

FLOOD RESPONSE PROCEDURE – GOONDIWINDI LOCAL AREA

Version	Copy No.	Issued To:		Date
		Name	Organisation	

1. Purpose

The purpose of this procedure is to provide a framework of duties and responsibilities to be undertaken by Council, for a flooding event within the Goondiwindi town levee area of Goondiwindi Regional Council.

2. Scope

This procedure applies to the area within the Goondiwindi town levee of Goondiwindi Regional Council.

3. Flood Event Category – Macintyre Bridge Goondiwindi

In general terms, a minor flood is designated as 3.0m to 6.0m, a moderate flood as 6.0m to 8.5m and a major flood as greater than 8.5m.

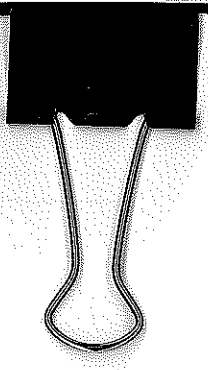
Category	Flood Height	
Minor	3.0m	6.0m
Moderate	6.0m	8.5m
Major	8.5m	

4. Historical and Possible Flood Information

Probable Maximum Flood (PMF) level – Gauge Reading 10.85m (35ft 7")

Date	Feet/ Inches	Gauge Reading	
		Goondiwindi	Boggabilla
September 2010	29ft 5.5"	8.98m	9.94m
January 1996	34ft 10"	10.61m	12.51m
May 1983	34ft 1.5"	10.40m	11.85m
February 1976	34ft 5.5"	10.50m	12.80m
December 1970	33ft 11"	10.34m	11.63m
Q100 (Predicted)	35ft 0.5"	10.68m	12.72m

⇒ In September 2010 at a gauge reading of 8.98m flood water crossed the Barwon Highway immediately west of the vacant industrial land near Goodar Road. The depth was estimated at 100mm.



QFCI

Date:

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Exhibit Number:

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- ⇒ Flood water overtopped the Corcoran creek block and gate at a river height of approximately 7m on the western side of the botanical gardens, entered the lake and forced water back into the drain from Sandal wood Drive.
- ⇒ Flood water surcharged through the disused pump at the end of Coleborn Road.

5. Storm Water System- Low Areas

Low points in the stormwater system, where flood water will surcharge out of storm water pits, if flood gates are left open during a flood event are detailed below.

System	Location	River Height	
		Metres	Feet/Inches
Boyle Street	21 Winton Street	7.75m	25ft 5"
Callandoon Street	76 Russell Street	7.75m	25ft 5"
Short Street	11 Everingham Drive	7.72m	25ft 4"
Brook Street	Picking Street (between Cairns & West Streets)	8.07m	26ft 5"
Herbert Street	North-eastern corner of Marshall Street & Moffatt Street	8.72m	28ft 7"
Pratten Street	Delacy Street (opposite Caravan Park)	9.65m	31ft 7"

6. Flood Pump Site Details

Location	Pump Name & No	Depth of Manhole	Comments
Pratten Street	Miller 5025	4.1m	
Boyle Street	Miller 5024	5.8m	
Short Street	Miller 5023	5.4m	
Herbert Street	Macquarie 5019	2.76m	Requires 540 PTO on tractor
Callandoon Street	Macquarie 5018	5.0m	Requires 540 PTO on tractor
Brook Street	Southern Cross 5032	5.15m	
River Gums Drive	Honda 75mm 6552	4.18m	

(a) Flood pumps must be in position and be operational at a river height of 7m. If storms are predicted staff are to be made available for shift work over night so that pumps can be started immediately.

(b) A risk assessment must be completed prior to installation of the pumps.

(c) As soon as advice is received that the expected height of the river will reach 9.5m or greater levees are to be slashed along the top for the full length and banks are to be mown in known problem areas such as Peter Smiths.

(d) Prior to a major flood level (8.5m) or greater being reached the Botanic garden pond should be lowered by approximately 1.2m through the control gate to Yambocully channel.

7. On-Going Maintenance

- ⇒ Flood gates and flaps are to be inspected and maintained quarterly. This includes herbicide control, greasing and other mechanical repairs as required.
- ⇒ All flood pumps are to be checked by Workshop staff on a quarterly basis as of March 2010
- ⇒ Levee banks are to be inspected at 6 monthly intervals and prior to and following advice of potential moderate to major flooding events

8. Flood Gate/Flap/Valve Intervention Levels

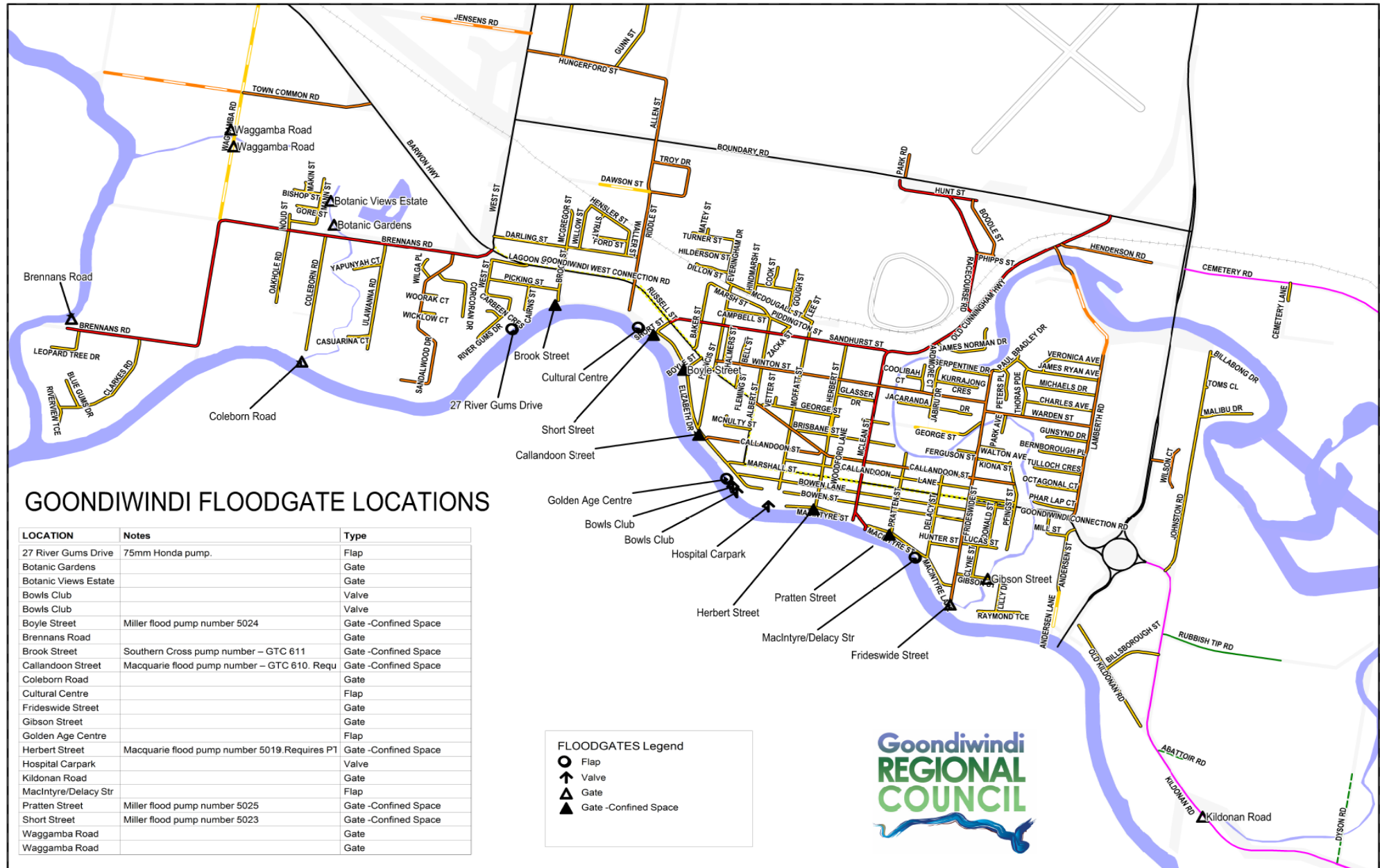
For a flooding event within the Goondiwindi local area, flood gates, valves & flaps shall be closed as listed and shown on the included map.

Flood Magnitude	Location	Qty	Type	Action	Comments	Responsible Person	Status
Minor to Moderate 3.8m	All those specifically identified below in bold text		Gates, valves and Flaps	Close all gates, valves and flaps at 3.8m excepting those specifically identified NOTE: ALL FLOOD GATES SHOULD BE OPENED SLOWLY TO REDUCE THE EFFECT OF POSSIBLE DRAWDOWN	Visually check that all gates have sealed following closure	Gary Smith	
	Town Common Road	1	Access gate on roadway	To be closed by Callandoon Water Board	Access will not be available to the public	Water Board Staff	
				Erect 'Road Closed' sign at the end of the sealed section of Town Common Road to	Sign to remain for the duration of the flood event	Gary Smith	
	Cultural Centre	1	Flap	Lock onto locating device	If this flap is not locked the flow direction will force it to open.	Gary Smith	
	Coleborn Road	1	Gate	Clean platform and check pump is locked and secure		Gary Smith	
	Waggamba Road	2	Gate			Gary Smith	
	Botanical Gardens	1			Inlet from Yambocully Channel to Botanical Gardens	Gary Smith	
	Brennans Road (West End)	1				Gary Smith	
	Botanical Gardens (West Side)	2	Gate	The footway on the eastern side of Botanical views estate should be sandbagged at height of less than 7m if river is expected to peak around 10m.	Gate near entrance to gardens & on walkway	Gary Smith	
	Hospital Carpark	1	Valve		Garden area	Gary Smith	
	Bowls Club	2	Valve		River end No. 2 Rink	Gary Smith	
	MacIntyre/Delacey	1	Flap		River	Gary Smith	

Flood Magnitude	Location	Qty	Type	Action	Comments	Responsible Person	Status
	Street						
	Golden Age Centre	1	Flap		River	Gary Smith	
	No.27 Rivergums Drive	1	Flap		River	Gary Smith	
	Marshall St/Pfingst St	1	Flap		Creek	Gary Smith	
	Pratten Street	1	Gate		River – Confined Space Entry	Gary Smith	
	Herbert Street	1	Gate		River – Confined Space Entry	Gary Smith	
	Callandoon Street	1	Gate		River – Confined Space Entry	Gary Smith	
	Boyle Street	1	Gate		River – Confined Space Entry	Gary Smith	
	Short Street	1	Gate		River – Confined Space Entry	Gary Smith	
	Brook Street	1	Gate		River – Confined Space Entry	Gary Smith	
Major	Various – Refer to map	7	Flood Pumps	Position Flood Pumps and erect area/road closed signs	Pumps are to remain until level falls below 3.8m. If further rises are predicted leave in position.	Tyson Raymond/crew & Mechanic	
	Cunningham Hwy Roundabout		Removable Boards	Insert plywood boards into angle iron sleeves on culvert at highway roundabout	Inserted when Serpentine Creek is at it's maximum level of 215.26m (nail in pier)	Gary Smith	
	Kildonan Road	1	Gate	Monitor water levels & close when necessary		Gary Smith	
	Marshall Street	1	Earth Bank	Construct earth bank across Serpentine Creek when Creek is at maximum level (nail in pier)	Excess water from Northern side can be pumped over bank if necessary	Gary Smith	
	Frideswide Street	1	Gate	Close at 8m or when flood water has filled the water park and level has reached maximum height at the stockyard bridge in Lamberth Road (nail in timber pier at RL 215.26m)		Gary Smith	
	Raymond's Subdivision	1	Gate	Close while Serpentine Creek is being filled; however if it is raining leave open and monitor	Monitor	Gary Smith	
	Gibson St (culvert)	1	Flap		Creek	Gary Smith	

Flood Magnitude	Location	Qty	Type	Action	Comments	Responsible Person	Status
	Mann Street	2	Flap		Creek	Gary Smith	
	Urban & Rural Area Town Levee		Earth Levee	Regular Inspections	Ensure that levee is adequate, not leaking or is in danger of being overtopped	Gary Smith in Urban area, Rural Services staff in the rural area	
	Yambocully Drain	1	Gate	Discharges from Yambocully main supply channel.	Monitor	Gary Smith	
	Johnston Road	4	Flap		3 to drain 1 to Ck (has GPT)	Gary Smith	
	Malibu Drive	1	Flap		Has GPT.	Gary Smith	
	Kildonan Road	2x150 mm, 4x 150mm	Flap		On levee bank	Gary Smith	
	Pfingst Street	2	Flap		Creek	Gary Smith	
	Octagonal Court	1	Flap		Creek	Gary Smith	
	Tulloch Court	1	Flap		Creek	Gary Smith	
	Bernborough Court	1	Flap		Creek	Gary Smith	
	Park Avenue	1	Flap		Creek	Gary Smith	
	Ardmore Court	1	Flap		Creek	Gary Smith	
	Coolabah Court	1	Flap		Creek	Gary Smith	
	Jacaranda Drive (West)	1	Flap		Creek	Gary Smith	
	Frideswide Street (North)	1	Flap		Creek	Gary Smith	
	James Ryan Drive (North West)	1	Flap		Creek	Gary Smith	
	Veronica Place	1	Flap		Creek – Lamberth Rd.	Gary Smith	
	James Norman Drive	2	Flap		Both have GPTs. – Ck.	Gary Smith	
	Henderson Road	1	Flap		Ck, Dean's Panel Works	Gary Smith	
	George Street (East)	2	Flap		Creek	Gary Smith	
	Serpentine Drive (West)	1	Flap		Creek	Gary Smith	
	Jabiru Drive	1	Flap		Creek	Gary Smith	

9. Flood Gate Location





FLOOD RESPONSE CHECKLIST – GOONDIWINDI LOCAL AREA

The following flood gates, flaps and/or valve were			
Opened/Closed by		Checked by	
Name:	Date:	Name:	Date:

The following flood gates, flaps and/or valves are to be closed at 3.8 metres. Visually check that all gates have sealed following closure. A map of flood gate locations is attached. **NOTE: ALL FLOOD GATES SHOULD BE OPENED SLOWLY TO REDUCE THE EFFECT OF POSSIBLE DRAWDOWN**

Location	Qty	Type	Action	Comments	Opened	Closed
Town Common Road	1	Access gate on roadway	To be closed by Callandoon Water Board	Access will not be available to the public		
			Erect ‘Road Closed’ sign at the end of the sealed section of Town Common Road	Sign to remain for the duration of the flood event		
Cultural Centre	1	Flap	Lock onto locating device	If this flap is not locked the flow direction will force it to open.		
Coleborn Road	1	Gate	Clean platform and check pump is locked and secure			
Waggamba Road	2	Gate	One gate in GRC paddock is kept locked.			
Botanical Gardens	1			Inlet from Yambocully Channel to Botanical Gardens		
Brennans Road (West End)	1					
Botanical Gardens (West Side)	2	Gate	The footway on the eastern side of Botanical views estate should be sandbagged at height of less then 7m if river is expected to peak around 10m.	Gate near entrance to gardens & on walkway		
Hospital Carpark	1	Valve		Garden area		
Bowls Club	2	Valve		River end No. 2 Rink		
MacIntyre/Delacy Street	1	Flap		River		
Golden Age Centre	1	Flap		River		
No.27 Rivergums Drive	1	Flap		River		
Marshall St/Pfingst St	1	Flap		Creek		
Pratten Street	1	Gate		River – Confined Space Entry		
Herbert Street	1	Gate		River – Confined Space Entry		
Callandoon Street	1	Gate		River – Confined Space Entry		
Boyle Street	1	Gate		River – Confined Space Entry		
Short Street	1	Gate		River – Confined Space Entry		
Brook Street	1	Gate		River – Confined Space Entry		



GOONDIWINDI FLOODGATE LOCATIONS

LOCATION	Notes	Type
27 River Gums Drive	75mm Honda pump.	Flap
Botanic Gardens		Gate
Botanic Views Estate		Gate
Bowls Club		Valve
Bowls Club		Valve
Boyle Street	Miller flood pump number 5024	Gate -Confined Space
Brennans Road		Gate
Brook Street	Southern Cross pump number – GTC 611	Gate -Confined Space
Callandoon Street	Macquarie flood pump number – GTC 610. Requ	Gate -Confined Space
Coleborn Road		Gate
Cultural Centre		Flap
Frideswide Street		Gate
Gibson Street		Gate
Golden Age Centre		Flap
Herbert Street	Macquarie flood pump number 5019.Requires PT	Gate -Confined Space
Hospital Carpark		Valve
Kildonan Road		Gate
MacIntyre/Delacy Str		Flap
Pratten Street	Miller flood pump number 5025	Gate -Confined Space
Short Street	Miller flood pump number 5023	Gate -Confined Space
Waggamba Road		Gate
Waggamba Road		Gate

- FLOODGATES Legend
- Flap
 - ↑ Valve
 - ▲ Gate
 - ▲ Gate -Confined Space





FLOOD RESPONSE CHECKLIST – GOONDIWINDI LOCAL AREA

The following flood gates, flaps and/or valve were

Opened/Closed by

Checked by

Name:	Date:	Name:	Date:
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The following flood gates, flaps and/or valves are to be closed at 8.5 metres. Visually check that all gates have sealed following closure. A map of flood gate locations is attached. **NOTE: ALL FLOOD GATES SHOULD BE OPENED SLOWLY TO REDUCE THE EFFECT OF POSSIBLE DRAWDOWN**

Location	Qty	Type	Action	Comments	Opened	Closed
Various – Refer to map	7	Flood Pumps	Position Flood Pumps and erect area/road closed signs	Pumps are to remain until level falls below 3.8m. If further rises are predicted leave in position.		
Cunningham Hwy Roundabout		Removable Boards	Insert plywood boards into angle iron sleeves on culvert at highway roundabout	Inserted when Serpentine Creek is at it's maximum level of 215.26m (nail in pier)		
Kildonan Road	1	Gate	Monitor water levels & close when necessary			
Marshall Street	1	Earth Bank	Construct earth bank across Serpentine Creek when Creek is at maximum level (nail in pier)	Excess water from Northern side can be pumped over bank if necessary		
Frideswide Street	1	Gate	Close at 8m or when flood water has filled the water park and level has reached maximum height at the stockyard bridge in Lamberth Road (nail in timber pier at RL 215.26m)			
Raymond's Subdivision	1	Gate	Close while Serpentine Creek is being filled; however if it is raining leave open and monitor	Monitor		
Gibson St (In Culverts)	1	Flap		Creek		
Urban & Rural Area Town Levee		Earth Levee	Regular Inspections	Ensure that levee is adequate, not leaking or is in danger of being overtopped		
Yambocully Drain	1	Gate	Discharges from Yambocully main supply channel.	Monitor		
Johnston Road	4	Flap		3 to drain 1 to Ck (has GPT)		
Malibu Drive	1	Flap		Has GPT.		
Kildonan Road	2x150mm,4x150mm	Flap		On levee bank		
Pfingst Street	2	Flap		Creek		
Octagonal Court	1	Flap		Creek		

Tulloch Court	1	Flap		Creek		
Bernborough Court	1	Flap		Creek		
Park Avenue	1	Flap		Creek		
Ardmore Court	1	Flap		Creek		
Coolabah Court	1	Flap		Creek		
Jacaranda Drive (West)	1	Flap		Creek		
Frideswide Street (North)	1	Flap		Creek		
James Ryan Drive (North West)	1	Flap		Creek		
Veronica Place	1	Flap		Creek – Lamberth Rd.		
James Norman Drive	2	Flap		Both have GPTs. – Ck.		
Henderson Road	1	Flap		Ck, Dean's Panel Works		
George Street (East)	2	Flap		Creek		
Serpentine Drive (West)	1	Flap		Creek		
Jabiru Drive	1	Flap		Creek		
Mann Street	2	Flap	One flap is leaking and requires maintenance	Creek		

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Boyle Street	Miller flood pump number 5024	Gate - Confined Space
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Brook Street	Southern Cross pump number – GTC 611	Gate - Confined Space
Callandoon Street	Macquarie flood pump number – GTC 610. Requ	Gate - Confined Space
Coleborn Road		Gate
Cultural Centre		Flap
Frideswide Street		Gate
Gibson Street		Gate
Golden Age Centre		Flap
Herbert Street	Macquarie flood pump number 5019. Requires P1	Gate - Confined Space
Hospital Carpark		Valve
Kildonan Road		Gate
MacIntyre/Delacy Str		Flap
Pratten Street	Miller flood pump number 5025	Gate - Confined Space
Short Street	Miller flood pump number 5023	Gate - Confined Space
Waggamba Road		Gate
Waggamba Road		Gate

FLOODGATES Legend

- Flap
- ↑ Valve
- ▲ Gate
- ▲ Gate - Confined Space

