

NORTH BURNETT REGION DISASTER MANAGEMENT PLAN

Disaster Support Plan – MUNDUBBERA (Public Version)

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Introduction

This plan is a supporting plan to the North Burnett Region Disaster Management Plan. It provides town and district specific detail necessary to effectively undertake disaster operations locally under the authority of the LDMG.

Disaster Support Groups play a key role in the North Burnett Region Disaster Management Response Strategy by supporting the LMDG in undertaking the following key aspects of disaster operations locally:

- Coordination of local resources
- Evacuation
- Provision of Community Support

This plan details the arrangements in Mundubbera for these key functions. A short description of the area covered by this plan is provided in Annex A.

This plan should be read in conjunction with the North Burnett Region Disaster Management Plan and its companion Disaster Operating Manual. Specific Sub Plans relate to this plan and the following should be read in conjunction with this plan.

- Sub Plan 1 – Business & Governance
- Sub Plan 2 – Activation & Coordination
- Sub Plan 5 – Evacuation and Evacuation Centre Management

Mundubbera Disaster Support Group

Composition and Roles

The role, function and terms of reference for Town Disaster Support Groups are detailed in the *North Burnett Region Disaster Management Plan* and in *Sub Plan 1 – Business and Governance*.

The Mundubbera Disaster Support Group comprises the following:

ROLE	POSITION	FUNCTIONS
Chair	Councillor	<ul style="list-style-type: none">• Provide leadership to Group• Chair meetings• Act as conduit to Chair of LDMG• Assist in establishing Community priorities for preparation, response and recovery
Executive Officer	Council Officer	<ul style="list-style-type: none">• Provide executive support to Chair• Maintain plans and records on behalf of the Group• Secretariat for Meetings
Depot Supervisor	Technical Services	<ul style="list-style-type: none">• Coordinating Councils Works resources• Provide advice to the group on Council works operations

SES	SES Group Leader	<ul style="list-style-type: none"> • Coordinate SES operations • Provide advice to Group on SES operations
Fire & Emergency	QFES Representative	<ul style="list-style-type: none"> • Coordinate QFES operations • Provide advice to Group on QFES operations
Medical Support	QAS Representative	<ul style="list-style-type: none"> • Coordinate QAS operations • Provide advice to Group on QAS operations
Public Safety	QPS Representative	<ul style="list-style-type: none"> • Coordinate QPS operations • Provide advice to Group on Public Safety operations
Health Support	Hospital Representative	<ul style="list-style-type: none"> • Provide advice to Group on Health requirements of community
Ergon Energy	Electricity Representative	<ul style="list-style-type: none"> • Coordinate Power Supply
Community Services and Church Groups	Community Services and Church Groups Representative	<ul style="list-style-type: none"> • Provide Community Assistance • Provide advice to the Group
CUBDHA Ridgehaven	Aged Care Facilities	<ul style="list-style-type: none"> • Coordinate issues associated with aged care and safety
Telstra	Telecommunications Representative	<ul style="list-style-type: none"> • Coordinating telecommunications resources • Provide advice to the group on telecommunications operations

Table 1 – Mundubbera Disaster Support Group Members and Roles

A full confidential contact register for all members of the Support Group is at Annex B to this Sub Plan (not included in public version).

General Meetings

General meetings of the Disaster Support Group will be at the discretion of the Chair but at least two general meeting should be held annually (generally in April and September). These meetings will be for the purpose of:

- Review and updating of this plan as required.
- Developing and disseminating public preparedness messages and information in accordance with the Community Awareness strategies developed by the LDMG.
- Identification of prevention and mitigation measures that should be communicated to the LDMG via the Chair of the sub-group.
- Developing a good working rapport with other members of the Support Group in order to underpin efficiency and effectiveness in response before, during and after a disaster.

Authority to Activate

Activation of the Disaster Support Group will be authorised by the Chair of the LDMG or the Local Disaster Coordinator. The Chair of the Support Group may recommend that the Group be activated to plan for, and coordinate, the provision of community support and evacuation.

The Chair, in consultation with the members of the Support Group may activate the Group during periods of extended communications blackouts when contact with the LDMG is lost. In such cases the Chair and the Executive Officer, with the support of the Support Group may undertake disaster operations as required to preserve life and protect property, specifically the coordination of evacuation and provision of community support. Authority reverts back to the LDMG and the Local Disaster Coordinator on restoration of adequate communications.

Circumstances that may warrant activation include:

- A warning of an impending threat which in the opinion of the Chair or delegate, would require a coordinated community response; or
- A request from a Lead Agency for assistance under the LDMP;
- A request from an affected Local Government under mutual aid arrangements, to provide assistance to a neighbouring Local Government; or
- On advice from the state for an impending disaster

LOCAL COORDINATION

Operational Meetings of the Support Group

Once activated the Disaster Support Group will meet as required under the direction of the Chair in order to coordinate operational response activities and to ensure the community and all agencies have an appropriate level of situational awareness.

The Chair and Executive Officer shall ensure that regular Situation Reports are provided to the LDMG as required by the Local Disaster Coordinator using the reporting formats contained in *Sub Plan 2 – Activation & Coordination*.

Coordination Cell

The Group will coordinate its activities during disaster response activities in a Coordination Cell established at:

**North Burnett Regional Council
Mundubbera Administration Centre
28 Lyons Street
Mundubbera Q 4626**

An alternate site if required is to be located at:

**North Burnett Regional Council
Mundubbera Administration Centre
Lyons St Mundubbera Q 462**

Functions of the Coordination Cell.

The coordination cell will be staffed and resourced by members of the Support Group, or their representatives, and will undertake the functions of local level coordination on behalf of the LDCC. These functions are:

- Undertaking and advising on planning to ensure local responses are appropriate and effective.
- Implementing LDMG plans and direction.
- Making and recording local decisions when necessary.
- Coordinating local community resources including local emergency services.
- Managing information including reporting to the LDMG and providing public information to community.
- Keeping Records including financial expenditure.

The above functions appear to differ from the normal Incident Management System usually applied in typical Coordination Centres. While these normal incident management functions (Operations, Logistics, Intelligence & Planning) remain relevant, the simplified functions provided above are considered more relevant to the limited resources available to the Support Group.

They are focused on “outcomes” to be achieved rather than processes to be followed.

Staffing the Local Level Coordination Cell

A possible model for the Local Coordination Cell is shown in the diagram below.

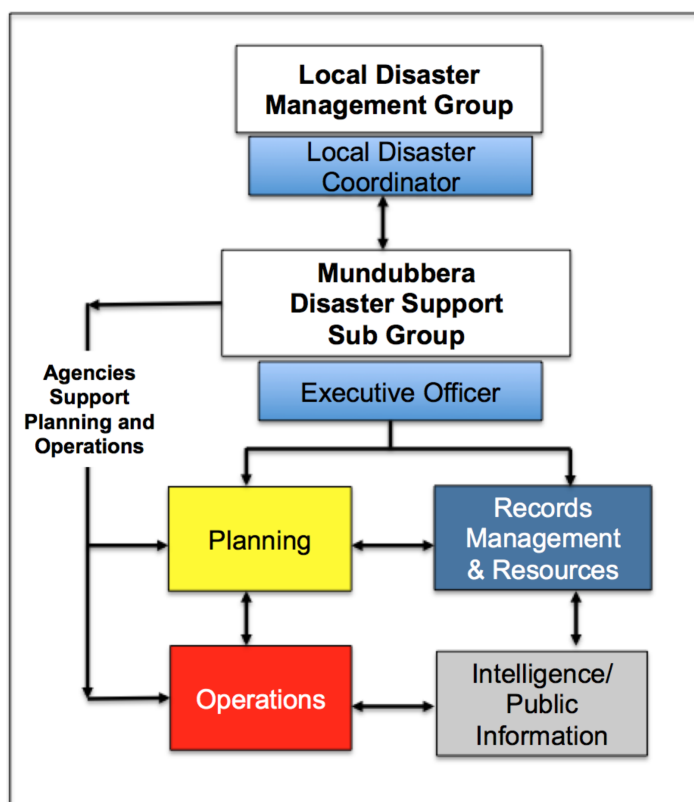


Diagram 1 – Coordination Cell Model

This model demonstrates how the Executive Officer, with support from the Chair and Support Group members, undertakes key roles in overseeing operations and facilitating planning.

The Chair of the Group and supporting agencies convene as the Planning Group and are required to undertake planning meetings in order to develop plans for response operations as required by the LDMG. A typical planning group may include:

Planning Group – Mundubbera Disaster Support Group	
Council	Agencies/ Community Organisations
Chair of Support Group Executive Officer Works Supervisor Works Foreman Administration Officer (minutes)	Police QFES QAS SES Ergon Energy Mundubbera Hospital Other community organisations/entities as required

Table 2 – Mundubbera Disaster Planning Group

Supporting the Executive Officer are staff that focus on *Records/ Resource Management* and *Intelligence/ Public Information*. These cells may be combined in small events. Usually Council staff will undertake these functions. A guide to the functions performed by the staff in a Town Coordination Cell are provided below:

Function	Tasks	Responsibility
Planning	<ol style="list-style-type: none"> 1. Develop plans as required for evacuation and community support and other response operations as directed by the LDMG. 2. Records to be maintained of planning considerations and outcomes. 	Executive Officer / Planning Group
Implementing plans	<ol style="list-style-type: none"> 1. Briefing agencies and establishing agency tasks. 2. Monitoring implementation and adjusting plans if needed 3. Reporting on progress. 	Executive Officer / Agencies
Making Decisions	<ol style="list-style-type: none"> 1. Convene Support Group to discuss and make decisions as required 2. Records to be maintained of decisions and the circumstances they were taken. 	Disaster Support Group
Coordinating Community Resources	<ol style="list-style-type: none"> 1. local emergency services 2. community groups/ organisations 3. Council resources 4. Volunteers and donations 	Agencies and Resource Management

	5. animal welfare 6. business support	
Managing Information	1. Situation Report 2. Maintenance of Maps, Tabulated Data, 3. Development of Community Messaging 4. Dissemination of Public Info 5. Media Support	1. Intelligence 2. Intelligence 3. Support Group 4. Support Group 5. Public Information
Keeping Records	1. Operational Logs 2. Inwards/outwards Log 3. Financial records 4. Keeping minutes – (planning meetings/decision making) 5. Providing maps/charts 6. Filing management 7. General admin support	Records Management

Table 3 – Functions and Tasks performed by Coordination Cell staff

The Chair and Executive Officer will determine the most suitable staffing allocation when activating the Coordination Cell taking into account the situation and staff availability and expertise at the time of activation.

Functional Duty Statements for staff operating in the coordination cell are provided for guidance in Annex D – Mundubbera Coordination Cell – Duty Statements and Resources.

Risk Mapping

Risk Mapping is available to Town Support Groups in several formats. “Grab & Go Kits” are provided to each Group containing risk mapping relevant to the town and surrounding district. The Executive Officer is responsible for maintaining these kits.

Risk Mapping is also available via the North Burnett Regional Council Website at <http://mapping.northburnett.qld.gov.au/>. Interactive mapping for Bushfire and Flood Hazard for the region is provided under the Disaster Management link. The flood hazard overlays are derived from 2013 flood events. Annex E provides an index of the contents of the Mundubbera Grab & Go Kit.

COMMUNITY SUPPORT

For the purposes of this plan, Community Support during and after disasters is provided primarily by local philanthropic organisations. Additional community support may be offered by other agencies and will be coordinated via the LDMG or the DDMG. These additional capabilities are not discussed in this plan although it is recognised that any such additional resources need to be coordinated with services provided by local agencies.

Support Agencies

The following local community support organisations are considered to be capable of providing services to the community during and immediately after a disaster. People and organisations that have been identified as being able to assist in providing community support in the Mundubbera area include:

ORGANISATION	Type of Support Provided
Lions	
QCWA	
Uniting Church	
Show Society	

Table 4 – List of Supporting Agencies

A confidential contact list for all community support agencies is at Annex E to this Sub Plan (not available in the public version).

EVACUATION

Evacuation of individuals or parts of the community may be necessary to ensure public safety. The North Burnett Evacuation Strategy is outlined in the *North Burnett Region Disaster Management Plan* and further detailed in *Sub Plan 5 – Evacuation and Evacuation Centre Management*. In summary the North Burnett Evacuation Strategy is for safe and effective evacuations to remain the responsibility of the LDMG, with their practical implementation being the function of the Town Disaster Support Group.

In most cases people requiring evacuation will self evacuate using their own transport to facilities in Mundubbera. In some cases, transportation support may be needed to help people evacuate. This is more likely to occur when evacuating people from rural areas outside of town.

The Disaster Support Group is to monitor and assist people who choose to evacuate for their own safety and provide advice to those at risk regarding the need to evacuate including - how to evacuate, where to go and what to bring.

The Disaster Support Group has no authority to direct people to evacuate and may only encourage and assist people to take appropriate action for their personal safety and well-being.

Evacuation Centres

When evacuations occur, people will need to go somewhere safe. In many cases people can stay with family or friends, but not everyone can do so. Evacuation Centres are likely to be required. *Sub Plan 5 – Evacuation & Evacuation Centre Management, Annex A and B* provides guidance on the operation of an evacuation centre based on the experience of the Australian Red Cross.

A list of facilities that may be suitable for use as evacuation centres are detailed in Annex F to this Sub Plan.

Mundubbera specific guidance when establishing an evacuation centre is provided in Annex G to this Sub Plan.

Appointment of an Evacuation Centre Coordinator & Staff

When an Evacuation Centre is deemed necessary and suitable facilities have been confirmed, the Disaster Support Group must appoint an Evacuation Centre Coordinator to manage the Centre on behalf of the Support Group. The Chair of the Support Group and Executive Officer will appoint a suitable person to this role based on advice from the Support Group at the time the Evacuation Centre is deemed necessary. Additional staff to assist in the Evacuation Centre will be identified by the Support Group when considering opening a centre.

The appointed Evacuation Centre Manager will manage the evacuation centre in accordance with the guidance contained in this Support Plan and in *Sub Plan 5 – Evacuation & Evacuation Centre Management*, specifically Annex A of that sub plan.

Guidelines for Flood Response

Mundubbera has significant experience in responding to major floods and have compiled detailed notes on flood impact to guide flood response based on this experience.

Annex H details the river height stations relevant to Mundubbera

Annex I provides a guide to flood impact and response actions based on previous flood experience.

Annex J details the anticipated timings for flood impact from dam failure.

Communications in Mundubbera

Communications becomes a problem in the Mundubbera area when there is a disruption to the electricity supply for a long period of time.

Communication Options

- Agencies. - Generally Agencies will have their own communications whether radio or telephone and whilst they may share a communications link, it is not to be expected that they do so. Their message may be of higher importance than yours.
- ABC Radio will transmit emergency services information. The Support Group can access this medium through the North Burnett Disaster Management Group.
- Telephone Landline – A fixed service prone to be unreliable in floods and fire.
- Mobile Telephone Service – Mundubbera area has significant black spots, mobiles hard to charge in blackouts, consider deploying the solar recharge

tree if weather permits. This tree is housed in the town depot in Burnett Street Mundubbera.

- Emergency Service Radios – Emergency Services have a tower on Augy Rocks Mountain. All units are 240 volt with solar backup for limited duration. Ergon deployed a mobile generator to the residence on Glenrae Dip Road Mundubbera, midway up the hill which was able to supply electricity to the radio transmitter site immediately following the 2013 flood. Ergon has since placed a separate transformer supply to the radio site which will not be able to supplied with backup power due to the access issues to the site.
- QPWS, NBRC and SES have a comprehensive fleet of vehicles fitted with VHF radios. Ensure access to vehicles.
- Most rural properties have UHF Base stations and mobile units. Consider using channel 40 or duplex channel 5 for regulated scheduled communication sessions.
- Mundubbera SES has an emergency channel 8 repeater for use in an emergency.

Urban Communications

- The Mundubbera Warning System has a pre-recorded message which can be activated in times of flooding.
- The Mundubbera Warning System is capable of transmitting a voice message using a microphone through the tower in Stuart Russell Street Mundubbera.
- Public Meetings are informative sources to get a message out. Ensure the meeting is structured and kept on message.
- QFRS units have Public Announcement systems and well suited to broadcasting a short message around the town.
- Hand delivered messages passed by door knockers. Doorknockers should use a brief typed copy of the message with date and time to ensure consistency .
- Use of facebook to get a message to the public.

Rural Communications

- Landline Telephone , mobile telephone, sat telephone.
- Most rural properties have UHF Base stations and mobile units. Consider using channel 40 or duplex channel 5 for regulated scheduled communication sessions.
- Personal contact by vehicle
- Computer technology, emails, Facebook.

Mundubbera Warning System

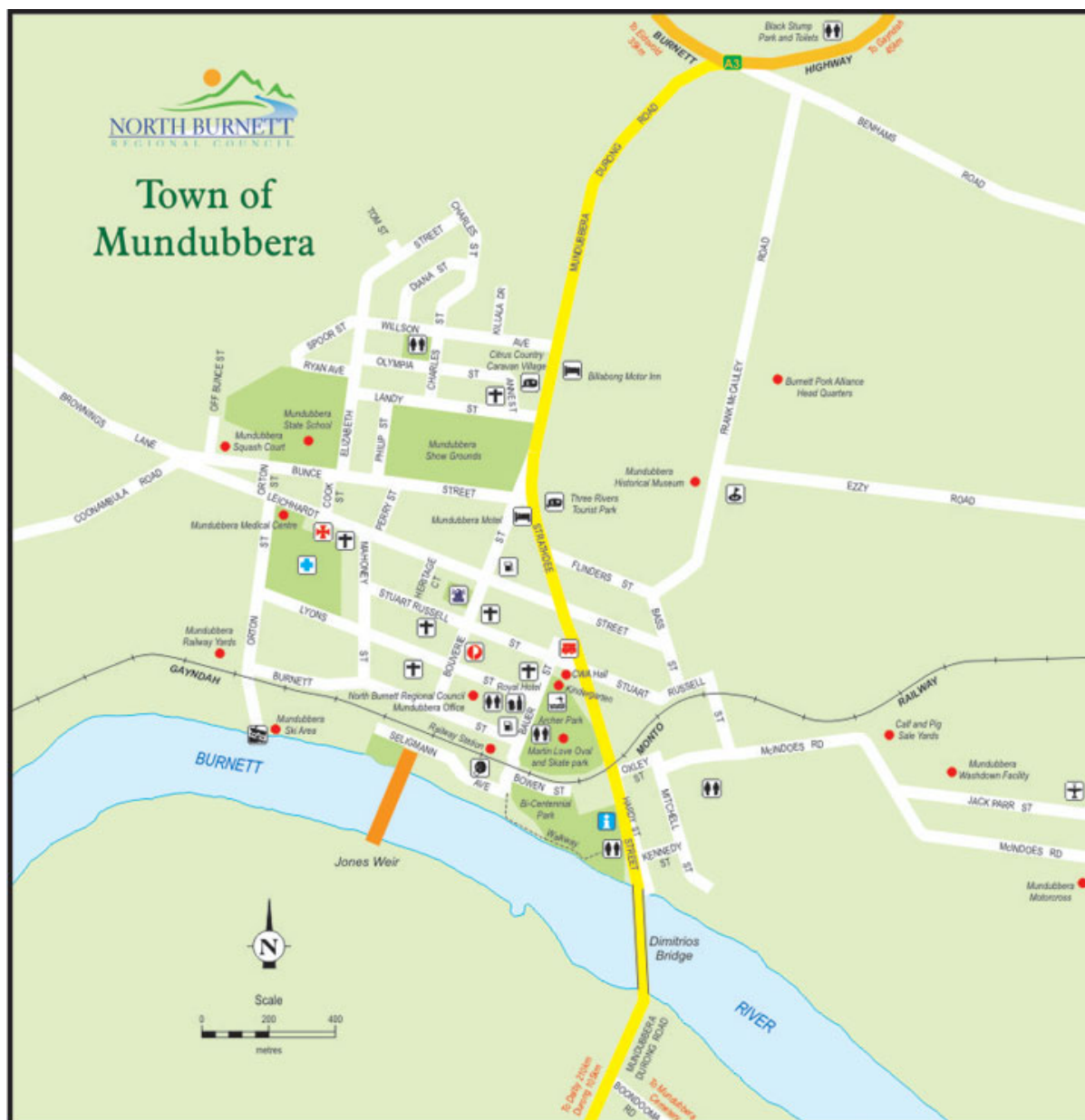
The Mundubbera Warning System is an early warning system for the town comprising a siren and broadcast capability. The system is operated and maintained by Council staff. The Disaster Support Group may direct the use of the system to provide early warning to the town. Operating procedures for the Mundubbera Warning System are detailed in Annex K.

Annexes

- A. Description of Mundubbera and Surrounds.
- B. Mundubbera Disaster Support Group Contact Register (Confidential)
- C. Mundubbera Coordination Cell – Duty Statements and Resources
- D. Risk Mapping – (Grab and Go Kit – Index)
- E. Contact Register for Mundubbera Community Support Agencies/Contractors (Confidential) (local contractors, fuel, council resources)
- F. List of Facilities in Mundubbera that may be used for evacuation
- G. Mundubbera Evacuation & Evacuation Centre Management - Standard Procedures
- H. River Height Stations relevant to Mundubbera
- I. Guidelines for Flood Response
- J. Timings for Dam Failure
- K. Operating Procedures for the Mundubbera Warning System

Annex A - Description Mundubbera and Surrounds





Location and Description of Area

- Mundubbera is located 200kms west of Bundaberg, 35kms south of Eidsvold and 45kms north-west of Gayndah.
- The Mundubbera district has an area of 4199 square kilometres and includes the villages of Monogorilly and Allies Creek in the south.
- The Burnett Highway crosses the eastern end of the district and the Mundubbera –Durong Road dissects the district from north to south.
- Mundubbera Township sits at the junction of the Auburn River and Boyne River on the Burnett River adjacent to Jones Weir.
- Mundubbera has grazing in the western and southern areas, and intensive stock and crop farming on the river systems.

- The area is bounded by Western Downs to the west, South Burnett to the south, Gayndah to the east and Eidsvold to the north.

Topography

Mundubbera district has extensive river systems with undulating land leading to hills to define the catchments and mountainous area on the boundaries.

River Systems

The Boyne River which has a catchment of 4780 square kilometres drains the southern part of the district with its headwaters starting in the South Burnett and flows into the Burnett River upstream of Mundubbera town. Boondooma Dam is on the Boyne River at the junction of the Boyne and the Stuart Rivers.

The Auburn River which has a catchment of 5285 square kilometres drains the western part of the district with its headwaters starting in the Taroom area.

The Burnett River has a catchment of 32455 square kilometres and drains the eastern and northern parts of the district with its headwaters starting in the Perry district.

A table depicting river height stations is at Annex B to this Support Plan.

Climate

The average rainfall in the Mundubbera district is 700mm which usually consists of storm and summer rain.

Temperature range of -5C in winter to 40C+ in summer is defined by approximately 7 frosty days in July. Most years, the bushfire season commences in September and finishes in January with the start of the wet season.

Population

Mundubbera district has a population of 2500 people with 1500 people living in the town. An itinerant population of up to 1000 backpackers comes into the area to assist in crop harvesting.

The majority of backpackers are foreign persons with limited ability to speak or write English.

Air Support

Airstrip	
The Mundubbera airstrip is located at Jack Parr Street, Mundubbera. The facility does not have provisions for refueling of craft.	
Location	1 nautical mile due East of Mundubbera
	24.35'30'South 151.19'00'East
Length	1200 m
Width	30 m
Elevation	400 feet

Direction	17/35 North/South
Airstrip Lighting	Pilot Activated System
Description	Bitumen sealed strip, with a windsock at the hanger area.

Helipads

A helipad is located at the Mundubbera Multipurpose Health Service, Orton Street, Mundubbera.

A helipad for SES operations is located at the SES building, Kallala Court, Mundubbera.

Annex B - Mundubbera Disaster Support Group Contact Register (Confidential)

This annex is not available in the public version.

Annex C – Mundubbera Coordination Cell – Duty Statements and Resources

Duty Statements by Function

The following Duty Statements and Functional Guides are provided to assist staff when working in a town coordination cell.

Executive Officer - Duty Statement

The Executive Officer is responsible facilitating the overall coordination effort and manages the functions of the coordination cell in accordance with this plan. The Executive Officer is assisted and guided in this function by the members of the Support Group.

Specific responsibilities include:

- Facilitating planning meetings involving key people from emergency services and other community groups involved in disaster response.
- Ensuring records of planning meetings are maintained.
- Implementing plans as directed by the Group or LDMG.
- Overseeing operations of the Coordination Cell to ensure the functions of the cell are being achieved satisfactorily.
- Review the preparation of situation reports for approval by the Chair of the Support Group.
- Establish and maintain an administrative and financial system for resources and finance expended
- Prepare materials for briefing and debriefing sessions.
- Ensuring the coordination effort is appropriately resourced with suitable staff capable of undertaking the functions described in this plan.

Support Group / Agency Representatives – Duty Statement

Agency representatives provide advice on their agency's operations and capabilities and assist in planning and decision making processes. Agency representatives should have authority to commit their organisation's personnel and resources in support of operational requirements.

Specific duties include:

- Advising and assisting the Executive Officer in resolving operational matters
- Negotiating and implementing agreed Counter Disaster response strategies
- Deployment of personnel and equipment
- Co-ordination of activities with other response organisations
- Maintaining communications with the Support Group and the Executive Officer.

Coordination Cell – Functional Guides

Operations Function

The Operations function is undertaken by the Executive Officer with assistance of the Support Group. Key responsibilities for this function include:

- Maintaining situational awareness.
- Implementing plans developed during planning meetings.
- Making operational decisions regarding response activities.
- Monitoring and tracking response activities undertaken by agencies.
- Keeping records of activities undertaken (operational logs).

Planning Function

The Planning function is facilitated by the Executive Officer with the assistance of the Support Group. Key responsibilities of the function include:

- Maintaining situational awareness
- Appreciating the situation to determine what actions are required (mission), how those actions will be undertaken and by whom (execution), timeframes involved and the resources required to succeed.
- Keeping records of planning considerations and decisions
- Documenting the results of planning in SMEAC format (situation, mission, execution, administration and logistics and Command/Control).

Intelligence /Public Information Function

The Intelligence function:

- Collects, collates, interprets and distributes all operational information within the coordination cell.
- Provides the Executive Officer with an accurate timely, clear and concise picture of the situation, particularly regarding damage and casualties.
- Assesses the urgency or priority of operational information and ensures that the information is actioned appropriately by the relevant function or supporting agency.
- Develops Situation Reports as directed by the Support Group.
- Provides regular situation briefings to ensure situational awareness by all those working in the coordination cell.
- Ensuring the overall situation is accurately depicted on maps, charts and display boards.

The Public Information function:

- Works in consultation with the Regional Disaster Coordination Centre to develop and distribute public messages within the local area.

Records & Resource Management

This function maintains all records within the coordination cell and obtains/tracks all additional resources needed by the Coordination Cell and responding organisations. Specific functions include:

Records Management

- Maintaining all records including:
- A Master Operational Log of inwards/outwards correspondence and activities undertaken.
- Collation of all inwards and outwards correspondence including emails, faxes, letters, maps, charts, etc.
- Collating personal operational logs.

Resourcing the Coordination Cell

- Ensuring the coordination centre is adequately resourced and maintained including:
- Preparation of rosters.
- Providing appropriate resources to enable the coordination cell to function (Furniture, Whiteboards, Map/reference material, Stationery, Electronic/communication resources, Meals/refreshments)
- Ensuring all electronic and communication equipment is operating (Telephones, Computers/Facsimile machines, Radios).
- Providing security and ensuring cleanliness of the working area.

Obtaining and Tracking all requests for Resources

- Seeking out and obtaining additional local resources needed by responding agencies that are beyond their capacity to provide.
- Tracking and monitoring of resources allocated.
- Preparing Requests for Assistance (RFA) to be sent to the North Burnett Region Disaster Coordination Centre (once approved by the Executive Officer).
- The Records and Resource Management Cell also monitor, record and track all local Council expenditure for response coordination and operations.
- On completion of local operations, compile a summary of overall council expenditure for the Executive Officer.

Suggested Resources for the Mundubbera Disaster Coordination Cell

This list is a guide to the resources that may be required in the Mundubbera Coordination Cell. Equipment levels are dependent on need and finance.

Maps	Local District Satellite Flood maps Marine charts Road, rail transport, Hazchem sites
Whiteboards	Fixed Mobile Electronic Cork boards
Overhead Projector and Screen	Overhead projector transparencies OHP bulb
Photocopier	Photocopy paper Photocopy toner
Facsimile Machine	Facsimile paper
Radios	Small base station with relevant HF; VHF; UHF frequencies for QPS or Emergency Service access
Computers	QPD message switching system Word processing and data-base capability
Printer	Printer paper
Mobile Phone	Recharging unit/spare batteries
Power Supply	Emergency supply Auxiliary for air conditioning
Tables/Chairs/Desks	Sufficient for operations
Camp Stretchers	For overnight operations
First Aid Kit	
Correspondence Cabinet (Filing) Lockable	
Correspondence Trays	
Clipboards	
Stationery	Papers, pens, coloured drawing pins, whiteboards markers (water soluble), OHT pens (water soluble), ruler, duster, situation report forms, log books, highlighter pens (several colours) lever arch binders, ruled A4 pads, calculator Plotting equipment – compass, slide ruler, protractor, T Squares, long wooden ruler
Urn	Also tea, coffee, sugar, cups, crockery, knives, forks and spoons
Refrigerator	
Microwave Oven/Toaster	

Room Dividers	Cloth covered (doubles for pinning maps to)
Telephone Directory	
Protective Clothing	Hard hats, overalls, jacket, raincoat as required with relevant position designation, eg. Executive Officer
Torches, batteries, Candles, Matches	
Wastepaper Baskets, Shredder, Garbage Bins	
Calendar	
Clocks	
Television Set and Video Recorder	In addition, have in place a standing plan to access video camera and still camera for recording purposes It provides a means of overlooking what is happening in the area and provides future research material
North Burnett Region Disaster Plan Mundubbera Disaster Support Plan	Plans to include lists of current Committee Members, Local Authorities, Emergency Services, and Community Support Agencies
Local Disaster Management Act, 2011	
Queensland Disaster Relief and Recovery Guidelines and associated Addendums	For the latest version go to: http://qldreconstruction.org.au/ndrra
Staff Lists and Contact Numbers	

Annex D – “Grab & Go” Kit


The Executive Officer maintains a “Grab and Go” kit containing maps, plans and initial supplies needed to set up a small coordination cell. The Mundubbera Grab & Go Kit contains the following maps/plans and supplies:

Mundubbera "Grab & Go" Kit Contents	
Item	Remarks

Annex E – Contact Register for Mundubbera Community Support Agencies/Contractors (Confidential) (local contractors, fuel, council resources)

This annex is not available in the public version.

Annex F – List of Possible Evacuation Facilities in Mundubbera

Building Facility		Mundubbera Community Hall
		
Council Owned/Non Council		Council
Address		28 Lyons Street Mundubbera 4626
Contact Details		
Access		Stairs to the front of the building with disabled access to the front of side of the building. Limited on street parking.
Structure		Brick building with steel roof and timber floors – steel louvers to one side of the hall. No information in respect to wind, debris or earthquake loads.
Capacity		Est. 165 evacuees Hall – 500 square metres Ample tables and chairs. Smaller supper room – 98 square metres
Human Factors	Lighting	Natural lighting in all areas with artificial lighting through out
	Ventilation	Natural ventilation through steel louvers with ceiling fans in hall and air-conditioning in supper room and kitchen
	Amenities	1 PWD, 4 female pedestals and 1 male pedestal and urinal.
	Kitchen Facilities	Commercial kitchen facilities however limited hot water. Bar area and cold room within kitchen facilities.
	Communications	Communications available at Council Office adjoining Hall.
	Emergency Power	Nil

	Emergency Provisions	Fire extinguisher onsite with a first aid kit
	Information Boards	Adequate space for information to be displayed
	Pets	Nil
Other Factors		<p>Not affected by other factors such as storm tide, land slip or other hazards such as tall trees, power lines etc.</p> <p>Flood modelling shows that this property would not flood in a 1 in 500 year flood. This property is suitable for use in flood emergency.</p>

Building Facility	Archer Park Community Centre	
		
Council Owned/Non Council	Council Owned	
Address	Bauer Street	
Contact Details		
Access	Disabled access to field and there is a ramp to buildings. Ample off street car parking.	
Structure	Various structures including steel sheds, masonry toilet blocks etc all with steel roofs and concrete flooring. No information in respect to wind, debris or earthquake loads excluding new steel shed which complies with the local wind load for the region.	
Capacity	<p>Est. 300 evacuees under steel shed</p> <p>Steel Shed – 900 square metres</p> <p>Tent site</p> <p>Limited tables and chairs.</p> <p>Total allotment size of 47,150 square metres</p>	

Human Factors	Lighting	Good natural ventilation to all areas with some artificial lighting in certain buildings.
	Ventilation	Good natural ventilation in all buildings with limited cooling in bar and kitchen area.
	Amenities	2 showers in each male and female block, 4 female pedestals, 1 male pedestal and urinal and also 2 change rooms available with 4 showers plus 1 pedestal in each.
	Kitchen Facilities	Limited facilities available however cold-room and two large fridges are onsite.
	Communications	Nil
	Emergency Power	Nil
	Emergency Provisions	Limited however fire extinguisher onsite.
	Information Boards	Adequate space for information to be displayed
	Pets	Possible pet site
Other Factors		<p>Not affected by other factors such as storm tide, land slip or other hazards such as tall trees, power lines etc.</p> <p>Flood modelling shows that this property would not flood in a 1 in 500 year flood. This property is suitable for use in flood emergency.</p>

Building Facility	Mundubbera State School	
Council Owned/Non Council	Non Council owned	
Address	Bunce Street Mundubbera 4626	
Contact Details	See Contact Register for Support Agencies Annex D	
Access	Disabled access with stair leading to some buildings.	
Structure	Various structures with brick and fibre cement walls and iron roofing with approximately 22 buildings in total.	
Capacity	<p>Estimated 300 – 400 evacuees.</p> <p>Two large ovals for possible tent sites.</p> <p>Limited tables and chairs.</p>	
Human Factors	Lighting	Natural lighting in all areas with artificial lighting through out.
	Ventilation	Natural ventilation with artificial cooling (air conditioners and fans).

	Amenities	26 pedestals 8 showers.
	Kitchen Facilities	Close to commercial kitchen.
	Communications	Telephones Wireless internet UHF
	Emergency Power	Nil.
	Emergency Provisions	Fire fighting equipment. First aid.
	Information Boards	Yes.
	Pets	Possible pet side.
Other Factors		Not affected by other factors such as storm tide, land slip or other hazards such as tall trees, power lines etc. Flood modelling shows that this property would not flood in a 1 in 500 year flood. This property is suitable for use in flood emergency.

Building Facility		Mundubbera Show Society
Council Owned/Non Council		Non Council Owned
Address		Bunce Street Mundubbera
Contact Details		See Contact Register for Support Agencies Annex D
Access		Disabled access available with stairs leading to the pavilion building.
Structure		Various buildings consisting of bessa blocks, corrugated iron and berni board.
Capacity		Capacity to seat 100 people. Possible tent sit.
Human Factors	Lighting	Natural and artificial lighting.
	Ventilation	Natural ventilation and windows throughout.

	Amenities	8 pedestals. 1 urinal. 4 showers.
	Kitchen Facilities	Kitchen is currently being renovated.
	Communications	Nil.
	Emergency Power	Nil.
	Emergency Provisions	Fire fighting equipment available.
	Information Boards	Adequate space available for information to be displayed.
	Pets	Possible pet site.
Other Factors		Not affected by other factors such as storm tide, land slip or other hazards such as tall trees, power lines etc. Flood modelling shows that this property would not flood in a 1 in 500 year flood. This property is suitable for use in flood emergency.

Building Facility		Monogorilby State School
Council Owned/Non Council		Non Council Owned
Address		2199 Monogorilby Road MUNDUBBERA QLD 4625
Contact Details		See Contact Register of Support Agencies Annex D
Access		Disabled access to most facilities. Some stairs leading to facility.
Structure		Multiple building with various structures comprising of iron and timber with iron roofing.
Capacity		2 classrooms, 1 available. 32 chairs and student desks. Possible tent site.
Human	Lighting	Artificial and Natural Lighting.

Factors	Ventilation	Natural ventilation. Artificial ventilation including fans and air conditioning.
	Amenities	5 pedestals 1 urinal No showers.
	Kitchen Facilities	Limited kitchen facilities available.
	Communications	Telephones. Internet access.
	Emergency Power	Nil. Capability to connect emergency generator.
	Emergency Provisions	Fire extinguishers and blankets. First aid kits.
	Information Boards	Adequate space for information to be displayed
	Pets	Possible pet site
Other Factors		Not affected by other factors such as storm tide, land slip or other hazards such as tall trees, power lines etc. Flood modelling shows that this property would not be suitable for a flood event.

Annex G - Mundubbera Evacuation & Evacuation Centre Management - Standard Procedures

Introduction

This Annex should be read in conjunction with *Sub Plan 5 – Evacuation & Evacuation Centre Management*.

This Annex provides guidance on Evacuation and Evacuation Centre Management as it applies to Mundubbera and is to be used by the Mundubbera Disaster Support Group when conducting evacuation and operating evacuation centre(s).

Purpose

To provide for the management of facilities, which provide affected people with basic human needs including accommodation, food and water, and support and recovery processes. The size and number of evacuation facilities available depends upon the scale and extent of the emergency/disaster situation.

Evacuation Centre Activation

Following an assessment of the situation, the LDMG shall activate the required Evacuation Centre(s) and advise all local and outside organisations when the Centre is operational.

A list of facilities that may be suitable for use as evacuation centres are provided in Annex F to this Sub Plan. These facilities may also be used as recovery centres or community information and well being centres.

Guidelines for opening a centre

Opening Memorial Hall Mundubbera for evacuees

Prior to Evacuees arriving	<p>Define accommodation area as being LHS of hall, if applicable provide bedding prior to arrivals. Bedding maybe provided by the evacuees and some mattresses or mats could be sourced from the show society, QCWA, Kindergarten etc.</p> <p>Install tables and chairs for catering purposes in front of bar area</p> <p>Secure rear supper rooms for dining area, access to be provided through the bar, to enable clients to pass by the registration and counsellor's area.</p> <p>Retain bar area for catering/serving area, provide table at door for hygiene hand cleansers etc.</p> <p>Provide a registration table at the front door complete with 2 people to man the table</p>
Registration /Foyer area	<p>Evacuees Registration - record name, address, contact details, number of adults/children, any special requirements - renew the registration daily as some will leave.</p> <p>Use wrist bands to identify evacuees to ensure they easily</p>

	<p>access all the facilities of the centre.</p> <p>Volunteer Register – record name, address, and contact details for volunteers wishing to donate time, materials or services during and/or after the event, record details of what is being offered.</p> <p>Lost Pet Register-record name, address and contact details of people recording lost pet information. Pet information should include description of pet, name of pet, pet identification and the last location that the pet was seen.</p> <p>Foyer area should include a notice board for important announcements, what's happening, current road closures, list of lost pets.</p> <p>The foyer desk should be manned 24 hours, night operations to be for security reasons. Past experience has proven that a night light at the foyer desk and provision of a battery powered radio playing softly continuously provides a calming influence in the centre.</p> <p>Provide a 24 hour clock for staff to record details.</p>
The Evacuation Centre	<p>Water bottles should be made available throughout the centre.</p> <p>Entertainment can be provided by DVD players, magazines/newspapers donated by the newsagent.</p> <p>Evacuation centre should have access to a counsellor and provide table/chairs in the right hand front corner near the entrance to the bar for that purpose.</p> <p>Provide hand cleaners/disinfectants on tables throughout the centre to prevent spread of germs. In the event of a dysentery outbreak, the affected person/family accommodation area should be isolated and meals delivered to them.</p> <p>Lights out at 10pm, time subject to make up /ages of evacuees. Individual unmuted sound systems not permitted.</p> <p>Centre staff should do a walkaround at least every 2 hours through the facility, to ensure that things are operating efficiently, but more importantly to provide a reassuring presence.</p>
Catering	<p>Catering/meals will be prepared in the centre kitchen, served through the bar area, and consumed at the tables in the supper room or outside the centre.</p> <p>Storage of non-perishable goods will be secured in the under stage area and the locked car shed in the Parking area structure.</p> <p>Perishable goods are not to be accepted into the evacuation centre and used in cooking.</p>

	A roster system will be developed to staff the catering centre.
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Material Requirements for evacuation centre.

- Pens, pencils, white board, butchers paper, wrist bands, coloured tapes
- Registration books, Volunteer forms, request for assistance forms
- Battery operated torch, night light, 24 hour clock, battery operated radio
- Mats, Dividers etc.

Evacuation Centre Management - Evacuation Centre Duty Statements

The following Evacuation Centre Duty Statements are provided as a guide to assist staff undertake the roles of Evacuation Centre / Catering Coordinators.

Evacuation Centre Coordinator – Duty Statement

The duties of the Evacuation Centre Coordinator are as follows:

1. In the standby phase contact each resource group and place on standby;
2. Liaise with the Welfare Officer to determine the extent of emergency situation and likely numbers to be evacuated;
3. Following the decision to evacuate and open the Evacuation Centre contact volunteer resource Coordinators to attend the Evacuation Centre;
4. Contact key holders to the designated Centre to obtain access;
5. Contact supply sources for adequate mattresses, blankets and pillows and ensure delivery is arranged to the Centre if applicable;
6. Generally establish the Evacuation Centre including road location signs and directional signs if available;
7. Arrange with Council to provide staff for the completion of road sign placements and evacuation layout;
8. Establish a telephone/radio link with the LDCC;
9. Ensure adequate chairs, trestles and other equipment are provided for each welfare service to enable them to operate at the Centre (i.e. Personal Counselling, Catering, etc). Priority is to be given to the area designated for Disaster Registration;
10. Representatives of voluntary groups to be briefed on assistance required at the Centre;
11. Storage area to be provided for incoming bedding;
12. Designation of areas for meals is to be ascertained in liaison with the Catering Coordinator;
13. Provision to be made for sleeping accommodation;
14. Plans of building (including conveniences), signs and notices to be erected in prominent positions;
15. Program for meals and entertainment to be organised;

16. Advise Catering Coordinator of numbers requiring meals;
17. Contact Welfare Officer to determine alternative venues for short-term accommodation, if required, i.e. unit, caravan park, motels;

Catering Coordinator (if appointed) – Duty Statement

1. The duties of the Catering Coordinator are as follows:
2. Following initial contact by the Chief Welfare Officer, remain available and in close contact with the Evacuation Centre Coordinator;
3. Contact all appropriate support and assist groups and advise of the need to be on standby and to attend the Evacuation Centre if required;
4. Determine with the Evacuation Centre Coordinator the numbers to be catered for;
5. Contact the SES and establish whether meals are needed for response personnel and the numbers to be catered for. All meals will be cooked and served at the Evacuation Centre;
6. Order food supplies on order forms to be authorised by the Welfare Officer;
7. Prepare and maintain rosters of all volunteers;
8. In conjunction with the Evacuation Centre Coordinator or the Welfare Officer, arrange for adequate tables, chairs, cutlery, crockery, rubbish bins and liners, urns and cookery utensils for the centre;
9. Comply with all requirements as advised by the Environmental Health Officer regarding food storage, preparation, handling and serving and associated activities.

Annex H - River Height Stations (relevant to Mundubbera)

The following are a list of crossings within the Burnett Basin and the height of each bridge. This list comes from data prepared by the BOM.

NAME OF BRIDGE/CROSSING	LOCATION	COORDINATES	DESCRIPTION	STREAM	BOM STATION		TYPE	CROSSING HEIGHT (AHD)	CROSSING HEIGHT (M)	FLOOD HEIGHTS			
					NAME	NUMBER				Town	Minor	Moderate	Major
MUNDUBBERA													
Dykehead Bridge	Hawkwood Road			Auburn River	Glenwood	039177	Bridge		4.00	16.00	5.00	8.00	12.00
Jones Weir	Seligman St		Spillway level 109.97m	Burnett River	Mundubbera HW TM	539066	Weir		109.97m		1.5	5.00	11.00
Dimitrios Bridge	Mundubbera-Durong Rd			Burnett River	Mundubbera TW TM	039320	Bridge		16.30	18.3	6.3	10.3	17.3
Dimitrios Bridge	Mundubbera-Durong Rd			Burnett River	Mundubbera	039073	Bridge	119.93	17.00	17.00	7.00	11.00	18.00
Dunollie Bridge	Boondooma Road			Boyne River	Dunollie	040455	Bridge		3.10		5	6.5	8.0
Petersen Bridge	Mundubbera-Durong Rd			Boyne River	Derra	539038	Bridge		3.80				

OUT OF SHIRE – BURNETT BASIN LOCATIONS Upstream of Mundubbera													
Auburn River Bridge			Auburn River Bridge	Auburn River	Auburn	042059	Bridge		2.40		5.0	6.00	7.00
Boondooma Dam			Spillway	Boyne River	Boondooma Dam HW TM	540262	Spillway		0.00		1.5	2.1	2.6
Boondooma Dam			Heights over Spillway	Boyne River	Boondooma Dam	040722	Spillway		0.00		1.5	2.1	2.6
Weens Bridge				Stuart River	Weens Bridge TM	540231			5.00		-	-	-

Annex I - Threat Specific Guideline - Flood

Purpose

To detail the general arrangements for the provision of assistance in the event of Flood events in the Mundubbera Region.

Introduction

Flooding of the Burnett River at Mundubbera can be minor, moderate or major. These flood levels and possible impacts are described below:

- 5 metres – minor flooding - expect road closures
- 10 metres -moderate flooding – road closures and inundation of agricultural land
- 15 metres- major flooding-first habitable house as at 2013 is inundated at 18m in Mundubbera township and first rural residence (Allens farm on Dykehead Road).

BOM will issue Burnett River Flood warnings from the 5 metres event

Trigger Points and Responses

Bom River Height Predictions at

13 metres	River not expected to be of concern to town area although access to the airstrip would be closed. Regional road closures and some rural communities will be isolated requiring food supply.
17 metres	<p>Dimitrios Bridge Closed due to flooding. Town Warning would have sounded at 13 metres and consideration be given to evacuate low level houses to the 19 metre mark. Council to relocate fully fuelled trucks loader and backhoe to the Burnett Street depot. The emergency generator to the Mundubbera hall and the second generator to the water treatment works.</p> <ul style="list-style-type: none">• Doorknock threatened houses with the 'anticipated level height and be prepared for evacuation' message. (Undertaken at same time as siren)• Telephone rural properties to advise river heights, get a contact list of people on farm if possible and intended evacuation plan for those farms ie if they look to be flooded where do they intend to go.• Rural properties would commence evacuations.• QPS to arrange fuel suppliers to retain supply level for emergency services.• IGA forewarned to retain supply of dry goods flour powdered milk etc in case of food supply to isolated properties with no electricity supply.

North Burnett Region Disaster Management – MUNDUBBERA Disaster Support Plan (public)

	<ul style="list-style-type: none"> • Ensure supply of fuel of Jet A1 for helicopters and avgas for smaller choppers if required. • Evacuation Centre should be placed on alert. • Manual reading of flood heights every hour.
18 metres	Houses inundated. Properties being evacuated and evacuees arriving at centre

Flood Heights at Mundubbera Alert and Actions to be taken

Flood Height	Requirement	Action	Agency	Status
Floods to 13 m	Road Closures/Openings	Close Roads	NBRC/QFES-SES	
	Report situation	Notify LDC	Support Group	
	Make agencies ready	Notify Mundubbera services QPS/QAS	Sub Group	
	Inform the community	Notify Council Website admin	NBRC	

Floods 13 to 17 m	Road Closures/Openings	Close Roads	NBRC/QFES-SES	
	Report situation	Notify LDC	DM Sub- group Mundubbera	
	Make agencies ready	Notify Mundubbera services QPS/QAS	DM Sub-group Mundubbera	
	Inform the community	Notify Council Website admin	NBRC	
	Flood Warning Siren	Siren sounds at 13 m	DM Sub-group Mundubbera	
	Lean Forward	Support Group Mundubbera	DM Sub-group Mundubbera	

Floods Above 17 m	Requirement	Action	Agency	Status
	Road Closures/Openings	Close Roads	NBRC/QFES-SES	
	Report Situation	Notify LDC	DM Sub- group	

North Burnett Region Disaster Management – MUNDUBBERA Disaster Support Plan (public)

			Mundubbera	
	Make Agencies ready	Notify Mundubbera services QPS/QAS	DM Sub-group Mundubbera	
	Inform the Community	Notify Council Website admin	NBRC	
	Flood Warning Siren	Siren sounds at 13 m	Support Group Mundubbera	
	Lean Forward	Support Group Mundubbera	Support Group Mundubbera	
	Council Plant to Town depot	Fuelled Loader/Tip Trucks to Burnett St Depot	NBRC	
	Generator Evac Centre	Generator to be connected to Evac Centre	NBRC	
	Advise Residents of affected flood areas - Town	Doorknock of Residences	SES	
	Advise Residents of affected flood areas - Rural	Telephone rural residences	Support Group Mundubbera	
	Prepare site for evacuated goods			
	Evacuate residences		SES	

Bridges affected by flooding

ID	Road	River	Bridge	Deck Height	Bom Station	Notes
1	Hawkwood	Auburn	Auburn Station	2.40	042059	90kms upstream upstream from Mundubbera
2	Hawkwood	Auburn	Dykehead	4.00	039177	45kms upstream
3	Hawkwood	Auburn	Flagstone	2.90		10kms upstream prone to flooding from Cadarga Ck and Burnett R backwater
4	Boondooma	Boyne	Dunollie	3.10	040455	Requires physical check as river station can be affected by

						Toondahra Creek local flooding
5	Mundubbera Durong	Boyne	Petersen	3.80	539038	10kms upstream Cooranga River station to the Bridge in normal times is 11 hours
6	Coonambula	Burnett	Jack Parr	3.50		Marriages river station prone to outages. Bridge cam is available online
7	Cracow Eidsvold-Theodore	Burnett	Eidsvold Station	6.00	039259	
8	Mundubbera Durong	Burnett	Dimitrios	17.0	039073	Mundubbera Township

Guide to Flood Responses including Road Closures.

Auburn River

Hawkwood Road crosses the Auburn River at Hawkwood Bridge, Dykehead Bridge and Flagstone Bridge.

Hawkwood Bridge is a 2 span timber structure bridging a narrow part of the channel before the water rises and spreads out over the surrounding undulating area.

Dykehead Bridge is a 4 span concrete structure bridging a wider part of the channel and with a grade approach down to the bridge on both sides although a narrow flat exists on the Glenwood side. The Glenwood river station is the closest station to the bridge but is unreliable and Dykehead alert even though downstream can be useful to determine bridge heights.

Flagstone Bridge is a 5 span concrete structure bridging a wider part of the channel and with a grade approach down to the bridge on both sides. The Flagstone alert is adjacent to the bridge.

Flooding: A storm event in the top of the system is enough to start a flood bump in the system. A 200mm storm in the Hopper Creek catchment was recorded as causing a minor flood event down the system for about 3 days by the time it entered the Burnett River system.

On that occasion, Mundubbera downstream was not aware of the storm event 80kms to the North West until told by locals. Council has installed a rainfall station on the Hopper at Arthurs Lookout.

Flagstone Bridge can be influenced by backup water from the Burnett River.

General rain will cause widespread flooding throughout the system depending on

intensity of rainfall.

Flagstone Bridge has a silty loam in the road cuttings approaching the bridge which in high rainfall events washes onto the road becoming very slippery as it dries out requiring a loader and water truck to open the bridge. A bridge closure due to an upstream event is usually a clean closure although some debris may remain on the structure.

Demographics: Properties above Dykehead Bridge are used to isolation for times of flood and have pantry supplies and alternate fuel/electricity supplies. In 2013 a supply drop was made to one property with medical and generator fuel supplies. The property owner did ask for newspapers as there was no communication with the outside world! Dalby Ag College has a campus at Narayen which often has students and a caretaker in place.

Delubra is a significant feedlot requiring grain and fodder to keep feedlot cattle alive.

The demographic between Flagstone and Dykehead bridges includes the Auburn River National Park which becomes isolated during flooding or the 7 km access road becomes very boggy during wet. QPWS and council crews should be aware of conditions and park visitors during these times.

Sandstone Orchard often puts a man in quarters on the orchard to continue with farm duties if the bridges are flooded by upstream events and there has been no rain in the area itself.

Transport In widespread flood events, transport options are limited. Road transport will become non-existent.

In localized flooding alternate road routes may be available although these are gravel with low level crossings and very often 4wd only.

Visitors to National Park. Visitors to the National Park should be self-sustainable or leave the area. Mundubbera Subgroup to liaise with QPWS Mundubbera.

Boyne River

Boondooma Dam sits at the junction of the Boyne and Stuart Rivers. Stream flows above the dam affects Mundubbera by providing inflows into the dam and entering the Burnett River system above Mundubbera Township once the dam has spilled.

Flooding at Weens Bridge closes the road from Durong to Kingaroy and the road from Durong-Proston-Murgon/Kingaroy, the significance of these routes becomes critical to those people living in the Derra pocket not being able to access Mundubbera at the Boyne River/Petersen Bridge crossing.

Boondooma Creek Bridge crosses the Durong Road approximately 80kms south of Mundubbera, 11kms north of the Proston turnoff and is vulnerable to local flooding and has a history of the approaches washing out on the southern side. This bridge is relatively high and Mundubbera Subgroup should ensure (through NBRC LDC) that emergent repairs are undertaken as soon as practicable to retain the southern link.

Boyne River/Petersen Bridge

The Petersen Bridge sits astride the river 13 kms South of Mundubbera on the Mundubbera Durong Road. It is a 3.8 metre high structure and has been known to

have been underwater for periods of up to 14 days at a time. In high flood events a sand bank is deposited over the northern approach. As the bridge is a TMR structure, it can only be opened (after flooding) by TMR Inspectors from Bundaberg. The Boyne river gauge station at Derra is immediately upstream of the bridge and a station further upstream at Cooranga is valuable in predicting future events.

Flooding can result from rainfall events, (an 11 inch rainfall event in the Bunya Mountains in 2013 prolonged stream rises at Mundubbera). Local storms in Derrabungy/Toondara Creeks can cause a flood bump or Burnett River backwater, general rain across the region.

Council closes the bridge at deck height using the 2 permanent signs in place. An additional drop sign is displayed at the council depot gate at Mundubbera and at the Durong general store advising of the closure.

Demographics of the area south of Petersen's bridge include 3 piggeries, 1 dairy farm as well as closer settlement farms. Locals use Murgon and Kingaroy for supplies and grain trucks and milk tankers use the Mundubbera Durong Road as an alternative route if accessible.

Boyne River/Dunolly Bridge

on Boondooma Road 35kms south east of Mundubbera is a low level bridge at 3 metres. There is no river station which reflects flooding of this bridge as the Cooranga station downstream of the bridge is subject to creeks entering the system between the station and the bridge.

Demographic: Properties upstream of the bridge and generally self-sustainable although in 2013, a medical drop was required.

Transport In widespread flood events, transport options are limited. Long detours up to 400kms may be necessary to complete the trip.

SES has a flood boat for emergency supplies and BPA often runs a commuter shuttle for piggery workers at Petersen Bridge and has been known to hire a chopper for fodder and piggery worker drops to the piggeries.

Locals often commute in private boats.

Warnings: Tributary flooding has not been identified, however in 2010/2011 Allies Creek Village was isolated and in dire straits. We attempted to get a vehicle in from Derra as nothing could get out of Mundubbera but the debris at Peters Creek stopped the attempt. Timber cutters from Monogorilby made a track sufficient for a crew out of Proston to get in by road.

In 2013, a helicopter recco was sent into the area to assess damage.

11th January 2011 saw a storm in the Brovinnia Creek area flood and isolate a single old aged pensioner at Brovinia. A 4 wheeler bike 2 days later found him and his dog in his flooded house alive.

Burnett River Upstream of Jack Parr

Waruma Dam is upstream of Mundubbera on the Nogoia River as is Cania Dam on Three Moon Creek. The Burnett River commences in hills near Mt Perry and can be influenced by coastal events as well as storm and coastal rain events.

Historically for Mundubbera, 1942 holds significance as being a big flood. There was general rain in all 3 catchments with floodwaters arriving in Mundubbera at the same time. There were no dams in the catchment. Kalala Creek (Red gully) itself assisted by flooding through the town.

Dam building meant that by 2010-11, general rain again arrived and Waruma Dam was only 3% capacity which delayed flows from that area for a couple of days until it topped as did the other dams at different times. Some reports reported the Boyne at being higher than 42 upstream of Derra although houses at Derra were inundated in 1942 and not 2010-11 due it is thought to the influence of water backing up from the Burnett. In Mundubbera town the river rose very slowly.

2013 Properties on the Auburn River recorded rainfall up to 250mm causing minor flooding in the Auburn whilst falls up to 1 metre was being recorded in the Burnett. The Boyne had minor flooding boosted by a storm in the Bunya Mountains arriving in Mundubbera just as the Burnett River was leaving, from the air it was very definite Boyne River water and a line to the Burnett River mud flat upstream from the Junction 4 days later. Properties in different areas recorded higher than 1942 and some much lower. On Australia Day morning reports from Mt Perry were indicating higher than ever water at Langley Flats, at through Reid's Creek. Mundubbera was receiving rain and was not aware that Philpott had already flooded. It was a flooding of the creeks with peaks in O Bil Bil Creek and Philpott Creek happening well before Burnett River water from upstream arrived. In Mundubbera the river at one time was rising at 1.5 metres per hour.

Jack Parr Bridge

The Jack Parr Bridge sits upstream of Mundubbera across the Burnett River on Coonambula Road. It is the highest of 3 bridges servicing the Stanmore area on the west bank. When flooded there is a gravel road alternative through Barule and over Eidsvold Station Bridge which is subject to local flooding, becoming boggy over a short period of time. Jack Parr Bridge has been known to be flooded for periods up to 14 days.

Demographics The west bank consists of 2 orchards, 1 goat dairy farm, larger properties and a mix of small holdings in the Stanmore area. The orchards and properties in the main part would be self-sufficient, however the Stanmore people work on the east side of the river and a bridge closure creates challenges for those people. This community includes a high number of young families.

Transport limited to the alternative road through Barule while it remains trafficable. SES will boat supplies across the Burnett River at Malmoe and Jack Parr Bridges during minor flood events.

In 2013 the river backed up over Coonambula Road some 10 kms from the bridge making it impossible to boat supply and helicopters were used.

In 2013 dry goods were airlifted into Stanmore to pre-empt the resupply requests. These goods were store at a district co-ordinators house to assist families on request.

Stanmore Road itself becomes saturated and impassable after a couple of trips across it.

Resources Bridge cam of Jack Parr Bridge assists in viewing the river at that point. The closest river gauging station is Marriages which is very unreliable.

Actions:

1. Monitor bridge heights at Jack Parr and release details regularly through media.
2. Prepare for resupply within 3 days by boat and consider if stockpiling of generator fuel and dry goods is required.
3. Determine fodder on hand at Cartref Goat Farm early to allow planning for a resupply.

Burnett River Jack Parr to River Bends

The river joins with the Auburn and Boyne Rivers upstream of Mundubbera.

Demographics River properties are orchards, piggeries and dairy farms and Mundubbera Township.

Transport Local roads connect properties along the river all subject to local flooding.

Actions:

1. Release Information to the public with river heights and telephone river properties if height is expected to exceed 13 metres at Mundubbera alert.

Clean Up

As water recedes clean up begins with streets to be hosed down, rubbish brought out for collection and left in designated areas. Rubbish Collection intensifies in impacted areas.

Houses are hosed out as required. Rainwater tanks at inundated houses are drained and cleaned out.

Water Supply

Water supply valves are to be closed in areas to be inundated to prevent loss of supply to town in the event of a break.

Electricity

ERGON Energy will take action to protect the electricity supply infrastructure during floods and may shut down power in areas inundated or expected to be inundated.

Asbestos

Asbestos products are to remain inside flooded houses and removed by only by those persons authorized to do so.

Annex J – Timings for Flooding Caused by Dam Failure

The table below details the worst case timeframes for flooding caused by Dam Failure. Timeframes are for flooding affecting the the town of Mundubbera.

FAILURE TYPE		WURUMA	BOONDOOMA
Probable Maximum Precipitation Flood	Max Flood Above Lowest Part of Town (122AHD)	12.54 m	11.89 m
Probable Maximum Precipitation Flood	Time before Flooding begins of lowest Part of town	26:50 hours	31:15 hours
Dam Crest Flood (Impending Failure Flood)	Time before Peak	13:20 hours	31:15 hours
All Failures	Flooding Stops	82:40 hours	17.15 hours

Annex K - Operating Procedures for the Mundubbera Warning System

To Be Developed

NOTES: