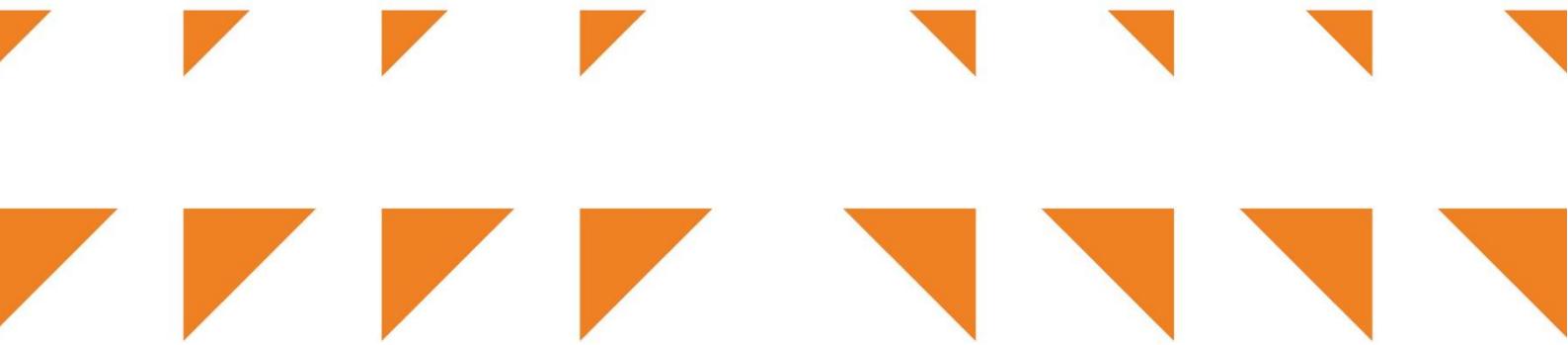




Timber Creek Local Emergency Plan



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1. Document control

1.1. Governance

Document title	Timber Creek Local Emergency Plan
Contact details	NT Emergency Service, Planning and Preparedness Command
Approved by	Territory Controller
Date approved	30 December 2014
Document review	Annually
TRM number	04-D25-107668

1.2. Version history

Date	Version	Author	Summary of changes
30/12/2014	1	John McRoberts	First version
04/11/2015	2	Reece P Kershaw	Reviewed and updated
03/12/2016	3	Kate Vanderlaan	Reviewed and updated
29/11/2018	4	Travis Wurst	Reviewed and endorsed by the Regional Controller, as the Territory Controller's delegate
12/02/2020	5	Michael Hebb	Reviewed and endorsed by the Regional Controller, as the Territory Controller's delegate
17/11/2020	6	Travis Wurst	Reviewed and endorsed by the Regional Controller, as the Territory Controller's delegate
13/01/2022	7	Janelle Tonkin	Reviewed and endorsed by the Regional Controller, as the Territory Controller's delegate
20/06/2023	8	Travis Wurst	Reviewed and endorsed by the Regional Controller, as the Territory Controller's delegate
13/06/2024	9	Matthew Hollamby	Reviewed and endorsed by the Regional Controller, as the Territory Controller's delegate
11/03/2025	10	Peter Malley	Reviewed and endorsed by the Regional Controller, as the Territory Controller's delegate
06/01/2026	11	James A O'Brien	Reviewed and endorsed by the Regional Controller, as the Territory Controller's delegate

Disclaimer: Every effort has been made to ensure that the information contained within this plan is accurate and where possible reflects current best practice. However, the Northern Territory Emergency Service does not give any warranty or accept any liability in relation to the content of material contained in the document.

1.3. Local Emergency Committee members and key stakeholders engaged for review

The following Local Emergency Committee members and key stakeholders were engaged with during the review of the Timber Creek Local Emergency Plan, to ensure it addresses the specific needs of the community.

Agency/organisation	Name	Role/position
Department of Housing, Local Government and Community Development	Hailey McCoy	Committee member
Department of Logistics and Infrastructure	Jessica De Masson	Committee member
NT Emergency Service	Jamie Richardson	Planning Officer
NT Emergency Service	Mark Cunnington	Operations Manager
NT Emergency Service	Dave Travers	Operations Officer
NT Police Force	Andrew McBride	Sergeant/Local Controller
Timber Creek School	May Martin	Committee member
Timber Creek Travellers Rest	Chris Wood	Committee member
Victoria Daly Regional Council	Kelly White	Committee member

2. Acknowledgement of Country

The Northern Territory Fire and Emergency Services (NTFES) and the Northern Territory Police Force (NTPF) acknowledges the First Nations people throughout the Northern Territory (NT), from the red sands of Central Australia to the coastal people in the Top End.

We recognise their continuing connection to their lands, waters and culture. We also pay our respects to the Aboriginal and Torres Strait Islander people with whom we work and who we serve and protect.

We pay our respects to the Aboriginal and Torres Strait Islander cultures, and to their leaders past, present and emerging.

3. Introduction

3.1. Purpose

The purpose of this Plan is to describe the emergency management arrangements for Timber Creek Locality (the Locality).

3.2. Application

This Plan applies to the Locality.

3.3. Key considerations

The *Emergency Management Act 2013* (the Act) is the legislative basis for emergency management across the NT. The Act reflects an all hazards approach to emergency and disaster events, natural or otherwise. It provides for the adoption of measures necessary for the protection of life and property from the effects of such events.

The Act defines the emergency management structures, roles and responsibilities for the NT and, in conjunction with the Territory and Regional Emergency Plan(s), form the basis for this Plan.

This Plan:

- confirms appointment of a Local Emergency Controller
- confirms establishment of the Local Emergency Committee (LEC)
- confirms appointment of a Local Recovery Coordinator
- confirms establishment of a Local Recovery Coordination Committee
- assesses hazards most likely to affect the community
- specifies control and coordination arrangements for mobilisation of local, and if necessary, regional resources
- identifies roles and responsibilities of key stakeholders
- details specific emergency response procedures for the higher risk situations

4. Locality context

This Plan complements the Northern Regional Emergency Plan¹ as it relates to the Locality. For further information on the hierarchy of plans, refer to the Territory Emergency Plan². The Locality covers approximately 8,000 square kilometres (km) and is located 265 km due west of Katherine and forms part of the Northern Region, as defined by the Territory Emergency Plan.

The Locality is located along the NT and Western Australia (WA) border, and holds pre-existing arrangements between the NTPF and WA Police for responding to requests for police assistance in cross-jurisdictional communities and outstations. However, emergency management responsibilities and arrangement are confined within the NT boundary, with any requests for cross jurisdictional assistance are to be directed through the Emergency Operations Centre (EOC) via an embedded police liaison.

The population of the Locality is approximately 350, with an approximate 100 persons working onsite at Bradshaw, however, this number increases or decreases depending on weather conditions, school holidays, ceremonies, funerals and sporting events.

The population centres within the Locality are estimated as follows:

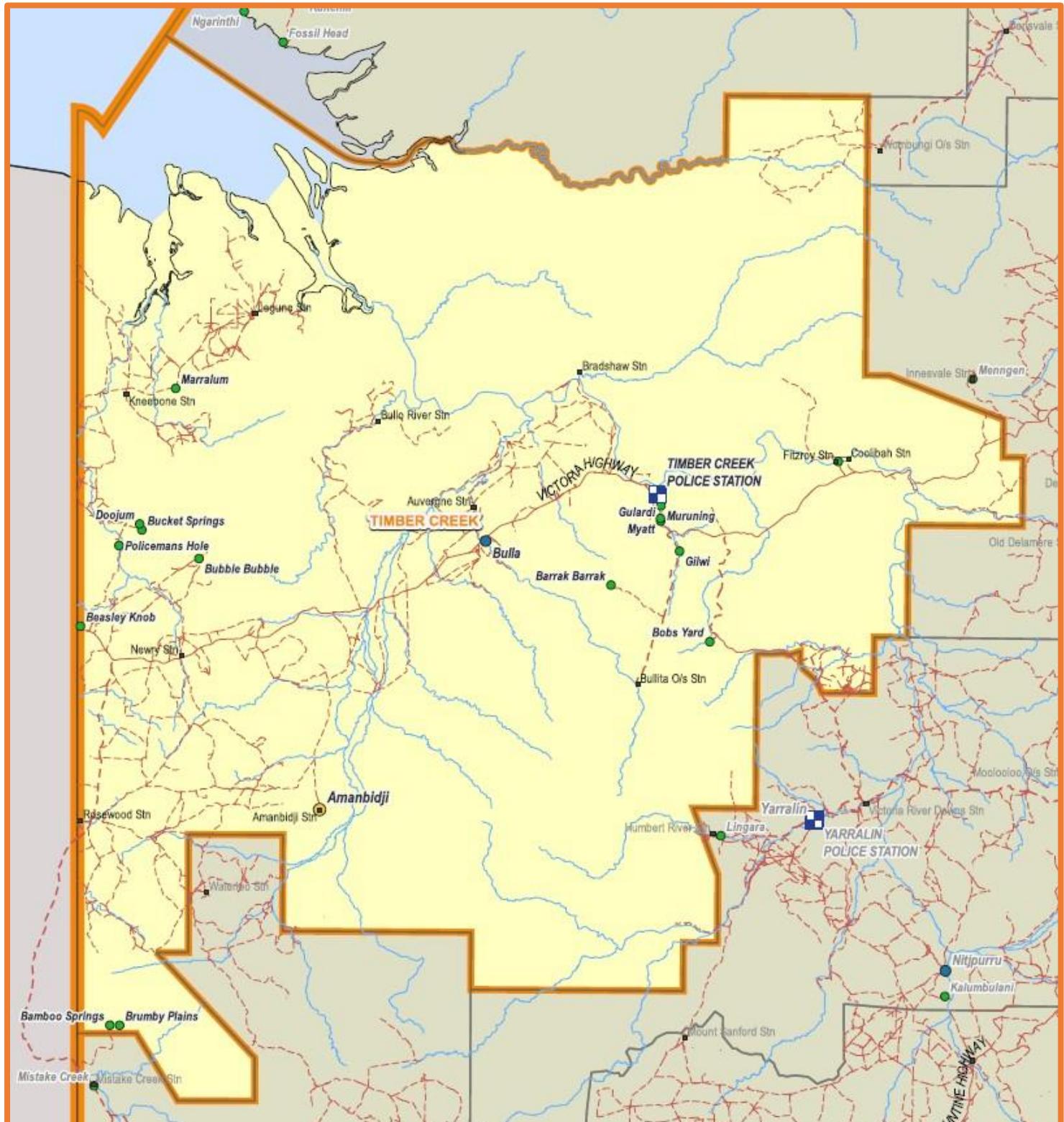
Bushtel ID	Locality	Aliases	Approx. population
622	Amanbidji	Amanbidgee Station, Kildurk and Mialuni	88
586	Bulla	Gudabijin and Gurrbijim	77
18974	Timber Creek		326
Bushtel ID	Homelands	Aliases	Approx. population
578	Bamboo Springs	Jirrngow	not recorded
699	Barrik Barrak	Barrac Barrac and Mayamum	not recorded
25071	Beasley Knob	Jiylinum	19
698	Bobs Yard	Iuwakam and Kutjulum Burru	not recorded
24904	Brumby Plains		28
585	Bubble Bubble	Dhamberral, Djamboral, Dumbaral Assoc, Dumbral and Newry Station	10
700	Bucket Springs	Binjen Ningguwung	not recorded
942	Doojum		not recorded
950	Fitzroy Station		12
597	Gilwi	11 Mile, Twelve Mile Bore and Twelve Mile Hole	28
24905	Gulardi		17
678	Myatt	5 Mile, Five Mile, Gulardi and Jerry's	25
619	Marralum	Legune Station and Marralam	23
648	Muruning	Darby's, Muringung, Murringung and Timber Creek	28
701	Policemans Hole	Little Policemans Hole and Nyawanyawan Dawang	not recorded

To obtain more information about this Locality, Bushtel³ is the central point for information about the remote communities of the NT, their people and cultural and historical influences.

¹ More information can be found at: <https://www.pfes.nt.gov.au/emergency-service/publications>

² More information can be found at: <https://www.pfes.nt.gov.au/emergency-service/emergency-management>

³ More information can be found at: <https://bushtel.nt.gov.au/>



4.1. Climate and weather

The Locality experiences similar weather conditions to those which occur throughout the Top End of the NT. There is a distinct Wet Season (October to April) and Dry Season (May to September). Compared to Darwin, temperatures tend to be slightly higher during the Wet Season and slightly lower during the Dry Season.

4.2. Geography

The Locality topography ranges from sea level to a highest point of approximately 370 metres (m) in the Pickerton Ranges. The Locality has a number of rivers and creeks, the main being as follows:

- East Baines River
- Sandy Creek
- Skull Creek
- Timber Creek
- Victoria River
- West Baines River

4.3. Sacred sites

The Aboriginal Areas Protection Authority (AAPA) is a statutory body established under the *Northern Territory Aboriginal Sacred Sites Act 1989* and is responsible for overseeing the protection of Aboriginal sacred sites on land and sea across the NT.

A sacred site is defined by the *Aboriginal Land Rights (Northern Territory) Act 1976* (Cth) as being 'a site that is sacred to Aboriginals or is otherwise of significance according to Aboriginal tradition.' Sacred sites are typically landscape features or water places that are enlivened by the traditional narratives of Aboriginal people.

AAPA requests notification of any action that may have affected a sacred site. For more information on sacred sites relevant to this Locality or to report an action that may have affected a sacred site, contact AAPA on (08) 8999 4365 or via email at enquiries.aapa@nt.gov.au.

4.4. Sites of conservation

The Victoria River middle and Gregory (Judbarra) area is the site of conservation significance for this Locality. For further information about these sites contact the Department of Lands, Planning and Environment (DLPE)⁴.

4.5. Tourism

The Locality is exposed to tourism by way of through traffic, as well as the Gregory National Park and recreational fishing areas. While traffic is on the increase, especially during the months of April to September. Often access to the National Park is seasonal with roads becoming impassable during the Wet Season.

⁴ More information can be found at: <https://nt.gov.au/environment/environment-data-maps/important-biodiversity-conservation-sites/conservation-significance-list>

4.6. NT and local government

This Locality sits within the Big Rivers Boundary, with the following NT Government (NTG) agencies that have a presence in the Locality:

- NTPF
 - Timber Creek Police Station
- NT Fire and Rescue Service (NTFRS)
 - Fire and Emergency Response Group (FERG)
- Department of Education (DET)
 - Timber Creek Primary School
 - Bulla Primary School
 - Amanbidji School

Timber Creek is within the Victoria Daly Regional Council (VDRC) region.

4.7. Building codes

Buildings and construction in the Locality are subject to the *Building Act 1993* and the *Building Regulations 1993*.

4.8. Land use

The Locality land use is subject to consultation between VDRC and Traditional Owners. In respect of Gregory National Park, about half of this site is Crown leasehold land. Much of the remaining land is Aboriginal freehold owned by 5 Aboriginal land trusts (Ngaliwurru/Nungali, Wanimiyn, Mayat and Menngen and Nagurunguru).

The following pastoral stations are located within the Locality:

- Auvergne Station
- Bradshaw Station
- Bullita O/s Station
- Bullo River Station
- Coolibah Station
- Fitzroy Station
- Kneebone Station
- Legune Station
- Newry Station
- Rosewood Station

4.9. Homelands

Homelands are typically located on Aboriginal land, which is held by the Aboriginal Land Trusts established under the *Aboriginal Land Rights (Northern Territory) Act 1976* (Cth). There are also some homelands that are located on Community Living Areas or parcels of land within national parks. Assets on homelands are owned by the underlying leaseholder, which for the majority of homelands is the relevant Aboriginal Land Trust. Generally, homelands are not subject to the NTG leasing or part of the NT's remote public housing system.

The homeland service provider for this Locality is Ngaliwurru Wuli Association. Homeland service providers contribute to the delivery of housing, municipal and essential services, including fire breaks, where funding allows. Homeland service providers do not deliver emergency services. Land councils and local ranger groups within the Locality may provide land management activities on Aboriginal land, such as back burning, installing firebreaks and other mitigation works.

4.10. Power generation and distribution

All power supplied to Timber Creek comes from diesel powered generators that are serviced by the Power and Water Corporation (PAWC).

4.11. Water services

Water to Timber Creek is supplied from bores, which is supplied by diesel powered generators, serviced by the PAWC.

4.12. Health infrastructure

Timber Creek Health Clinic is serviced by Katherine West Health Board. The health centre has the capacity to provide emergency medical aid in addition to routine health treatment. Serious medical cases are required to be evacuated to Katherine or Darwin. Patients can be evacuated either via road or air.

4.13. Emergency service infrastructure

The Locality has the following emergency service infrastructure:

- FERG Shed
- police station and cells

4.14. Roads

The major roads in the Locality are as follows:

- Victoria Highway, which links Timber Creek with the township of Katherine in the east and Kununurra to the west. The highway is subject to flooding and closure during the Wet Season and may be affected by numerous creek crossings depending on local rainfall.
- Buchanan Highway, which is approximately 30 km to the east of Timber Creek, intersecting the Victoria Highway. The Buchanan Highway leads to Top Springs and consists of 210 km of unsealed dirt.
- Duncan Highway, which is located approximately 170 km from Timber Creek, heading west. This highway is 470 km of unsealed road, which links the NT to Western Australia (Halls Creek).

4.15. Airports

The table below lists the airstrips in the Locality:

Name of the strip	Datum	Certified Aerodrome	Details (type, length, etc.)	Operator of the strip
Bulla Camp	15°45'59"S 130°2'47.66"E	Non-Certified	Dimensions: 1094 m x 35 m Surface: dirt	Ngaliwurru-Wuli Association
Kildurk (Amanbidji)	16°25'S 129°36"E	Non-Certified	Dimensions: 1000 m x 60 m Surface: unsealed Windsock: south of runway	Amanbidji Aboriginal Corporation
Timber Creek	15°37'19"S 130°26'40"E	Non-Certified	Dimensions: 1038 m Surface: gravel Windsock: middle south of strip Fuel held: nil Lighting: runway 10/28 emergency lamps only	VDRC

Certified Aerodrome: An airport officially approved by the Australian Government Civil Aviation Safety Authority (CASA) that meets strict safety and operational standards, often including air traffic control services⁵.

4.16. Telecommunication

Telecommunications are available across the Timber Creek township via a combination of landline, mobile and satellite communications delivery. A new tower placement at the Bradshaw base will increase the mobile network coverage to the west and north east of the Locality.

Telecommunications towers have been installed and activated in the Gilwi and Myatt Communities, with Amanbidji and Victoria River Roadhouse scheduled for activation by end of 2025.

4.17. Strengthening Telecommunications Against Natural Disasters

As a result of the Royal Commission into the 2019-2020 summer bushfires, the Commonwealth government implemented the Strengthening Telecommunications Against Natural Disasters (STAND) initiative. STAND is a Commonwealth funded program, aimed at enhancing the resilience of Australia's telecommunication networks, to prevent, mitigate and manage outages during emergencies.

There are currently 56 sites across the Territory that have STAND capability, and additional sites will be incorporated within the next stage of installation.

There are 2 STAND sites within this Locality which are located at and managed by the following facilities:

- Bulla Camp School
- Timber Creek School

⁵ More information can be found at: <https://www.casa.gov.au/operations-safety-and-travel/aerodromes>

4.18. Local radio stations

Timber Creek does not have a local radio station, but has the following broadcasts:

- 105.3 FM Australian Broadcasting Corporation (ABC) Local Radio
- 106.9 FM Central Australian Aboriginal Media Association (CAAMA) Radio Station

There are no backup generators to keep the radio tower powered in the event of a power outage. Portable generators are to be supplied by Bradshaw Contracting if required.

4.19. Medically vulnerable clients

Timber Creek Health Centre has a list of medically vulnerable clients, and is updated regularly. There are aged care facilities in the Timber Creek area, the VDRC provides services for aged care residents, in conjunction with the health centre.

5. Prevention

5.1. Emergency risk assessments

The Timber Creek LEC are responsible for undertaking appropriate activities to prevent and mitigate the impact of emergencies in their Locality.

5.2. Disaster hazard analysis and risk register

The Territory Emergency Management Council (TEMC) have identified 30 hazards, as outlined in the Territory Emergency Plan, that may pose a risk across the NT, which have been allocated to designated Controlling Authorities and Hazard Management Authorities.

Many hazards require specific prevention and mitigation measures, an annual risk assessment (rated against the National Emergency Risk Assessment Guidelines) is undertaken by the LEC and determines which hazards pose a greater risk to the Locality.

The LEC has identified the following hazards as posing a risk to the Locality, with further advice provided within **Annex C** for those hazards rated at medium risk or higher:

- bushfire (within fire protection and management zones)
- fire (within gazetted area)
- flooding
- heatwave
- major power outage
- road crash

Hazard	Overall consequence	Overall likelihood	Risk rating
Bushfire (within Fire Protection and Management Zones)	Major	Very Rare	Medium
Fire (within Gazetted Area)	Major	Very Rare	Medium
Flooding	Moderate	Unlikely	Medium
Heatwave	Moderate	Unlikely	Medium
Major power outage	Minor	Rare	Low
Road crash	Moderate	Likely	High

5.3. Hazard specific prevention and mitigation strategies

Prevention and mitigation relates to measures to reduce exposure to hazards and reduce or eliminate risk. Actions include identifying hazards, assessing threats to life and property, and from these activities, taking measures to reduce potential loss of life and property damage.

The cornerstone of mitigation is guided and coordinated risk assessments, which should involve all potentially affected members of a community. Strategies are developed based on a thorough understanding of hazards identified in emergency risk planning and their interaction with all aspects of society.

Specific prevention and mitigation strategies for identified hazards can be found at **Annex C**.

6. Preparedness

Arrangements to ensure that, should an emergency occur, all resources and services that are needed to provide an emergency response and or recovery can be efficiently mobilised and deployed.

6.1. Planning

NT emergency plans⁶ are required by the Act and are maintained at a Territory, regional and local level. Arrangements in plans aim to be flexible and scalable for all hazards. The planning process enables agreements to be reached between people and organisations in meeting communities' needs during emergencies. The plan becomes a record of the agreements made by contributing organisations to accept roles and responsibilities, provide resources and work cooperatively.

The Regional Controller is responsible for the annual review of operations and the effectiveness of the Local Emergency Plan, supported by the LEC and the NT Emergency Service (NTES), Planning and Preparedness Command.

6.2. Emergency resources and contacts

The Local Controller is responsible for maintaining the emergency resource register and LEC contact list. Local emergency management stakeholders are to advise the Local Controller of changes to resource holdings, operational response capabilities and key personnel contacts. Emergency resource and LEC contact list for each locality are available on Web-based Emergency Operations Centre (WebEOC).

6.3. Training and education

The Act provides the legislative requirement for those involved in emergency management activities to be appropriately trained. Training and education activities are undertaken to ensure agencies are familiar with and understand the NT emergency management arrangements, as well as the relevant controlling and hazard management authorities for identified hazards.

The NTES Learning and Development Command is responsible for emergency management training across the NT. Online and face to face training is scheduled throughout the year. For further information contact the NTES Learning and Development Command via email at Training.EMTU@pfes.nt.gov.au.

6.4. Community education and awareness

Effective and ongoing community education and preparedness programs that emphasise to communities the importance of practical and tested emergency plans and safety strategies is essential. Empowering communities to act in a timely and safe manner will minimise the loss of life, personal injury and damage to property and contribute to the effectiveness of any warning system.

List of available activities and initiatives but are not limited to within the area:

- NTES hazard briefings

⁶ More information can be found at: <https://pfes.nt.gov.au/emergency-service/publications>

- NTES Paddy Program
- NTFRS Smart Sparx Program
- Australian Red Cross Pillowcase Program
- St Johns Ambulance First Aid in Schools Program

6.5. Exercises

Local level exercises are a key measure for testing the effectiveness of the local emergency plan and should involve all relevant stakeholders. Exercises ensure that the plan is robust and understood, and that capabilities and resources are adequate. Exercises are conducted if arrangements with the plan have not been enacted since the last review, or substantial changes have occurred, including:

- legislative changes
- major changes have occurred in the areas of key personnel, positions or functions across prevention, preparedness, response and recovery
- new or emerging hazards/risks have been identified.

The NTES Planning and Preparedness Command have developed resources that outlines the process to develop the exercise concept in designing, planning, conducting, facilitating, participating or evaluating exercises. The Local Controller can request an exercise by emailing the request through to EmergencyManagementPlanning@pfes.nt.gov.au.

7. Response

Actions taken in anticipation of, during and immediately after an emergency to ensure that its effects are minimised and that people affected are given immediate relief and support.

7.1. Activation of the Plan

This plan has 5 stages of activation and are designed to ensure a graduated response to hazardous events, reducing the possibility of under or over reaction by the emergency management agency.

The stages are:

Stage 1	Alert	This stage is declared when the Local Controller receives warning of an event which, in their opinion, may necessitate an emergency management response
Stage 2	Standby	This stage is declared when the Local Controller considers an emergency operation is imminent. During this stage passive emergency measures are commenced.
Stage 3	Activation	This stage is declared when active emergency measures are required.
Stage 4	Stand-down response operations and transition to Recovery	Stage 4 occurs when the Local Controller and Local Recovery Coordinator agree to transition to recovery (if required) in accordance with the transitional arrangements of this Plan.
Stage 5	Recovery	This stage is called if ongoing recovery operations and coordination is required.

The stages identified provide for a sequential response. However, it may be necessary because of the degree of warning and speed of onset of an event, for the Local Controller to skip the actions required under stage 1 or 2.

7.2. Control and coordination

Arrangements for response are based on pre-agreed roles and responsibilities for stakeholders. When the scale and complexity of an event is such that resources of the community are depleted a number of arrangements are in place to seek assistance from the region, the Territory and/or the Australian Government. Pathway for assistance is through the Regional Controller.

7.3. Local Emergency Controller

In accordance with section 76 of the Act, the Territory Controller or their delegate (section 112 of the Act) can appoint a Local Emergency Controller (Local Controller). The Local Controller for the locality is the Officer In Charge of the Timber Creek Police Station. The Local Controller is subject to the directions of the Regional Controller. The powers, functions and directions of the Local Controller can be found in sections 77, 78 and 79 of the Act.

7.4. Local Emergency Committee

In accordance with section 80 of the Act, the Territory Controller has established a Timber Creek LEC. The Local Controller is Chair of the LEC and remaining membership consists of representatives from NTG and non-government entities within the locality. Division 11 of the Act specifies the establishment, functions, powers; membership and procedure requirements of a LEC.

7.5. Emergency Operations Centre/Local Coordination Centre

NT emergency management arrangements	Controlling authority arrangements
Emergency Operations Centre (EOC) (Territory and Regional level)	Incident Control Centre (ICC)
Local Coordination Centre (LCC) (Local level)	Incident Control Point (ICP)

LCCs are established as required by Local Controllers to provide a central focus to the management, control and coordination of emergency operations in the Locality. When activated, the functions of the LCCs are:

- information collection and dissemination
- preparation and issue of official warnings and advice to the public
- coordination of the provision of resources required in the Locality
- submitting requests for resources through the Regional Controller to the Territory EOC where applicable
- dissemination of information to the media and general public.

The LCC for this Locality is the Timber Creek Police Station. The Regional EOC is located in Darwin at the Peter McAulay Centre. Agencies and functional groups may establish their own coordination centres to provide the focal point for the overall control and coordination of their own agency resources. Liaison Officers from functional groups and support agencies will attend the EOC as required.

ICCs will be established as required by a controlling authority to provide an identified facility for the management of all activities necessary for the resolution of an incident.

An ICP is normally located near the incident in its early stages but may be relocated to an ICC where more permanent and convenient facilities and services are available.

7.6. WebEOC

WebEOC is a critical information management system used throughout the NT for emergency management activities. The system is owned and maintained by the NTFES. The online platform is used for the coordination of multi-agency response to, and recovery from, an emergency event. WebEOC also enables real-time information sharing across all agencies involved in emergency management activities.

7.7. Situation reports

It is essential for effective control and coordination of emergency management operations that the Local Controller is able to gather and collate relevant information relating to the emergency from regular, concise and accurate situation reports (SITREPs).

LEC members are to provide SITREPs at agreed times to enable the preparation of a consolidated report which will be distributed to all committee members and other relevant authorities. This may be achieved through WebEOC.

7.8. Stakeholder notifications

Upon activation of the Plan the following personnel are to be advised as a matter of urgency:

- all available members of the LEC
- Northern Regional Controller
- NTES Territory Duty Officer (TDO)

7.9. Official warnings and general public information

Official warnings and general public information will be broadcast to the Locality through the following means:

- radio broadcast
- television news broadcast
- Secure NT website and social media broadcasts and updates

Official warnings are issued by the Bureau of Meteorology (the Bureau), Geoscience Australia, NTPF and NTFES and Controlling Authorities.

Emergency Alert is a national telephony-based emergency warning system that can deliver warning messages to landlines and mobile handsets based on the service address and mobile handsets based on the last known location of the device. Authority to utilise the Emergency Alert may be given by virtue of the pre-approval of a hazard specific emergency plan or under the Territory Emergency Plan.

The approval for the release of an Emergency Alert message can only be authorised by one of the following:

- Territory Controller
- Chief Officer, NTES
- Regional Controller
- Chief Fire Officer, NTFRS
- Deputy Chief Fire Officer, NTFRS
- Executive Director, BFNT
- Chief Fire Control Officer, BFNT

The Standard Emergency Warning Signal (SEWS) is an audio alert signal (wailing siren) which may be broadcast on public media to draw attention to the fact that an urgent safety message is about to be made. Generally, SEWS is only played before announcements concerning significant emergencies where emergency management arrangements should be activated as a result.

Control and hazard management authorities may have pre-planned use of SEWS for non-weather related events, through a pre-approved hazard-specific emergency plan.

The approval for the release of a SEWS message can only be authorised by one of the following:

- Territory Controller
- Chief Officer, NTES
- Manager Hazard Preparedness and Response NT (the Bureau) (for weather and flood-related events)

Warning and information messages for general public are authorised by the Regional or Incident Controller. The dissemination of such emergency warnings and information is to be by whatever means are appropriate and available at the time.

7.10. Australasian Inter-Service Incident Management System

The Australasian Inter-Service Incident Management System (AIIMS)⁷ is a robust incident management system that enables the seamless integration of activities and resources of a single agency or multiple agencies when applied to the resolution of any event.

7.11. Closure of schools

The decision to close schools due to an impending threat will be made by the Chief Minister on advice from the TEMC. When the nature of an event demands an immediate response, local authorities will take the appropriate steps to ensure the safety to the public. This action may include the temporary closure of a school to begin preparations, pending formal closure of the school by the Chief Minister for the remainder of the event.

The decision to reopen schools will be made by the Chief Minister on advice from the Chief Executive, DET.

7.12. Closure of government offices

The decision to close government offices due to an impending threat will be made by the Chief Minister on advice from the TEMC. When the nature of an event demands an immediate response, local authorities should take all appropriate steps to ensure public safety and the protection of property.

The decision to reopen government offices will be made by the Chief Minister on advice from the TEMC.

All NTG agencies are to have an emergency preparedness plan which sets out their processes for closing down their offices once approval has been given. This should have clearly articulated employee guidelines to ensure employees know when they are authorised to leave and are required to return to work.

7.13. Sheltering in community

The TEMC have identified the need to review opportunities to support 'sheltering in community' for weather-vulnerable communities under the NT Emergency Management Arrangements.

In the NT, 'sheltering in community' means residents remain in their community in a safe place before, during, and after a hazard. This may include staying at home or arranging their own safe accommodation. For those without options, formal emergency shelters or temporary accommodation may be provided by Incident Controllers until it's safe to return home.

This approach can be supported by additional community resources like personnel, goods, or equipment. While evacuation remains an option, sheltering in community is often safer and more effective when supported. The decision depends on community capacity and the specific event.

⁷ More information can be found at: <https://pfes.nt.gov.au/emergency-service/publications>

7.14. Emergency shelters or strong buildings

Emergency shelters and places of refuge are buildings or structures that provide people with a place of protection and shelter during a disaster or emergency event such as a cyclone, flood or fire.

The recognised emergency shelters within the Locality are:

Shelter(s)	People capacity	Accessibility (ramp/toilets)
Timber Creek Basketball Court	100 (staging area only)	accessible
Timber Creek Primary School	100	Ramp and toilets

The DET, in conjunction with the NTPF and the shelter owners, is responsible for the management of emergency shelters during an emergency event.

The responsibilities of the emergency shelter manager are:

- the provision of personnel to staff and operate the emergency shelters at such times as they are activated
- the maintenance of effective liaison with other stakeholders with responsibilities relating to shelters, in particular the NTPF.

Emergency shelters are opened under the direction of the Territory or Regional Controller in consultation with the Shelter Group (DET). Emergency shelters will not normally operate for more than 48 hours.

The timing of the opening of emergency shelters will be dependent upon the severity of the impending incident, the numbers to be sheltered, the time of day the incident is expected to impact and the period of time the emergency shelters are likely to be occupied. The announcement that emergency shelters are open in the Locality will be made by radio broadcast and social media, and will include emergency shelter rules such as no pets or alcohol being permitted in shelters. It is up to the discretion of the shelter manager if food will be provided.

7.15. Evacuation guideline

Evacuation is a risk management strategy that can be used to mitigate the effect of an emergency or disaster on a community. It involves the movement of people to a safer location and their return. The decision to evacuate a community, including establishing an evacuation centre, is not taken lightly as it represents significant resource and financial implications.

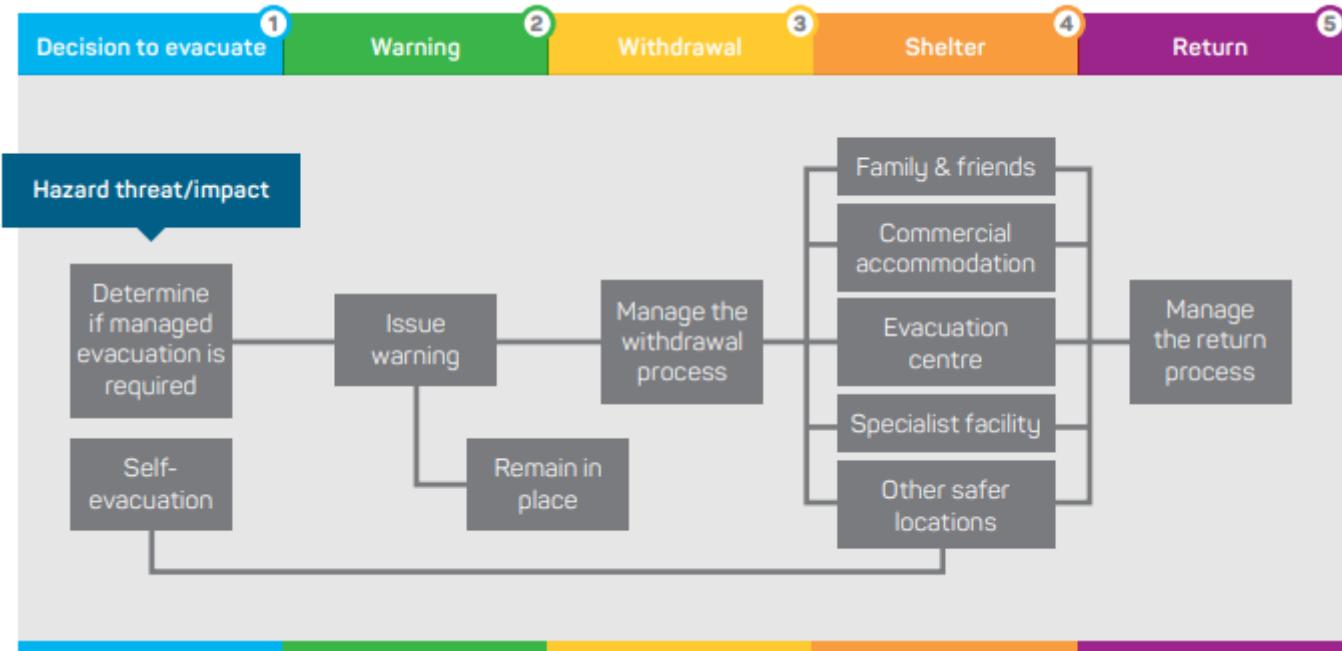
Evacuation of the Locality will be considered as a last resort. Where an evacuation is required the TEMC, in consultation with the Regional Controller, Local Controller and the LEC, will arrange emergency accommodation and transport, as necessary, through the relevant functional group/s.

Evacuation is a complex process that has 5 distinct steps:

1. decision
2. warning
3. withdrawal
4. shelter
5. return

Each step is linked and must be carefully planned and carried out in order for the entire process to be successful.

Given an evacuation centre will only be opened as a part an evacuation, it is vital to understand the 5-step process.



Source: Australian Institute of Disaster Resilience Evacuation Planning Handbook, 2017

7.16. Identified Evacuation Centres

An evacuation centre is designed to accommodate people for short to medium periods of approximately 4 to 6 weeks, although this figure may vary.

An evacuation centre will provide some or all of the following services:

- assistance accessing finances and recreational activities
- beds
- linen
- meals
- medical services (or access to them)
- personal support

An evacuation centre implies the provision of these services in contrast to an emergency shelter, in which people are expected to be self-sufficient.

For further information on evacuation centres management, refer to the NT Evacuation Centre Field Guide available on WebEOC.

7.17. Impact assessment

Immediately after an emergency event, there is a need to identify and assess impacts to inform short and long-term recovery priorities. Comprehensive assessment of all impacts is a vital component of emergency response activities. Guidelines for the conduct of rapid assessments in the NT, including the establishment of dedicated Rapid Assessment Teams (RATs) to collect data in the field, have been developed.

The Survey, Rescue and Impact Assessment Group, led by the NTPF, is responsible for coordinating rapid impact assessments. At the local level, local controllers or an Incident Controller if appointed, should contact the Survey, Rescue and Impact Assessment Group lead to discuss impact assessments if deemed appropriate.

8. Recovery

The coordinated process and measures for supporting emergency-affected communities in the reconstruction of physical infrastructure and restoration of the social, economic and natural environments.

8.1. Local Recovery Coordinator and Coordination Committee

When a region and/or locality has been affected by an event, the Regional Recovery Coordinator may appoint a Local Recovery Coordinator in accordance with section 87 of the Act. The responsible agency for Recovery is the Department of the Chief Minister and Cabinet (CM&C). The Local Recovery Coordinator will establish a Local Recovery Coordination Committee (LRCC) drawing from membership of the LEC and other relevant members of the community as needed. The Local Recovery Coordinator reports directly to the Regional Recovery Coordinator.

Local Recovery Coordinator and Committee functions, powers and directions are established in Division 12 and 13 of the Act respectively.

8.2. Transitional arrangements

The transition from response to recovery coordination reflects the shift from the protection of life and supporting the immediate needs of the community to establishing longer term, more sustainable support structures.

The transition to recovery coordination occurs after the completion of the transition checklist and at a time agreed by the Territory Controller and Territory Recovery Coordinator in accordance with the Territory Emergency Plan.

Transition will occur when the Territory Recovery Coordinator is satisfied that the following has occurred:

- the Territory Controller has briefed the TEMC and the Territory Recovery Coordinator
- the Regional Controller has briefed the Regional Recovery Coordinator
- where there is significant changeover of personnel, the EOC planning operations and logistics sections have briefed incoming recovery planning, operations and logistics staff

The Regional Recovery Coordinator will ensure all functional group leaders, agencies, support groups and other relevant stakeholders are notified prior to the transition to recovery. This notification is to include changes to relevant contact details and other pertinent information.

An example of response and recovery activities can be found at **Annex D**.

9. Debrief

Debrief processes embed continuous improvement into the delivery of emergency management activities. Consistent approaches to lessons learned encourage adaptability, and flexibility across all levels of government. Sharing of knowledge and experiences throughout emergency events assists with ongoing continuous improvement of people and organisations involved.

The NTG implements a lessons learned approach recognising the positive impact on organisational culture commensurate with increasing opportunities to achieve emergency management goals. Whilst lessons learned often begins in one agency through an internal debrief process, those lessons learned are transferable across multi-agencies.

During any operational response, personnel involved are encouraged to record activities where there are lessons to be learned. Activities can include decision making and consequential responses. Where decisions are made by an Incident Controller, Incident Management Team member or a functional group member, those decisions should be recorded in a Decision Log (WebEOC). Decision Logs can be referred to as part of the debrief process.

10. Related references

The following references apply:

- *Aboriginal Land Rights (Northern Territory) Act 1976 (Cth)*
- *Building Act 1993*
- *Building Regulations 1993*
- *Emergency Management Act 2013*
- National Disaster Risk Assessment Guidelines
- National Disaster Risk Reduction Framework
- Northern Regional Emergency Plan
- *Northern Territory Aboriginal Sacred Sites Act 1989*
- Rapid Assessment Team Guidelines
- Territory Emergency Plan
- Transition to Recovery Checklist

11. Annexures

Annex A Functional groups - roles and responsibilities

Annex B Functions table

Annex C Specific prevention, mitigation strategies and action plans for identified hazards

Annex D Summary of response and recovery activities

11.1. Annex A: Functional groups - roles and responsibilities

Functional group	Local contact
Animal Welfare	Department of Agriculture and Fisheries (DAF)
Critical Goods and Services	Department of Trade, Business and Asian Relations (DTBAR)/Timber Creek Hotel
Digital and Telecommunications	Department of Corporate and Digital Development (DCDD)
Emergency Shelter	VDRC/Timber Creek Primary School
Engineering	Department of Logistics and Infrastructure (DLI)
Industry	DTBAR
Medical	Timber Creek Health Clinic/Katherine West Health Board
Public Health	DoH/Timber Creek Health Clinic
Public Information	CM&C
Public Utilities	PAWC Essential Services Officer (ESO)
Survey, Rescue and Impact Assessment	NTPF
Transport	DLI
Welfare	Department of Children and Families (DCF)

Full details of functional group roles and responsibilities are detailed in the Territory Emergency Plan.

11.2. Annex B: Functions table

Emergency Response and recovery functions with identified agencies/organisation/provider, during an event some of these functions may be needed at a local level.

Functions	Agency/organisation/provider responsible
Animal/livestock management	DAF/Parks & Wildlife NT
Anti-looting protection	NTPF
Banking services	Timber Creek Store/ATM
Broadcasting: What radio stations provide announcements?	ABC Local Radio/CAAMA
Clearing of essential traffic routes	VDRC
Clearing storm water drains	VDRC
Clothing and household items	Timber Creek Store
Community clean up	VDRC
Control, coordination and management	Designated control authority
Coordination to evacuate public	NTPF
Critical Goods and Services (protect/resupply) <ul style="list-style-type: none"> • food • bottle gas • camping equipment • building supplies 	Timber Creek Store/Timber Creek Hotel/Ngaliwurru-Wuli Association
Damaged public buildings: Coordination and inspections	DLI
Disaster Victim identification capability	NTPF/Timber Creek Health Clinic
Emergency Alert	NTPF/NTFES
Emergency food distribution	VDRC
WebEOC	NTPF/NTFES
Emergency shelter staff, operations and control	VDRC/Timber Creek Primary School/DET/Shelter owners
Evacuation centre - Staffing, operations and control	DCF
Financial Relief/assistance/Disaster Recovery Funding Arrangements	CM&C/DCF (Category A measures to individuals)/DTBAR (Category B measures)

Functions	Agency/organisation/provider responsible
Identification of suitable buildings for shelters	DLI
Interpreter services	Aboriginal Interpreter Service
Management of expenditure in emergencies	Controlling Authority and any activated Functional Groups at the direction of the Controlling Authority
Medical services	Timber Creek Health Clinic
Network communications (IT): Responders /Public Maintenance and restoration of emergency communication	Telstra
Power: Protection and restoration:	PAWC
Public messaging during response and recovery	Hazard Management Authority/CM&C
Public/Environmental Health (EH) management <ul style="list-style-type: none"> • all EH functions including water & food safety • disease control 	DoH
Rapid Impact Assessment	NTPF
Recovery coordination	CM&C
Repatriation	As detailed in local emergency arrangements
Restoration of public buildings	DLI
Restoration of roads and bridges (council/territory) excluding railways	VDRC/DLI
Road management and traffic control including public Information on road closures	VDRC/DLI
Sewerage: Protection and restoration	PAWC ESO
Survey	NTPF
Traffic control	NTPF
Transport: Commercial and Public airport/ planes, automobiles and buses	DLI
Vulnerable groups (medical)	Timber Creek Health Clinic

Functions	Agency/organisation/provider responsible
Waste management <ul style="list-style-type: none"> • collection • disposal of stock 	VDRC
Water (including drinking water): Protection and restoration	PAWC/ESO

11.3. Annex C: Prevention, mitigation strategies and action plans for identified hazards

11.3.1. Bushfire (within Fire Protection and Management Zones)

Hazard	Controlling authority	Hazard management authority
 Bushfire (within Fire Protection and Management Zones)	NT Fire and Emergency Services (Bushfires NT)	NT Fire and Emergency Services (Bushfires NT)

A fire hazard is an event, accidentally or deliberately caused, which requires a response from the landholder or one or more of the statutory fire response agencies. A bushfire is an unplanned fire, it is a generic term that includes grass fires, forest fires and scrub fires. Bushfires are a natural, essential and complex part of the NT environment. The term bushfire is interchangeable with the term wildfire.

Prevention is the activities that can be undertaken by a range of stakeholders that will assist in the mitigation against a bushfire. In the NT, managing bushfire and vegetation on private properties is the responsibility of the landowner.

Landholder responsibility to control fire

The landholder or occupier of land must take all reasonable steps to protect property on the land from fire and inhibit the fire from spreading.

If a landholder or occupier is unable to control a fire and prevent it from spreading to other land, they must:

- notify Bushfires NT fire control officer or fire warden and all neighbouring property holders
- call 000 in an emergency.

Under section 90(3) of the *Bushfires Management Act* the landholder or occupier commits an offence if the fire has the potential to spread to other land and they fail to take reasonable steps to control the fire and to notify all parties.

Communication, co-operation and shared responsibility within the community, matched by a capacity to undertake self-protective measures, forms the basis of successful fire management throughout the NT.

Outlined below is a list of key prevention activities within the Locality:

- risk assessment through the LEC and other relevant stakeholders
- fire danger period declaration, which spans over large areas when climatic and seasonal conditions present increased fire risk for a prolonged period of time. A fire danger period usually coincides with the accepted 'fire season' in an area. A permit to burn is required before using fire during a fire danger period in all zones
- a fire ban that can be declared for up to 24 hours. A combination of factors are considered when declaring a fire ban period including forecast fire danger, ignition likelihood, hazards and resourcing. All permits to burn are revoked within the declared fire ban area
- a fire management area can be declared in an area where BFNT have identified heightened fire risk. A fire management plan can be prescribed for a fire management area, and the plan can require landowners to take action to prepare for, or prevent, the spread of fire
- additional fire regulations apply within NTFRS ERA and BFNT Fire Protection Zone (FPZ) and Management Zones (FMZ). This includes:

- permits to burn are required throughout the entire year inside an ERA and FPZ
- within ERAs and FPZ a 4 m wide firebreak along the perimeter boundary of all properties and with additional firebreaks around permanent structures and stationary engines are required
- compliance inspections
 - both NTFRS and BFNT undertake compliance inspections on firebreak and fuel load management within the ERA and FPZ. Fire Breaks outside these areas are encouraged but not enforceable
- fuel management activities
 - as it is across the NT, it is the responsibility of the landowner / land holder to manage and mitigate the risk on the property. This is a responsibility of both the government and private entities
 - within the Locality the following list are some of the stakeholders responsible for managing and mitigating fuel load:
 - DLI
 - Regional Community Councils
 - Aboriginal Land Councils/Rangers
 - Parks and Wildlife
 - NTFRS
 - BFNT
 - Contracted private entities.

Preparedness is the range of activities that can prepare for an incident. These are commonly training, resource management and allocations and community education.

At a Territory Emergency Plan level the BFNT maintain the Bushfire Hazard plan, which goes into further depth on strategic planning. At the local level all relevant facilities should undertake planning to determine what actions need to occur in the event of local bushfires.

The BFNT, through normal business, recruits, trains and resources their volunteers and staff for fire operations.

The BFNT undertake community engagement / awareness programs within the Locality, these programs primarily focuses on:

- private home and block preparations
- fire break inspections
- bushfire survival plans
- gamba and buffel grass management and inspections

The Australian Fire Danger Rating System⁸ (AFDRS) is a nationally aligned approach to fire weather forecast. Both the NTFRS and BFNT, through a Territory wide observer network, gather a specific range of observation data at selected locations to provide data for the daily Fire Danger Rating. The ratings are described in the below image.

⁸ More information can be found at: <https://afdrs.com.au/>

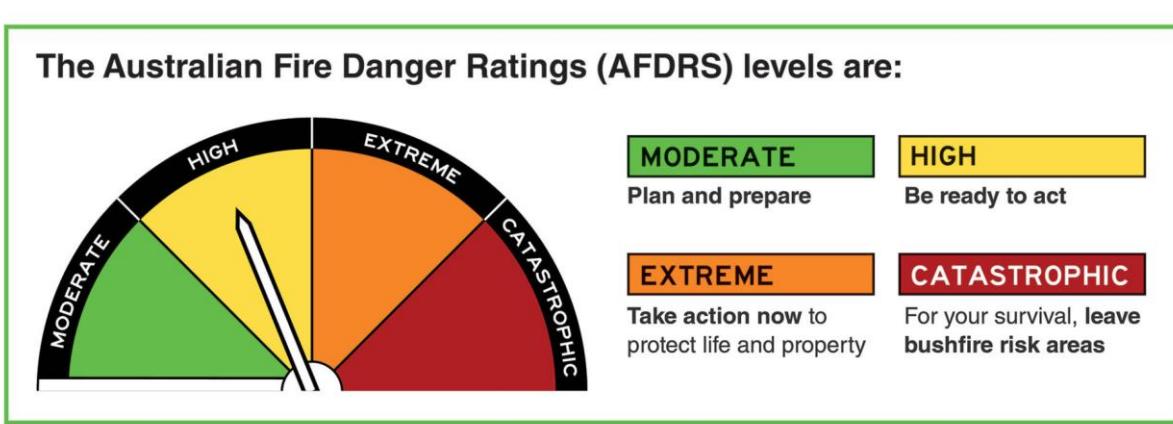


Figure 2: AFDRS Ratings

The response to bushfires is a business as usual activity for both the NTFRS and BFNT.

Both agencies are the controlling authority and hazard management authority for fires within each of their jurisdictions. Practically each agency is responsible for managing the technical aspects of responding to a bushfire and commanding its resources through their Incident Controller.

If a fire is occurring within an ERA, the NTFRS is the control and hazard management authority, whereas when the fire is in the FPZ, BFNT is the controlling and hazard management authority.

The BFNT has 3 classifications of incidents and describes them in generic terms, as shown in the table below:

Incident Classification	Description
Level 1	Level 1 fire incidents are characterised by being able to be controlled through local or initial response resources within a few hours of notification. Being relatively minor, all functions of incident management are generally undertaken by the first arriving crew/s.
Level 2	<p>Level 2 fire incidents are more complex either in size, resources, risk or community impact. Level 2 incidents usually require delegation of several incident management functions and may require interagency response. They may be characterised by the need for:</p> <ul style="list-style-type: none"> • deployment of resources beyond the initial response, • sectorisation of the incident, • the establishment of function sections due to the levels of complexity, or • a combination of the above.
Level 3	Level 3 fire incidents are protracted, large and resource intensive. They may affect community assets and/or public infrastructure, and attract significant community, media and political interest. These incidents will usually involve delegation of all the Incident Management functions.

Australian Warning System

The Australian Warning System is a national approach to information and warnings during emergencies like bushfire. The System uses a nationally consistent set of icons, like those below. All warnings and advice will be issued by the Incident Controller from the relevant controlling authority for fire (NTFRS or BFNT).

Each warning level has a set of action statements to give the community clear advice about what to do. Calls to Action can be used flexibly across all 3 warning levels depending on the hazard.

There are 3 warning levels:

Warning level	Description
 Advice (Yellow)	An incident has started. There is no immediate danger. Stay up to date in case the situation changes
 Watch and Act (Orange)	There is a heightened level of threat. Conditions are changing and you need to start taking action now to protect you and your family
 Emergency Warning (Red)	An Emergency Warning is the highest level of warning. You may be in danger and need to take action immediately. Any delay now puts your life at risk

In instances where the Local Controller is required to perform a task or function, the controlling authority will contact the Local Controller.

Tasks approved by the controlling authority's Incident Controller may include, but not limited to:

- liaison with key community stakeholders
- closure of roads or places
- fire cause or protection of potential area of origin
- post fire impact assessments
- establishment of reception areas / evacuation centres should people evacuate

Actions to be taken – Bushfire – guide only

Organisation/ Provider	Stage 1: Alert	Stage 2: Standby	Stage 3: Activation	Stage 4: Stand down	Transition to recovery
All Members	Attend briefings	Attend briefings	Attend briefings	Attend briefings	Attend briefings
	Inform key personnel	Inform key personnel	Inform key personnel	Inform key personnel	Inform key personnel
	Provide SITREPs	Provide SITREPs	Provide SITREPs	Provide SITREPs	Provide SITREPs
Local Controller			<p>On receipt of advice, and as overall controller of the incident:</p> <ul style="list-style-type: none"> Notify appropriate service Ascertain state of preparedness/responders time Determine the need to disseminate warning/information to the public Ensure communications are established and maintained Commence and maintain SITREP schedule <p>Ascertain need to set up forward command post and brief personnel, identified for command post staffing</p> <p>Ensure police station communications are</p>	<p>On completion of operation:</p> <ul style="list-style-type: none"> Ensure all personnel (victims/responders) are accounted for Ensure all personnel are advised of debrief arrangements Arrange for critical incident stress debriefing, action as appropriate <p>Compile and forward Post Operations Report</p>	Attend debrief

Organisation/ Provider	Stage 1: Alert	Stage 2: Standby	Stage 3: Activation	Stage 4: Stand down	Transition to recovery
			<p>manned and running sheets (operations log) commenced</p> <p>Proceed to scene and carry out the following:</p> <ul style="list-style-type: none"> • Establish forward command post • Co-ordinate requests for assistance from other agencies • Act as on-site media officer <p>Prepare and forward regular SITREPs</p>		
NT Police - 2IC			<p>Establish contact with the Local Controller for details and confirmation of requirements, then:</p> <ul style="list-style-type: none"> • Contact appropriate brigade captain and arrange to meet at scene • Ensure the following items are on the vehicle: <ul style="list-style-type: none"> ○ Road closed signs ○ Safety warning devices (including spare batteries) 	<p>Upon completion of operations (as authorised by investigating authority):</p> <ul style="list-style-type: none"> • Co-ordinate clean-up of scene • Account for all equipment used and supervise the cleaning, servicing, repair and refurbishment • Assist the Local Controller in the compilation of the Post Operations Report 	Attend debrief

Organisation/ Provider	Stage 1: Alert	Stage 2: Standby	Stage 3: Activation	Stage 4: Stand down	Transition to recovery
			<ul style="list-style-type: none"> ○ First aid kit • Advise Local Controller of departure and estimated time of arrival • On arrival at scene, accompany Brigade Captain and conduct reconnaissance of area • If necessary, initiate evacuation procedures and arrange for security of property • Provide SITREP to Local Controller <p>As interim onsite Commander, carry out the following:</p> <ul style="list-style-type: none"> • If possible, establish a mobile command post, upwind of incident and outside primary incident zone • Implement traffic/crowd control measures • If necessary, appoint staging section personnel to control and marshal vehicular traffic in/out of the area 	Assist the Local Controller with other tasks, as directed	

Organisation/ Provider	Stage 1: Alert	Stage 2: Standby	Stage 3: Activation	Stage 4: Stand down	Transition to recovery
			<ul style="list-style-type: none"> • If required, advise the Disaster Victim Identification (DVI) Commander and secure the site for the Coroner's investigation • If required, ensure statutory investigation procedures are carried out 		
Timber Creek FERG			<p>On receipt of advice of the threat:</p> <ul style="list-style-type: none"> • Implement callout procedures • Brief personnel and place on standby • Ascertain state of preparedness • Establish contact with Local Controller • Dispatch fire unit to area, assess situation and advise Local Controller • If necessary, advise adjacent volunteer brigades of situation with request for assistance or place on standby <p>Dispatch units to scene, reassess situation and take appropriate action to</p>	<p>Upon completion of operation:</p> <ul style="list-style-type: none"> • Account for all personnel • Account for all equipment used and supervise the cleaning, servicing, repair and refurbishment • Conduct operational debrief with personnel • If necessary, liaise with Local Controller regarding Critical Incident Stress Debriefing requirements <p>Prepare report or brief Local Controller, as appropriate</p>	Attend debrief

Organisation/ Provider	Stage 1: Alert	Stage 2: Standby	Stage 3: Activation	Stage 4: Stand down	Transition to recovery
			<p>contact and extinguish, if possible</p> <p>Once under control, patrol area until satisfied there is no longer a threat</p>		
Health Clinic			<p>Establish contact with the Local Controller for details and confirmation of requirements</p> <p>if necessary, implement call out procedures</p> <p>Brief staff and if necessary, instruct to remain on standby</p> <p>Prepare vehicles and health centre in the event of casualties</p> <p>Advise Local Controller of state of preparedness and maintain contact</p> <p>Maintain normal health services and if activated, provide additional health and medical assistance, as required</p>	<p>Upon completion of operation:</p> <ul style="list-style-type: none"> • Account for all personnel • Refurbish equipment as necessary and coordinate the re-establishment of normal health centre operations • If necessary, liaise with the Local Controller regarding requirements for Critical Incident Stress debrief support • Conduct operational debrief with staff • Provide relevant information to the Local Controller for the SITREP <p>Stand down personnel</p>	<p>Attend debrief</p> <p>Liaise with Local Controller regarding any ongoing public health issues because of the incident</p>
Support organisations	Provide support as requested by the Local Controller				

11.3.2. Fire (within Gazetted Area)

Hazard	Controlling authority	Hazard management authority
 Fire (within Gazetted Area)	NT Fire and Emergency Services (NT Fire and Rescue Service)	NT Fire and Emergency Services (NT Fire and Rescue Service)

A fire hazard is an event, accidentally or deliberately caused, which requires a response from one or more of the statutory fire response agencies.

In the NT, managing bushfire and vegetation on private properties is the responsibility of the landowner.

A fire hazard can include, but not limited to:

Term	Definition
Structure fire	A fire burning part, or all of any building, shelter, or other construction.
Bushfire	An unplanned fire. It is a generic term that includes grass fires, forest fires and scrub fires. Bushfires are a natural, essential and complex part of the NT environment. The term bushfire is interchangeable with the term wildfire.
Vehicle fire	An undesired fire involving a motor vehicle.

Prevention is the activities that can be undertaken by a range of stakeholders that will assist in the prevention of a fire. Outlined below is a list of key prevention activities within the Locality.

- risk assessment through the LEC and other relevant stakeholders
- fire danger period declaration, which spans over large areas when climatic and seasonal conditions presents increased fire risk for a prolonged period of time. A fire danger period usually coincides with the accepted 'fire season' in an area. A permit to burn is required at all times while using fire during a fire danger period in all zones
- a fire ban can be declared for up to 24 hours. A combination of factors are considered when declaring a fire ban period including forecast fire danger, ignition likelihood, hazards and resourcing. All permits to burn are revoked within the declared fire ban area
- additional fire regulations apply within NTFRS ERA, this includes:
 - permits to burn are required throughout the entire year inside an ERA
 - within ERAs a 4 m wide firebreak along the perimeter boundary of all properties and with additional firebreaks around permanent structures and stationary engines is required
- compliance inspections
 - NTFRS may undertake compliance inspections on firebreak and fuel load management
- fuel management activities
 - as it is across the NT, it is the responsibility of the land owner / land holder to manage and mitigate the risk on the property. This is a responsibility of both the government and private entities
 - within the Locality the following list are some of the stakeholders responsible for managing and mitigating fuel load:
 - DLI
 - Local council

- Parks and Wildlife
- NTFRS
- BFNT
- Contracted private entities.

Preparedness is the range of activities that can prepare for an incident. These are commonly training, resource management and allocations and community education.

The NTFRS, through normal business, recruits, trains and resources their volunteers and staff for fire operations.

The NTFRS also undertake community engagement programs within the Locality, these programs primarily focus on:

- private home and block preparations
- fire survival plans
- youth engagement

The Australian Fire Danger Rating System⁹ (AFDRS) is a nationally aligned approach to fire weather forecast. Both the NTFRS and BFNT, through an observer network, gather a range of observations across the NT to provide data to the daily Fire Danger Rating. The ratings are described in the below image.

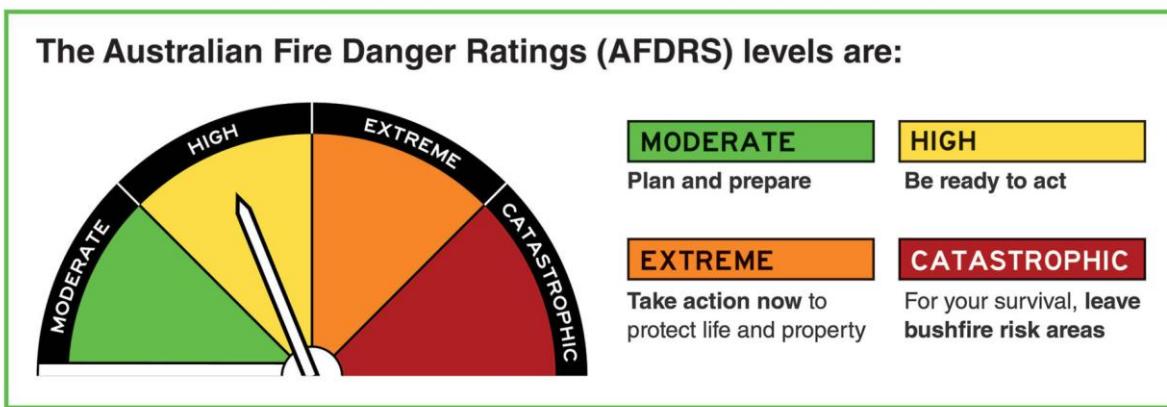


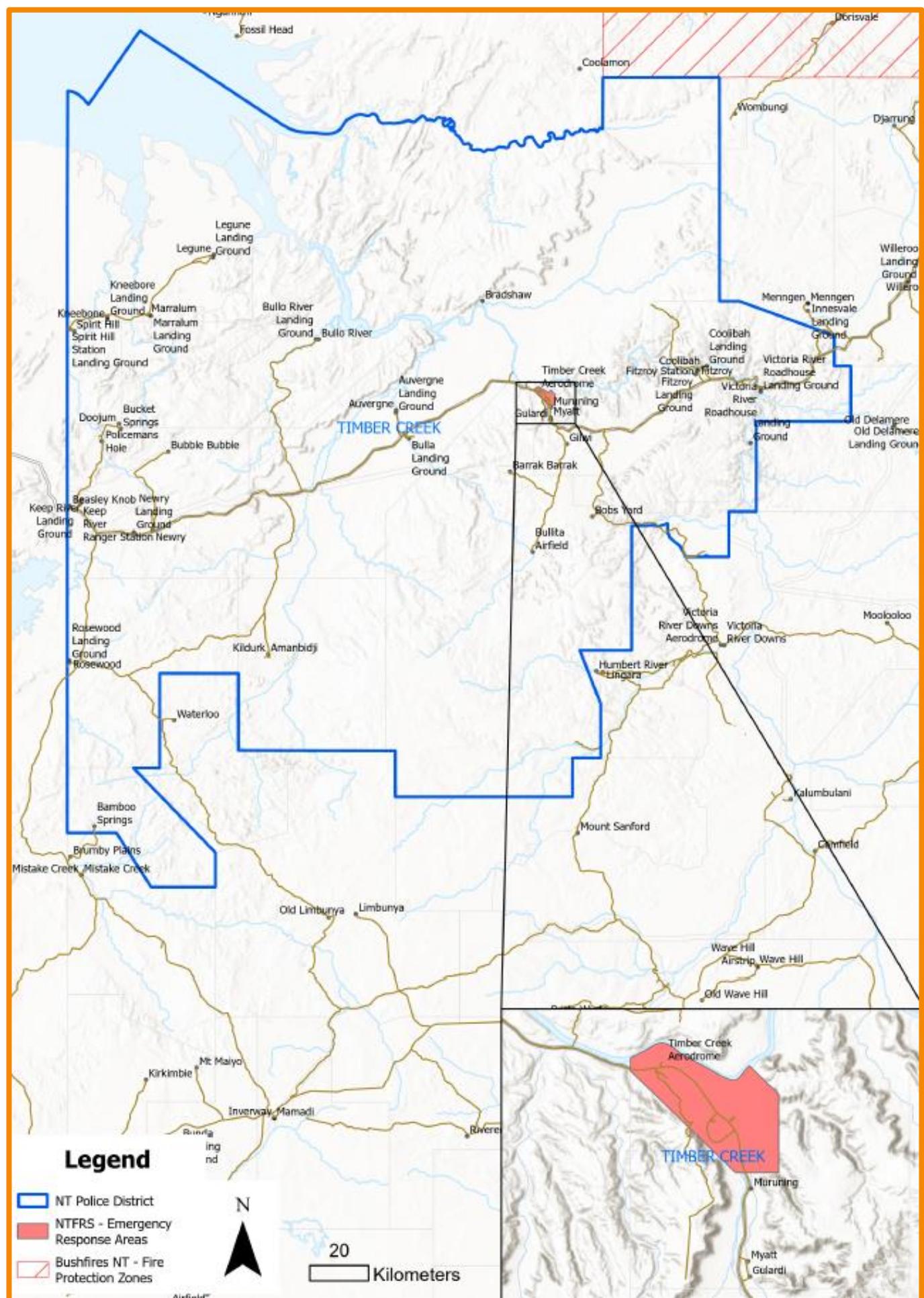
Figure 2: AFDRS Ratings

The response to bushfires is a business as usual activity for both the NTFRS and BFNT. Both agencies are the hazard management authority and controlling authority for fires within each of their jurisdictions. Practically each agency is responsible for managing the technical aspects of responding to a bushfire and commanding its resources through their Incident Controller.

If a fire is occurring within an ERA, the NTFRS is the control and hazard management authority, whereas when the fire is in the FPMZ, BFNT is the controlling and hazard management authority. This is graphically represented on page 38 Fire Jurisdictional boundary – Timber Creek.

⁹ More information can be found at: <https://afdrs.com.au/>

Fire ERA map – Timber Creek



NTFRS and BFNT has 3 classifications of incidents and describes them in generic terms, as shown in the table below:

Incident classification	Description
Level 1	Level 1 incidents are generally characterised by being able to be resolved through the use of local or initial response resources only.
Level 2	Level 2 incidents may be more complex either in size, resources or risk. They are characterised by the need for: <ul style="list-style-type: none"> deployment of resources beyond initial response, sectorisation of the incident, the establishment of function sections due to the levels of complexity, a combination of the above.
Level 3	Level 3 incidents are characterised by degrees of complexity that may require the establishment of divisions for effective management of the situation.

Australian Warning System

The Australian Warning System is a national approach to information and warnings during emergencies like bushfire. The System uses a nationally consistent set of icons, like those below. All warnings and advice will be issued by the Incident Controller from the relevant controlling authority for fire.

Each warning level has a set of action statements to give the community clearer advice about what to do. Calls to Action can be used flexibly across all 3 warning levels depending on the hazard.

There are 3 warning levels:

Warning level	Description
	Advice (Yellow) An incident has started. There is no immediate danger. Stay up to date in case the situation changes
	Watch and Act (Orange) There is a heightened level of threat. Conditions are changing and you need to start taking action now to protect you and your family
	Emergency Warning (Red) An Emergency Warning is the highest level of warning. You may be in danger and need to take action immediately. Any delay now puts your life at risk.

In instances where the Local Controller is required to perform a task or function, the controlling authority will contact the Local Controller. Tasks approved by the controlling authority's Incident Controller may include, but not limited to:

- liaison with key community stakeholders
- closure of roads or places
- fire cause or protection of potential area of origin
- post fire impact assessments.

Actions to be taken – Fire – guide only

Organisation/ Provider	Stage 1: Alert	Stage 2: Standby	Stage 3: Activation	Stage 4: Stand down	Transition to recovery
All Members	Attend briefings Inform key personnel Provide SITREPs	Attend briefings Inform key personnel Provide SITREPs	Attend briefings Inform key personnel Provide SITREPs	Attend briefings Inform key personnel Provide SITREPs	Attend briefings Inform key personnel Provide SITREPs
Local Controller			<p>On receipt of advice, and as overall controller of the incident:</p> <ul style="list-style-type: none"> • Notify appropriate service • Ascertain state of preparedness/response time • Determine the need to disseminate warning/information to the public • Ensure communications are established and maintained • Commence and maintain SITREP schedule <p>Ascertain need to set up forward command post and brief personnel, identified for command post staffing</p> <p>Ensure police station communications are</p>	<p>On completion of operation:</p> <ul style="list-style-type: none"> • Ensure all personnel (victims/responders) are accounted for • Ensure all personnel are advised of debrief arrangements • Arrange for critical incident stress debriefing, action as appropriate <p>Compile and forward Post Operations Report</p>	Attend debrief

Organisation/ Provider	Stage 1: Alert	Stage 2: Standby	Stage 3: Activation	Stage 4: Stand down	Transition to recovery
			<p>manned and running sheets (operations log) commenced</p> <p>Proceed to scene and carry out the following:</p> <ul style="list-style-type: none"> • Establish forward command post • Co-ordinate requests for assistance from other agencies • Act as on-site media officer <p>Prepare and forward regular SITREPs</p>		
NT Police – 2IC			<p>Establish contact with the Local Controller for details and confirmation of requirements, then:</p> <ul style="list-style-type: none"> • Contact appropriate brigade captain and arrange to meet at scene • Ensure the following items are on the vehicle: <ul style="list-style-type: none"> ○ Road closed signs ○ Safety warning devices (including spare batteries) ○ First aid kit 	<p>Upon completion of operations (as authorised by investigating authority):</p> <ul style="list-style-type: none"> • Co-ordinate clean-up of scene • Account for all equipment used and supervise the cleaning, servicing, repair and refurbishment • Assist the Local Controller in the compilation of the Post Operations Report <p>Assist the Local Controller with other tasks, as directed</p>	Attend debrief

Organisation/ Provider	Stage 1: Alert	Stage 2: Standby	Stage 3: Activation	Stage 4: Stand down	Transition to recovery
			<ul style="list-style-type: none"> • Advise Local Controller of departure and estimated time of arrival • On arrival at scene, accompany Brigade Captain and conduct reconnaissance of area • If necessary, initiate evacuation procedures and arrange for security of property • Provide SITREP to Local Controller <p>As interim onsite Commander, carry out the following:</p> <ul style="list-style-type: none"> • If possible, establish a mobile command post, upwind of incident and outside primary incident zone • Implement traffic/crowd control measures • If necessary, appoint staging section personnel to control and marshal vehicular traffic in/out of the area • If required, advise the Disaster Victim Identification (DVI) Commander and secure 		

Organisation/ Provider	Stage 1: Alert	Stage 2: Standby	Stage 3: Activation	Stage 4: Stand down	Transition to recovery
			<p>the site for the Coroner's investigation</p> <ul style="list-style-type: none"> • If required, ensure statutory investigation procedures are carried out <p>Unless directed otherwise, maintain regular SITREPs to Local Controller</p>		
Timber Creek FERG			<p>On receipt of advice of the threat:</p> <ul style="list-style-type: none"> • Implement callout procedures • Brief personnel and place on standby • Ascertain state of preparedness • Establish contact with Local Controller • Dispatch fire unit to area, assess situation and advise Local Controller • If necessary, advise adjacent volunteer brigades of situation with request for assistance or place on standby <p>Dispatch units to scene, reassess situation and take appropriate action to</p>	<p>Upon completion of operation:</p> <ul style="list-style-type: none"> • Account for all personnel • Account for all equipment used and supervise the cleaning, servicing, repair and refurbishment • Conduct operational debrief with personnel • If necessary, liaise with Local Controller regarding Critical Incident Stress Debriefing requirements <p>Prepare report or brief Local Controller, as appropriate</p>	Attend debrief

Organisation/ Provider	Stage 1: Alert	Stage 2: Standby	Stage 3: Activation	Stage 4: Stand down	Transition to recovery
			<p>contact and extinguish, if possible</p> <p>Once under control, patrol area until satisfied there is no longer a threat</p>		
Health Clinic			<p>Establish contact with the Local Controller for details and confirmation of requirements</p> <p>if necessary, implement call out procedures</p> <p>Brief staff and if necessary, instruct to remain on standby</p> <p>Prepare vehicles and health centre in the event of casualties</p> <p>Advise Local Controller of state of preparedness and maintain contact</p> <p>Maintain normal health services and if activated, provide additional health and medical assistance, as required</p>	<p>Upon completion of operation:</p> <ul style="list-style-type: none"> Refurbish equipment as necessary and coordinate the re-establishment of normal health centre operations Liaise with Local Controller regarding any ongoing public health issues because of the incident Provide relevant information to the Local Controller for the SITREP <p>Stand down personnel</p>	<p>Attend debrief</p> <p>If necessary, liaise with the Local Controller regarding requirements for Critical Incident Stress debrief support</p>
Support organisations	Provide support as requested by the Local Controller				

11.3.3. Flooding

Hazard	Controlling authority	Hazard management authority
 Flooding	NT Police Force	NT Fire and Emergency Services (NT Emergency Service)

The Timber Creek Locality may be subject to inundation caused by seasonal monsoonal/severe storm activity. When such inundation occurs, access by both air and road will be severely restricted. Inundation (also known as pluvial flooding) occurs when an area receives a large amount of water in a short amount of time which causes localities to be submerged. In the NT, this can include when a riverbank is at risk after several days of heavy rain.

A flood hazard includes a flood threat to the township, housing and infrastructure of the Locality including the surrounding areas. The Bureau will issue a Flood Watch advice with up to 4 days lead time in situations where forecast rainfall and catchment conditions may lead to flooding¹⁰.

Historical research of river levels, which are made available by the DLPE dating back to 1960, shows that the Timber Creek area has been threatened with the below levels recorded at the police station:

- 1960, March 7.61 m Australian Height Datum (AHD)
- 1964, March 10.74 m AHD
- 1966, March 8.20 m AHD
- 1968, January 7.31 m AHD
- 1974, March 14.4 m AHD
- 1991, February 15.2 m AHD
- 2006, April 21 m AHD
- 2022, December 22 m AHD
- 2023, March 21.96 m AHD
- 2024, January 24.3 m AHD

Little Horse Creek

- 1991, February 13.2 m AHD

Whilst there are no gauging stations for the locality, the following table provides guidance for riverine flooding on NT communities. The indicative impact of floods levels are provided in the table below:

Victoria River Victoria Highway – Vic River Roadhouse

Flood Impact	Consequence
Disruptive flooding	Causes inconvenience. Low-lying areas next to water courses are inundated. Minor roads may be closed and low-level bridges submerged. Flood ways, local creeks cut access to Victoria Highway due to catchment run off. Local Cattle Stations to undertake removal of stock and equipment.
Moderate – 17 m	In addition to the above, the area of inundation is more substantial. Main traffic route – Victoria Highway and “Don Darben Bridge” may be affected, with the bridge deck sitting at 19.50m. Some buildings may be affected by water ingress on the lower (river) side of the Roadhouse. Evacuation of flood affected areas may be required. Local Stations are to undertake operations for removal of stock.

¹⁰ More information can be found at: http://www.bom.gov.au/cgi-bin/wrap_fwo.pl?IDD60022.html

Flood Impact	Consequence
Critical/emergency flooding	In addition to the above, extensive rural areas and/or urban areas are inundated. Many buildings may be affected above the floor level. Properties and towns are likely to be isolated and major rail and traffic routes closed. Evacuation of flood affected areas may be required. Roadhouse runs off own generator/Starlink for communications and own bore pump/tank for water supplies.

Timber Creek Township – Victoria River (Timber Creek, Watch Creek and Waterfall Creek)

Flood Impact	Consequence
Disruptive flooding	Causes inconvenience. Low-lying areas next to water courses are inundated. Minor roads may be closed and low-level bridges submerged. In urban areas inundation may affect some backyards and buildings below the floor level as well as bicycle and pedestrian paths. In rural areas removal of stock and equipment may be required
Community impact flooding	Victoria River starts to back up feeder creeks into Timber Creek Township affecting water inundation levels around infrastructure. The risk of Flash Flooding becomes extreme due to Creeks not being able to cope with excess water feeding into major tributaries coming off the catchment flowing into adjoining creeks, water flows across Victoria Highway cutting access to Township and Major Arterial Roadways/supply routes into/out of Western Australia. Communications may be cut to town due to water ingress on Telstra “Pits”.
Critical/emergency flooding	In addition to the above, extensive rural areas and/or urban areas are inundated. Many buildings may be affected above the floor level. Properties and towns are likely to be isolated and major traffic routes closed impacting food supplies into Western Australia. Evacuation of flood affected areas may be required. Significant Utility services impacted.

Muruning, Myatt, Gulardi and Gilwi

Flood Impact	Consequence
Disruptive flooding	Causes inconvenience. Low-lying areas next to water courses are inundated. Minor roads may be closed and low-level bridges submerged. In urban areas inundation may affect some backyards and buildings below the floor level as well as bicycle and pedestrian paths. In rural areas removal of stock and equipment may be required
Community impact flooding	Victoria River starts to back up feeder creeks into Timber Creek Township affecting water inundation levels around infrastructure. The risk of Flash Flooding becomes extreme due to creeks not being able to cope with excess water feeding into major tributaries coming off the catchment flowing into adjoining creeks, water flows across Victoria Highway cutting access to Township and major arterial roadways/supply routes into/out of Western Australia. Communications may be cut to town due to water ingress on Telstra “Pits”.
Critical/emergency flooding	In addition to the above, extensive rural areas and/or urban areas are inundated. Many buildings may be affected above the floor level. Properties and towns are likely to be isolated and major traffic routes closed impacting food supplies into Western Australia. Evacuation of flood affected areas may be required. Significant utility services impacted.

Bulla Community

Flood Classification	Consequence
Disruptive flooding	Causes inconvenience. Low-lying areas next to water courses are inundated. Minor roads may be closed and low-level bridges submerged. In urban areas inundation may affect some backyards and buildings below the floor level as well as bicycle and pedestrian paths. In rural areas removal of stock and equipment may be required.
Community impact flooding	In addition to above. Victoria Highway becomes impassable at East Baines Bridge. Many creeks/floodways between Timber Creek and Bulla inundated with water and possibly impassable. Water flow during 2023/24 floods did not directly impact community – only cut access to Victoria Highway across East Baines Bridge cutting food supplies to residents.
Critical/emergency flooding	In Addition to the above. Low lying homes become inundated with water. Critical infrastructure/utilities are inundated losing all services.

The Locality is drained by a number of rivers and creeks, the main being as follows:

- East Baines River
- Sandy Creek
- Skull Creek
- Timber Creek
- Victoria River
- West Baines River

The Victoria River is the NT's longest river and it has a number of significant tributaries. The headwaters of the Victoria River lie to the south/east of the site but the middle reaches of the river cross the site from east to west and numerous tributaries drain the ranges and hills and feed into it. The highway crosses Victoria River near Timber Creek, and this crossing is particularly flood-prone in the Wet Season. Water overtopping the bridge can cut the Victoria Highway, which is the main access between Western Australia – NT, for days or even weeks during the November - April rainy period.

In May 2008 a project was undertaken to replace the old bridge with a higher one. At 19.5 m (64 feet), it is high enough to avoid most floods. Only an average of one-in-20 year floods will be high enough to flood over the new bridge, which has occurred in the December 2022 floods that impacted the area. Additional bridges and height increases of other sections of the highway were undertaken at the same time.

During the Wet Season the Timber Creek Locality can experience local flooding, especially if the Victoria River levels are already at full capacity, restricting and delaying drainage of floodwaters from the catchment and feeding river systems.

Rainfall and selective river level information is also provided by the Bureau. This information supplements that provided by DLPE and is collected, collated and disseminated by the NTES to the Timber Creek LEC and the public. The Bureau currently has within the catchment area 12 daily rainfall reporting stations which have been equipped with Remote Observer Terminals as part of the Flood Early Warning upgrade.

Telemetry gauging stations, as well as tipping bucket rain gauges are located at Dashwood Crossing, Coolibah Homestead, Kalkarindji Police Station and Wickham River. Kalkarindji, Dashwood Crossing, Wickham River and Coolibah Homestead are all connected to the system. This station will provide a rainfall input for the smaller tributaries between Dashwood Crossing and Coolibah Homestead.

As the Hazard Management Authority the NTES have established, equipped and trained volunteer units within the NT, to support response and recovery operations to flood events.

The NTES maintain the Territory EOC in a state of readiness. If the EOC is required to be activated by the Regional Controller, the NTES will support this activation and facilitate, where possible, the staffing requests for IMT personnel.

Prevention and preparative controls include, but are not limited to:

- the Bureau weather/flood warnings/advice
- Road closures on flooded causeways

Public safety message process:

- the Bureau issues a flood advice to NTES TDO
- NTES TDO issues Australian Warning System to the NTFES Media Unit
- NTES TDO notifies Local Controller and NTES Manager Northern
- Local Controller notifies LEC
- NTES Manager Northern consults with the Bureau and Incident Controller to determine recommended messaging
- NTFES Media Unit or Public Information Officer receives approved messaging to publish

Warnings and advice approval flow

The Australian Warning System is a national approach to information and warnings during emergencies like storm, flood and cyclone. The system uses a nationally consistent set of icons that are found below.

There are 3 warning levels:

Warning level	Description
	Advice (Yellow) An incident has started. There is no immediate danger. Stay up to date in case the situation changes
	Watch and Act (Orange) There is a heightened level of threat. Conditions are changing and you need to start taking action now to protect you and your family
	Emergency Warning (Red) An Emergency Warning is the highest level of warning. You may be in danger and need to take action immediately. Any delay now puts your life at risk.

Each warning level has a set of action statements to give the community clearer advice about what to do. Calls to Action can be used flexibly across all 3 warning levels depending on the hazard.

On advice from the Bureaus' weather warnings, the NTES determine the Australian Warning System level.

The NTES TDO is responsible for issuing Australian Warning System warnings and advice prior to an Incident Controller is appointed.

Actions to be taken – Flooding – guide only¹¹

Organisation/ Provider	Flood Watch	Inundation
All members	Attend LEC meetings Relay information to other key stakeholders	Assist where necessary and ensure all procedures for each location/area to be affected is well prepared
Local Controller	Update LEC members of the impending situation	SITREP is to be circulated to committee members and key stakeholders
FERG	Attend LEC meetings Relay information to other key stakeholders	Assist where necessary and ensure all procedures for each location/area to be affected is well prepared

¹¹ Action stages as per Flood products issued by the Bureau of Meteorology

11.3.4. Heatwave

Hazard	Controlling Authority	Hazard Management Authority
	Heatwave	Department of Health

The NT has naturally warm to hot weather. However, maximum and minimum temperatures occasionally exceed historical records creating heatwave conditions. Heatwave (extreme heat) conditions occur across the Territory between the months of October and March. Extreme heat is predicted to become more frequent, more intense, of longer duration, and occurring earlier in the warm season.

A heatwave occurs when maximum and minimum temperatures are unusually hot (unusual for that location) projected over a 3 day period. Heatwaves can occur with or without high humidity. They have potential to cover a large area, exposing individuals and communities to hazardous heat. Forecast minimum and maximum temperatures are compared to the historical data of a location as well as temperatures over the last 30 days to establish a heatwave occurrence.

Extreme heat can be very taxing on the body. The human body can be over-heated when it is surrounded by a temperature close to or exceeding body temperature of 37°C in the presence of dehydration. If the body's temperature is unable to be reduced adequately by evaporation of perspiration or moving to cooler surroundings, the resulting illness may range from mild to severe/catastrophic.

A heatwave forecast is a warning that the hot temperatures will be a shock to the body, compared to recent temperatures. Even the most acclimatised NT residents can be affected by heat stress. The Bureau's heatwave forecast covers all localities in the NT.

NT Health publishes heat health alerts where a severe or extreme heatwave is forecast to affect:

- a major centre (Greater Darwin Region, Alice Springs, Katherine, Tennant Creek, Nhulunbuy OR
- 3 or more populated centres in a Bureau weather district

AND the forecast is:

- 3 or more days of severe heatwave OR
- 2 or more days of extreme heatwave

The level of a severe or extreme heatwave event will determine the magnitude of response required to effectively manage the situation. The following describes heatwave incident response hierarchy and are based on AIIMS incident classification.

Level	Description
Level 1	The Severe or Extreme Heatwave has minimal or no impact on normal operations. The Severe or Extreme Heatwave continues for 1 - 3 days.
Level 2	The Extreme Heatwave continues for approximately 3 - 6 days. The Extreme Heatwave has major impact on normal operations. The weather event is resulting in compounding impacts on essential services and infrastructure, and there are anticipated impacts on human health and infrastructure.
Level 3	An Extreme Heatwave is protracted, exceeding 6 days. Maximum temperatures for the localities are exceeded for what is normally expected and multiple days with significantly increased night-time temperatures.

Prevention and preparative controls include, but are not limited to:

- preseason situational awareness with the Bureau
- developing heat health communication and community engagement strategies
- engagement with government and private agencies, functional groups and community organisations
- preparing fact sheets, and translating into indigenous and multicultural languages
- monitoring the Bureau heatwave forecast and decision support product
- public messaging (using radio, website posts, and social media posts) when a heatwave is forecasted, imminent or in progress

Public safety message process:

- NT Health receives heatwave warning from the Bureau
- the heatwave decision support product is reviewed and localities of forecast severe or extreme heatwave noted
- NT Health Strategic Media, Marketing and Communications Team publish heat health alerts on NT Health Alerts webpage and other channels
- NT Health publishes media release through NTG Media Releases
- NT Health engages with media to broadcast heat health messages

Warnings and advice approval flow:

The Australian Warning System is a national approach to information and warnings during emergencies like bushfire. The system uses a nationally consistent set of icons, like those below.

There are 3 warning levels:

Warning level	Description
	Advice (Yellow)
	Watch and Act (Orange)
	Emergency Warning (Red)

Each warning level has a set of action statements to give the community clearer advice about what to do. Calls to Action can be used flexibly across all 3 warning levels depending on the hazard.

11.3.5. Road crash

Hazard	Controlling authority	Hazard management authority
 Road Crash	NT Police Force	NT Fire and Emergency Services (NT Fire and Rescue Service)

A road crash occurs when a vehicle collides with another vehicle, pedestrian, animal, road debris, or other stationary obstruction, such as a tree, pole or building. Road crashes often result in injury, disability, death, and or property damage as well as financial costs to both society and the individuals involved. Emergency services are frequently called on to extricate seriously injured casualties from their vehicles following road crashes. This is achieved by employing space creation techniques to create openings in the vehicle. These openings make it possible to administer first aid to the casualty and to remove them from the vehicle.

A number of factors contribute to the risk of collisions, including vehicle design, speed of operation, road design, weather, road environment, driving skills, fatigue, impairment due to alcohol or drugs, and behaviour, notably aggressive driving, distracted driving, speeding and street racing.

Responses to road crash incidents will be coordinated from the JESCC. NTFRS will respond as per pre-determined response arrangements contained within the SerPro system for incidents occurring within an NTFRS ERA. For incidents occurring outside of an ERA, response will be approved by the rostered NTFRS TDO.

Prevention and preparative controls include, but are not limited to:

- radio, television and social media posts
- targeted road safety campaigns
- community engagement strategies
- training in PUASAR024 - undertake road crash rescue delivered by NTES and NTFRS to NTPF and NTFES members

Public safety message process:

- NTPF Territory Duty Superintendent to approve public messaging and forward to NTPF Media Unit for dissemination

Actions to be taken – Road crash – guide only

Organisation/ Provider	Stage 1: Alert	Stage 2: Standby	Stage 3: Activation	Stage 4: Stand down	Transition to recovery
All Members	Attend briefings Inform key personnel Provide SITREPs	Attend briefings Inform key personnel Provide SITREPs	Attend briefings Inform key personnel Provide SITREPs	Attend briefings Inform key personnel Provide SITREPs	Attend briefings Inform key personnel Provide SITREPs
Local Controller			Carry out initial reconnaissance of impacted area Coordinate requests for assistance from other agencies	Ensure all personnel (victims and responders) are accounted for Ensure all personnel are advised of debrief arrangements	Arrange for Critical Incident Debriefing, action as appropriate
NT Police – 2IC			Carry out initial reconnaissance of impacted area Implement security procedures for incident scene and personal property	Ensure all personnel (victims and responders) are accounted for Account for all equipment used Assist the Local Controller, as requested	Assist the Local Controller in the compilation of the Post Operations Report
Timber Creek FERG			Carry out initial reconnaissance of impacted area Possible extraction of people may be required Implement security procedures for incident scene and personal property	Ensure all personnel (victims and responders) are accounted for Account for all equipment used Assist the Local Controller, as requested	Assist the Local Controller in the compilation of the Post Operations Report Liaise with the Local Controller regarding the requirements for Critical Incident Debrief support

Organisation/ Provider	Stage 1: Alert	Stage 2: Standby	Stage 3: Activation	Stage 4: Stand down	Transition to recovery
Health Clinic			<p>Implement call out procedures</p> <p>Equip and dispatch vehicle to accident scene</p> <p>Brief staff and instruct to remain on standby</p> <p>Prepare health centre to review possible accident victims</p> <p>Advise Aerial Medical Section in Darwin and commence training</p> <p>Administer emergency treatment</p>	<p>Account for all health personnel</p> <p>Refurbish equipment, as necessary</p> <p>Co-ordinate the re-establishment of normal health centre operations</p> <p>Provide information to the Local Controller for inclusion in the Post Operations Report</p>	<p>Controller in the compilation of the Post Operations Report</p> <p>Liaise with the Local Controller regarding the requirements for Critical Incident Debrief support</p> <p>Advise the Local Controller regarding any on-going public health issues as a result of the incident</p>
Support organisations	Provide support as requested by the Local Controller				

11.4. Annex D: Summary of response and recovery activities

The following table outlines a summary of possible response and recovery activities to be considered following an event.

This table is presented as a guide only, assisting emergency managers with operational decision making, planning and resource allocation. It also highlights the importance of response and recovery coordination working collaboratively.

Activities have been broken down and are listed under either response or recovery for simplicity and ease of use. In practice not all response activities will be completed during the response phase. Likewise not all recovery activities will commence after the transition to recovery.

The post event period of any event is highly dynamic and produces many challenges, both foreseen and unpredicted. Response and recovery coordination must be flexible and able to adapt to the situation as it evolves.

In most cases the points noted in this table and in the ensuing document are outlined in greater detail in functional group or agency plans.



Activity	Response activities	Recovery activities
1. Situational awareness	Road clearance teams General public Media reports Survey and rescue teams Impact assessment teams	Contributes to recovery planning through impact assessment data Comprehensive Impact Assessments Needs Assessment
2. Public Information	Public Information Group activation Spokespersons identified SecureNT activated	Continues in recovery
3. Survey and Rescue	Survey teams deploy to designated areas Critical sites surveyed Deploy rescue teams – NTFRS and NTPF Specialist Response Division provide primary Urban Search and Rescue capability	Survey and Impact Assessment data used to contribute to the Recovery Action Plan
4. Road clearance	Road patrol teams deploy and check assigned routes Road clearance to priority sites Assess Stuart Highway to Katherine (supply route)	Restoration of road networks and bridges Return to business as usual

Activity	Response activities	Recovery activities
5. Emergency accommodation	<p>Emergency accommodation and shelter</p> <ul style="list-style-type: none"> - evacuation centres <p>Provision of resources that will enable people to remain in their homes</p> <p>Emergency clothing</p>	<p>Evacuation centres may continue into recovery</p> <p>Temporary accommodation options</p> <p>Repatriation planning</p>
6. Medical	<ul style="list-style-type: none"> • Hospital <ul style="list-style-type: none"> ○ Identify any issues with accessing facilities ○ Initial Impact assessment ○ Access to critical supplies e.g. medicines, consumables, power or fuel and water ○ ongoing acute clinical care and critical services requirements ○ increase morgue capacity • Health Centres <ul style="list-style-type: none"> ○ identify any issues with accessing facilities ○ Access to critical supplies e.g. medicines, consumables, power or fuel and water • GP clinics and pharmacies <ul style="list-style-type: none"> ○ identify operational GP services ○ identify operational pharmacies • Support Medically vulnerable people • Medical retrieval services (air and road) 	<ul style="list-style-type: none"> • Ongoing provision of health services <ul style="list-style-type: none"> - which may include business continuity plans - engagement with stakeholders • Repatriation of medically vulnerable people in community • GP clinics and pharmacies <ul style="list-style-type: none"> - ongoing liaison by the Medical Group • Medical retrieval services – resume business as usual

Activity	Response activities	Recovery activities
7. Essential goods and services	<p>Establish emergency feeding and food distribution points</p> <p>Assessing the damage to suppliers and retailers of critical resources</p> <p>Assess the impact on barge operations and any effect on the ability to supply remote communities</p> <p>Implement interim banking arrangements</p>	<p>Support the re-opening of the private business sector</p> <p>Monitor levels and availability of essential goods</p> <p>Manage logistics arrangements supplying resources to outlying communities</p> <p>Public health inspections (food outlets)</p> <p>Banking sector business continuity arrangements</p>
	<p><u>Fuel</u></p> <p>Fuel suppliers and point of sale</p> <p>Manage fuel supplies to emergency power generation</p>	<p>Monitor fuel levels</p> <p>Infrastructure repairs</p> <p>Emergency fuel supplies for recovery</p> <p>Liaise with fuel suppliers, distributors and wholesalers to re-establish long term supply</p>
	<p><u>Banking</u></p>	<p>Emergency cash outlets</p>
	<p>Assess damage to banks and ATMs</p>	<p>Implement long term arrangements</p>
8. Evacuation	<p>Evacuations within community</p> <p>Evacuation out of community</p> <p>Registration</p>	<p>Support services for evacuees</p> <p>Recovery information for evacuees</p> <p>Repatriation</p>
9. Public health	<p>Communicable disease control response</p> <p>Drinking water safety standards</p> <p>Sewage and waste disposal</p> <p>Safe food distribution and advice</p> <p>Vector and vermin control</p> <p>Food and commercial premises</p>	<p>Ongoing in recovery</p>
10. Utilities	<p>Power supply</p> <p>Power generation</p> <p>Water supply</p> <p>Sewerage</p> <p>Emergency sanitation</p>	<p>Restore power network</p> <p>Restore water and sewerage infrastructure</p> <p>Issue alerts until safe to use</p>
11. Impact assessments	<p>Training assessment teams</p> <p>Initial impact assessments</p>	<p>Comprehensive impact assessments</p> <p>Ongoing needs assessments</p>

Activity	Response activities	Recovery activities
12. Transport infrastructure (supply lines)	<u>Air</u> (airport/airstrip) Clear the runway to allow air movements Establish a logistics hub at the airport Terminal damage and operational capability assessment	Monitor repairs and business continuity activities
	<u>Road</u> Highway and critical access roads damage assessment Repair work to commence immediately	Planning and prioritising repair work of all affected key Territory Highways (Stuart, Barkly, Victoria and Arnhem)
	<u>Rail</u> Rail damage assessment Outage estimation	Ongoing liaison with operator to support restoration to business as usual
	<u>Port, harbour and barge</u> Assess damage to port infrastructure and harbour facilities Assess the damage to barge facilities	Repairing infrastructure Establish alternate arrangements for the supply of remote communities
13. Waste management	Waste management requirements and develop waste management plan if required	Continues in recovery
14. Repairs and reconstruction	Private housing - impact assessments - temporary repairs Government buildings - damage assessment Public housing - impact assessments Private industry - damage assessments	Private housing - information and support to facilitate repairs Government buildings - repairs and reconstruction Public housing - long term repair plans Private industry - repair and reconstruction Temporary accommodation for a visiting construction workforce
15. Transport services	Staged re-establishment of public transport services	Continues in recovery
16. Telecommunication	Telecommunications providers will assess the damage to their infrastructure	Repair damage networks and infrastructure (for private entities there is support for operators only)

Activity	Response activities	Recovery activities
	Put in place temporary measures to enable landline and mobile services	
17. Public safety	NTPFF will maintain normal policing services to the community	Gradual return to business as usual
18. Animal welfare	Temporary emergency arrangements for pets	Reunite pets with their owners and cease emergency support arrangements
19. Community consultation	Information provision regarding the overall situation, response efforts, what services are available and how to access them	Community consultation process regarding long term recovery and community development

12. Acronyms

Acronyms	Definitions
AAPA	Aboriginal Areas Protection Authority
ABC	Australian Broadcasting Corporation
AEP	Aerodrome Emergency Plan
AHD	Australian Height Datum
AIIMS	Australasian Inter-Service Incident Management System
BFNT	Bushfires NT
CASA	Civil Aviation Safety Authority
CM&C	Department of the Chief Minister and Cabinet
DCDD	Department of Corporate and Digital Development
DCF	Department of Children and Families
DET	Department of Education and Training
DLI	Department of Logistics and Infrastructure
DLPE	Department of Lands, Planning and Environment
DoH	Department of Health
DTBAR	Department of Trade, Business and Asian Relations
EMA	Emergency Management Australia
EOC	Emergency Operations Centre
ERA	Emergency Response Area
ESO	Essential Services Officer
FERG	Fire and Emergency Response Group
ICC	Incident Control Centre
ICP	Incident Control Point
JESCC	Joint Emergency Services Communications Centre
LCC	Local Coordination Centre

Acronyms	Definitions
LEC	Local Emergency Committee
LRCC	Local Recovery Coordination Committee
NERAG	National Disaster Risk Assessment Guidelines
NT	Northern Territory
NTES	Northern Territory Emergency Service
NTFES	Northern Territory Fire and Emergency Services
NTFRS	Northern Territory Fire and Rescue Service
NTG	Northern Territory Government
NTPF	Northern Territory Police Force
PAWC	Power and Water Corporation
RAT	Rapid Assessment Team
RCC	Rescue Coordination Centre
SEWS	Standard Emergency Warning Signal
SITREP	Situation Report
STAND	Strengthening Telecommunications Against Natural Disasters
TDO	Territory Duty Officer
TEMC	Territory Emergency Management Council
VDRC	Victoria Daly Regional Council
VRD	Victoria River Downs
WebEOC	Web-Based Emergency Operations Centre