



Trevor Arnold ESM

Manager Operations and Safety

Get the training you can trust



Who are we:

- Australian owned
- Brisbane headquarters
- National and international operations
- Veteran owned and proud employer of veterans

We provide:

- Highly-trained personnel
- Cutting-edge technology and equipment
- Nationally-accredited training RTO 45395
- World class training facility

Education and Training



Stronger together:

- Nationally recognised public safety education and hands-on training
- Transferrable to real emergencies and real industry work
- CASA accredited courses
- Ground-breaking mental health training for first responders



ONE
RESPONSE

Response and resource sharing



- Highly trained and motivated responders (mostly ex veteran or emergency services)
- High clearance vehicles
- Pioneering jet ski's in Swiftwater rescue (following the Los Angeles County model)
- Flood and work boats for rescue, re-supply and evacuation
- International world's best practice training (medal winning Swiftwater rescue teams)
- Ever expanding fleet of helicopters, and Remote piloted aircraft. (RPAS)
- Our RPAS meet the new standard for cyber security unlike many commercial companies
- State of the art incident management and control centre

We are part of the solution



Key issues:

- **Defence:** Over-reliance on the ADF for disaster response and recovery
- **Cost:** Natural disasters are an increasingly heavy burden on taxpayers
- **Strategic environment:** Disaster response is segmented
- **Capacity:** Peak season Demand surge on people and equipment
- **Personnel:** Over-reliance on volunteer personnel when extended availability and capability is required
- **Needs:** We believe that one of the solutions is in a Public, Private, Partnership model





Working together



Keeping our people safe is obviously the highest priority along with the environment and infrastructure

Reference the iResponder program with LGA in South Australia

You wouldn't drive into bushfire



So why would you drive into floodwater?



People keep dying in floodwaters!



Woman, boy die in floodwaters in Central Queensland

From: The Courier-Mail

February 07, 2010

'Driver swept to death' by floods

From: news.com.au

January 03, 2011

Man dies in Gippsland floodwaters

ABC news

August 15, 2011

Missing boy's body found

ABC Shepparton

January 18, 2011

Divers find body of man in 4WD swept away by floodwaters in central Queensland

Andrew MacDonald

The Courier-Mail

December 09, 2010

Man's body found in Deception Creek near Many Peaks

AAP

March 22, 2011

Still dying in floodwaters!



Woman dies in northern NSW floodwaters after being swept off road

News.com.au

March 29, 2014

A man who was swept into a drain by flash flood waters from Sydney's storm has died this afternoon

The Daily Telegraph

March 24, 2014

Police search Dandenong Creek for child

The Age

10 September, 2014

Man dies at Kilcoy after driving into floodwaters

The Chronicle

February 25, 2013

Man drowns in floodwaters near Grafton

NBN News

February 1, 2012

Man drowns in Qld floodwaters

THE HERALD SUN

February 26, 2013

Recent studies



1900-2015 Fatalities in natural disasters

- 1859 Deaths - Floods
- 5000 Deaths – Heatwave
- 1200 Deaths - Cyclones
- 900 Deaths - Bushfires
- 700 Deaths – Storms

Flood related deaths 2000 – 2015

- 182 people lost their life
- Highest cause of death was trying to cross flood waters (depth & speed underestimated)
- 2nd highest cause was working around flood waters
- Large increase in people in or trying to get out of 4wd vehicles

Creek bridge in floodwaters





10/01/2011 03:16 PM







10/01/2011 03:34 PM



10/01/2011 03:38 PM

Pre-planning

Just responding is futile, pre-planning keeps people safe.
Understanding local risks is vital



- Soft road closures rarely work
- Drive to road conditions on the way to the scene
- Weather conditions
- Working and travelling at night
- Never drive through floodwaters unless absolutely sure of its depth

**Never drive through floodwater unless
absolutely sure of its depth**



One page plan

Swiftwater Rescue – WINGATE ROAD, BUCHFELDE	
Historical Event	<p>A number of rescues have been conducted at this location as vehicles drive through the crossing and becomes stuck. The majority of these have entered the water river right.</p> <p>Generally RIVER RIGHT provides best access and work area.</p>
Location Address	<p>Wingate Road, Buchfelde Wingate Road, Hillier</p> <p>Closest property: 205 Wingate Road, Hillier, is located on river left</p> <p>Note: When entered without a property number into vehicle GPS you may be taken to a dirt road on the northern side of the Northern Expressway. You seek a sealed road south of Expressway.</p>
Access Direct	<p>Via Northern Expressway: RIVER RIGHT access - Two Wells Road exit from Expressway. Exit first roundabout towards Gawler and go under Expressway, exit second roundabout onto Wingate Road (second exit) follow Wingate Road to river. <i>Note:</i> Do not take dirt road to north of Expressway if suggested by GPS system. <i>Note:</i> If travelling south on Expressway there is no exit onto Two Wells Road, use onramp against traffic flow with care. When reach the roundabout Wingate Road is immediately to the right. RIVER LEFT access - Angle Vale Road exit from Expressway. Exit roundabouts towards Evanston. Continue approx. 600m and Wingate Road is located on left. Follow for 2km to river. <i>Note:</i> Slow when passing property 204 & 205 Wingate Road as road drops quickly to river.</p> <p>An emergency crossover is located on the Northern Expressway in line with Hillier Road & Eliza Road. These roads can also be accessed from the Expressway by breaching the gates in the fence line.</p>
Maps UBD	UBD map 22 C16
CFS Map book	MLR map 177D (pg 90) GR876672
LocationSA	http://bit.ly/WingateRd
Communication	
Local talkgroup	Salisbury SES: E57 CFS LIGHT GROUP: G100 MFS: <i>Request Multiagency talkgroup early</i>
Helo talkgroup	Talkgroup G20
Equipment and Training	<ul style="list-style-type: none"> • Appropriately trained and competent personnel • PFD and throwbag for working in the hazard zone • Upstream spotters • Downstream back ups
Resources In addition to	Bolt cutters may be required to breach gates closing Wingate Road on both sides of the river. Gates are closed when water crossing road is 300mm or





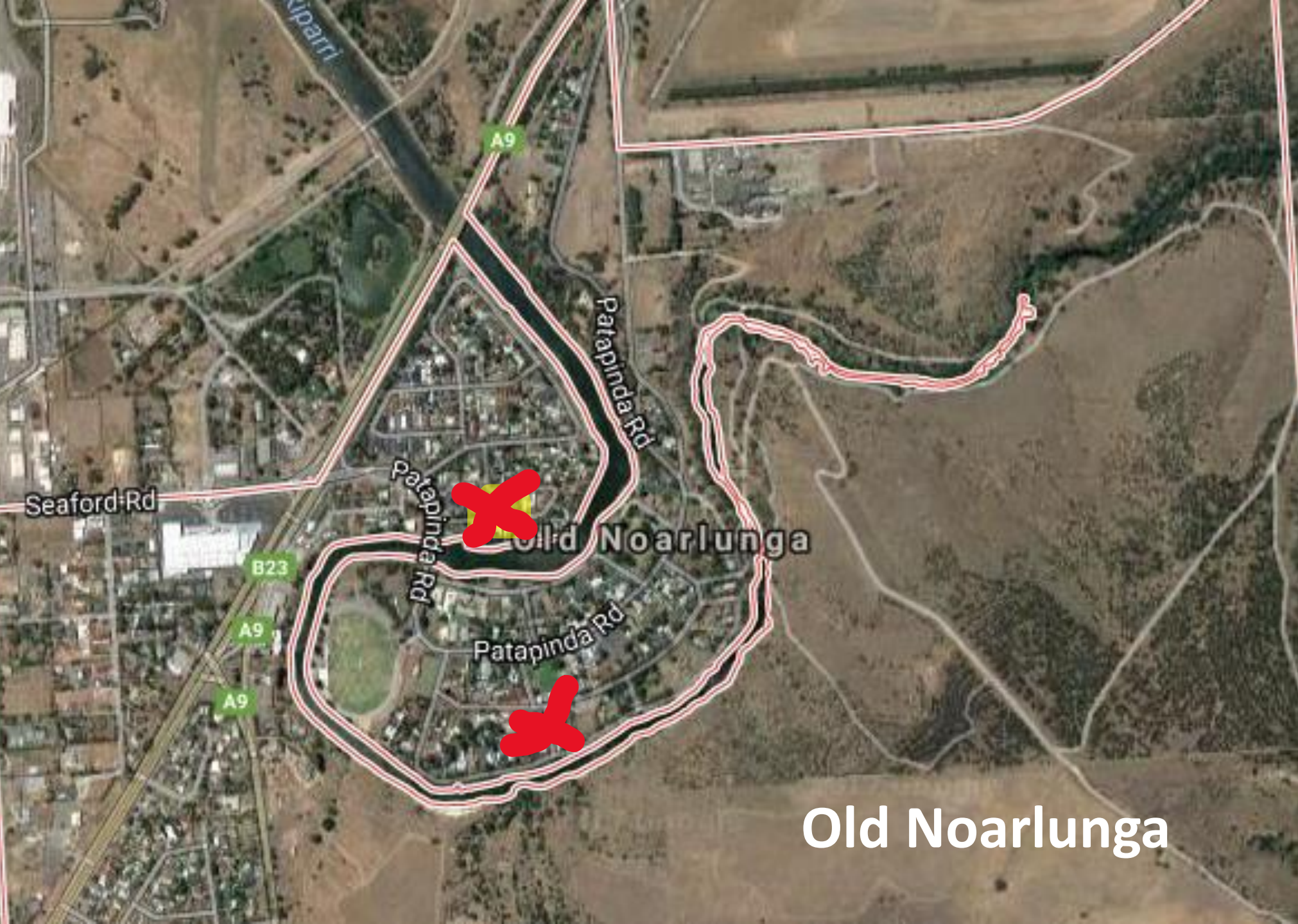
Downstream

River left

River right

Upstream





Old Noarlunga



Audit & Risk Management Services

Safe Working Around Water for Field Staff





Happy to take any questions

Thank you

References

Local Government Association South Australia

SA State Emergency Service

Rescue3 International



Your partner in public safety

