELWP

- Information (regarding liability and assurance arrangements) was received from a Senior Policy Officer from DELWP on 27th March 2018.

They advised: -

“...there are many other amendments to the Water Act proposed, which government needs to prioritise. We don't believe we would see our proposal considered during this term of government.”

4. VIOLET TOWN FLASH FLOODING

A 1 in 100 year flash flood event occurred on 29th December 2016.

Two houses were flooded above floor and flooding of outbuildings occurred at several properties, (see attached aerial maps).

Water Technology P/L was engaged by Council to investigate the circumstances at affected properties and to make recommendations to improve flood resilience.

The recommendations were listed on page 25 of the attached report “**Nagambie & Violet Town Flash Flood Investigations**”.

At the Council meeting of 16th May 2017 Council resolved to: -

1. Receive the report on the Nagambie and Violet Town Flash Flood Investigation.
2. Adopt the recommendations and set a maximum time frame of twelve months to have each of the recommendations acted upon to the extent possible.
3. Provide a copy of the report to the owners of land identified in the report, and offer assistance to develop and/or implement the recommended actions where needed.

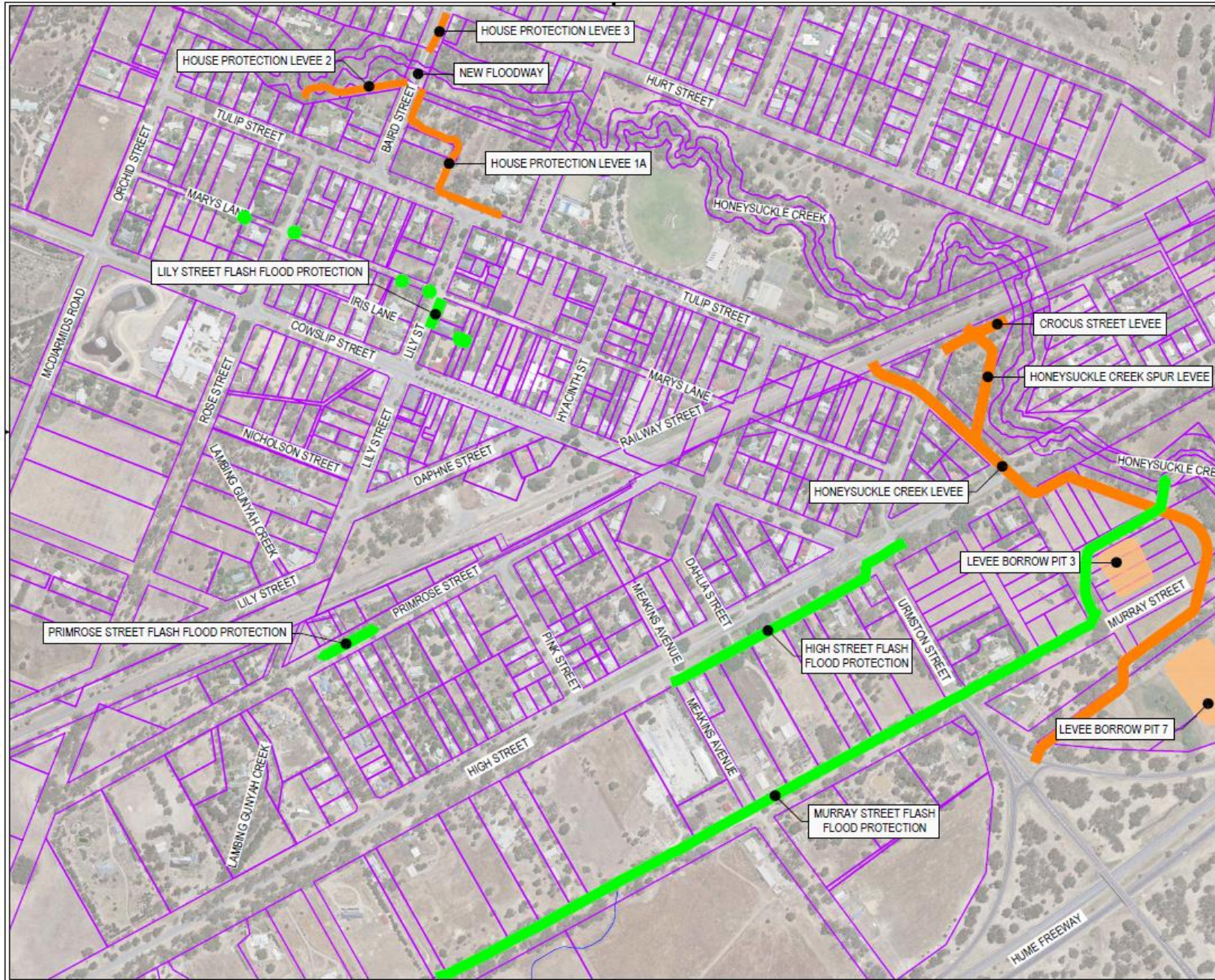
Engineering survey and design investigations undertaken by GMR Engineering Services, commenced December 2017.

Drainage / Flood Mitigation projects have been examined at 4 sites; briefly summarised as follows: -

Proposals and Costings

<i>Location</i>	<i>Description</i>	<i>Proposed Works</i>	<i>Estimated Cost \$ exc' GST</i>
High Street	Residents describe being inundated with flood water held back by the High Street road pavement. The impacted properties were along the east side of the south of Urmiston Street and north of Meakin Avenue.	To provide enhanced surface drainage along the east side of the road to protect the houses from inundation.	\$16,222.50
Murray Street	Residents described water entering their properties from the Murray Street drain and flooding across Urmiston Street.	To upgrade the drain to have status as Flood Mitigation Infrastructure.	\$100,000 (TBC)
Marys Lane and Lily Street	Residents describe the localised flooding due to the existing pipes and pits not having sufficient capacity to contain flows.	To improve the hydraulic capacity of the existing drain and allow for controlled surface relief.	\$17,251.50
Primrose Street	A resident describes flood waters entering his property from the Primrose Street road reserve due to inadequate drainage.	To construct a roadside drain to capture surface flows and direct drainage around the property.	\$17,508.75

Drainage Flood Mitigations Projects Overview



High Street & Murray Street Flood Model



Figure 3-2 Overland flow paths impacting properties on High Street, Violet Town

Marys Lane and Lily Street Flood model



Figure 3-3 Overland flow paths impacting 6A Lily Street, Violet Town

Primrose Street Flood Model

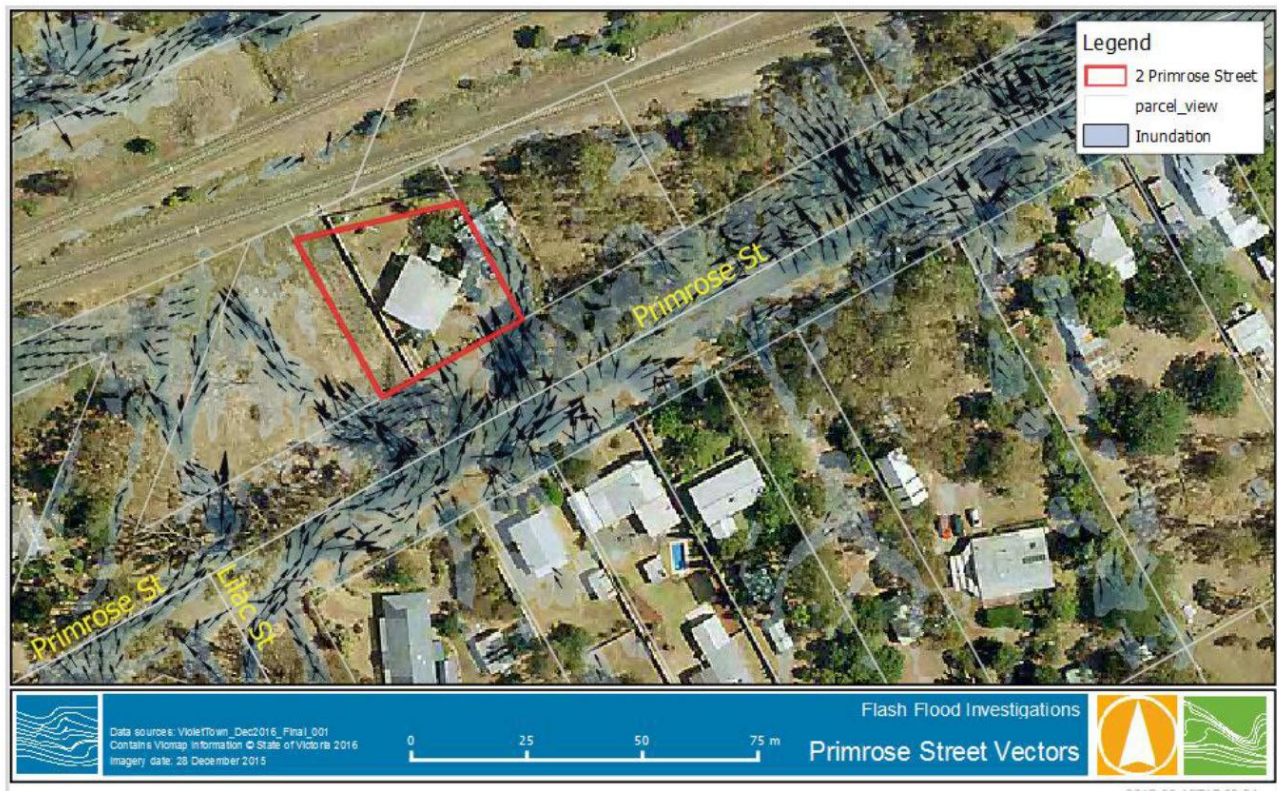


Figure 3-4 Overland flow paths impacting 2 Primrose Street, Violet Town

High Street



Murray Street Drain



Marys Lane & Lily Street



5. REGIONAL FLOODPLAIN MANAGEMENT STRATEGY

The Strategy was prepared by the Goulburn Broken Catchment Management Authority in consultation with Communities and Councils, and was adopted in January 2018, (refer attached).

Violet Town Projects

	Existing Flood Mitigation Infrastructure (levee)	Proposed Flood Mitigation Infrastructure (levee)
1	A rural drain, acting to divert floodwater away from an elevated section of the Old Hume Highway at Violet Town has been overtopped by flash flooding.	Upgrading and management of the Murray Street rural drain, together with localised bunding, or floor raising of houses, needs to be considered.
2	There is a community desire to implement the proposed Violet Town Floodplain Management Scheme which proposes a new flood levee to reduce above floor flooding in a 1% AEP (100-year ARI) type event from 63 to 17 properties.	Council intends to proceed with the establishment of a Water Management Scheme under the <i>Water Act (1988)</i> , when workable improvements are made by the State Government in relation to Councils legal liability under the Act.

Council has resolved to apply for funding for 3 priority projects, additional to the levee projects.

- Murray Street Drain (Violet Town)
- Castle Creek Levee (Euroa)
- Industrial Estate (Nagambie)

Applications are expected to open in June 2018.

6. COUNCILS DRAFT BUDGET 2018/19

Flood mitigation / drainage components: -

Stormwater drain survey –	\$ 15,000
Procedures for town maintenance –	\$ 12,000
Pit and pipe replacement program –	\$ 80,000
Flood investigation improvement works –	\$ 20,000
Flood investigation outcomes –	\$ 10,000
Violet Town Murray Street drain –	\$100,000

The draft budget will be on exhibition from Wednesday 2nd May 2018.

Submissions can be made until Thursday 31st May 2018.

Submissions will be heard on Tuesday 12th June 2018.

7. DISCUSSION OR QUESTIONS

Mayor McClaren

Please note: - Light refreshments will be provided