

ORDINARY MEETING

AGENDA

16 OCTOBER 2018

Your attendance is required at an Ordinary meeting of Council to be held in the Council Chambers, 4 Lagoon Place, Yeppoon on 16 October 2018 commencing at 9:00am for transaction of the enclosed business.

CHIEF EXECUTIVE OFFICER
11 October 2018

Next Meeting Date: 06.11.18

Please note:

In accordance with the *Local Government Regulation 2012*, please be advised that all discussion held during the meeting is recorded for the purpose of verifying the minutes. This will include any discussion involving a Councillor, staff member or a member of the public.

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1 OPENING

2 ATTENDANCE

Members Present:

Mayor, Councillor Bill Ludwig (Chairperson)
Deputy Mayor, Councillor Nigel Hutton
Councillor Adam Belot
Councillor Pat Eastwood
Councillor Jan Kelly
Councillor Glenda Mather
Councillor Tom Wyatt

In Attendance:

Mrs Chris Murdoch – Chief Executive Officer
Mr Brett Bacon – Executive Director Liveability and Wellbeing
Mr Dan Toon – Executive Director Infrastructure
Mrs Andrea Ellis – Chief Financial Officer
Mr Matthew Willcocks - Chief Technology Officer
Mr Shane Weir - Acting Chief Human Resources Officer

3 LEAVE OF ABSENCE / APOLOGIES

4 PUBLIC FORUMS/DEPUTATIONS

5 MAYORAL MINUTE

6 CONFIRMATION OF MINUTES OF PREVIOUS MEETING

Minutes of the Ordinary Meeting held 2 October 2018.

7 DECLARATION OF INTEREST IN MATTERS ON THE AGENDA

8 BUSINESS ARISING OR OUTSTANDING FROM PREVIOUS MEETINGS

8.1 BUSINESS OUTSTANDING TABLE FOR ORDINARY COUNCIL MEETING

File No: GV13.4.1

Attachments: 1. Business Outstanding Table - 16 October

2018 U

Responsible Officer: Chris Murdoch - Chief Executive Officer

SUMMARY

The Business Outstanding table is used as a tool to monitor outstanding items resolved at previous Council or Committee Meetings. The current Business Outstanding table for the Ordinary Council Meeting is presented for Councillors' information.

OFFICER'S RECOMMENDATION

THAT the Business Outstanding table for the Ordinary Council Meeting be received.

8.1 - BUSINESS OUTSTANDING TABLE FOR ORDINARY COUNCIL MEETING

Business Outstanding Table - 16 October 2018

Meeting Date: 16 October 2018

Attachment No: 1

Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
25 February 2014	City Status Classification Application	THAT Council resolves to: 1. Proceed with a formal city status classification application for the Livingstone Shire Council area; and 2. Enter into consultation with the community to determine an appropriate name, suggesting the Capricorn Coast City Council as a possible option.	Director Strategic Growth and Development	31/12/2018	11 Oct 2018 - 8:41 AM - Project Support Officer Further advice has been sought from the Department of Local Government so this item will be brought back to Council in early November 2018.
22 November 2016	Adam Belot - Livingstone	THAT pursuant to s34(1)(d) and s37 Council Meeting Procedures the debate on the motion and/or amendment now before the meeting be adjourned until February 2017 for policy review.	Officer	31/12/2018	14 Feb 2018 - 2:40 PM - Coordinator Executive Support Policy currently on hold awaiting implementation of outcomes from review of Councillor Complaint Processes by the State Government.
07 February 2017	Outstanding Policy Documents	THAT the following policies be adopted: 1. Encroachment on Public Land Policy; 2. Equal Employment Opportunity Policy; 3. Fallure to Renew Licence Response Policy; 7. Telecommunications Facilities on Council Land Policy; and 8. Unlicensed Premises Response Policy. With policies 4, 5 and 6 to be further reviewed.		31/12/2018	02 Aug 2018 - 4:54 PM - Governance Officer Three policies currently under review and will be resubmitted back to Council once finalised.

Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
07 March 2017	Councillor Interaction with the Organisation Policy	THAT Council adopts the Councillor Interaction with the Organisation Policy. THAT the matter lay on the table pending further discussions in Workshop Meeting and to return to a future Council Meeting.	Governance Officer	31/12/2018	02 Aug 2018 - 8:50 AM - Governance Officer Policy currently on hold awaiting implementation of outcomes from review of Councillor Complaint Processes by the State Government.
21 March 2017	Petition From Residents of Mt Chalmers – Sale of Mt Chalmers State School and Adjoining Land	THAT the petition against the sale of the old Mt Chalmers State School and adjoining land be received.		31/12/2018	10 Oct 2018 - 8:59 AM - Project Support Officer Further investigations are occurring to confirm if the sale can proceed subject to the required works being completed. Council officers met with the Town Planning Consultant on Tuesday, 11 September 2018 who is in the process of collating a response to the Request for Information.
18 April 2017	Standing Orders for Council Meetings Policy	THAT Council adopts the Standing Orders for Council Meetings Policy. THAT the matter lay on the table pending further discussion and to return to a future Council Meeting.	Governance Officer	31/12/2018	2 Aug 2018 - 10:57 AM - Governance Officer Policy currently on hold awaiting implementation of outcomes from review of Councillor Complaint Processes by the State Government.

Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
20 June 2017	Smart Cities and Suburbs Program – Yeppoon Town Centre Smart Precinct – Solar Lighting and Interactive Kiosk	THAT Council resolve to submit an application to the Australian Government Smart Cities and Suburbs Program, seeking a grant amount of \$200,000, with the co-funding requirement of the additional \$200,000 being met from current projects towards the cost of smart energy efficient infrastructure necessary to complete the Yeppoon Town Centre Smart Precinct. The total project costs are estimated at approximately \$400,000.	Economic Development Officer	31/12/2018	Tender 2018.035 Yeppoon Town Centre and Yeppoon Lagoon Smart Parking closed on 10 October 2018. A specialist consultant has been engaged to complete the detailed design for the smart lighting, public Wi-Fi, LORAWAN, and CCTV. The remainder of the project deliverables will be via request for quote or direct purchase. The refined project specifications will ensure a more streamlined approach and potentially more project deliverables, thus creating an overall better product and outcome for Council and the Community.

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Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
18 July 2017	Volunteer Policy, Procedure and Handbook	THAT Council: 1. Adopt the Livingstone Shire Council Volunteer Handbook. 2. Adopt the Livingstone Shire Council Volunteer Policy. 3. Adopt the Livingstone Shire Council Volunteer Procedure.	Coorcination Officer	31/12/2018	12 Sep 2018 – 8:47 AM – Resilience and Volunteer Coordination Officer The following tasks are to be actioned prior to the documents being published on the intranet and website. Disaster Managerment section is working with other sections to achieve this. 1. IT believe there are alternate programmes to Aurion and they are looking into this for purchase and testing. 2. Website to be updated 3. Information session with Supervisors/Coordinators.
15 August 2017	Resident Maintenance and Enhancement of Council Land	THAT Council implement a permit process for residents to undertake unsupervised work within Council controlled reserves, foreshore and park areas. Individuals will sign an Indemnity Agreement with conditions and Council will cover public liability insurance for the individual.	Protection	31/12/2018	11 Sep 2018 - 12:19 PM - Support Services Officer Moving towards electronic sign-ons through survey 1-2-3. Currently preparing that process.

Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
15 August 2017	Acquisition of Land for Road Purposes - Wildin Way, Mulambin	THAT Council: 1. Discontinue discussions with the owners of Lot 43 SP202178 regarding the acquisition of land for road purposes; 2. Commence negotiations with the owner of Lot 4 RP620054 to acquire a portion of their property as a 10m wide road reserve along the southern boundary; and 3. Endorse the submission of an Application to Dedicate State Land as Road to the Department of Natural Resources & Mines as shown on Drawing No 17-006-51.		31/12/2018	09 Oct 2018 - 1:50 PM - Policy and Planning Officer Decision Notice issued - waiting on survey.
07 November 2017	Petition from Graham Miller, Milman – The Caves Square and Public Amenities	THAT the petition requesting maintenance of The Caves Square and public amenities be received.	Executive Director Infras:ructure	31/12/2018	10 Oct 2018 - 11:55 AM - Executive Assistant to Executive Director Infrastructure Report in progress for presentation to the Advisory Committee providing an update on amenities cleaning and the lawn/garden maintenance.

Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
5 December 2017	Regulated Car Parking Yeppoon Foreshore and Town Centre	THAT Council resolve to: 1) Declare a Traffic Area having a default parking limit of one hour, with the inclusion of two and three hour designations being established in specific precincts as supported by Attachment Four Community Engagement WrAPup Car Parking Strategy Yeppoon CBD and as shown in Attachment One (Schedule One Declaration of Traffic Area); (2) Endorse and enact the regulated parking strategy once the changes to the Subordinate Local Law No. 5 (Parking) 2011 Schedule One and Schedule Two take effect and regulated parking signage is in place; (3) Once enacted adequately inform the community of the regulated parking areas (via engagement, media and signage). An initial warning period of one month will be afforded to motorists found overstaying the timed period. After one month the monetary value of an infringement will resume; (4) Consider a budget allocation at the 17/18 Quarter Two Budget review for updated parking signage in the amount of \$30,000; (5) Endorse the installation of smart parking beacons and technology to the designated one hour regulated traffic area to be funded from the Yeppoon Town Centre Smart Lighting Project; (6) Amend Subordinate Local Law No. 5 (Parking) 2011 Schedule One Declaration of traffic area to define a Traffic Area for Yeppoon as shown in Attachment One	Services	31/12/2018	09 Oct 2018 - 2:53 PM - Manager Engineering Services Plans are finalised. Budget allocation of \$50k will be sought as part of Q2 budget review.

		(Schedule One - Declaration of Traffic			
		Area); (7) Amend Subordinate Local Law No. 5 (Parking) 2011 Schedule Two Declaration of off-street regulated parking areas to include off-street regulated parking for Queen Street (Lot 10 on Y17136), the Yeppoon Town Centre Car Park (Lot 10 on SP289416) and the Yeppoon Foreshore (part of Lot 65 on SP234671); and (8) Amend Subordinate Local Law No. 5 (Parking) 2011 Schedule Two Declaration of off-street regulated parking areas to rescind all reference and plans associated with the region of Rockhampton Regional Council.			
2017	Request to Consider Balance of Outstanding Water Consumption	a) In view of the information provided in the request letter, and taking into account the endeavours of the rate payer to address the debt. Council resolves to adopt option 2 as presented in the report. b) Council also refers this matter to a future workshop as a case study for the development of a future policy in relation to hardship matters.	Revenue	31/12/2018	11 Oct 2018 - 2:52 PM - Coordinator Revenue Part (a) actioned and completed. Draft Hardship policy progressing and will be prepared for Advisory Committee.

Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
20 March 2018	Get Planning Spaces Funding Programme	THAT Council, pending 2018/2019 budget deliberations, resolve to confirm its support and financial commitment (up to \$25,000) to the indoor sporting facility planning project, and submit a funding application requesting \$75,000 from the Get Planning Spaces programme offered by the Queensland Government.	and Education	30/06/2019	10 Oct 2018 - 8:51 AM - Executive Officer Liveability and Wellbeing Council still waiting on confirmation of this funding from the Queensland Government - Officer has followed up with State Advisors and they have confirmed that an outcome pending but that it is unknown when this will eventuate.
20 March 2018	Expression of Interest and Invitation to Tender for the Centre of Excellence for Disaster Management, Innovation and Community Resilience Tenancies	THAT Council adopts a two-stage tender process consisting of an Expression of Interest followed by an Invitation to Tender for the lease of tenancies within the Centre of Excellence for Disaster Management, Innovation and Community Resilience, (The Hub) at 7-9 James Street, Yeppoon and acknowledge the reason for adopting a two-stage process is to gauge the market interest and to select the best tenancy mix for the Yeppoon Town Centre.	Strategic Growth and	31/10/2018	11 Oct 2018 - 8:42 AM - Project Support Officer Negotiations with State Government have progressed and a report is being presented to the Ordinary Meeting on 16 October 2018.
01 May 2018	Potential Sale of Lots 2 and 3 - The Gateway Business and Industry Park	THAT Council confirms its desire to sell Lots 2 and 3, known as 3 and 5 Pineapple Drive, Hidden Valley, within Stage 1 of The Gateway Business and Industry Park and acknowledges the Chief Executive Officer's delegated authority to finalise negotiations and execute a contract of sale for the two lots.		31/10/2018	11 Oct 2018 - 8:08 AM - Project Support Officer Negotiations are progressing and a report is being presented to the Ordinary Meeting on 16 October 2018.
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Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
15 May 2018	Petition From Stanage Township Organisation Inc - Sealing of Car Park at the Stanage Boat Ramp	THAT the petition requesting the sealing of the car park at the Stanage Boat Ramp be received.	Chief Financial Officer	31/10/2018	09 Oct 2018 - 1:57 PM - Chief Financial Officer Revised Target Date changed by: Andrea Ellis From: 03 Oct 2018 To: 15 Oct 2018 Reason: To be discussed with Quarter 1 budget revision process.
05 June 2018	Notice of Motion - Councillor Glenda Mather - Proposed Plaque for War Animals	THAT Council recognise the vital roles the war animals played in world conflicts, and Mr Allsopp be advised Council would be honoured to receive the RSL approved plaque from The Australian War Animal Memorial Organisation Inc. and the plaque will be placed in a prominent position identifying their service. Further, Council negotiate with Emu Park RSL and identify an appropriate location for the plaque on the Emu Park Foreshore.	Director Liveability and Wellbeing	31/12/2018	09 Oct 2018 – 12:33 AM Executive Officer Liveability and Wellbeing. Proposed location identified - plaque currently being sourced - installation to occur sometime in the future as part of other works.
05 June 2018	Notice of Motion - Councillor Adam Belot - Procedural Motions	THAT The Livingstone Shire Council Meeting Procedure Policy be amended as follows: 2.17 Procedural Motions 2.17.1 A Councillor at a meeting of Council, who has not spoken during the debate on a matter at the meeting, may move as a procedural motion one of the following, only after the Mover of the original motion having obtained a seconder has spoken to the motion. THAT the matter lay on the table until the State Government Meeting Guidelines are released.	Investigations Officer	31/12/2018	27 June 2018 – Executive Support Officer Policy currently on hold awaiting implementation of outcomes from review of Councillor Complaint Processes by the State Government.

Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
19 June 2018	Petition Requesting Installation of Traffic Calming in the Pedestrian Precinct of Queen Street, Yeppoon (from the carpark of IGA to the Yeppoon Kindergarten)	THAT the petition requesting installation of traffic calming in the pedestrian precinct of Queen Street (from the carpark of IGA to the Yeppoon Kindergarten be received.	Executive Director Infrastructure	31/12/2018	09 Oct 2018 - 2:50 PM - Executive Assistant to Executive Director Infrastructure A review of pedestrian movements to be undertaken to inform a report to go back to Advisory Committee.
03 July 2018	Mayoral Minute - Submission of an application to the Maturing our infrastructure Pipeline Programme to evaluate and advance plans for establishment of new Yeppoon Showgrounds and Equestrian Centre	THAT an application be submitted for the next round of the Maturing our Infrastructure Pipeline Programme to evaluate relocation of the Yeppoon showgrounds from the current location to Council-owned property at Lot 11 RP848831 in Barmaryee, and facilitate the establishment of a dedicated regional Equestrian Sports Precinct.	Director Infrastructure	31/01/2019	10 Oct 2018 - 11:37 AM - Executive Director Infrastructure No current program of funding at present.
03 July 2018	Mayoral Minute - Microfactory opportunities for the establishment of innovative resource recovery and waste management projects	That Council prepare a report to identify and develop a preliminary business case for microfactory opportunities that could be established at the Gateway Business & Industry Park and/or at the landfill that would be eligible for state and/or federal funding programs. That Council apply for funding under the announced State Govt programs to advance feasibility studies for innovative resource recovery and waste management projects.	Strategic Growth and Development	31/12/2018	That Council apply to the Queensland Government Resource Recovery Industry Development Program Stream One: Resource Recovery Grants Fund Expression of Interest to construct a recycling segregation facility at the entrance to the Yeppoon Landfill. This project is contained in the forward works program for 2019/20 and is a key element in extending the life of the existing landfill.

Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
03 July 2018	Notice of Motion – Councillor Glenda Mather – Yeppoon Showgrounds	THAT Council identify the needs of community groups, and the best use of the various lands which comprise the Yeppoon Showgrounds, otherwise known as Stevenson Park, Council initiate a meeting of all stakeholders at the earliest, prior to any new lease/s for the grounds are renegotiated and determined.	Disaster Management, Recovery and	31/12/2018	09 Oct 2018 - 4:06 PM - Manager Disaster Management, Recovery and Resilience Ongoing meetings to be held with tenants next meeting Wed 10th October.
03 July 2018	Consideration of the future of the Yeppoon Town Clock	THAT Council requests a report to the Council Advisory Committee in relation to all options including possible replacement, relocation or removal of the Yeppoon town clock as well as appropriate community consultation process.		31/12/2018	10 Oct 2018 - 9:03 AM - Project Support Officer Based on the outcomes of the community consultation and discussions with Rotary, the town clock structure will be removed and replaced with a tree/s and the clock mechanism will be provided to Rotary.
10 July 2018	Capricorn Coast Homemaker Centre Yeppoon Stage 1 – Contract for Civil Works Construction – Tender Number 2018.006	Approve the Procurement Process Report appended as Attachment 1 — Capricorn Coast Homemaker Stage 1 — Civil Works Tender Procurement Process Report; and Award the contract for Tender 2018.006, Civil Works — Capricorn Homemaker Centre Yeppoon Stage 1, to JRT Civil Pty Ltd for the amount of \$1,125,377.94 (ex GST) having due regard to the contracting provisions contained in the Queensland Local Government Regulation 2012, Livingstone Shire Council's Procurement Policy and Livingstone Shire Council's Purchasing Directive.	Manager	31/12/2018	11 Oct 2018 – 8:21 AM – Project Support Officer The civil works are still progressing well and are due for completion mid November 2018. The draft Environment Report has been submitted to the Independent Auditor for review.

Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
17 July 2018	Draft Fig Tree Creek Masterplan	THAT Council endorse the Fig Tree Creek Master Plan for further public consultation and integration into the Council's Strategic Planning Framework.	Coorcinator Natural Resource Management	31/12/2018	11 Sep 2018 - 12:26 PM - Support Services Officer Actions for Masterplan (advice for community input on web page and schedule of stakeholder meetings) was raised at Environment and Regulatory Task Force meeting of 8 Aug 2018. Meeting of Fig Tree Creek Working Group will be arranged in near future to further these actions.
07 August 2018	Distribution of Records	THAT Council resolves to send this matter to relevant advisory committee for further information.		31/12/2018	11 Oct 2018 – 3.20 PM – Chief Technology Officer Information Technology have sourced three quotes. Report coming back to future Advisory Committee.
07 August 2018	Yeppoon Town Centre Smart City Projects Update	a) Council resolves to implement paid parking on Lagoon Place and Anzac Parade around the Yeppoon Lagoon (excluding disabled bays), to be funded from the Yeppoon Town Centre Smart Lighting Project. b) Community consultation with key stakeholders occur around the parameters of the proposed paid parking, once the details have been fully documented.	Senior Economic Development Officer	31/10/2018	10 Oct 2018 - 8:40 AM - Project Support Officer The projects are progressing. No further action is required relating to this report.

Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
21 August 2018	Updated Invest Capricom Coast Region Leadership Alliance Terms of Reference	That Council adopt the updated version of the Invest Capricorn Coast Region- Leadership Alliance Terms of Reference (with the adjusted Attachment One) and support the process for the formation of the Leadership Alliance; as detailed in this report.		31/10/2018	12 Sep 2018 - 8:43 AM — Project Support Officer Expressions of Interests have been assessed, submitters are being advised and the first meeting is being called. No further action required relating this to report.
4 September 2018	Confirmation of support for expansion of gallery space adjacent to the Mill Gallery	THAT Council resolves to confirm its support and commitment for the Mill Gallery expansion project and submit a funding application to the Building Our Regions programme, stating its commitment to delivering the approved project and acceptance of responsibility for any funding shortfall if project costs change.		31/12/2018	12 Sep 2018 - 8:44 AM - Project Support Officer The second stage application through the Building Our Regions Program was submitted on 7 September 2018. It is anticipated that the Department of State Development, Manufacturing, Infrastructure and Planning will advise the outcomes of the Program in December 2018.
4 September 2018	Amendment - Subordinate Local Law (Parking) 2018	THAT Council: 1) review draft amendments to Subordinate Local Law No 5 (Parking) 2018; and 2) resolve to propose to make Parking (Amendment No.2) Subordinate Local Law (No. 5) 2018.	Coorcinator Public Environments	31/1022018	11 Sep 2018 - 12:45 PM - Jo McLennan Officers have commenced preparation for the advertising of the proposed amendments as per resolution.

Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
4 September 2018	Access to Land for Trunk Infrastructure Investigations T-100 Tanby Road — Chandler Road Intersection and T-37 Chandler Road (new)	THAT Council resolve: 1. To commence detailed investigations to determine the best location of the following future trunk infrastructure which is identified in the Adopted Infrastructure Charges Resolution (No. 3) 2018: a. T-100 Tanby Road — Chandler Road Intersection, new, highway, nonsignalised; and b. T-37(part) Chandler Road, new, Ch 3100-970, Urban Major Collector. 2. Utilise its powers under s 36 of the Acquisition of Land Act 1967 to enter Lot 8 RP613832, Lot 9 RP613833 and Lot 11 RP613833 for the purposes of the detailed investigation including inspection, survey and taking levels.		31/12/2018	99 Oct 2018 - 1:15 PM - Policy and Planning Officer Waiting on advice from Department of Main Roads before approaching owners.

Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
4 September 2018	Yeppoon Smart Parking Projects	THAT Council: 1. approves a process of community engagement regarding the proposed operating hours for paid parking on Lagoon Place and Anzac Parade around Yeppoon Lagoon (excluding disabled bays), between the hours of 8.30am to 5pm Monday to Sunday. 2. engages with key stakeholders operating around the perimeters of the Yeppoon Lagoon in relation to impacts to them specifically. 3. approves paid parking charges of \$2 per hour (inclusive of GST) during operating hours and amend the 2018-19 fees and charges to include this new charge. 4. acknowledges that the commencement of paid parking will be dependent on the timeframe of the required amendment to the local law and the procurement process for the Yeppoon Town Centre Smart Lighting Project.		31/12/2018	10 Oct 2018 - 9:58 AM - Project Support Officer Council approved the inclusion of smart paid parking on Lagoon Place and Anzac Parade within the Yeppoon Smart Parking Projects. Key stakeholder and community consultation finished on 21 September 2018 regarding the operating hours of paid parking around the Yeppoon Lagoon. Tender 2018.035 Yeppoon Town Centre and Yeppoon Lagoon Smart Parking closed on 10 October 2018.

Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
18 September 2018	Notice of Motion – Councillor Adam Belot – National Building – Water Harvesting Strategies	THAT 1. Livingstone Shire Council request the opportunity to meet with Senator Canavan, Michelle Landry and Brittany Lauga to discuss the current actions and future agenda in this space and following those discussions; 2. Livingstone Shire Council write to both Federal and State Governments advocating for greater investment and action on 'Nation Building -Water Harvesting strategies' that will lead to more prosperous and sustainable conditions for Queensland and Australian Farmers.		31/12/2018	08 Oct 2018 - 4:00 PM - EA to the Mayor Letters written to Senator Canavan, Michele Landry and Brittany Lauga requesting them to attend an advisory committee to discuss the issue or provide advice in writing.
18 September 2018	Notice of Motion — Councillor Adam Belot — ICESUP CQ — Budget Request	THAT Livingstone Shire Council consider what financial/in kind support, can be provided in the current budget to assist ICESUP-CQ in their aims which includes building on the developed community capacity, increasing awareness of the negative impacts of drug use and implementing strategies to support families effected by ICE and other drugs. Councillor Belot moved an amendment: THAT LSC consider what other in kind support, can be provided to ICESUP-CQ to assist them in their aims which includes building on the developed community capacity, increasing awareness of the negative impacts of drug use and implementing strategies to support families effected by ICE and other drugs.	Disas:er Management, Recovery and Resilience	31/12/2018	Manager Disaster Management, Recovery and Resilience In-kind support can be offered with venues to present workshops including the Hub and advertising on LED Billboards Hub.

Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
		For consideration with assistance in the planning and operation of a Community Awareness Day on Alcohol and other Drugs, to be held June 2019. THAT the matter lay on the table and to return to the Council Meeting on 2 October 2018.			
18 September 2018	Container Refund Scheme – Refund Point	THAT Council resolve to not approve establishment of container refund points at Yeppoon Landfill or Emu Park Transfer Station due to the sites not being suitable, however, that alternative locations be investigated for suggestion to the proponent.		31/10/2018	09 Oct 2018 - 2:56 PM - Manager Waste and Waste Operations Council block at Cassam Street was offered as an afternative site but declined by the Container Refund Scheme operator. No further action required.
18 September 2018	Opening of Road – Gunder Road, The Caves	THAT Council authorise the Chief Executive Officer to commence negotiations with the owners of Lot 69 RP891987 to open new road as shown on Drawing No. 17-112-04.	(Communities control	31/12/2018	09 Oct 2018 - 1:52 PM - Policy and Planning Officer 18 Sep 2018 - Authority to Enter Land sent to owner:
18 September	Sale of Land – 16 Red	THAT Council accepts the offer presented		31/12/2018	09 Oct 2018 - 4:06 PM -
2018	Emperor Way, Lammermoor	in this report for 16 Red Emperor Way,	Officer		Project Support Officer

Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
		Lammermoor and delegate authority to the Chief Executive Officer to execute the contract of sale, having due regard to the provisions for the disposal of non-current assets contained in the Queensland Local Government Regulation 2012 and Livingstone Shire Council's Procurement Policy:			Council accepted the offer presented for 16 Red Emperor Way, Lammermoor. Contract documentation is being prepared for signing by both parties.
18 September 2018	Potential Sale of Lots 2 and 3 – The Gateway Business and Industry Park	That the matter lay on the table and to return to the Council Meeting in October 2018.	Director Strategic Growth and Development	31/10/2018	09 Oct 2018 - 4:06 PM - Project Support Officer Report coming back to Council Meeting 16 October 2018.
18 September 2018	Properties Eligible for Land Sale	THAT (a) pursuant to section 140(2) of the Local Government Regulation 2012 Council proceed with action to sell the land listed below, and also detailed in attachment 1 to the report for overdue rates and charges; and (b) that Council delegate to the Chief Executive Officer the power to take all further steps under Chapter 4, Part 12, Division 3 of the Local Government Regulation 2012 to effect sale of the land (including, for avoidance of doubt, the power to end sale procedures). 127881 - L31 E 15616 140365 - L3 RP 614619 129980 - L15 RP 618406 40394 - L15 RP 613481 130164 - L4 BUP 60007 141203 - L4 SP 223821		31/10/2018	10 Oct 2018 - 1:56 PM - Coordinator Revenue Collection Agents updated & Template Data prepared for referral 10.10.18

Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
		130381 - L80 SP 140933			
2 October 2018	Response to Notice of Motion – The Caves Water Supply	THAT Council receive the following report in response to the attached Notice of Motion from Cr Mather.	Manager Water and Waste Operations	31/12/2018	09 Oct 2018 - 2:56 PM — Manager Water and Waster Operations Further condition assessment and prioritisation of work to be undertaken on The Caves pipeline.
2 October 2018	Notice of Motion - Councillor Glenda Mather - The Caves Water Supply	THAT Council undertake a health check of the infrastructure supplying water from Ramsay Creek to Mt Charleton, and provide a further report to Council, which will include a) the need for any required upgrade/repairs, and b) an estimated cost for any upgrade/repairs	Director Infrastructure	31/12/2018	10 Oct 2018 - 11:56 AM Executive Director Infrastructure Condition assessment report and prioritisation of work to be undertaken on The Caves pipeline.

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Date	Report Title	Resolution	Responsible Officer	Due Date	Comments
2 October 2018	Proposed Boundary Change - Amended Terms of Reference	THAT Council respond to the amended Terms of Reference as per the discussions in the closed session of the Council meeting.	Officer	31/12/2018	10 Oct 2018 - 9:54 AM - Coordinator Executive Support CEO to draft a response based on discussion from the table.
2 October 2018	Statue Bay Reconstruction Project	THAT Council resolve to proceed in accordance with the recommended action-contained in the conclusion section of this report.	Director	31/12/2018	10 Oct 2018 - 11:57 AM — Executive Director Infrastructure Resolution actioned on 9 October 2018. Currently awaiting response.
2 October 2018	Paint Pot Gallery Accommodation	THAT Council resolve to meet the cost of extending the lease arrangement to accommodate the Paint Pot Gallery, at Shop 3, 18 James Street Yeppoon from 13 November 2018 to 30 June 2019 unless another viable option is found prior to the execution of the lease extension.	Property Officer	30/06/2019	09 Oct 2018 - 2:40 PM - Principal Property Officer Agent for 18 James Street has been contacted regarding execution of new lease to 30 June 2019.

9 PRESENTATION OF PETITIONS

10 AUDIT, RISK AND BUSINESS IMPROVEMENT COMMITTEE REPORTS

11 COUNCILLOR/DELEGATE REPORTS

12 REPORTS

12.1 LIFTING MATTERS LYING ON THE TABLE

File No: GV13.4.1

Attachments: Nil

Responsible Officer: Chris Murdoch - Chief Executive Officer

Author: Lucy Walker - Executive Support Officer

Debra Howe - Director Strategic Growth & Development

SUMMARY

The Business Outstanding Table is used as a tool to identify when reports are due back to the Council table. Items lying on the table require a report to be lifted from the table before being dealt with.

This report is designed to lift all necessary reports from the table to be dealt with at the current meeting of 16 October 2018, in this case the 'Potential Sale of Lots 2 and 3 – The Gateway Business and Industry Park'.

For noting, since the report being lifted off the table was presented to the Ordinary Meeting of Council on 18 September 2018 some new information has come to light. As a result, a new report has been prepared relating to the potential sale of Lots 2 and 3 in The Gateway Business and Industry Park, which is also on the agenda of the current meeting of 16 October 2018.

Council may then choose to let the report from 18 September 2018 lapse and deal with the more recent report.

OFFICER'S RECOMMENDATION

THAT the following matter, 'lying on the table' in the Business Outstanding Table due to return to Council Meeting, be lifted from the table and be dealt with accordingly.

- Potential Sale of Lots 2 and 3 – The Gateway Business and Industry Park

12.2 MONTHLY FINANCIAL REPORT FOR THE PERIOD ENDING 30 SEPTEMBER 2018

File No: FM12.14.1

Attachments: 1. Monthly Council Report - September 2018

Responsible Officer: Andrea Ellis - Chief Financial Officer

Author: Damien Cross - Coordinator Accounting Services

SUMMARY

Presentation of the Livingstone Shire Council Monthly Financial Report for the period ending 30 September 2018 by the Chief Financial Officer.

OFFICER'S RECOMMENDATION

THAT the Livingstone Shire Council Monthly Financial Report for the period ending 30 September 2018 be received.

BACKGROUND

The attached Financial Report has been compiled from information within Council's Finance One and Pathway systems. The report presented includes:

- 1. Key Strategic Financial Indicators
- 2. Summary of Financial Results
- 3. Detailed Statements

The attached financial information presents a snapshot of the month (September) and year-to-date position of Council's financial performance for the 2018-19 financial year.

Commitments are excluded from the reported operating & capital costs.

All variances are reported against the 2018-19 Adopted Budget. All budgets have been developed on a monthly basis. The attached reports show the business units segregated revenue and expenditure statements and balance sheets.

COMMENTARY

The Financial Report compares actual performance to date with Council's 2018-19 adopted budget and identifies significant variances or areas of concern. It also provides information about additional areas of financial interest to Council and reinforces sound financial management practices throughout the organisation. This information is provided through the attached monthly financial report. At this early stage of the financial year trends are only starting to emerge. Finance management is currently working through the 19Q1 Revised Budget process. This budget revision will be presented to Council under a separate report for review and consideration.

Financial Performance

The operating performance for the financial year to 30 September 2018 shows an operating surplus of \$14.6 million compared to a budgeted operating surplus of \$13.8 million.

Financial Performance	e Summary to 3	0 September 2	018		
	YTD Adopted Budget (\$m)	YTD Actual (\$m)	Variance (\$m)	Variance YTD %	Status
Operating Revenue	\$36.1	\$34.1	(\$2.0)	(6%)	•
Operating Expense	(\$22.3)	(\$19.5)	\$2.8	(13%)	✓
Operating Surplus/Deficit	\$13.8	\$14.6	\$0.8	6%	✓
Capital Income	\$1.4	\$2.7	\$1.3	96%	✓
Capital Expenditure	(\$15.7)	(\$7.1)	(\$8.5)	(55%)	✓

Note: Actual results exclude purchase order commitments.

Status Legend:

- Above budgeted revenue or under budgeted expenditure
- Below budgeted revenue or over budgeted expenditure <10%
- Below budgeted revenue or over budgeted expenditure >10%

Operating Revenue

The year to date operating revenue is below the year-to-date budget. The half-yearly rates & utility charges were generated in the revenue system in July, with an issue date of 1 August 2018 and a due date of 5 September. The 19Q1 revised budget will address some variances associated with the phasing of operational revenue budgets for operating grants ad sales revenue.

Table A.1 in the Monthly Financial Report (Attachment 1) shows operating revenue by major category of actuals to budget variances by line item.

Operating Expenses

The year to date operating expenditure is below budget by \$2.8 million which excludes \$13.3 million in committals. Table A.1 in the Monthly Financial Report (Attachment 1) reports operating expenditure by major category of actuals to budget variances by line item.

Total operating expenses are under budget mostly due to an underspend of \$1.6M in materials & services and \$921K in employees benefits with a number of vacant positions currently being at various stages of recruitment.

A snapshot of the expenditure on the rural and urban roads maintenance programs in comparison to both the 2018-19 year to date budget and the adopted annual budget is outlined below:

	YTD Actual (\$000's)	YTD Budget (\$000's)	Full Year Adopted Budget (\$000's)	% Full Year Budget Spent
Rural Maintenance	\$1,003	\$948	\$4,351	23.0%
Urban Maintenance	\$353	\$524	\$2,206	16.0%

Note: Actual results exclude purchase order commitments.

Capital Income

Total capital income is ahead of budget by approximately \$1.3 million. This is mostly due to the receipt of a \$1 million payment from the Queensland Reconstruction Authority for the Statue Bay Reconstruction Project during July.

The 2018-19 capital revenue budget for developer contributions is \$1.82M and this will be closely monitored as the 2018-19 financial year progresses to assess the impact on capital project funding. Year to date developer's contributions total \$0.112 million

Capital Expenditure

Capital expenditure incurred as at 30 September 2018 is summarized in Table D.1 and D.2 in Attachment 1. The 2018-19 adopted budget total capital expenditure is approximately \$48.3 million with YTD actuals of \$7.1 million with a further \$23.8 million in committed expenditure.

Table D.3 highlights the significant capital works projects with an adopted expenditure budget greater than \$1 million and includes the YTD actuals and project life-to-date costs in comparison to budget.

Statement of Financial Position as at 30 September 2018

A detailed balance sheet is provided in Table B.1 in Attachment 1 as at 30 September 2018.

The balance sheet shows a low level of total liabilities in comparison to total assets and consists predominantly of trade & other payables, other provisions and loan borrowings.

Council's total loan balances are approximately \$84.1 million following the first quarterly repayment made to the Queensland Treasury Corporation (QTC) during September. Council has not accessed the approved working capital facility.

Interest on long term borrowings range from 3.123% to 5.554%, with the average cost of capital being 4.35%.

Statement of Cash Flows

The statement of cash flows provided in Table C in Attachment 1 shows Council's expected cash flows for the financial year and the actual cash flows at this early stage of the financial year. The cash position remains sound with cash totaling approximately \$49.3 million at 30 September 2018. Council's half-year general rates and fourth quarter 2017-18 water consumption notices were issued on 1 August 2018 with a payment due date of 5 September 2018. The cash inflows from these notices have had a favorable effect on Council's cash position to the end of September as well as capital expenditure being below the YTD budget.

Available cash is either invested with the Queensland Treasury Corporation (QTC) Capital Guaranteed Cash Fund or held in fixed term deposits with financial institutions. The annual effective interest rate for the QTC Capital Guaranteed Cash Fund at 30 September 2018 was 2.62% p.a. Interest rates for Council's current term deposit is 2.83% and reflect the fixed interest rate for the term of the investment.

Interest earned on cash and investments for the month of September was \$104K.

Outstanding Sundry Debtors

At 30 September 2018, outstanding sundry debtors stand at \$1,552,765 and of this balance \$836,827 is current.

There are 39 accounts which are over 60 days totaling \$478,283 which represents approximately 31% of total outstanding sundry debtors.

Outstanding and Overdue Rates and Charges

The total rates debtor balance at 30 September 2018 stands at \$5,764,253. There is \$1,421,373 in prepaid rates as at the 30 September, with net rates outstanding being \$4,342,880 as at 30 September. This includes the current levies not yet due \$163,799 which represents 3% of the balance outstanding. The total rates receivable balance has reduced

substantially from the last monthly finance report given that both the 2018-19 half-year general rates notices and final quarter 2017-18 water consumption notices were due on 5 September 2018.

The KPI target for outstanding rates is to reduce rates receivables to less than 5% of total rates outstanding prior to the next six monthly billing cycle. Whilst the collection process of overdue rates receivables is proceeding, total rates receivables as at 30 September 2018 eligible for collection (excluding the current levy) is \$5,600,454 which is 17% of rates levied. This is above this KPI target due to the timing of the generation and issue of rates notices as outlined above.

The following table analyses this overdue amount by age of debt.

Aging Period	Arrears balance (before deducting prepaid rates)	% of total eligible for collection
Current	\$3,064,464	54.63%
1 years	\$1,372,027	24.55%
2 years	\$651,337	11.65%
3 years	\$270,859	4.85%
4 years	\$168,793	3.02%
5 years	\$72,974	1.31%
TOTAL	\$5,600,454	100%

Council offers a direct debit facility with 2,804 direct debits totaling \$912,688 processed in September.

Debt Management

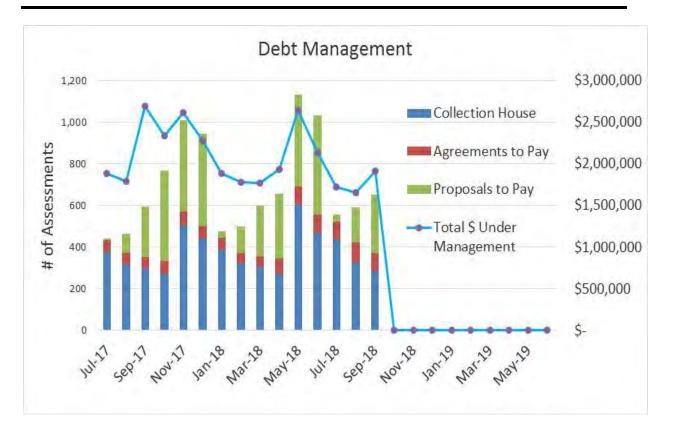
Ratepayers always have the option to enter into formal payment arrangements, which prevents legal action being progressed by Council's debt collection agency. Council resolved to reduce the overdue interest from 10% to 7% per annum in 2018-19, applied monthly, on all overdue balances, including those under a formal payment agreement.

In total, 59% of the overdue balances are under management, this reflects 652 assessments out of all (17,518) rateable assessments (3.7%).

September saw an increase of proposals to pay to 278 in total, representing a total of \$360,145. Proposals to pay require all current arrears to be paid in full prior to the next rating period.

There are 92 (August: 94) assessments under long term arrangements (agreements to pay) with a total of \$372,526 with varying settlement periods.

A total of 282 (August: 328) assessments, representing \$1,178,631 (August: \$1,009,086) are currently being managed by Council's debt collection agency. Compared to September 2017, there are 16 less assessments under a debt management arrangement and a reduction in the total value under management by \$943,623.



Procurement Activities

Council strongly supports locally-owned and operated businesses, including those with an office or branch in our region. Council is able to report on direct local spend for both operational and capital expenditure in addition to employee salaries & wages. The data provided is only reflective of the payments made through Accounts Payable and via corporate purchase cards and does not make any consideration for other economic impacts.

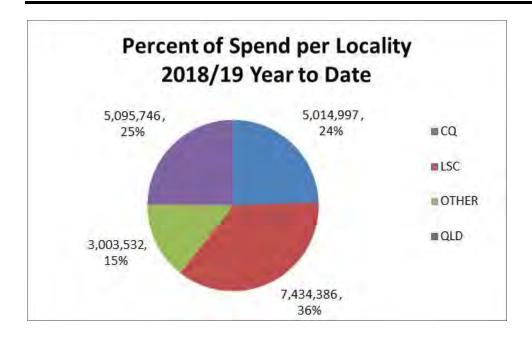
LSC = Businesses located within the shire boundaries.

CQ = Business completely set up and run outside of LSC boundaries but within the Central Queensland.

QLD = Business based outside of Central Queensland but within Queensland

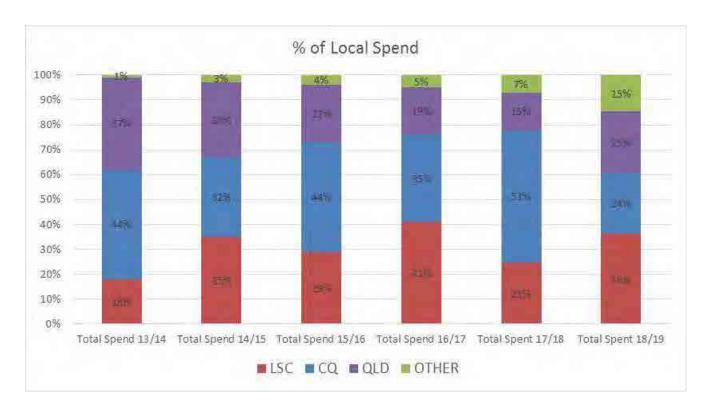
OTHER = Business based outside of Queensland.

The following pie chart illustrates the total dollars spent this financial year by geographical categories.



The total spend on businesses located within the Shire boundaries was 36% or \$7.43 million. For the financial year to 30 September 2018, Council has purchased more of its materials and services from businesses and industries that are located within the Shire boundaries.

The bar graph below summarises the allocation by local spend categories per financial year since 2013-14. Council procures, on average, 71% of the materials & services from within the greater the Central Queensland area, which includes Livingstone Shire Council.



PREVIOUS DECISIONS

Council adopted the 2018-19 Budget on 24 July 2018.

BUDGET IMPLICATIONS

The Monthly Financial Report shows Council's financial position in relation to the 2018-19 adopted budget.

LEGISLATIVE CONTEXT

In accordance with Section 204 of the *Local Government Regulation 2012*, a Financial Report is to be presented to Council on at least a monthly basis.

LEGAL IMPLICATIONS

Not applicable.

STAFFING IMPLICATIONS

Not applicable

RISK ASSESSMENT

Regular robust reporting of Council's financial results assists in creating a framework of financial responsibility within the Council and providing sound long term financial management of Council's operations.

CORPORATE/OPERATIONAL PLAN

Corporate Plan Reference: Strategy GO3: Pursue financial sustainability through

effective use of the Council's resources and assets and

prudent management of risk.

CONCLUSION

The Financial Report provides information about Council's financial performance and position for the month ending 30 September 2018. The attached financial results are early indication of Council's financial results in 2018-19. Actual and adopted budget amounts reported are subject to finalisation of the 2017-18 financial statements.

12.2 - MONTHLY FINANCIAL REPORT FOR THE PERIOD ENDING 30 SEPTEMBER 2018

Monthly Council Report - September 2018

Meeting Date: 16 October 2018

Attachment No: 1



Monthly Financial Report for period ending 30/09/2018

Contents

Financial Health Indicators

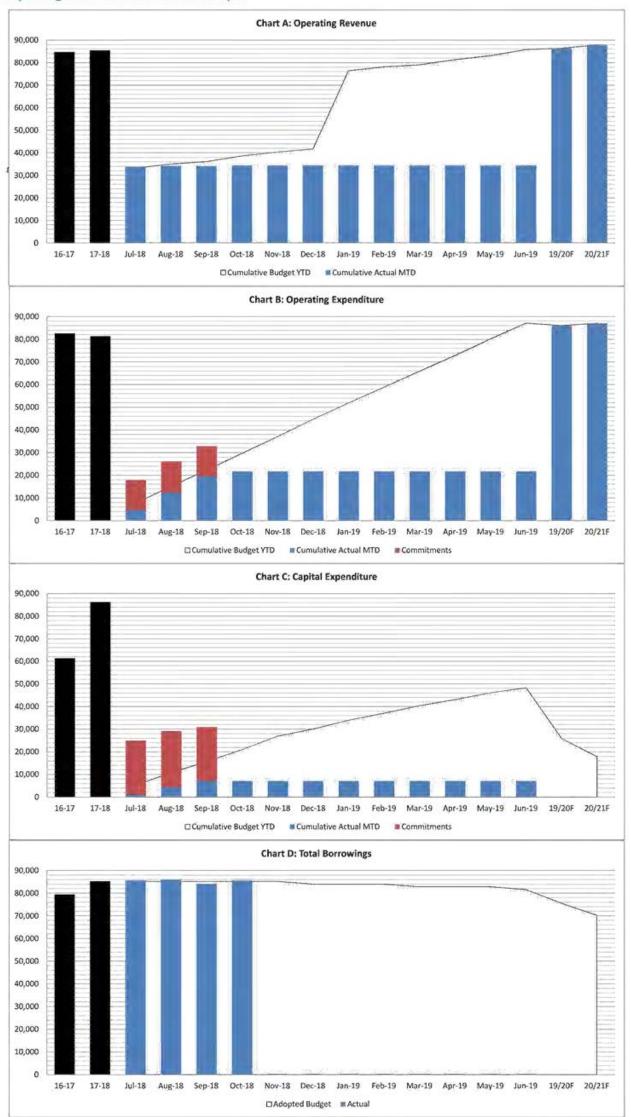
- Key strategic financial indicators
- Summary financial statements

Attachments: Detailed financial statements

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Financial Health Indicators

Key strategic financial indicators: trend analysis



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Key strategic financial indicators as at: 30/09/2018

Operating performance	Target	Adopted	_		
	Benchmark	Budget	YTD Actual	Status	Commentary
Operating surplus ratio					Operating surplus % and operating efficiency % are very high
Operating surplus/operating revenue	10%	-1.6%	42.7%	1	due to the levy of the first half-yearly rates charges during July. These ratios incidate that operating revenue is greater
Operating efficiency ratio					than operating expenses and this assists with funding capita
Operating revenue/operating expense	110%	98%	175%	1	expenditure.
Fiscal flexibility			_		
	Target Benchmark	Adopted Budget	YTD Actual		
Net financial liabilities ratio					Commentary
Total liabilities - current assets /operating revenue	<60%	79%	120%	×	The Net Financial Liabities ratio is above the target benchmark of 60%.
Own-source operating revenue ratio	2230	422.0	2250	- 2	The own-source operating revenue ratio is favourable when
Own source/operating revenue	>60%	87.7%	96%	1	compared to the target benchmark as General Rates and Utility Charges for the half year ending 31 December 2018
Interest cover ratio					were levied in July.
Net Interest Expense / Total Operating Revenue	0% - 5%	6.2%	3.2%	1	interest cover ratio is within the target range.
Liquidity					
nocute was a	Target	Adopted			
	Benchmark	Budget	YTD Actual		Commentary
					The YTD cash expense cover indicates that Council has
Cash balances - Cash capacity in months	3.0	3.0	11.7	~	sufficient cash to meet current cash operating expenses for
Cash at bank/cash operating expense	5.0	0.0	1.4.1.		11.7 months. The current ratio is well above the target benchmark of 2.0
Ability to pay our bills - Current Ratio (times)					due to the issue of General Rates for the half year ending 3
Current assets/current liabilities	2.0	2.7	5.2	4	December 2018 and total cash being above the budget cash position at 30 September 2018.
Asset sustainability					
	Target	Adopted	WTD 4-44-1		Commentary
	Benchmark	Budget	YTD Actual		Asset sustainabilty ratio will remain lower than target due to
					the large proportion of new assets not requiring renewal at
Asset Sustainability Ratio Renewal expenditure/depreciation	90%	51.5%	9%	u.	this stage. Following the adoption of the 2018-19 budget on 24 July
nenewa experioritire/sepretiation	3076	31.376	376	×	2018 the capital works program will gain momentum with approximately only 5% of the capital renewal budget committed at this early stage of the financial year.
Stauts Legend					to demonstrate and the control of th
KPI target (budget) achieved or exceeded		4	KPI target (budget) n	of achieved x

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Summary financial statements for the year to date ending 30/09/2018

A. Summary of financial results

	Year-to Budget	-date Actual	Varian	се	Status	Comments				
	(Sm)	(\$m)	\$	%						
Own-source Revenues	33.53	32.76	(0.77)	-2%	367	Own source revenue is slightly under the YTD budget with half-year rates & utility				
Total Revenues	36.11	34.11	(2.00)	-6%	BIL	notices and annual animal registrations being generated & issued in July. Em				
Employee Expenses	(8.18)	(7.26)	0.92	-11%	4	expenses are below YTD budget a number of vacant positions currently being recruited for. A YTD underspend in Materials & Services expenditure of \$1.6m is contributing to				
Total Expenses	(22.33)	(19.53)	2.80	-13%	1	the favourable variance in Total Expenses.				
Operating Result	13.78	14.58	0.80	6%						

	Year-to Budget	-date Actual	Varian	ce	Status	Comments			
	(\$m)	(\$m)	\$	%					
Cash and Cash Equiv	29,16	49.30	20.14	69%	1				
Current Assets	35.09	62.18	27.09	77%	1	Cash balances and total current assets are well ahead of the budgeted position at 30			
Current Liabilities	10.12	11.98	1.86	18%	*	September 2018 due to the drawdown of loans funds in June 2018 for the Ye Sewerage Treatment Plant Augmentation Project. Borrowings are reported as			
Non-Current assets	1,004.38	961.08	(43.30)	-4%	201	below budget following with the first quarterly repayment of Council's loan portfolio with			
Borrowings	85.17	84.13	(1.05)	-1%	200	the Queensland Treasury Corporation taking place during September.			
Non-Current Liabilities	91.02	91.15	0.13	0%	1				
Net Assets	938.33	920.14	(18.19)	-2%					

	Year-to- Budget	-date Actual	Variance		Status	Comments						
	(\$m)	(\$m)	\$	%								
Net Operating	17.53	17.10	(0.43)	-2%	Œ	The overall net cash flows for the month ended 30 September is in advance of the YTD						
Net Investing	(13.77)	(9.84)	3.93	-29%	1	adopted budget. Total cash on hand at 30 September is reported as well ahe						
Net Financing	(1.19)	(1.16)	0.03	-3%	V	budget due to a higher than anticipated closing cash position at 30 June 2018.						
Closing Cash Balance	29.16	49.30	20.14	69%								

	Year-to	-date	Variance		Status	Comments				
	Budget	Actual		-	-					
	(\$m)	(\$m)	\$	%		Whilst the capital program costs appear significantly lower than the YTD budget it needs				
Renewal	2.19	0.53	(1.66)	-76%	×	to be recognised that a further \$23.8m in committals has been raised for capital.				
New/Upgrade	13.51	6.59	(6.92)	-51%	×	expenditure relating to the 18-19 capital program. The capital budget has been aligned				
Total Capital Program	15.70	7.12	(8.58)	-55%		to the delivery program prepared as part of budget, however this is subject to change during the year and will be revised at each quarterly budget review.				

Status Legend:

Above budgeted revenue or under budgeted expenditure
Below budgeted revenue or over budgeted expenditure <10%
Below budgeted revenue or over budgeted expenditure >10%

×

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Attachments

A.1: Monthly Summary revenu	e and expen	diture re	port (by ti	ne item)						YYD	251
		This	period			Year-to	-date		and the second second	Full year	
	Budget	Actual	Variance	Variance	Budget	Actual	Variance	Variance	Adopted Sudget	Revised Budget	Variance
	(\$'000)	(\$1000)	(5'000)	%	(\$'000)	(5'000)	(\$1000)	%	(\$'000)	(5'000)	(3:000)
Revenues											
Rates & Utility Charges	0	(699)	(699)	0%	32,409	31,470	(939)	-3%	71,498	71,498	
User fees & charges	300	293	(7)	201	948	984	36	4%	3,714	3,714	
Operating grants	358	95	(263)	-73%	1,526	860	(686)	44%	6,009	6.009	
Interest	108	104	(4)	4%	350	274	(76)	-22%	1,347	1,347	-
Sales revenue	217	3	(214)	-99%	705	211	(494)	-70%	2,448	2.448	N/A
Other	-54	82	29	53%	173	309	137	79%	747	747	-
Total operating revenues	1,036	(122)	(1,158)	-112%	36,111	34,108	(2,002)	-6%	85,765	85,765	
Expenses											
Employee benefits	(2,540)	(2,621)	(81)	3%	(8,178)	(7,257)	921	-11%	(31,729)	(31,729)	
Materials & Services	(2,176)	(2,090)	86	-4%	(6,789)	(5,148)	1,641	-24%	(27,075)	(27,075)	. 11
Depreciation	(1,867)	(1,989)	(122)	7%	(5,785)	(5,785)	.0	0%	(22,777)	(22,777)	
Interest	(356)	(365)	(9)	3%	(1,070)	(1,074)	(5)	0%	(4.275)	(4,275)	
Other	(172)	(127)	46	-26%	(505)	(264)	241	-48%	(1,264)	(1.264)	
Less: Total operating expenses	(7,111)	(7,191)	(81)	1%	(22,327)	(19,529)	2,798	-13%	(87,120)	(87,120)	
Net operating result	(6,074)	(7,313)	(1,239)		13,784	14,580	796	6%	(1,355)	(1,355)	
Capital Income			/Control of								
Capital Grants	258	605	347	135%	887	2,399	1,512	170%	10,335	10,335	
Developer Contributions	152	36	(116)	-76%	458	112	(344)	-75%	1.823	1,823	18
Other capital income	0	8	8	0%	0	194	194	0%	(37)	(37)	
Less: capital expenses	12	0	(12)	100%	36	0	(36)	-100%	(143)	(143)	100
Net Capital Income	422	649	228	54%	1,379	2,705	1,326	96%	11,978	11,978	
Total comprehensive income	(5,652)	(6,664)	(1,011)		15,163	17,285	2,122	14%	10,623	10.623	

		This period					-date			Full year	
	Budget	Actual	Variance	Variance	Budget	Actual	Variance	Variance	Adopted Budget	Revised Budget	Variance
	(\$1000)	(\$'000)	(\$'000)	196	(5'000)	(\$'000)	(\$'000'\$)	%	(E000)	(\$'000)	(\$(000)
Office of the CEO											
Revenue	12	3	(9)	-74%	32	79	48	151%	188	188	
Expenses	(973)	(1,029)	(56)	6%	(3,185)	(3,348)	(163)	5%	(12,275)	(12,275)	100
Liveability and Wellbeing											
Revenue	304	339	35	12%	933	1,195	262	28%	3,627	3,627	
Expenses	(1,375)	(1,524)	(150)	11%	(4,429)	(3,853)	576	-13%	(17,332)	(17,332)	
Infrastructure					H-7257-17				-		
Revenue	639	(451)	(1.090)	171%	15,186	13,206	(1,980)	-13%	36,834	36,834	- 57
Expenses	(4.588)	(4,514)	73	-2%	(14,413)	(12,180)	2,233	-15%	(56,586)	(56,566)	- 1
Central Funds	-	07,1110.00				. (1111.17.0097)			- A-100-A-10	O SUMMERS OF THE PARTY OF THE P	
Revenue	82	(13)	(95)	116%	19,960	19.628	(332)	-2%	45,116	45,116	-
Evpenses	19765	(124)	E+	9000	(200)	(5.42)	153	519.	(0.66)	(0.60)	

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B: Monthly summary of assets and liabilities repor						YTO	25°
		Year-to	-date			Full year	
	Budget	Actual	Variance	Variance	Adopted Budget	Revised Budget	Variance
En project	(5'000)	(\$.000)	(\$'000)	%	(\$.000)	(\$'000)	(\$1000)
ssets					Marie .		
Cash and cash equivalents	28,165	48,305	20,140	72%	13,945	13,945	- 10
Investments	1,000	1,000	0	0%	1.000	1,000	
Inventory	517	428	(89)	-17%	1,511	1,511	- 20
Trade & Other Receivables	5,409	5,502	92 2	2%	8,069	8,069	
Land - for resale	13,786	13,788	2	0%	6,967	6.967	
Infrastructure:							
PPE	290,594	912,622	(77,971)	-8%	1,026,838	1,026,838	0.00
Capital WIP	=	39,148	39,148	0%	10.700.0	5.51	17
Other assets	100	2,474	2,474	0%	1,374	1,374	
Total Assets	1,039,470	1,023,267	(16,203)	-2%	1,059,704	1,059,704	0.63
Liabilities	17.00	.000.00			- 148		
Employee benetits	4,809	8,978	4,169	87%	4,810	4,810	
Trade creditors and accruals	504	120	(384).	-76%	4.116	4.116	- 33
Berrowings:			100				
Short-term	4,803	3,757	(1,046)	-22%	4,989	4.989	1.0
Long-term	80,370	80.370	(0)	0%	75,527	75.527	7.
Other liabilities	10,652	9.905	(747)	-7%	10,606	10,608	- 2
Total Liabilities	101,138	103,129	1,991	2%	100,048	100,048	14
Current assets	35,090	62,183	27,092	77%	32,610	32,610	
Current liabilities	10.716	11,981	1.865	18%	12.125	12,125	
Non-current assets	1,004,380	961,084	(43,295)	-4%	1,027,094	1.027.094	- 2
Non-current liabilities	91,022	91,149	127	0%	87,923	87,923	- 1
Net community assets	938,332	920,137	(18,195)	-2%	959,656	959,656	194

C: Monthly summary each flow r	-puri									YTD	25%
		This	period			Year-to	-date		es at	Full year	
	Budget	Actual	Variance	Variance	Budget	Actual	Variance	Variance	Adopted Budget	Revised Budget	Variance
	(2,000)	(\$1000)	(\$'000)	- %	(\$ 000)	(\$1000)	(\$1000)	%-	(\$'000)	(\$'000)	(\$1000)
Cash inflows from operations -											
Rates & utility charges	17,518	17,188	(330)	0%	31,964	30,989	(874)	0%	72,749	72,749	
User lees and charges	300	353	55	18%	963	1,346	382	40%	3,996	3,995	
Operating grants	358	.95	(263)	-73%	1,526	838	(688)	-45%	6,009	6,009	
Interest	97	104	7	8%	314	274	(40)	+13%	1,207	1,207	
Other	183	16	(167)	-91%	550	(439)	(989)	-180%	1,445	1,445	
Proceeds from sale of land inventory	.0	0	0	0%	253	230	(23)	-9%	7.824	7,824	(
Total operating cash inflows	18,455	17,756	(699)	-4%	35,570	33,238	(2,332)	-7%	93,230	93,230	0
Cash outflows from operations -		1100 000									
Employee entitlements	(2,540)	(2,621)	(81)	3%	(8,178)	(7,253)	925	-11%	(31,729)	(31,729)	
Payments to suppliers	(2,161)	(3,504)	(1,343)	62%	(6,375)	(7,138)	(763)	12%	(27,386)	(27,386)	
Borrowing costs & bank charges	(356)	(365)	(9)	3%	(1,070)	(1,074)	(5)	0%	(4.275)	(4,275)	0
Other	(210)	(127)	63	-40%	(558)	(361)	197	-35%	(1,669)	(1,669)	
Payments for land inventory	(335)	(133)	202	-60%	(1,860)	(310)	1,550	-83%	(1,860)	(1,860)	0
Total operating cash outflows	(5,601)	(6,750)	(1,149)	21%	(18,041)	(16,136)	1,905	-1796	(56,919)	(66,919)	0
Net cash flows from operations	12,854	11,006	(1,848)	-14%	17,529	17,102	(427)	-2%	26,311	26,311	0
Investing cash flows -		- JUNE				***************************************	141112014				
Proceeds on disposal of assets	σ	\0	0	0%	.0	186	186	099	233	233	0
Capital grants & infrastructure											
charges	410	641	232	57%	1,343	2,511	1,168	87%	12,158	12,158	0
Acquisition of assets	(4.948)	(1,849)	3,099	-63%	(15.114)	(12,536)	2.578	-17%	(46,410)	(46,410)	
Other investing activities	0	0	. 0	0%	. 0	0	0	0%	(191)	(191)	
Net investing cash flows	(4,538)	(1,208)	3,330	-73%	(13,771)	(9,840)	3,932	-29%	(34,210)	(34.210)	0
Financing cash flows	144 201175	11101000				- STARTONES				.000 S III COOM	
Repayments on borrowings	(1,188)	(1,155)	33	-3%	(1,188)	(1,155)	33	-3%	(4,751)	(4,751)	0
Net financing cash flows	(1,188)	(1,155)	33	-3%	(1,188)	(1,155)	33	-3%	(4,751)	(4,751)	(
Net combined cash flows	7,128	8,643	1,515	21%	2,570	6,107	3,537	138%	(12,650)	(12,650)	0
Add: Opening cash balance	22,037	40,662	18,625	85%	26,595	43,198	16,603	62%	26,595	26,595	0
Closing cash balance	29,165	49.305	20,140	69%	29,165	49,305	20,140	69%	13.945	13,945	0

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9		This	period			Year-to-	-date		ere Store W		
	Budget	Actual	Variance	Variance	Budget	Actual	Variance	Variance	Adopted Budget	Revised Budget	Variance
7	(\$'000)	(\$'000)	(\$'000)	%	(\$'000)	(\$'000)	(\$'000)	%	(\$'000)	(\$1000)	(\$'000)
Renewal of existing assets -											
Capital grants and contributions	(50)	(155)	(105)	210%	(220)	(211)	9	-4%	(958)	(958)	(4)
Renewal expenditure	792	81	(711)	-90%	2,193	533	(1,660)	-76%	11,528	11,528	-
New assets/Upgrade of existing assets		-			versen en en	149/0-09/0-	V. V				
Capital grants and contributions	(360)	(495)	(135)	38%	(1,123)	(2,732)	(1,609)	143%	(11,163)	(11,163)	100
New/upgrade expenditure	4.039	2,669	(1,370)	-34%	13,505	6,586	(6,919)	-51%	36,741	36,741	4
Total										10,000	
Capital grants and contributions	(410)	(650)	(240)	59%	(1,343)	(2,943)	(1,600)	119%	(12,121)	(12,121)	
Renewal, upgrade and acquisition	4,831	2.750	(2,081)	-43%	15,698	7,119	(8,579)	-55%	48,269	48,269	

D.2: Monthly summary capital		-	-	THE REAL PROPERTY.		water, secupora 2 to					259
		This	period			Year-to	-date	Constant of			
	Budget	Actual	Variance	Variance	Budget	Actual	Variance	Variance	Adopted Budget	Revised Budget	Variance
See an	(\$000)	(\$,000)	(\$,000)	%	(\$'000)	(\$1000)	(\$1000)	%	(\$'000)	(\$,000)	(\$'000)
Land				- Anna		W. 1972	0.000	95.0	100	12.0	
Capital grants and contributions	-	0		0%		(130)	(130)	0%	37	37	- 12
Renewal, new/upgrade	9	- 3	(9)	100%	30	15	(15)	-49%	100	100	
Buildings											
Capital grants and contributions		29	- 29	0%		(29)		0%			
Renewal, new/upgrade	139	.124	(15)	-11%	316	137	(179)	-57%	777	777	163
Plant & Equipment											
Capital grants and contributions	0	0	0	.0%		(121)	(121)	0%	35.		147
Renewal, new/upgrade	207	- 11	(196)	-95%	678	90	(588)	-87%	2.138	2,138	
Roads & Drainage											
Capital grants and contributions	(126)	(600)	(474)	375%	(858)	(1,708)	(850)	99%	(6.892)	(6,892)	19
Renewal, new/upgrade	1,556	1,437	(119)	-8%	4,086	3,652	(434)	-11%	17,968	17,968	94
Bridges										-	
Capital grants and contributions	E	ē	50	0%				0%	9.		
Renewal, new/upgrade	219	-	(219)	-100%	742		- 742	-100%	1,048	1,048	
Water			100,000		773		10.00				
Capital grants and contributions	(51)	(13)	38	-74%	(153)	(31)	122	-80%	(611)	(611)	
Renewal, upgrade and acquisition	138	25	(113)	-82%	436	171	(265)	-61%	2,100	2,100	
Sewerage				-					Maria Maria		
Capital grants and contributions	(18)	(5)	13	-72%	(53)	(15)	38	-72%	(3,213)	(3,213)	100
Renewal, upgrade and acquisition	1,286	622	(664)	-52%	4,373	1,631	(2,742)	-63%	14,380	14,380	- 170
Site Improvements							-				
Capital grants and contributions	(215)	(2)	-213	-99%	(279)	(670)	(391)	140%	(1,442)	(1,442)	160
Renewal, upgrade and acquisition	943	414	(529)	-56%	3,179	1,128	(2.051)	-65%	7,900	7,900	
Land Development			1,000		210000	13133				-	
Capital grants and contributions	123	0	0	0%	0	(238)	(238)	0%	0	0	- 6
Renewal, ungrade and acquisition	335	116	(219)	45%	1.860	294	(1.566)	-84%	1.860	1 860	

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D.3: Summary capital expenditure report by project (>\$1 million) Budget Project Costs YTD FY18/19 **Project Life Costs Project Dates** FY18/19 Total Project Project EOFY % Project Planned Planned WIP B/F Adopted Project Actual Project Complete Start Date* FY 17/18 Completion Forecast Cost Budget LTD Costs Costs Budget Date* Major projects (>\$1m) (\$'000) (\$'000) (\$'000) (\$'000) (\$'000) (\$'000) (\$'000) (\$'000) Capricorn Coast New Cemetery 988058 (N) Capricorn Coast Cemetery Roadworks 8/05/17 14/09/18 474 90% 1,933 340 814 500 500 2,407 2,500 988173 (N) Capricorn Coast New Cemetery Internal 20% 16/04/18 12/12/18 130 63 162 225 1,300 1,300 193 1,300 1110324 (N) Cap Coast New Cemetery Internal R&D works PCL-530 50% 221 772 994 1,600 1,600 221 2.200 6/08/18 26/11/18 Subtotal of Capricorn Coast New Cemetery 2,063 1,274 2,032 3,400 3,400 2,821 6.000 Emu Park Village & Forshore Revitalisation 1105254 (U) EPV&FR Kerr Park Carpark (SLSC) 100% 6/11/17 6/11/17 0 805 805 0 0 1105255 (U) EPV&FR Tennent Memorial Dr 17 30% 4/12/17 15/03/19 17 0 0 0 1105256 (U) EPV&FR Emu St Stg1 Plans B to E 30% 4/12/17 15/03/19 63 13 40 53 75 1097725 (N) EPV&FR-Emu Park Foreshore Pre-project Plan 10% 15/03/19 75 75 0 0 0 1100767 (N) EPV&FR Emu Park Village & Foreshore detailed design 3/07/17 1,334 30% 15/03/19 406 961 373 2,950 2,950 1.366 4.500 1108479 (R) EPV&FR water main replacement Emu St 100% 15/03/18 16/05/18 (0)(0) (0) Subtotal of Emu Park Village & Forshore Revitalisation 1,366 413 1,387 2,950 2,950 4,500 Homemaker Centre 1067267 (N) Homemaker Centre Demolition & Site F 95% 1/11/17 14/09/18 442 0 442 1067268 (N) Homemaker Centre General 80% 88 51 73 124 139 1/03/15 14/09/18 1067269 (N) Homemaker Centre Land Development 47 80% 1/03/15 14/09/18 1.298 73 120 1.860 1,860 1,346 6,790 1108266 (N) Homemaker Centre Service Relocation 100% 1,122 19 32 51 1,141 1/10/17 14/09/18 1108267 (R) Homemaker Centre SPS replacement 98% 1/11/17 14/09/18 220 0 0 220 1108268 (N) Homemaker Centre Earthworks 30 70 100 2,309 98% 1/10/17 14/09/18 2,279 1108269 (N) Homemaker Centre SRM 300mm trunk sew 98% 1/01/18 14/09/18 53 0 54 1113203 (N) Homemaker Centre Civil Works 132 25% 1.008 1.140 1/07/18 14/09/18 Subtotal of Homemaker Centre 281 1,269 5.651 5,502 1,550 1.860 1.860 6,790 1066964 (N) UEC-NC-Intersection Taranganba Rd at 9% 31/08/18 6/03/19 39 15 33 1,200 1,200 54 1,200 1108790 (N)-RC-NC-Nerimbera Boat Ramp Car-traile 1,200 1,200 0% 17/09/18 10/01/19 0 11 17 1.200 1108221 (N)-RC-RC-Svendsen Road-Sealed Road Construction 95% 6/05/18 6/09/18 200 555 137 692 965 1,600 755 1,600 966564 (N)-UC-NC-R'ton Rd (Barmaryee & Condon Drive Intersection) 356 852 1,208 157 1,630 1,023 1,630 65% 668 11/04/18 21/09/19 (N)-UC-PW-Scenic Hwy Statue Bay to Kemp Beach Rosslyn St to 26/06/17 30/06/20 1104375 Wildin Way 37 2,622 72 2.622 9% 35 43 2.617 959072 (U)-SP-SEW-33 STP YPN Augmentation Design & Construction 27% 7/02/2019 2,050 1,282 11,440 12,722 14,136 14,136 3,332 15,000 12/06/17 1105687 (U)-RC-RC-St Christopher Chapel Rd 1,000 68 251 1.000 1,000 79 10% 20/11/17 31/10/18: 11 318 1070087 (R)-WC-W-Main Replacement Reticulation V 1,230 5% 1/07/18 30/06/19 71 76 1.230 1.230 71 971816 (R)-UEC-RS-AS/SS/SLS-Road Resurfacing Annual Program 1,000 1,000 1,000 0% 1/07/18 30/06/19 971753 (R)-REC-GR-Gravel Resheet Program A 34 138 172 1,100 1,100 34 1,100 3% 1/07/18 30/06/19 1/07/18 30/06/19 1070059 (R)-UC-PR-Sealed Pavement Renewals AMP annual program 0% 0 1.000 0 0 1:000 0 1,000 983816 (R)-Fleet Renewal Program 145 1,900 11% 1/07/18 30/06/19 68 213 1,900 1,900 68

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		Wa	ter			Sewer Waste				Council				Consolidated						
	Adopted Budget	YTO Actual	Variance	Variance	Adopted Budget	YTD Actual	Variance	Variance	Adopted Budget	YTD Actual	Variance	Variance	Adopted Budget	YTD Actual	Variance	Variance	Adopted Budget	Actual	Variance	Variance
	(\$'000)	(\$'000)	(\$'000)	%	(\$'000)	(\$'000)	(\$'000)	%	(\$'000)	(\$1000)	(\$'000)	%	(\$'000)	(\$'000)	(8'000)	%	(\$'000)	(5'000)	(\$'000)	W
Rates & Utility Charges	16.075	4,717	(11,359)	-71%	9,436	4,893	(4,542)	-48%	5,966	3,007	(2,959)	-50%	40,021	18,853	(21,168)	-53%	71,498	31,470	(40,028)	-56%
User fees & charges	347	30	(317)	-91%	138	55	(83)	-60%	1,021	199	(822)	-81%	2,208	700	(1.508)	-68%	3,714	984	(2,731)	-74%
Operating grants		. 0	0	0%	0	0	0	0%	0	0	0	0%	6,009	860	(5,149)	-86%	6,009	860	(5,149)	86%
Interest	0	0	0	.0%	0	0	0	0%	0	0	0	0%	1,348	274	(1.073)	-80%	1,348	274	(1.073)	-80%
Sales revenue	200	45	(155)	-77%	70	12	(58)	-83%	0	0	0	0%	2,178	154	(2,024)	-93%	2,448	211	(2,237)	-91%
Other	19	(0)	(19)	-102%	7	0	(7)	-98%	40	- 11	(29)	73%	682	299	(383)	-56%	748	309	(439)	-59%
Total operating revenues	16,641	4,792	(11,850)	-71%	9,651	4,960	(4,690)	-49%	7,026	3,216	(3,810)	-54%	52,446	21,140	(31,306)	~60%	85,765	34,108	(51,657)	-60%
Expenses	7.00			-															N AL-10	
Employee benefits	(2,063)	(490)	1,573	-76%	(1,795)	(396)	1,399	-78%	(367)	(79)	289	79%	(27,504)	(6,293)	21,211	-77%	(31,729)	(7,257)	24,472	-77%
Materials & Services	(6.099)	(1,257)	4,842	-79%	(4,078)	(627)	3,452	-85%	(4.385)	(679)	3,706	-85%	(12,512)	(2,585)	9,927	-79%	(27,075)	(5,148)	21,927	-81%
Depreciation	(3,248)	(845)	2,404	-74%	(4,595)	(1,195)	3,400	-74%	(780)	(203)	577	-74%	(14,154)	(3,543)	10,611	-75%	(22,777)	(5,785)	16,992	-75%
Interest	(391)	(100)	291	-74%	(572)	(234)	339	-59%	(620)	(159)	461	-74%	(2,691)	(582)	2,109	-78%	(4,275)	(1,074)	3,200	-75%
Other	0	1		0%	(0)	(0)	(0)	0%	(10)	(4)	6	-60%	(1,254)	(260)	994	-79%	(1,264)	(264)	1,000	-79%
Less: Total operating expenses	(11,801)	(2,691)	9,111	-77%	(11,040)	(2,451)	8,590	-78%	(6,162)	(1,123)	5,039	-82%	(58,116)	(13,263)	44,853	-77%	(87,120)	(19,528)	67,592	-78%
Net operating result	4,840	2,101	(2,739)	-57%	(1,390)	2,510	3,900	-281%	864	2,093	1,229	142%	(5,670)	7,877	13,547	-239%	(1,355)	14,580	15,935	-1176%

E.2: Business Unit summary of asse	ts and liabilities re	port						YTO		25%
	Water	Sewerage	Waste	Council		Year-to-		Full year		
					Budget	Actual	Variance	Variance	Adopted Budget	Revised Budget
	(5'000)	(\$1000)	(\$'000)	(\$1000)	(\$'000)	(\$'000)	(5'000)	%	(\$'000)	(\$'000)
Assets										
Cash and cash equivalents	15,336	11,805	11,556	10,608	29,165	49,305	20,140	69%	14,945	14,94
Inventory	0	0	0	428	517	428	(89)	-17%	1,511	1,51
Trade & Other Receivables	1,020	676	628	3,177	5,409	5,502	92	0%	8,069	8,069
Land - for resale	0	0	0	13,788	13,786	13,788	2	0%	6,967	6,96
Infrastructure:	0	0	0	0	0	0	0	0%	0	
PPE	196,175	116,491	9,125	590,831	990,594	912,622	(77,971)	-8%	1.026.838	1,026,83
Capital WIP	771	4,458	26	33.894	0	39,148	39,148	0%	0	
Other assets	0	(0)	0	2,474	0	2,474	2,474	0%	1,374	1,37
Total Assets	213,302	133,430	21,335	655,199	1,039,470	1,023,267	(16,203)	-2%	1,059,704	1,059,704
Liabilities						111111111111111111111111111111111111111				1000117000
Employee benefits	696	684	55	7,543	4,809	8,978	4,169	87%	4,810	4.810
Trade creditors and accruals	4	1	13.	103	504	120	(384)	-76%	4.116	4,116
Borrowings:							(5 7)	- 1		
Short-term	522	611	555	2,069	4,803	3,757	(1,046)	-22%	4,989	4,989
Long-term	9,988	16,138	10,505	43,739	80,370	80,370	(0)	0%	75,527	75,527
Other liabilities	0	0	9,416	489	10,652	9,905	(747)	-7%	10,606	10,606
Total Liabilities	11,210	17,433	20,544	53,942	101,138	103,129	1,991	2%	100,048	100,048
Current assets	16,356	12,481	12,184	21,161	35,090	62,183	27,092	77%	32,610	32,610
Current liabilities	1,180	1,254	623	8,924	10,116	11,981	1,865	18%	12,125	12,125
Non-current assets	196,946	120,949	9,151	634,038	1,004,380	961,084	(43,295)	-4%	1,027,094	1,027,094
Non-current liabilities	10,030	16,180	19.921	45,019	91,022	91,149	127	0%	87,923	87,923
Net community assets	202,093	115,997	791	601,257	938,332	920,137	(18,195)	-2%	959,656	959,656

12.3 PROPOSED TRUSTEE LEASES - CAPRICORN TOURISM AND ECONOMIC DEVELOPMENT LIMITED AND KEPPEL COAST ARTS COUNCIL INC.

File No: CP5.9.2

Attachments: 1. Aerial Photograph - Capricorn Tourism Lease

Area[↓]

Responsible Officer: David Mazzaferri - Manager Disaster Management,

Recovery and Resilience

Brett Bacon - Executive Director Liveability and

Wellbeing

Mark McLean - Principal Property Officer

Author: Maddie Crigan - Property Officer

SUMMARY

The purpose of this report is to provide information in relation to the re-dedication of the Reserve over Merv Anderson Park and issue of Trustee Leases over same.

OFFICER'S RECOMMENDATION

THAT Council resolve to:

- apply the exception mentioned in Section 236(1)(b)(ii) of the *Local Government Regulation 2012* to its dealings with Capricorn Tourism and Economic Development Limited and Keppel Coast Arts Council Incorporated for issue of Trustee Leases over land currently described as Lot 2 on Survey Plan 104438, Merv Anderson Park Yeppoon; and
- 2) provide Trustee Leases over land currently described Reserve for Recreation, Public Boat Ramp, Jetties and Landing Place over Lot 2 on Survey Plan 104438 to:
 - (a) Capricorn Tourism and Economic Development Limited for a term of 20 years for operation of the Capricorn Coast Visitor Information Centre and Shell World; and
 - (b) Keppel Coast Arts Council Incorporated for a term of 5 years for operation of the Artship.

BACKGROUND

The Darumbal People native title determination was handed down by the Federal Court on 21 June 2016. As a result of that determination there is a requirement for the Reserve for Recreation, Public Boat Ramp, Jetties and Landing Place over Lot 2 on SP104438, on which Merv Anderson Park is located, to be revoked at which time the land would revert back to Unallocated State Land under the control of the native title claimant.

On 23 December 2016, an Indigenous Land Use Agreement (the Agreement) between the State of Queensland and the Darumbal People was registered. As part of the Agreement the Darumbal People agreed that, due to its high level of use by the community, the reserve could be rededicated as a Reserve for Recreation, Public Boat Ramp, Jetties and Landing Place. As a result of the above there is a requirement for any lease agreements over Lot 2 to be reissued.

It should be noted that upon dedication of the new reserve, which will include additional areas over land and water, the real property description of the land will change to reflect the new Survey Plan.

COMMENTARY

Capricorn Tourism and Economic Development Limited (Capricorn Tourism) currently leases 2,523 square metres of Lot 2 (Attachment One provides an aerial photograph of the site). The lease was issued on 1 July 2006 for a term of twenty (20) years for the operation of the Capricorn Coast Visitor Information Centre.

The Keppel Bay Shell Club, which operates Shell World, is also located in the Visitor Information Centre. It is understood there is a Memorandum of Understanding between the parties in relation to ownership of the building and occupation rights. The Department of Natural Resources, Mines and Energy (the Department) has advised it would not object to Council re-issuing tenure to Capricorn Tourism following the re-dedication of the Reserve with the inclusion of 'the operation of Shell World' in the permitted use.

Also located on the reserve is a facility owned by the Keppel Coast Arts Council (Arts Council) known as the Artship. There is currently no formal tenure over the Artship which has an area of approximately seventy-two (72) square metres and encroaches on Capricorn Tourism's lease area. The Department has confirmed the Artship is consistent with the purpose of the Reserve and can remain, providing Council supports the proposal and that tenure is issued in the form of a Trustee Lease.

Capricorn Enterprise has advised that Capricorn Tourism would offer no objection to the area on which the Artship is located being excised from Capricorn Tourism's lease area, which will enable tenure to be issued over same. In discussions with both parties it was suggested that the cost of survey and registration of the new plan could be shared by both parties.

The lease conditions for the proposed leases are as follows:

Capricorn Tourism

- 1) Twenty (20) year term (requested by Capricorn Tourism);
- 2) Annual rental fee charged in accordance with Council's adopted Fees and Charges Policy for Parks Sport and Recreation currently \$300 (building site); and
- 3) Rates and Charges paid by lessee currently \$8,294 per annum.

Keppel Coast Arts Council

- 1) Five (5) year term (requested by the Arts Council);
- 2) Annual rental fee charged in accordance with Council's adopted Fees and Charges Policy for Parks Sport and Recreation currently \$125 (specialised area); and
- 3) Rates and Charges paid by Lessee approximately \$1,913 per annum.

The Arts Council has requested that consideration be given to waiving any applicable rates and charges, advising that it would consume approximately twenty-five (25) per cent of the annual income raised by local volunteers, and that it was not deemed to be an appropriate expenditure of funds by the committee.

Council's Revenue team has advised that the Arts Council would be eligible to apply for a Category 9 Rates Remission for Not-For-Profit / Community Organisations. If such application were to be approved, the annual amount payable would be reduced to \$147.40 per annum.

PREVIOUS DECISIONS

No previous decisions have been made by Council regarding this matter.

BUDGET IMPLICATIONS

Should Council wish to accommodate the request from Keppel Coast Arts Council to waive rates for their trustee lease, consideration would need to be made in the applicable budget.

LEGISLATIVE CONTEXT

Under Section 236 of Local Government Regulation 2012 (Exceptions for valuable non-current asset contracts) a local government may dispose of a valuable non-current asset to a community organisation other than by tender or auction only if, before the disposal, the local government has decided by resolution that the exception may apply on the disposal.

The management of public land is controlled by the Land Act 1994 and Native Title (Queensland) Act 1993.

LEGAL IMPLICATIONS

There are no legal implications relevant to this matter.

STAFFING IMPLICATIONS

There are no significant staffing implications surrounding this matter. Drafting and executing the tenure agreement would be accommodated in the existing capacities of the Community Partnerships unit.

RISK ASSESSMENT

The risk of not issuing tenure to Capricorn Tourism and the Arts Council is that both parties will be required to relocate from Merv Anderson Park and find alternative locations for their operations.

CORPORATE/OPERATIONAL PLAN

Strategy AM4 of Council's Corporate Plan states: 'Operate, maintain and use Council assets to deliver efficient and cost effective services to the community.'

LOCAL GOVERNMENT PRINCIPLES

The local government principles are –

- (a) Transparent and effective processes, and decision-making in the public interest: and
- (b) Sustainable development and management of assets and infrastructure, and delivery of effective services; and
- (c) Democratic representation, social inclusion and meaningful community engagement; and
- (d) Good governance of, and by, local government; and
- (e) Ethical and legal behaviour of councillors and local government employees.

CONCLUSION

For the continued operation of the Capricorn Coast Visitor Information Centre and the Artship at Merv Anderson Park, Council will be required to issue Trustee Leases to both parties.

12.3 - PROPOSED TRUSTEE LEASES - CAPRICORN TOURISM AND ECONOMIC DEVELOPMENT LIMITED AND KEPPEL COAST ARTS COUNCIL INC.

Aerial Photograph - Capricorn Tourism Lease Area

Meeting Date: 16 October 2018

Attachment No: 1



12.4 LIVINGSTONE SHIRE LOCAL DISASTER MANAGEMENT PLAN 2018

File No: ES9.5.2

Attachments: 1. Livingstone Shire Local Disaster

Management Plan J.

Responsible Officer: Brett Bacon - Executive Director Liveability and

Wellbeing

Author: David Mazzaferri - Manager Disaster Management,

Recovery and Resilience

SUMMARY

Livingstone Shire Council is dedicated to the continuous improvement of Disaster Management through all levels, including prevention, preparation, response and recovery. The Local Disaster Management Plan has been prepared by the Livingstone Shire Local Disaster Management Group for Livingstone Shire Council under the provisions of Section 57(1) of the Disaster Management Act 2003. The annual review and amendment of the Livingstone Shire Local Disaster Management Plan is a part of this continuous improvement process.

OFFICER'S RECOMMENDATION

That Council adopts the *Livingstone Shire Local Disaster Management Plan* as endorsed by the Livingstone Shire Local Disaster Management Group on 10 September 2018.

BACKGROUND

In accordance with section 59 of the *Disaster Management Act 2003*, it is the responsibility of Council, in conjunction with the Livingstone Shire Local Disaster Management Group, to review the *Livingstone Shire Local Disaster Management Plan*. It is stated that a review is to occur at a minimum of once a year or when the local government considers it appropriate. This review has been undertaken in accordance with the *Disaster Management Act 2003*.

COMMENTARY

On Monday, 10 September 2018 the Livingstone Shire Local Disaster Management Group met to endorse the latest version of the Plan (refer to Attachment One). The Plan underwent a self-assessment which was carried out by the Local Disaster Co-ordinator, Executive Officer District Disaster Management Group, Emergency Management Co-ordinator Queensland Fire and Emergency Services and Secretariat Local Disaster Management Group. This report addresses the review and update of the *Livingstone Shire Local Disaster Management Plan*.

PREVIOUS DECISIONS

The 2017 *Livingstone Shire Local Disaster Management Plan* was presented and endorsed on the 19 September 2017.

BUDGET IMPLICATIONS

No financial implications arise from the matters raised in this report.

LEGISLATIVE CONTEXT

Livingstone Shire Council and Livingstone Shire Local Disaster Management Group are compliant with the requirements under the *Disaster Management Act 2003*.

LEGAL IMPLICATIONS

Under Section 80(1)(b) of the *Disaster Management Act 2003*, one of the functions of Council is to approve its *Livingstone Shire Local Disaster Management Plan*.

STAFFING IMPLICATIONS

There are no known implications to staff from the endorsement of this plan.

RISK ASSESSMENT

There is a risk to the Livingstone Shire Council if it does not have an updated *Local Disaster Management Plan* as it would not incorporate known and current hazards and risks. It is a requirement under the *Disaster Management Act 2003* to ensure Council has a Local Disaster Management Plan.

CORPORATE/OPERATIONAL PLAN

Strategy GO2 of Council's Corporate Plan states: 'Develop strategic plans and policies to address local and regional issues and guide service provision.'

LOCAL GOVERNMENT PRINCIPLES

The local government principles are -

- (a) Transparent and effective processes, and decision-making in the public interest; and
- (b) Sustainable development and management of assets and infrastructure, and delivery of effective services; and
- (c) Democratic representation, social inclusion and meaningful community engagement; and
- (d) Good governance of, and by, local government; and
- (e) Ethical and legal behaviour of councillors and local government employees.

CONCLUSION

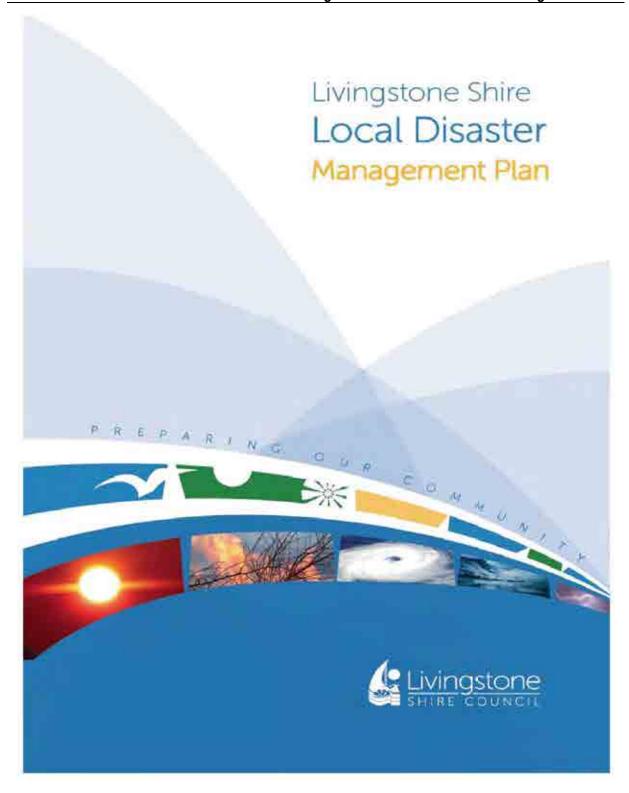
That Council review and adopt the updated Livingstone Shire Local Disaster Management Plan as per the recommendations above.

12.4 - LIVINGSTONE SHIRE LOCAL DISASTER MANAGEMENT PLAN 2018

Livingstone Shire Local Disaster Management Plan

Meeting Date: 16 October 2018

Attachment No: 1





FOREWORD

Foreword by the Chair, Cr Bill Ludwig of the Livingstone Shire Local Disaster Management Group.

The Livingstone Shire Local Disaster Management Plan (LDMP) has been prepared to ensure there is a consistant approach to Diaster Management in the Livingstone Shire. This plan is an important tool for managing potential disasters and is a demonstrated commitment towards enhancing the safety of the Livingstone Shire community.

The plan identifies potential hazards and risks in the area, identifies steps to mitigate these risks and includes strategies to enact should a hazard impact and cause a disaster.

This plan has been developed to be consistant with the Disaster Management Standards and Guidelines and importantly to intergrate into the Queensland Disaster Management Arrangements (QDMA). The primary focus is to help reduce the potential adverse effect of an event by conducting activities before, during or after to help reduce loss of human life, illness or injury to humans, property loss or damage, or damage to the environment.

I am confident the LDMP provides a comprehensive framework for our community, and all residents and vistors to our region can feel secure that all agenices involved in the Livingstone Shire LDMP are dedicated and capable with a shared responsibility in disaster management.

On behalf of the Livingstone Shire Local Disaster Management Group, I would like to thank you for taking the time to read this important plan.

Livingstone Shire Council Mayor Bill Ludwig Chair, Local Disaster Management Group

Date:

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ENDORSEMENT

This Local Disaster Management Plan (LDMP) has been prepared by the Livingstone Shire Local Disaster Management Group for the Livingstone Shire Council as required under section 57 of the Disaster Management Act 2003 (the Act).

David Mazzaferri Local Disaster Co-ordinator Livingstone Shire Council Local Disaster Management Group Cr Bill Ludwig Chair Livingstone Shire Council Local Disaster Management Group

Dated:

Dated:

Endorsed by the Livingstone Shire Council:

Cr Bill Ludwig Mayor Livingstone Shire Council Local Disaster Management Group Chris Murdach Chief Executive Officer Livingstone Shire Council

Dated:

Dated:

Endorsed by District Disaster Management Group:

Superintendent Ron Van Saane District Disaster Co-ordinator Queensland Police Service

Dated:

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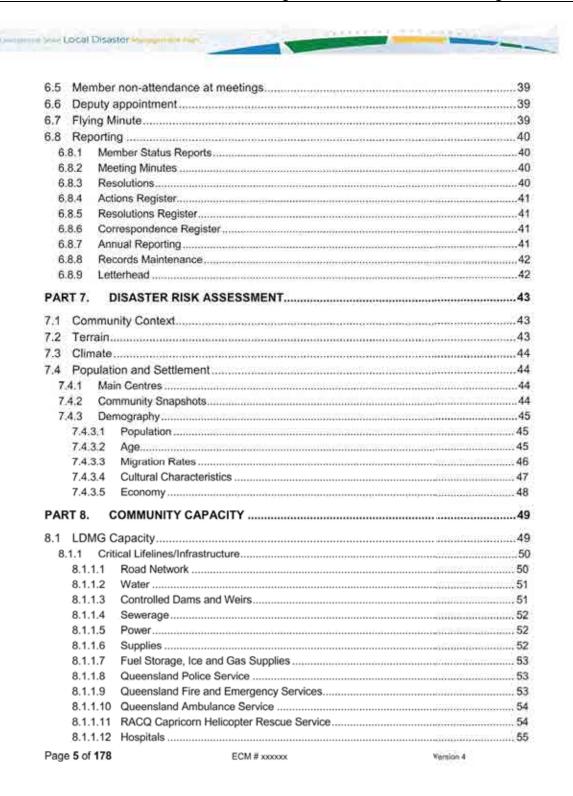


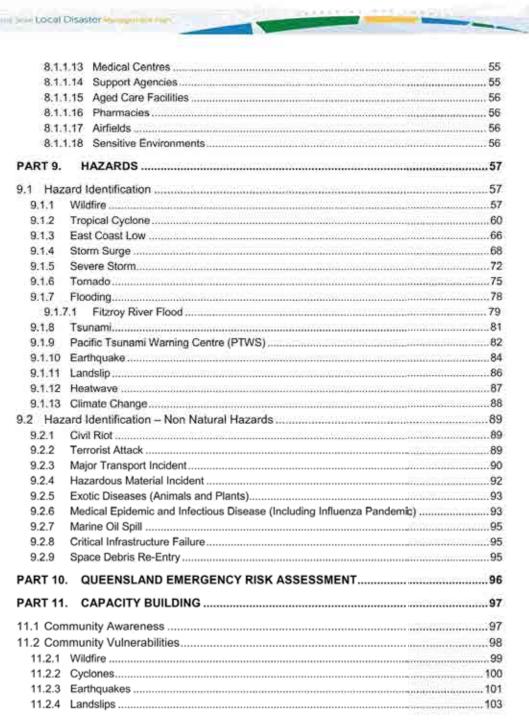
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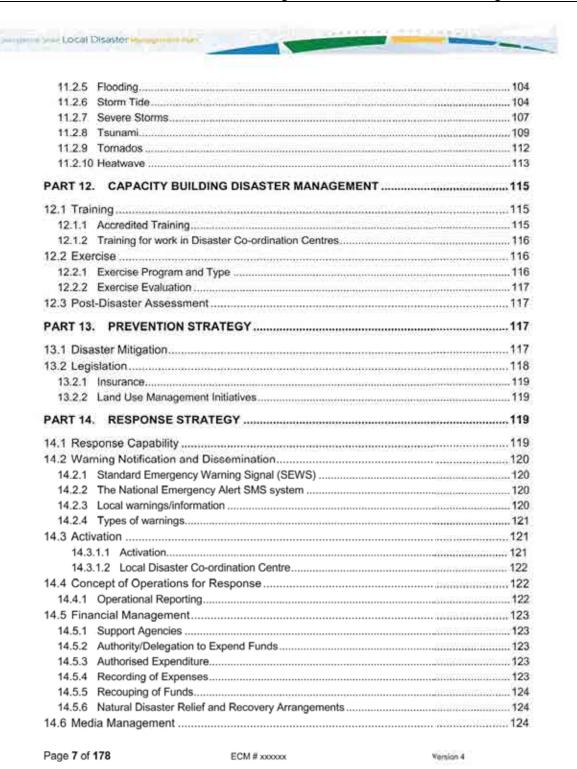
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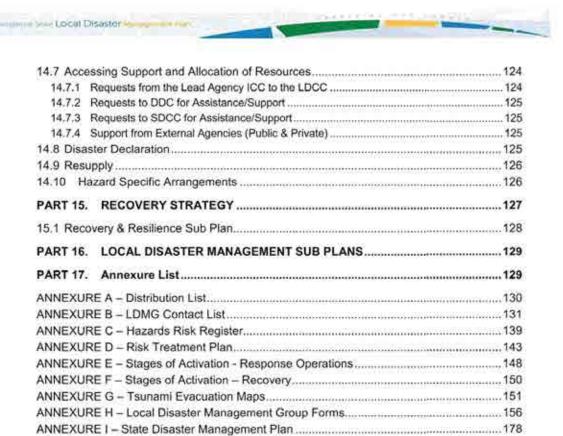
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PART 1. DOCUMENT CONTROL

The Local Disaster Management Plan (LDMP) is a controlled document. The controller of the document is the Livingstone Shire Council Local Disaster Co-ordinator (LDC). Any proposed amendments to this LDMP should be forwarded in writing to:

Mr David Mazzaferri Local Disaster Co-ordinator Livingstone Shire Council PO Box 2292 Yeppoon QLD 4703

This document is not to be altered, amended or changed in any way other than those amendments authorised by the Livingstone Shire Local Disaster Management Group (LDMG). However, the LDMP is intended to be a "live" document to be regularly reviewed, assessed and amended where necessary. As such, Livingstone Shire Council (LSC) welcomes feedback from the region's residents, visitors and others regarding this plan.

A copy of each amendment is to be forwarded to those identified in the distribution list. On receipt, the amendment is to be inserted into the document and the Amendment Register updated and signed.

1.1 Amendment Register

Version			Plan Updated				
No/Ref	Issue Date	Comments	Amended by	Date			
2		Minor review based on planning workshop conducted in March 2017. Review for IGEM Assurance Framework and lessons learnt from Fitzroy River Flood and Tropical Cyclone Debbie.	David Mazzaferri	25 July 2017			
3		Indepth review based on updated census data conducted in March 2018.	Melissa Minter on behalf of David Mazzeferri	10 April 2018			
4		LDMG member review — LSC, CQHHS, SLSQ, NBN, Dept. of Education, QFES & Red Cross.	David Mazzaferri	08 August 2018			

1.2 Distribution

This LDMP will be distributed to the representatives of nominated agencies as detailed in Annexure A – Distribution List. There will be two versions of this plan, one will contain all contact details and other sensitive information for members of the LDMG, with the second version having the personal details removed ensuring it complies with the Information Privacy Act 2009. Core members of the LDMG will receive a controlled copy of the entire version and the modified version will be be provided to advisory members. A copy of the modified version will be available on the public website for the community to access.

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PART 2. ADMINISTRATION AND GOVERNANCE

2.1 Authority to Plan

This plan has been prepared by the Livingstone Shire Local Disaster Management Group (LDMG) for the Livingstone Shire Council under the provisions of section 57(1) of the Act.

2.2 Purpose

This plan details the arrangements within the Livingstone Shire area to plan and co-ordinate capability in disaster management and disaster operations, and to ensure and maintain safety in the Livingstone Shire community prior to, during and after a disaster by adopting a comprehensive and all agency shared responsibility approach.

In short, this disaster management plan adopts a comprehensive all agencies approach to disaster management.

The LDMG will review and update the community's disaster management arrangements outlined in this plan and will investigate new initiatives to meet the changing needs of the area.

PART 3. THE DISASTER MANAGEMENT SYSTEM IN QUEENSLAND

Queensland's disaster management arrangements are guided by:

- 1. the Disaster Management Act 2003;
- the Queensland Disaster Management Strategic Policy
- 3. the Queensland State Disaster Management Plan; and
- 4. the Queensland Strategy for Disaster Resilience 2017.

The Queensland Government remains focussed on harnessing agency capabilities through informed partnerships with local government, communities and individuals. The overall aim is to continue to build Queensland's resilience against hazards.

Disaster has a sophisticated network for management in Australia with clear responsibilities and collaborative plans for national, state and local government, together with local business, key non-government stakeholders and the broader community. The various planning, implementation, monitoring and evaluation tools ensure the ongoing safety of residents and visitors.

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3.1 Queensland Disaster Management Arrangements



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3.2 Objectives

The objective of the Livingstone Shire LDMP is to facilitate the implementation of effective and efficient disaster management strategies and arrangements including:

- The development, review and assessment of effective disaster management for the local government area including arrangements for mitigating, preventing, preparing for, responding to and recovering from a disaster
- Compliance with the Queensland Disaster Management Strategic Policy Framework; the State Disaster Management Plan; the Local Disaster Management Guidelines; and any other Guidelines relevant to local level disaster management and disaster operations
- The development, implementation and monitoring of priorities for disaster management for the local government area.

The all-encompassing objective of applying a disaster management framework is to ensure the safety of the region. Individual objectives to support the aforementioned are:

1. Prevention

- Increase adherence to and introduction of systems and regulations that reduce disaster risks
- Investigate and implement (where appropriate) strategies/initiatives to eliminate or reduce the impact of the effects of hazards on the community through the use of the Emergency Risk Management process.

2. Preparedness

- a. Increase community safety through public awareness, information and education
- Encourage an all agencies, all hazards ethos through the workings of the Local Disaster Management Group
- c. Identify resources to maximise response
- d. Develop contingency plans to address response and recovery issues
- Establish and maintain working relationships with other agencies to increase disaster management capability.

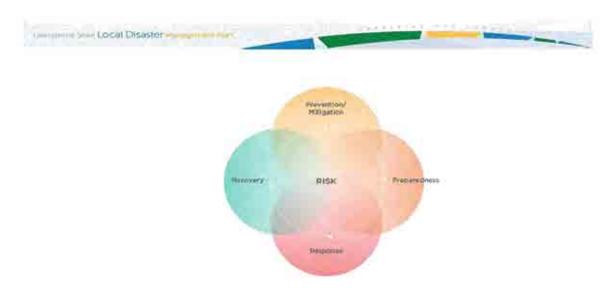
Response

- Efficiently and effectively co-ordinate the response to an event in conjunction with other emergency response agencies (commitment to an all-agencies approach)
- Minimise the impact on the community from a disaster event.

4. Recovery

- a. Adequately provide welfare post event
- Ensure the recovery priorities of the community are met in collaboration with other member agencies of the Livingstone Shire Recovery and Resilience Taskforces, Queensland Reconstruction Authority and the State Recovery Coordinator
- Recovery should include lessons learnt and the focus on resilience building for the Livingstone Shire.

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The four objectives and framework are designed to work in unison and manage risks associated with community safety. Application of the framework is the shared responsibility of the community, local business and government.

3.3 Strategic Policy Statement

Disaster management and operations in the Livingstone Shire are consistent with the Disaster Management Strategic Policy Statement. This is achieved by:

- Ensuring a comprehensive, all hazards, all agency approach by achieving the right balance of prevention, preparedness, response and recovery
- Supporting the mainstreaming of disaster preparedness and mitigation into relevant areas of activity of government, non-government, small business and corporations
- Aligning disaster risk reduction, disaster mitigation, disaster resilience and climate change adaptation policy and actions with international and national reforms
- Promoting a transparent, systematic and consistent approach to disaster risk assessment and management, based on the Australian/New Zealand Standard AS/NZS ISO 31000:2009 Risk Management – Principles and Guidelines
- Recognising the commitment of stakeholders and the need for collaboration across all levels of government, community, industry, commerce, government owned corporations, private and volunteer organisations, and local communities in all aspects of disaster management
- Emphasising building and maintaining sincere relationships, trust, teamwork, consultative decision-making and shared responsibilities among stakeholders
- Promoting community resilience and economic sustainability through disaster risk reduction.

http://www.disaster.gid.gov.au/dmp/Documents/Strategic-Policy-Statement.pdf#search=strategic%20policy%20statement

3.4 Disaster Management Priorities

The priorities for the LDMG are to:

 Develop and maintain a LDMG membership who are appropriately qualified, and able to contribute to meeting the functions of the LDMG

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- Develop and maintain an effective Recovery and Resilience framework to build resilience in all environments
- Review and implement Local Sub Committees to meet identified hazards
- 4. Write, review and exercise Local Plans to ensure effective disaster management
- 5. Develop and maintain effective local community communication strategies
- Evaluate the relevance of, and where necessary implement State recommendations including Inspector General Emergency Management (IGEM), and Commission of Inquiry recommendations
- Identify resilience activities that will help safeguard Livingstone Shire for long term well being (Queensland Strategy for Disaster Resilience 2017).

3.5 Review and Renew Plan

This plan is to be reviewed at least once annually as per section 59 of the Act. The review is to examine the effectiveness of the plan based on activation, exercise or recommendations from interested parties, Reviews are to be conducted by the District Disaster Management Group (DDMG), IGEM and LDMG.

When a review identifies a need to amend the plan such amendments are to be developed by the LDMG and submitted to the Livingstone Shire Council for adoption as soon as possible after the need for amendment has been identified.

The Livingstone Shire LDMG, LDC is to ensure that the contact lists in this plan, sub-plans, and Standard Operating Procedures (SOP) are checked for accuracy and updated appropriately each six months.

3.6 Inspector-General Emergency Management (IGEM)

The role of Inspector-General Emergency Management (IGEM) was first established in 2013 following a review of police and community safety. The IGEM role was formalised as a statutory position in 2014. The functions of the IGEM and the Office of the IGEM are prescribed in part 1A of the Act.

The vision of IGEM is to be a catalyst for excellence in emergency management so as to enable confidence in Queensland's emergency management arrangements. IGEM is responsible for providing the Premier, Government and people of Queensland an assurance of public safety, through the establishment and implementation of an assurance framework. This framework will direct, guide and focus work of all agencies, across all tiers of Government to the desired outcomes of the disaster and emergency management arrangements for Queensland.

Key accountabilities for the Office of the IGEM include::

- Reviewing and assessing the effectiveness of disaster management arrangements within Queensland
- Reviewing and assessing cooperation between entities responsible for disaster management in the State, including whether disaster management systems and procedures employed by those entities are compatible and consistent
- Establishing standards for disaster management, reviewing and assessing performance against these standards and regularly reviewing the standards
- Monitoring compliance by Queensland government departments with their disaster management responsibilities
- Identifying and improving disaster and emergency management capabilities, including volunteer capabilities and opportunities for cooperative partnerships
- Reporting to and advising the Minister of Police, Fire and Emergency Services about issues relating to these functions,

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3.7 Emergency Management Assurance Framework

The Emergency Management Assurance Framework (EMAF) is a commitment by Queensland's disaster management stakeholders to position Queensland as the most disaster resilient State in Australia.

The framework supports accountability and builds consistency across all levels of the disaster management arrangements and reinforces a shared responsibility for delivering better disaster management outcomes for the community.

The framework, the first of its kind in Queensland, promotes an end-to-end approach to the continual improvement of disaster management effectiveness and will enable a statement of confidence in Queensland's disaster management arrangements. Developed in collaboration with disaster management practitioners, the framework provides a standard that can be applied by all Queensland disaster management stakeholders to ensure their legislative responsibilities are met and that disaster management programs are effective, aligned with good practice, encourage the best use of resources and meet the needs of Queensland communities.

3.8 Queensland Reconstruction Authority

In response to the disaster events, the Queensland Government established the Queensland Reconstruction Authority (QRA) under the Queensland Reconstruction Act 2011. The QRA's role was later expanded to include the administration of prior and subsequent events and it was made a permanent part of the Queensland Government in June 2015. The QRA's vision is to build a more disaster-resilient Queensland.

The QRA manages and coordinates the Government's program of infrastructure reconstruction within disaster-affected communities. The QRA focuses on working with state and local government partners to deliver value for money and best practice expenditure and acquittal of public reconstruction funds. The QRA is also the lead agency responsible for disaster recovery, resilience and mitigation policy.

http://gldreconstruction.org.au/

3.9 Acronyms and Abbreviations

ABC	Australian Broadcasting Corporation	
AEMI	Australian Emergency Management Institute	
AIIMS	Australian Inter-service Incident Management System	
AHD	Australian Height Datum	
ARI	Average Recurrence Interval	
ВоМ	Bureau of Meteorology	
CALD	Culturally and Linguistically Diverse Community Organisations	
CEO	Chief Executive Officer of Livingstone Shire Council	
DACC	Defence Aid to Civil Community	

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DDC	District Disaster Co-ordinator	
DDMG	District Disaster Management Group	
DDMP	District Disaster Management Plan	
DM	Disaster Management	
DMG	Disaster Management Group	
DNRM	Department of Natural Resources and Mines	
DCDSS	Department of Communities, Disability Services and Seniors	
DSITI	Department of Science, Information Technology and Innovation	
DTMR	Department Transport and Main Roads	
ЕМА	Emergency Management Australia	
HAT	Highest Astronomical Tide	
ICC	Incident Co-ordination Centre	
IGEM	Inspector General Emergency Management	
IMT	Incident Management Team	
GIS	Geographical Information System	
Guardian	Incident Management System for the co-ordination of an event at Livingstone Shire Council	
LDC	Local Disaster Co-ordinator	
LDCC	Local Disaster Co-ordination Centre	
LDMG	Local Disaster Management Group	
LDMP	Local Disaster Management Plan	
LS	Livingstone Shire	
LSC	Livingstone Shire Council	
MSQ	Maritime Safety Queensland	
NDRRA	Natural Disaster Relief and Recovery Arrangements	
NPRSR	National Parks, Recreation, Sport and Racing	
PPRR	Preparation, Preparedness, Response and Recovery	
PSPA	Public Safety Preservation Act 1986	
QAS	Queensland Ambulance Service	
QDMA	Queensland Disaster Management Arrangements	

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QDMC	Queensland Disaster Management Committee	
QFES	Queensland Fire and Emergency Services	
QPS	Queensland Police Service	
DAF	Department of Agriculture and Fisheries	
QPWS	Queensland Parks and Wildlife Service	
QR	Queensland Rail	
QRA	Queensland Reconstruction Authority	
RFB	Rural Fire Brigade	
RSPCA	Royal Society for the Prevention of Cruelty to Animals	
SDCC	State Disaster Co-ordination Centre	
SDMP	State Disaster Management Plan	
SDRA	State Disaster Relief Arrangements	
SES	State Emergency Service	
SEWS	Standard Emergency Warning System	
SLSQ	Surf Life Saving Queensland	
SOP	Standard Operating Procedure	
тс	Tropical Cyclone	
The Act	Disaster Management Act 2003	
The Regulation	Disaster Management Regulation 2014	
YPCS	Yeppoon Public Cyclone Shelter	

3.10 Definitions and Glossary of Terms

AHD	The Australian Height Datum is a geodetic datum for altitude measurement in Australia.	
All Hazards Approach	The all hazards approach concerns arrangements for managing variety of possible effects of risks and emergencies. This concept useful to the extent that a large range of risks can cause simproblems and such measures as warning; evacuation; medical service and community recovery will be required during and follow emergencies. (Source EMA, 2009)	
All Agencies Approach	All agencies should be involved to some extent in emergency management. The context of emergency management for specific agencies varies and may include:	

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	(a) ensuring the continuity of their business or service (b) protecting their own interests and personnel (c) protecting the community and environment from risks arising from the activities of the organisation (d) protecting the community and environment from credible risks. (Source EMA, 2009)	
Community	A group of people with a commonality of association and generally defined by location, shared experience, or function, (Australian Emergency Management Glossary, 1998)	
Consequence	The outcome of an event or situation expressed qualitatively or quantitatively, being a loss, injury, disadvantage, or gain. (Australian Emergency Management Glossary, 1998)	
Co-ordination	Co-ordination refers to the bringing together of organisations to ensure effective disaster management before, during and after an event. It is primarily concerned with the systematic acquisition and application of resources (people, material, equipment etc.) in accordance with priorities set by Disaster Management Groups. Co-ordination operates horizontally across organisations and agencies.	
Co-ordination Centre	A centre established as a centre of communication and co-ordination during disaster operations.	
Council	In this plan Council means the Livingstone Shire Council.	
Declaration of Disaster Situation	A District Disaster Co-ordinator for a Disaster District may, with the approval of the Minister, declare a Disaster Situation for the District or part of it, if satisfied of a number of conditions as set out in Part 4 section 64 Declaration - Provisions for Declaration of a Disaster Situation. (Disaster Management Act 2003)	
Disaster	A serious disruption in a community, caused by the impact of an event, that requires a significant co-ordinated response by the State and other entities to help the community recover from the disruption. (s13(1) Disaster Management Act 2003)	
Disaster Management Arrangements to manage the potential adverse effects including, for example, arrangements for mitigating preparing for, responding to and recovering from a disaste (s14 Disaster Management Act 2003).		
Disaster Management Act 2003	Queensland Government legislation to provide for matters relating	
Disaster Management (DM) Portal	The Queensland Disaster Management Portal provides a mechanism to allow the sharing of information on disaster management and is a information service for the disaster management community.	
Disaster Management Regulation 2014	Enhance the efficiency of disaster management governance by allowing membership, meeting requirements and appointments of	

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	the Disaster Management Regulation 2014 (Regulation).	
Disaster Operations	Activities undertaken before, during or after an event happens to help reduce loss of human life, illness or injury to humans, property loss of damage, or damage to the environment, including, for example activities to mitigate the adverse effects of the event. (Disaster Management Act 2003, S15)	
Disaster Response Capability (Local Government)	The ability to use Local Government resources, to effectively deal with or help another entity to deal with, within the capacity of the Local Government an emergency situation or a disaster in the local government's area. (s80(2) Disaster Management Act 2003)	
District Disaster - (DDC)	The role of the District Disaster Co-ordinator, in addition to other duties, is the responsibility for co-ordinating support in the Disaster District for the DMG. The role of the DDC is specified in s26 Disaster Management Act 2003.	
Emergency Management Assurance Framework	Developed by the Office of the Inspector-General Emergency Management in accordance with section 16C Disaster Management Act 2003 to provide the foundation for guiding and supporting the continuous improvement of entities disaster management programs. It also provides the structure and mechanism for reviewing and assessing the effectiveness of Queensland's disaster management arrangements.	
Emergency Situation	Under section 5 Public Safety Preservation Act, if at any time commissioned officer of the Queensland Police Service (the emergencommander) is satisfied on reasonable grounds that an emergency situation has arisen or is likely to arise, the commissioned officer madeclare that an emergency situation exists in respect of an are specified by the commissioned officer.	
Event	An event means any of the following: a) A cyclone, earthquake, flood, storm, storm tide, tornado, tsunami, volcanic eruption or other natural happening; b) Bushfire, an explosion or fire, a chemical, fuel or oil spill, or a gas leak; c) An infestation, plague, or epidemic; d) An attack against the State; or e) Another event similar to the above events. An event may be natural or caused by human acts or omissions (s16) (1) and (2) Disaster Management Act 2003).	
Flooding	Flash flood - Flash floods occur when soil absorption, runoff or drainage cannot adequately disperse intense rainfall. The most frequent cause of flash flooding is from slow-moving thurderstorms. These systems can deposit extraordinary amounts of water over a small area in a very short time. Flash floods are extremely dangerous weather events as water in creeks, drains and natural watercourses can rise very rapidly.	
	Local flooding - an intense burst of rainfall over a short period of time may cause excessive run-off that builds up in a relatively small area and causes localised flooding. Inundation is expected to last only for a	

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	limited period of time, around one to two hours.	
	Regional flooding - continuous heavy rainfall across a number of large catchments within the region's flood plains. It may take between one and two days for these floodwaters to subside.	
	Riverine flooding - similar to regional flooding but on a larger scale.	
Hazard	A source of potential harm, or a situation with a potential to cause loss. (Emergency Management Australia 2004)	
Incident	Day to day occurrences, being an emergency or sudden event accidentally or deliberately caused which requires a response from one or more emergency response agencies by itself or in cooperation with other response agencies.	
Incident Co- ordination Centre / Field Co-ordination centre	Location or room from which response operations are managed for emergency incidents or situations.	
Mitigation	Measures taken in advance of a disaster aimed at decreasing or eliminating its impact on society and environment. (Australian Emergency Management Glossary, 1998)	
Natural Disaster Relief & Recovery Arrangements (NDRRA)	NDRRA provide a cost sharing formula between the State and Commonwealth Governments as well as a package of pre-agreed relief and recovery measures that may be activated by the Queensland Government on a needs basis.	
NDRRA Activation	The QRA is responsible for administering Counter Disaster Operations and Restoration of essential public assets. Relief measures which can be applied for by Local Government Authorities and State Government agencies. https://www.disasterassist.gov.au/Documents/Natural-Disaster-Relief-and-Recovery-Arrangements/NDRRA-determination-2017 PDF	
Planning	Development of systems for co-ordinating disaster response an establishing priorities, duties, roles and responsibilities of differer individuals and organisations, including actual state of preparedness.	
Preparedness	Measures to ensure that, should an emergency occur, communities, resources, and services are capable of coping with the effects. (Australian Emergency Management Glossary, 1998).	
Prevention	Measures to eliminate or reduce the incidence or severity of emergencies. (Australian Emergency Management Glossary, 1998)	
Public Safety Preservation Act 1986	An Act to provide protection for members of the public in terrorist, chemical, biological, radiological or other emergencies that create or may create danger of death, injury or distress to any person, loss of or damage to any property or pollution of the environment and for related purposes.	

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	Actions taken to re-establish a community after a period of	
Reconstruction	rehabilitation subsequent to a disaster. Actions would include construction of permanent housing, restoration of all services, and complete resumption of the pre-disaster state. (Australian Emergency Management Glossary, 1998)	
Recovery	The co-ordinated process of supporting emergency affected communities in reconstruction of the physical infrastructure and restoration of emotional, social, economic, and physical wellbeing. (Australian Emergency Management Glossary, 1998)	
Rehabilitation	The operations and decisions taken after a disaster with a view to restoring a stricken community to its former living conditions, whilst encouraging and facilitating the necessary adjustments to the changes caused by the disaster.	
	(Australian Emergency Management Glossary, 1998)	
Relief	The provision of immediate shelter, life support and human needs of persons affected by, or responding to, an emergency. It includes the establishment, management and provision of services to emergency relief centres. (Australian Emergency Management Glossary, 1998)	
Residual Risk	The level of risk remaining after implementation of a risk treatment. (AS/NZS 4360:2004)	
Resilience	A measure of how quickly a system recovers from failures. (EMA Thesaurus accessed August 2009)	
Response	Measures taken in anticipation of, during and immediately after an emergency to ensure its effects are minimised. (Australian Emergency Management Glossary, 1998)	
Resources	Includes people, personnel or staffing, food, any animal, vehicle, vessel, aircraft, plant apparatus, implement, earthmoving equipment, construction equipment, or other equipment of any kind or any means of supplying want or need.	
Risk	The chance of something happening that may have an impact on the safety and wellbeing of your community. It includes risk as an opportunity as well as a threat and is measured in terms of consequences and likelihood. (Adapted from AS/NZS ISO 31000:2009)	
Risk Identification	The process of identifying what can happen, why, and how. (Australia Emergency Management Glossary, 1998)	
Risk Management	The culture, processes, and structures that are directed towards realising potential opportunities whilst managing adverse effects. (AS/NZS ISO 31000:2009)	
Risk Reduction	Actions taken to lessen the likelihood, negative consequences, or both, associated with a risk. (AS/NZS ISO 31000:2009)	
Risk Treatment	Process of selection and implementation of measures to modify risk (AS/NZS ISO 31000:2009)	

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Serious Disruption	Serious disruption means: (a) Loss of human life, or injury or illness (b) Widespread or severe property loss or damage (c) Widespread or severe damage to the environment (s13 (2) Disaster Management Act 2003)	
State Disaster Relief Arrangements	and covers natural and non-natural disaster	
Vulnerability Degree of loss which could result from a potenti phenomenon, or the extent to which a country, area, structure risks being damaged by a disaster. The su resilience of the community and environment to hazards.		

PART 4. ROLE OF LOCAL GOVERNMENT

The Disaster Management Act 2003 details a range of functions and responsibilities for local government to ensure that it meets its statutory obligations. Section 80 of the Act requires local government to undertake the following functions:

- 1. To ensure it has a disaster response capability
- 2. To approve its local disaster management plan prepared under part 3 of the Act
- To ensure information about an event or a disaster in its area is promptly given to the district disaster co-ordinator for the district in which its area is situated
- 4. To perform other functions given to the local government under the Act.

In addition to these functions; section 29 of the Act specifies that local government must establish a LDMG for the local government's area.

PART 5. LOCAL DISASTER MANAGEMENT GROUP (LDMG)

5.1 Establishment

The Livingstone Shire Local Disaster Management Group is established in accordance with s29 of the Act.

"A local government must establish a Local Disaster Management Group (local group) for the local government's area".

5.2 Functions of a Local group

Section 30 of the Act, prescribes a range of functions to be performed by the local group. These functions are to:

 Ensure disaster management and disaster operations in the area are consistent with the state group's strategic policy framework for disaster management for the state

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- Develop effective disaster management, and regularly review and assess the disaster management
- 3. Help the local government for its area to prepare a local disaster management plan
- Identify and provide advice to the relevant district group about support services required by the local group to facilitate disaster management and disaster operations in the area
- Ensure the community is aware of ways of mitigating the adverse effects of an event, and preparing for, responding to and recovering from a disaster
- Manage disaster operations in the area under policies and procedures decided by the State Disaster Management Group
- Provide reports and make recommendations to the relevant district group about matters relating to disaster operations
- Identify and co-ordinate the use of resources that may be used for disaster operations in the area
- Establish and review communication systems in the group, and with the relevant district group and other local groups in the disaster district of the relevant district group, for use when a disaster happens
- Ensure information about a disaster in the area is promptly given to the district group
- 11. Perform other functions given to the group under the Act
- Perform a function incidental to a function mentioned in paragraphs above.

5.3 Membership

Section 33 of the Disaster Management Act 2003 states a local group consists of the persons prescribed by regulation to be members of the group. Members of the LDMG have been appointed by the LSC in accordance with s9 of the Disaster Management Regulation 2014 (the Regulation).

In appointing people to the Local Group, LSC has sought to select representatives from those agencies and organisations representing Livingstone Shire who:

- Have a key role in responding to disaster or emergency situations
- 2. The qualifications and experience required
- Manage key assets
- 4. Provide essential community services
- 5. Be able to provide deputies and liason officers to ensure succession planning.

Membership of the Group will be reviewed annually by the LDC in consultation with the Chair of the Group. The Chief Executive of the Department and the Rockhampton District Disaster Co-ordinator (DDC) will be advised of the membership of the Group as per the requirements of \$37 of the Act.

In addition to its members, the Local Group may seek the assistance of individuals or organisations as circumstances require. These persons sit as advisors to the group. They will receive copies of the agendas and minutes and can attend and participate in meetings and discussions as required but do not have voting rights on decisions.

5.4 Chair and Deputy Chair

Under s34 of the Act and s10 of the Regulation the LSC appoints a councillor of the LSC as chair of the LDMG. Council has appointed Cr Bill Ludwig, who is the Mayor of the LSC as the chair of the LDMG.

Under the same legislation Council also has to appoint a deputy chair and has appointed Cr Nigel Hutton as the Deputy Chair of the Livingstone Shire LDMG.

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5.4.1 Functions of Chair of Local Group

Section 34A of the Act identifies that the chairperson of a local group has the following functions-

- To manage and co-ordinate the business of the group;
- To ensure, as far as practicable, that the group performs its functions;
- c) To report regularly to the relevant district group, and the chief executive of the department, about the performance by the local group and its functions.

5.5 Local Disaster Co-ordinator

In accordance with section 35 of the Act, the Chair of the LDMG must, after consultation with the Commissioner, QFES, appoint a LDC for the group. A person may only be appointed as a LDC if the Chair is satisfied that the person has the necessary experience or expertise to perform the functions of the LDC.

The LDC is supported by the Deputy Local Disaster Co-ordinator. The Chairperson has appointed the Manager, Disaster Management and Resilience as the Local Disaster Co-ordinator and the Director, Community Wellbeing as the Deputy Local Disaster Co-ordinator.

Section 143(8) states that the LDC may delegate the co-ordinator's functions under s36 to an appropriately qualified person.

Section 143(9) notes appropriately qualified includes having the qualifications, experience or standing appropriate to exercise the power.

5.6 Functions of Local Disaster Co-ordinator

Section 36 of the Act states that the LDC has the following functions;

- To co-ordinate disaster operations for the local group;
- To report regularly to the local group about disaster operations;
- To ensure, as far as practicable, that any strategic decisions of the local group about disaster operations are implemented.

5.7 Members of the Local Group

In undertaking their normal LDMG responsibilities, members should ensure they:

- Attend LDMG activities with a full knowledge of their agency resources and services and the expectations of their agency
- Are available and appropriately briefed to actively participate in LDMG activities to ensure that plans, projects and operations use the full potential of their agency or function, while recognising any limitations
- Are appropriately positioned within their agency to be able to commit agency resources to LDMG normal business activities
- Have a deputy who is appropriately trained to take on their responsibilities should they be unavailable, or, to provide additional support during extended operations
- 5. Members must be nominated by their agency on the LDMG Membership Appointment Form
- Contribute to Disaster Management Planning and reviews of Local Disaster Management Plan, Sub Plans and SOPs
- 7. Understand the LDMG is made of agencies that share the responsibility
- Members of the LDMG are to ensure succession planning and nominate a deputy and liaison officer
- 9. Contribute to the community engagement and operational plan of the LDMG.

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LDMG Group members should maintain a state of readiness for activations by:

- Maintaining current contact registers for LDMG members
- 2. Maintaining copies of the LDMP and supporting documentation, as appropriate
- Ensuring resources are available to participate in disaster operations, i.e. access to a laptop, information management templates, operational checklists, telecommunications and human resource provisions
- Being appropriately positioned within each agency to be able to commit agency resources to LDMG operational activities
- 5. Participating in disaster management exercises and training opportunities.

In order to be effective during operations, LDMG member administration and activation processes should include:

- Immediately informing their agency of the LDMG's activation and reinforcing their role as the designated single point of contact between the LDCC and their agency
- Maintaining a close liaison with all members of the LDMG including participating in briefings/meetings of the LDMG and operating from the LDCC as required
- When possible, assessing the likelihood of extended operations and the possible need to implement LDMG member relief arrangements
- Ensuring appropriate agency specific disaster cost management arrangements are established quickly and utilised effectively, including the collation of financial documentation to ensure costs are captured for reimbursement, where eligible.

All members must have undertaken the required training as identified in the Queensland Disaster Management Training Framework.

5.8 Deputy Members of the Local Group

Members of the LDMG are to identify a Deputy who is able to attend local group meetings or take on the duties of the member in their absence or unavailability. A person who is a deputy member should have the necessary expertise and experience to fulfil the role of member of the local group if required.

Deputy Members must be nominated by their agency on the Authorisation to Appoint a Deputy Form. Section 14 of the Regulation identifies that:

- A member of a disaster management group may, with the approval of the chairperson of the group, appoint by signed notice another person as the person's deputy.
- b) The deputy may attend a group meeting in the member's absence and exercise the member's functions and powers under the Act at the meeting.
- A deputy attending a group meeting is to be counted in deciding if there is a quorum for the meeting.

5.8.1 Members of the Livingstone Local Disaster Management Group

The Livingstone Shire LDMG has recognised that all members have agreed roles and responsibilities,

Membership of the group shall mean and include any person acting in the capacity of an appointed member. As at the time of publication, the Livingstone Shire LDMG members include, but are not limited to the following:

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Agency	Responsibility
Livingstone SHIRE COUNCIL LDMG Executive Positions	Chair: Mayor, Livingstone Shire Council Deputy Chair: Deputy Mayor, Livingstone Shire Council Local Disaster Co-ordinator: Manager, Community Wellbeing, Livingstone Shire Council Deputy Local Disaster Co-ordinator: Director, Community and Wellbeing, Livingstone Shire Council
Livingstone	Chief Executive Officer
Queensland Police Service	Officer in Charge, Yeppoon Station
FORE A RESCUE	Area Commander - Rural Fire Service Local Controller - SES Capricornia Area Controller - SES Emergency Management Co-ordinator - QFES
Queensland Ambulance Service	Officer in Charge, Yeppoon Station

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Queensland Government Queensland Health	Emergency Preparedness Manager, Rockhampton Hospital
Queensland Government Department of Communities, Disability Services and Seniors	Manager Community Recovery (CQ)
Queensland Government Department of Education and Training	Manager, Infrastructure Services
Queenstand Government Department of Transport and Main Roads	Engineer
ERGON	Project Manager - Project Services

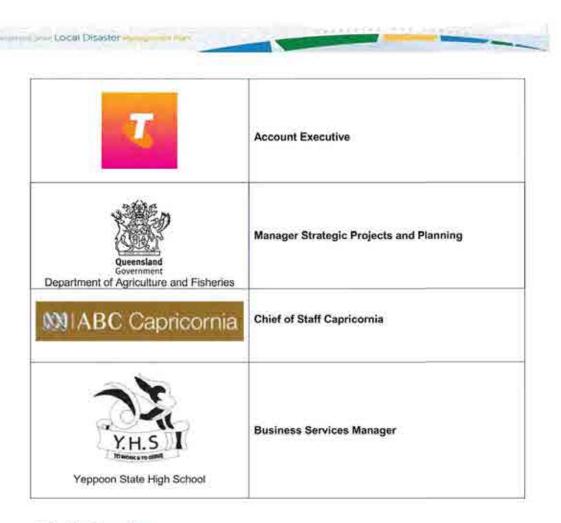
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Queensland Government Maritime Safety Queensland	Manager, Port Operations and Projects
MERCY HEALTH and AGED CARE Central Queensland Limited	Corporate Safety Risk & Compliance Officer
CAPRICORN HEUCOPTER RESCUE	Executive Director
STRAL PROPERTY OF THE PROPERTY	ТВА
COAST GUATIO	Deputy Squadron Commodore, Yeppoon
QUEENSLAND	Regional Operations Manager

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5.9 Sub Committees

Sub committees are responsible for assisting the LDMG to discharge its responsibilities, especially with regard to the preparation or implementation of specific plans. The Chairs of the Sub Committees are advisory members of the LDMG (unless previously identified as a core member) and are required to submit updates of their planning and activities to the LDMG during meetings. The process of the specific threat and/or task can be planned for ahead of the season, limiting the potential for disruptions in the decision making process and to allow for community awareness around the plans to be implemented.

Currently, the Livingstone Shire LDMG has the following sub committees:

- 1. Bushfire Sub Committee (Fire Management Group)
- 2. Evacuation Sub Committee
- 3. Evacuation Centre Management Sub Committee
- 4. Public Cyclone Shelter Sub Committee

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- 5. Recovery and Resilience Sub Committee including:
 - Regional and Economic DevelopmentTaskforce
 - Environment and Regulatory Taskforce
 - c. Built Environment Taskforce
 - d. Community Development Taskorce.

5.10 Roles and Responsibilities

State government agencies and organisations have designated responsibilities in disasters which reflect their legislated and/or technical capability and authority with respect to hazards, functions and/or activities of disaster management.

This list is not exhaustive; it focuses on the roles and responsibilities. Importantly, this list aims to ensure, from a whole-of-government perspective, that all accountabilities of the State government with respect to disaster management have been addressed.

Note: Roles and Responsibilities are to be regarded as indicative only

Agency	Roles & Responsibilities
Lowfurbour Section of the Lower Managiment Group	 functions as allocated to the group under s30 of the Act; development of comprehensive local disaster management planning strategies; the development and maintenance of disaster management plans and sub plans; design and maintenance of a public education/awareness program, which is delivered through member agency resources; co-ordination of support to response agencies; reconnaissance and impact assessment; provision of public information prior to, during and following disaster events; recommended areas/locations to be considered for authorised evacuation; public advice regarding voluntary evacuation; identification, resourcing, staffing, management and operation of evacuation centres; provision of locally based community support services; and design, maintenance and operation of the LDCC, including the training of sufficient personnel to operate the centre.
Livingstone	 management, support, policy advice and co-ordination of the business of the Livingstone Shire LDMG and its subgroups; ensure it has a disaster response capability; approve its Local Disaster Management Plan (LDMP); ensure information about an event or a disaster in its area is promptly given to the District Disaster Co-ordinator (DDC); provide Council resources necessary to meet statutory obligations; manage damage assessment on behalf of the LDMG; provide and manage resources to support evacuation centres; ensure business continuity of all Council services during and following event; support the SES in partnership with OFES; identification, development, maintenance and operation of a LDCC at a primary location and maintenance of alternative locations; identification and delivery of training and staffing required to operate the LDCC:

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Agency	Roles & Responsibilities				
Livingstone	 co-ordination of disaster operations by the Local Disaster Co-ordinator(LDC) through the LDCC for the Livingstone Shire LDMG ensuring that strategic decisions of the Local Group are implemented; co-ordination of immediate community support and recovery needs in conjunction with DCCSDS, including the management and operation of evacuation or temporary relocation centres; assist the community to prepare for, respond to and recover from an event or disaster; issue of public information or warning about disaster situations in accordance with LDMP; provide advice and support to the DDC; development and maintenance of prevention and mitigation strategies such as Land Use Planning and Capital Works programs; development and maintenance of a co-ordinated disaster response capability; maintenance of Council essential services to the community including: animal control; civic leadership; community contact and information provision; disaster and Emergency Management; environmental protection; maintenance (including debris clearance) of local roads and bridges; and public health. 				
Queensland Police Service	 primary agency for counter-terrorism; provide management at district level within the Queensland Disaster Management Framework (QDMF); evacuation co-ordination (including off shore islands); responsible for the Evacution Sub Plan; manage the register of evacuated persons in association with the Australian Red Cross; assist in the management of the Yeppoon Cyclone Shelter; provide information, advice and updates to LDMG as required; provide liaison officers to the LDCC; assisting the community to prepare for, respond to and recover from an event or disaster; preservation of peace and good order; investigation of criminal activities; undertake coronial investigations; prevention of crime; crowd control/public safety; traffic control, including assistance with road closures and maintenance of road blocks in consultation with other agencies; co-ordination of search and rescue; security of evacuated areas/premises; issue of "mandatory" evacuation orders; traffic Incidents; control of incident/impact site/s; co-ordinate rescue of trapped/stranded persons; security of specific areas; control of disaster victim identification and emergency mortuary facilities where required; tracing of persons; augmenting emergency communication; 				

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Agency	Roles & Responsibilities
Queensland Police Service	stock control movement; assistance, on request, with stock and infected material tracing; assistance with stock destruction; mass incident response unit; special emergency response team; negotiators; public safety response team; explosive ordinance response team; dog squad; state crime operations command; security intelligence branch; and
Queensland Fire and Emergency Services	co-ordinate and control search operations. OFES - Fire primary agency for bushfire; primary agency for chemical/hazardous materials related incidents; assiting the community to prepare for, respond to and recover from an event or disaster; fire control and prevention; specialist urban search and rescue; specialist rescue — Confined Space, High Angle and Swift Water Rescue; assist in the management of the Yeppoon Cyclone Shelter; provide information, advice and updates to LDMG as required; provide impact assessment and intelligence gathering capabilities; provide logistical and communication support to disasters within capabilities; provision of advice and communication with the LDC and DDC about the operations of the Incident Command Centre (ICC) and Regional
	Operations Centre (ROC): request and provide assistance through the LDCC as required during disaster operations; rapid damage assessment capabilities; management of hazardous material situations; provision of expert advisory services on chemicals and hazardous materials through the Scientific Unit; development of fire prevention and mitigation strategies and response plans; provide control, management and pre-incident planning of fires (structural, landscape and transportation); safety of persons in relation to fire prevention, suppression, response and recovery operations;
	 advice and directions on public safety/evacuation from fire dange zones; assisting the community to prepare for, respond to and recover from an event or disaster e.g. Public education and awareness programs; provide rescue capability for persons trapped in any vehicle, vessel by height or in a confined space; provide rescue of person/s isolated or entrapped in swift water/floor water events; assist in pumping out and clean-up of flooded buildings; and provide mass and technical decontamination capabilities under State Biological Disaster and State Radiological Disaster Response.

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Agency	Roles & Responsibilities
Queensland Fire and Emergency Services	QFES - Emergency Management assist in the management of the Yeppoon Cyclone Shetter, provide information, advice and updates to LDMG as required; provide liaison officers to the LDCC; assist the community to prepare for, respond to and recover from a event or disaster; development and maintenance of LDCC plans and capacity which is able to be activated for events where QFES is the lead agence including training in AIIMS and staffing with sufficient traine personnel to operate the centre; review, assess and report on the effectiveness of disaster management by the State at all levels, including local plans; provision of emergency management officers of co-ordination, policiand operational advice, at all levels of the State's disaster management system, including at the local group; co-ordination of State and Federal assistance for disaster management and operations; facilitation of a comprehensive (prevention/preparedness/response/recovery) - all hazards - all agencies approach to disaster management. perform the following roles and responsibilities in support of disaster operations: operation and maintenance of the State Disaster Co-ordination Centre (SDCC) manage resupply operations oco-ordinate and manage the deployment of SES across the State support the deployment of Queensland Corrective Service resources provision of public information during disaster and emergence situations.
	SES provide management system for SES volunteers; assist in the management of the Yeppoon Cyclone Shelter; provide information, advice and updates to LDMG as required; provide liaison officers to the LDCC; assist the community to prepare for, respond to and recover from a event or disaster; search operations for missing persons (QPS to co-ordinate); provision of emergency lighting; flood boat operations – search and rescue (QPS to co-ordinate); tarping damaged roofs; sandbagging; chainsaw operations (cutting and removing fallen trees or trees at ris of falling); support to agencies/services as required; assistance in community information services; augment emergency communication; assistance in traffic control;

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Agency	Roles & Responsibilities
Queensland Ambulance Service	 assist in the management of the Yeppoon Cyclone Shelter; provide information, advice and updates to LDMG as required; provide liaison officers to the LDCC; collaborate with Queensland Clinical Co-ordination Centre in the provision of paramedics for rotary wing operations; participate in search and rescue, evacuation and victim reception operations; participate in health facility evacuations; collaborate with Queensland Health in mass casualty management systems; provide disaster, urban search and rescue (USAR), chemical hazar (Hazmat), biological and radiological operations support with specialist logistics and specialist paramedics; emergency pre-hospital patient care assessment, treatment and transportation of ill and/or injured persons, selection of triage and treatment areas; co-ordination of all other volunteer first aid groups including QAS first responder groups; the establishment of an on-site triage/treatment area, casualt clearing and vehicle marshalling areas; assistance with the evacuations of persons with medical condition (specialised medical transport including aero-medical transport); and liaison with all other emergency services, local and state government
Queenstand Government Queenstand Health	and non-government agencies. Queensland Health functional lead agency for health response; primary agency for heatwave and pandemic influenza, biological and radiological incidents; provide information, advice and updates to LDMG as required; protect and promote health in accordance with Hospital and Health Boards Act 2011, Hospital and Health Boards Regulation 2012 Health and Public Health Act 2005 and other relevant legislation and regulations; Queensland Health provides a whole-of-health emergency incider management and counter disaster response capability to prevent respond to, and recover from a State declared emergency or disaste event; hospital and health services provide co-ordinated multidisciplinar support for disaster response and recovery including specialist health services and specialist health knowledge representation; provide State representation at the Australian Health Protection Principal Committee; provide clinical and State wide and forensic services support for disaster and response recovery;
Central Queensland Hospital and	promote optimal patient outcomes; provide appropriate on-site medical and health support; clinically co-ordinate aeromedical transport throughout the State. In disaster situation provide staff to the Emergency Helicopter Taskin Cell; and provide health emergency incident information for medicommunications. Central Queensland Hospital and Health Service public health advice and warnings; psychological and counselling services; and co-ordination of medical resources.

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Agency	Roles & Responsibilities
Queensland Government Department of Housing and Public Works	 functional lead agency for Building and Engineering Services; maintain contact registers for. o professional service providers e.g. engineers (geotechnical structural, civil) heritage architects, other professional officer and consultants; o specialist building contractors; service providers; and suppliers and o building services and trade personnel to support regional base disaster response or recovery operations; co-ordinate structural assistance grant assessments (excluding caravans and vessets) on behalf of DCCSDS; provide temporary accommodation solutions and services for impacted members of a community — non-social housing client and/or response/recovery teams; co-ordinate temporary office type accommodation for use by Statingovernment agencies and departments as forward command posts recovery centres, local disease control centres, storage facilities an abilition facilities, including connection of building services; co-ordinate temporary leased accommodation for State government agencies and departments; co-ordinate technical advice on the structural suitability of buildings for use as community evacuation centres, places of refuge or cyclonishelters; other building and engineering services tasks requested by a DDC or the SDCC within the scope of the Building and Engineering Services function; co-ordinate emergency fleet vehicles, functional lead agency of the Building Recovery Group; the Building Recovery Group co-ordinates the efficient and effective information exchange, issue identification and resolution between government agencies, local government, building industry and insurance providers to ensure efficient and prioritised use of available resources in rebuilding dwellings following a disaster; and provide information, advice and updates to LDMG as required.
Queensland Government	 functional lead agency for transport systems; functional lead agency of the Roads and Transport Recovery Group; primary agency for ship-sourced pollution where it impacts, or is likely to impact, on Queensland coastal waters; provide information and advice on the impact of disruptive events or road, rail, aviation and maritime infrastructure as it affects the transport system; enable an accessible transport system through reinstating road, rail and maritime infrastructure;
Department of Transport and Main Roads	 assist with the safe movement of people as a result of mas evacuation of a disaster affected community; ensure the capability of logistics related industries are appropriatel applied to disaster response and recovery activities; advice to road users through 13 19 40 or visit qldtraffic.qld.gov.au and provide information, advice and updates to LDNG as required.

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Agency	Roles & Responsibilities
Queensland covernment Department of Communities, Disability Servies and Seniors	 functional lead agency for the Human and Social Recovery Group; co-ordinate provision of human and social recovery services during recovery operations in partnership with Local, State, Federal and non government agencies; work with affected individuals and communities to support their own recovery activities; maintain linkages with Local, State, Federal and non-government agencies and committees; maintain a register of State government officers available to assist in human and social recovery when required; administer relevant human and social recovery SDRA and NDRRA relief measures; manage and direct offers of volunteering through Volunteering Queensland, disaster relief assistance funding; and provide information, advice and updates to LDMG as required.
ERGON. ENERGY	maintenance of electrical power supply: advice in relation to electrical power; restoration of power supply; safety advice for consumers; clearance of debris from power lines; power isolation where necessary; provide information, advice and updates to LDMG as required; and provide liaison officers to the LDCC,
Telstra	restoration of Telstra services; advice regarding Telstra infrastructure damage; provision of emergency telecommunication equipment; and provide information, advice and updates to LDMG as required.
Queenstand solvement and Fisheries	co-ordination of resources in exotic animal disease outbreaks, detect source of infection; slaughter and disposal of animals and infective agents; evaluation and compensation; control of movement of animals, animal products, vehicles; disinfection/disinfestation; public advice and information; co-ordination of resupply of livestock feed during events; and provide information, advice and updates to LDMG as required.
St John Ambulance	first aid; assist QAS as required with treatment and transport of injured persons; and provide information, advice and updates to LDMG as required.
Australian Red Cross	support the daily operations and management of evacuation centres; Undertake registration of evacuees in support of QPS utilising Register. Find. Reunite. Provide Psychological lirst aid and recovery supports and referrals to disaster affected people provide information, advice and updates to LDMG as required.

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Agency	Roles & Responsibilities					
Organized Department of National Parks,	all issues within parks camping grounds/facilities (including certain of shore islands), and provide information, advice and updates to LDMG as required.					
Recreation, Sport and Racing POAST CHARD Australian Volunteer Coast Guard Association	continuation of core business; provide guidance on safe harboring practices; emergency marine radio broadcasting as requested by LDMG; provide information, advice and updates to LDMG as required; prior to severe weather, conduct patrols to warn anchored yachts an campers; after severe weather, compile a list of missing or drifting vessels; following tsunami, conduct offshore patrols; receive land-based emergency calls on VHF radio and forward to LDCC; and maintain coast watch list.					
Queenstand Government Department of Education and Training	 liaison between agency and LDMG regarding school closures available facilities if identified as needed for evacuation, recovery of sheltering options; support of the operations of the Yeppoon Cyclone Shelter; and provide information, advice and updates to LDMG as required. 					
GREAT BARRIER REEF MARSH PARK AUTHORITY Great Barrier Reef Marine Park Authority	provision of advice specific to the marine environment; provide information, advice and updates to LDMG as required.					
QUEENSLAND Surf Life Saving Queensland	provision of additional resources if required and suitable; public notification and advice on beach/sea condition; provide information, advice and updates to LDMG as required; assist in dissemination of warnings; providing of support that enhances capabilities to the local community, specifically in the areas of: sunami response – preparedness, warnings, response and recovery; cyclone and severe storm response – preparedness, warnings, response and recovery; flood response – preparedness, warnings response and recovery; and other disasters where the LDMG requires assistance – preparedness, warnings, response and recovery; close and evacuate beaches on receipt of warnings in consultation with LDMG; assist in search and rescue from surf zone following impact of tsunami; provision of specialised equipment and personnel if required; and use of facilities if required.					

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PART 6. LDMG BUSINESS AND MEETINGS

In accordance with s38 of the *Disaster Management Act 2003*, the LDMG must conduct its business, including its meetings, in the way prescribed by regulation. Subject to this regulation, a LDMG may conduct its business, including meetings, in the way it considers appropriate.

Section 12 of the Disaster Management Regulation 2014 (the Regulation) requires the LDMG to meet at least once in every six (6) months. The Livingstone Shire LDMG has resolved to meet four (4) times per year.

6.1 Meeting Types

Ordinary Meeting – a meeting which is scheduled and convened on a regular basis at an agreed time (set by the Chairperson). Ordinary meetings are used to address the general business of the group.

Extraordinary Meeting – a special meeting convened by the Chairperson in response to an operational event. An event would generate its own meeting file for audit purposes. Meeting minutes, attendance sheets and resolution statements must be included in the event file.

6.2 Conduct of LDMG Meetings

Location: The Hub, 7-9 James Street, Yeppoon Duration: typically 2 to 3 hours (normal business)

Chaired by: Mayor Bill Ludwig, in his absence Deputy Chair Cr Nigel Hutton

A date claimer is sent via email to core, advisory and deputy LDMG members well ahead of the next meeting. If any members intend to propose an agenda item, they email the Secretariat who will confirm its inclusion in consultation with the LDC and Chair. The agenda is drafted and forwarded to the LDC and Chair for approval. It is forwarded with the previous meeting's minutes to LDMG members two weeks before the upcoming meeting.

Minutes of such meetings are maintained in accordance with the requirement of the Act. Copies of the minutes are available on request for members and advisors by contacting the Secretariat of the LDMG.

6.3 Quorum

A quorum is required in order for meeting resolutions to be officiated. LDMG members are required to achieve quorum, which, in accordance with s13 of the Regulation, is equal to one-half of its members holding office plus one, or when one-half of its members is not a whole number, the next highest whole number. For example, if the LDMG comprises Ten (10) members, a meeting is deemed to have achieved quorum if six (6) LDMG members are present.

An attendance sheet is to be completed at the commencement of each LDMG meeting to record member attendance and ensure the meeting has a quorum. This attendance sheet also forms part of the meeting minutes.

If it is anticipated that a scheduled meeting will not achieve quorum, the Chairperson may:

 proceed with the meeting - allow members to participate remotely using technology (see member attendance at meetings below);

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- proceed with the meeting endorse any proposed resolutions via a flying minute (see section "Flying minute");
- reschedule the meeting preferred if there are proposed agenda items requiring discussion or endorsement:
- cancel the meeting whilst not the preferred option, subject to legislative requirements
 regarding minimum annual meetings the Chairperson may cancel a meeting if the proposed
 agenda items can be held over until the next scheduled meeting; or
- if the meeting is cancelled or rescheduled, progress the business via a flying minute this
 option allows progression of any urgent agenda items whilst not requiring a physical meeting of
 the LDMG.

6.4 Member attendance at meetings

LDMG's are encouraged under s17 of the Regulation to hold meetings, or allow members of the group to take part in its meetings, by using any technology that reasonably allows members to hear and take part in discussions as they happen. Accordingly, members may attend meetings via teleconference or video conference if appropriate. A member who takes part in a LDMG meeting via teleconference or video conference is taken to be present at the meeting and should be marked on the attendance sheet.

6.5 Member non-attendance at meetings

If a member continually does not attend LDMG meetings it is suggested that the LDMG Executive Team meet with the member to discuss the ongoing non-attendance at LDMG meetings. A formal record of LDMG member attendance should be maintained and this can be used to monitor member attendance across meetings.

A template to monitor progressive meeting attendance is available in Annexure H - Local Disaster Management Group Forms.

6.6 Deputy appointment

Section 14 of the Regulation allows a member of a disaster management group, with the approval of the Chairperson, to appoint by signed notice another person as their deputy. A template for a member of a LDMG to appoint a person as their deputy is available in *Annexure of Authorisation to appoint a deputy*.

The deputy may attend a group meeting in the member's absence and exercise the member's functions and powers under the Act at the meeting. A deputy attending a group meeting is to be counted in deciding if there is a quorum for the meeting.

6.7 Flying Minute

Section 16 of the Disaster Management Regulation allows for resolutions to be made by the LDMG, even if not passed at a LDMG meeting, if the majority of members provide written agreement to the resolution and if notice of the resolution is given under procedures approved by the LDMG. A flying minute may be used to progress business of an urgent nature in the instance where

convening a meeting of the LDMG is not practicable.

Some guidelines for the use of flying minutes are:

 a flying minute should detail necessary background on the matters being raised and should clearly articulate recommendations for LDMG members' consideration;

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- the flying minute should contain a section for members to complete and indicate whether they
 agree or disagree with the proposed resolution;
- a LDMG Briefing Paper on the issue should accompany the flying minute endorsement schedule, as it provides in-depth information on the matter which is being considered;
- a LDMG Agenda listing the item/s should also be attached;
- as flying minutes are only used for urgent business, they may be conducted via email; and
- proposed resolutions passed by members via a flying minute are to be included for ratification on the next ordinary LDMG meeting agenda.

Templates for LDMG flying minute, LDMG briefing paper and LDMG agenda are available in Annexure H - Local Disaster Management Group Forms.

6.8 Reporting

6.8.1 Member Status Reports

Written member status reports on behalf of the member agency are used to update LDMG members on the status of the member agency's disaster management initiatives. This report aligns with the shared responsibility of the IGEM Assurance Framework and includes mitigation, planning and community awareness/education activities, capacity and capability development, projects, disaster management plans, operations and contact information. This information assists the LDMG to evaluate the status of the disaster management and disaster operations for the local government area. Verbal member status reports would be provided at LDMG meetings by exception.

6.8.2 Meeting Minutes

It is a requirement under s18 of the Regulation that a disaster management group keeps minutes of its meetings.

The LDMG meeting minutes should provide a summary of key discussion points and resolutions. It is important to remember that the minutes may be subject to public scrutiny under the Right to Information Act 2009.

It should be noted in the meeting minutes whether or not a quorum was established at the meeting. The meeting attendance sheet should then be attached to the back, as it forms part of the meeting minutes as an accurate account of who attended the meeting and whether the meeting had a quorum, thus making any resolutions or decisions valid.

An example of a LDMG meeting Minutes template which could be used for both ordinary and extraordinary meetings is available in Annexure H - Local Disaster Management Group Forms.

6.8.3 Resolutions

In order for LDMG meeting resolutions to be validated, it is a requirement under s16 of the Regulation that a majority of members provide written agreement to the resolution. This can occur even if the resolution is not passed at the meeting, i.e. via a flying minute.

In order to ensure that resolution requirements are met, the LDMG can conduct its business in numerous ways;

- 1. via a meeting where a quorum is achieved
- meeting resolutions are passed by a majority of members at the meeting
- 3. resolutions are communicated to members via meeting minutes

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- members are asked to endorse the meeting minutes in writing via email to the LDMG Secretariat (email must be received from the appointed member's email address to be counted towards quorum)
- 5. via meeting where a quorum is not achieved
- 6. proposed resolutions are identified at the meeting
- proposed resolutions are communicated to members via a flying minute
- members are requested to endorse the flying minute via signature and return to the LDMG Secretariat.

6.8.4 Actions Register

In addition to meeting minutes, the LDMG Secretariat should produce an actions register. The purpose of this document is to provide a running log of actions undertaken and an audit trail through to the acquittal of those actions.

Prior to each ordinary meeting of the LDMG, members will be requested to:

- review the current actions register (distributed with meeting papers);
- provide (where applicable) a status update advising of any actions undertaken with regard to the action;
- capture any actions as a result of discussion outcomes. An action register should be documented. Refer to examples below:
 - a. the LDMG decision in relation to <XYZ> is to <<insert the action required and the responsible position/person/s>>; and
 - b. the LDMG decision is that this matter will be dealt with out-of-session and the LDMG member/s <<XYZ>> will <<insert what the members are required to do>>. The outcome of this action will be reported back to the LDMG at the next meeting.

The action will remain active on the register until such time that it has been acquitted (e.g. all required actions have been undertaken), when completed it will be recorded as completed in the register.

An example of a LDMG Action Register is available in Annexure H - Local Disaster Management Group Forms.

6.8.5 Resolutions Register

For governance purposes, a register detailing each resolution passed by the LDMG including necessary details of actions undertaken to acquit the resolution should be kept. This provides an easy reference document and a historical record of LDMG resolution statements.

An example of a LDMG Resolutions Register is available in Annexure H - Local Disaster Management Group Forms.

6.8.6 Correspondence Register

In order to assist with tracking of inward and outward LDMG correspondence, it is suggested that a LDMG Correspondence Register is kept. This allows for all members to be aware of any correspondence that concerns the LDMG, and will assist with the information flow and decision making of the LDMG.

6.8.7 Annual Reporting

LDMG's play an integral part in the disaster management of the State and it is important that they have input into the QDMC annual reporting process. LDMGs are required to complete a status report at the end of each financial year and provide the completed report to the relevant DDC. LDMGs may contact the QFES Emergency Management member in the group for advice and assistance in the completion of the status report.

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A template for LDMGs to develop a disaster management status report is available in Annexure H – Local Disaster Management Group Forms.

The DDMG will compile the DDMG Annual Report by incorporating information provided in the LDMG status reports. The Queensland Disaster Management Committee (QDMC) receives the DDMG Annual Reports at the end of July each year. The reports are then reviewed to ensure disaster management groups are meeting their legislative requirements, and incorporated into the QDMC annual reporting process. The QDMC is required under s44 of the Disaster Management Act 2003 to prepare an annual report about disaster management in the State following each financial year.

QDMC Annual Reports are publicly available at www.disaster.qld.gov.au and in Annexure H – Local Disaster Management Group Forms.

6.8.8 Records Maintenance

Records management is an activity targeting preservation of evidence of actions, decisions and important communications by creating, keeping and maintaining records of these actions, decisions and communications. Public records are protected by the *Public Records Act 2002* and maybe subjected to public scrutiny under the *Right to Information Act 2009*.

A public record is a file providing evidence of actions, decisions, activities and functions of a disaster management group. This can include internal or external correspondence including letters, emails, memos, reports, minutes, agendas, complaints, contact with the community, other agencies etcetera. LDMGs must ensure that these records are complete, authentic, reliable, inviolate and usable.

The LDMG must comply with the legal, evidentiary and financial requirements (including lawful and accountable disposal of records) when managing LDMG records. The Queensland State Archives General Retention and Disposal Schedule for Administrative Records outlines the requirements for retaining documents in accordance with the *Public Records Act 2002*.

The schedule and further information for LDMGs, including managing records during disaster events, can be obtained at www.archives.qld.gov.au in the section "Services to Government".

6.8.9 Letterhead

As LDMG business is conducted on behalf of the relevant local government or combined local governments, the relevant local government letterhead and logos should be used for all LDMG business.

The typical reporting requirements for the LDMG are:

- 1. contact details and membership information;
- 2. meeting minutes and their distribution to LDMG members;
- 3. status Reports LDMG to DDMG;
- 4. annual submission of membership of the LDMG to the DDMG; and
- 5. maintenance of training and exercise registers.

The LDC is responsible for the administrative responsibilities of the LDMG.

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PART 7. DISASTER RISK ASSESSMENT

7.1 Community Context

The Livingstone Shire Council is situated in the Central Queensland region and has an area of 11,780 square kilometers. The Shire is bordered by Isaac Regional Council to the north, Central Highlands to the west, and Rockhampton Regional Council to the south-west.

The region consists of diverse topographical areas including significant rural, coastal and inland plains to natural and cultivated forests and offshore islands (some of which are populated). There are two main urban centres including Yeppoon and Emu Park.



Figure 1: Livingstone Shire Council

7.2 Terrain

The topography of Livingstone Shire is clearly marked by the islands of Keppel Bay and the Keppel Group of islands to the east, plus small inshore islands south of Bluff Point. Coastal headlands and associated hills of Spring Head, Coast Range, Wreck Point, Wave Point, Double Head, Bluff Point, Tanby Point, Ritamada Point, Emu Point, and a group of small headlands (Rocky Point, Arthurs Point, Zilzie Point and Cocoanut Point). Mangrove lined creeks and wetlands are prevalent at Corio Bay, Fishing Creek, Yeppoon, Shoal Water Bay, Cawarral Creek, and major mountain peaks of GAI-I, Constitution Hill, BAJA, Mt Chalmers and the Berserker Range to the south west. The Ross Range behind Keppel Sands, the Tanby Range behind Lammemoor to Kinka Beach, and the Coast Range extending north east from the coastline at Yeppoon. Mt Barmoya, Grays Hill and Mt Lizard to the north-west, and a series of isolated peaks west of Yeppoon, in the Limestone Creek Valley.

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7.3 Climate

Livingstone Shire is situated in close proximity to the Tropic of Capricorn and experiences two seasons – wet and dry with the wet season spanning from December to February.

The regions climate may be classified as subtropical. Average annual rainfall is approximately 630mm per year.

Table 1: Average daily temperature range varies depending on the season

	Summer/v	Summer/wet Season		Season
British Commercial	Min	Max	Min	Max
Inland	22	32	9	23
Coastal	23	30	12	27

7.4 Population and Settlement

7.4.1 Main Centres

Yeppoon (23.08S – 150.44E) – is a well known beachside town on the Capricom Coast bounded by the Pacific Ocean, approximately 40 km north east of Rockhampton and is accessible via Yeppoon Road (east-west) and the Scenic Highway to Emu Park (north-south). It is a modern town which provides service facilities and all tourist requirements. The coastline is protected by the Great Barrier Reef and the Keppel Bay Islands. The Capricom Coast has some of the most picturesque and safe swimming beaches in Australia.

It is the primary urban centre for coastal communities. Once a small centre for pineapple growers and sugar cane farmers, Yeppoon has developed into a popular tourist destination surrounded by attractive beaches and is within easy reach of the Keppel Isles including Great Keppel Island.

Emu Park (23.16S – 150.50E) – is a seaside town approximately 20km south of Yeppoon and 45km north east of Rockhampton. It is a popular tourist destination usually visited by travellers passing through on the circular scenic route from Rockhampton to Yeppoon. It is accessible via Emu Park Road (east to west) and the Scenic Highway to Yeppoon (north to south).

7.4.2 Community Snapshots

The Community Snapshots provide an overview of the localities, of Livingstone Shire Council, from a human social, disaster management perspective. The initiative's primary purpose is to gain a greater understanding of the communities, their perception of the relevant hazards, and their recovery and preparedness statuses. This insight is then translated into identified strengths, vulnerabilities and potential opportunities for further activities, to assist the communities build their resilience and to prepare, respond and recover from future events. The snapshots have asked, through proactive community engagement activities, members from within those localities for information and a description of their community. The Snapshots identify:

- and connect with community champions (key contacts)
- and connect with key networks and groups (community and sporting, formal and informal, and services)
- the population's demographics (industry, employment, age etc)
- key community assets of significants to the community (parks, halls, emergency service facilities, showgrounds, schools, aged care facilities etc)

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- key infrastructure road networks, utilities, communication networks
- how the community communicates and receives information
- what and where the community accesses services
- natural and non-natural vulnerabilities
 - Local trends, issues and barriers

Key contacts, individuals connected to/within their communities, with a good community network and understanding of their community, have been identified through this process. Their contact details are maintained within the Snapshots, and these individuals are able to provide or ground truth information to the Local Disaster Coordination Centre/ Local Disaster Management Group on what is happening within that community.

The Snapshots can be referred to when carrying out the natural hazard risk assessment, and in identifying actions that are appropriate to each locality. The snapshots will assist to tailor preparedness messaging and education. While this initial mapping work can inform the development of a Community Plan.

7.4.3 Demography

The following statistics are based on the Queensland Regional Profiles: Resident Profile for Livingstone Shire, Government Statistician, Queensland Treasury and Trade using the latest demographic, social and economic data available from the 2016 Census.

7.4.3.1 Population

The estimated resident population of Livingstone is 37,055 persons as at 30 June 2016 (*Table 2*) with an average annual growth rate of 2.4 % over 15 years compared to Queensland's 2.1%. The estimated projected population of Livingstone Shire by 2036 is 57 042 indicating an average annual growth rate of 2.2% compared to Queenslands 1.6% Population growth will have implications for disaster risk management for the Livingstone Shire. The Disaster Management Unit will monitor population change and consider associated risks and required responses as part of its overall approach to the safety of the region.

Table 2: Estimated resident population, Livingstone Shire LGA and Queensland

LGA / State		As at 3	Average annual growth rate					
	2001	2006	2011	2016pr	2001-2010pt	2011-2016pr		
		— number —				-%-		
Livingstone (S)	25,863	29,543	33,394	37,055	2.4	2.1		
Queensland	3,571,469	4,007,992	4,478,778	4,848,877	2.1	1.6		

Source: ABS 3218.0, Regional Population Growth, Australia, various editions

7.4.3.2 Age

The median age of the population of Livingstone Shire Council is 41.9 years old. This is almost a 3 year increase over 10 years (*Table 3*) which could be attributed to the largest group of residents being within the 45-64 year old age group or a decrease in the number of 15-24 and 25-44 year olds remaining in the region. The 2016 census data highlights a significant increase in those residents aged 65 and over most likely due to retirees choosing to move to the coast. Looking at the region by locality, Zilzie Bay and Emu Park have the oldest populations which supports this assumption.

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Table 3: Estimated resident population by age, Livingstone Shire LGA and Queensland, 30 June 2016

Age group		As at 30 June							Average annual growth rate
	2001	2001		2006		2015		201605	
	number	- 150	number	- 5	number	- 4	nunches	- 24	- 3
Livingstone (S)									
0-14 years	8.744	22.2	6,214	21.0	.6,693	19.7	7,162	19.3	125
15-24 years -	3,268	12.6	3,573	12.1	4.101	12.3	4.355	11.8	1.0
25-44 years	6,961	26.9	7,333	24.8	7,825	23.4	8,590	23.2	
45-64 years	6,741	28.1	8,491	28.7	6,956	29.8	10,652	28.7	1.0
65 years and over	3,149	12.2	3.932	13.3	4.919	14.7	6.308	17.0	4.7
Total	25,863	100.0	29.543	100.0	33,394	100.0	37,055	100.0	2.4
Queensland									
0-14 years	760,583	21.3	817,879	20.4	891,838	19.9	854,599	19.7	13
15-24 years	500,770	14.0	584:584	14.1	024.631	14.0	649,335	13.4	1.7
25-44 years	1,063,529	29.8	1,145,736	28.6	1,265,565	28.2	1.334,934	27.5	1.5
45-54 years	830,782	23.3	994,777	24.8	1,114,986	24,0	1,196,357	24.7	2.5
65 years and over	416,805	11.0	485,016	12.1	579,768	13.0	713,683	14.7	3.7
Total	3,571,469	100.0	4.007,992	100.0	4,476,778	100.0	4,848,877	100.0	2

Source: ABS 3235.0, Population by Age and Sex. Regions of Australia

7.4.3.3 Migration Rates

Within the last year 14.7%% of the community (Table 4) were living somewhere else, whether still within Queensland, Australia or overseas. Five years ago, 39.6% of the population participating in the 2016 census were living outside of the LSC region (Table 5). Therefore there is a risk of new residents not being aware of the hazards posed in the region and how to prepare. This is further exacerbated if residents have previously lived in a different climate and environment for example the United Kingdom.

Table 4: Place of usual residence one year ago(a), Livingstone Shire LGA and Queensland, 2016

LGA / State	1,5000		Different ac	Proportion			
	Same address	Within Rest of Oversea		Overseas	Totalin	different address	Persons(c)
	uniupec	— number —				-	number
Livingstone (S)	26,565	4,661	368	147	5,264	14.7	35,916
Queensland	3,423,989	655,524	77,129	66,975	813,045	17.5	4,648,722

(a) Based on persons aged one year and over.
 (b) includes persons who stated that they were usually resident at a different address 1 year ago but did not state that address.
 (c) includes persons who did not state whether they were usually resident at a different address 1 year ago.

Source: ABS, Census of Population and Housing, 2016, General Community Profile - G41

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Table 5: Place of usual residence five years ago(a), Livingstone Shire LGA and Queensland, 2016

LGA / State	Same address		Different ac	Proportion			
		Queensland	Rest of Australia	Rest of Overseas		different address	persons ^[c]
	number	— number —				26	number
Livingstone (S)	16,996	11,565	1,250	557	13,574	39.6	34,236
Queensland	2,118,153	1,458,714	220,316	228,095	1,942,926	44.1	4,406,728

(a) Based on persons aged five years and over

Source: ABS, Census of Population and Housing, 2016, General Community Profile - G42

7.4.3.4 Cultural Characteristics

Livingstone Shire is a multicultural community. According to the 2016 Census 4.4% of the population are of Aboriginal and/or Torres Strait Islander descent (*Table 6*). Furthermore 10.1% of residents were born overseas (*Table 7*). This creates potential issues with communicating warnings and notifications due to language barriers. The top non-English speaking backgrounds and the percentage of the population they represent in Livingstone Shire are:

- 1. Germany 0.4%
- 2. Philippines 0.4%
- 3. Netherlands 0.2%
- 4. Thailand 0.2%
- 5. Papua New Guinea 0.1%

Additionally, 1.9% of the population speaks another language at home and speaks English not well or not at all, again adding to the difficulties of disseminating public information (Table 8).

Table 6: Indigenous status, Livingstone Shire LGA and Queensland, 2006-2016

	Census year						Total change	
Indigenous status	2006 20				2016	2000-2016		15
	number	-75	number	(76)	number	- 1	number.	156
Livingstone (3)								
Aboriginal and/or Tomes Straft Islander	972	3.4	(1,109	3.4	1.807	144	635	85.3
Non-indigenous	26,249	90.9	29,513	90.6	31,000	87 A	6,441	20.7
Indigenous status not stated	1,645	5.7	1,941	5.0	2,977	82	1,332	81.0
Total	28,868	100.0	32,563	100.0	36,272	1000	7.404	25.6
Queenstand								
Aboriginal and/or Torres Strat Islander(*)	127,581	3.3	155,626	3.6	186,482	40	58,501	46.2
Non-Indigenous	3,862,044	91.0	3,952,704	97.2	4.211.020	89.5	858.976	18.6
Indigenous status not stated	224,909	5.8	224,206	5.2	305,685	6.5	80,778	35,9
Total	3,904,531	100.0	4,332,737	100.0	4,703,193	1000	798.662	20.5

(a) Comprises persons who identified themselves as being of "Aborgina". Torres Strat lelander or Both Aborginal and Torres Strat slander origin.

Source: ABS, Census of Population and Housing, 2016, Time Series Profile - 106

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⁽c) Includes persons who stated that they were usually resident at a different address 5 years ago but did not state that address (c) Includes persons who did not state whether they were usually resident at a different address 5 years ago.

Table 7: Country of birth, Livingstone Shire LGA and Queensland, 2016

		- 1			Born overs	eas			14,000
LGA / State	Born in Austr	ustratio ⁽³⁾ Born in £88 countries ⁽³⁾			Born in NESS countries(-)		Totalis		Personuis:
	number	- 5	number	150	number	- 5	number	- 16	number
Divingstone (S)	29,404	81.1	2,613	6.0	1,138	3.1	3,651	10.1	36,272
Queensland	3,343,619	71.1	493,066	10.5	522,810	33.3	1,015,675	216	4,703,193

Refer to evaluation, notes for additional information.

ay includes 'Australia, (includes External Territories), infd. Norfolk Island and 'Australian External Territories, nec' responses.
(b) Based on the main English speaking countries of UK, weland, Canada, USA, South Africa and New Zesland,
(c) Includes countries not clerifided individually, "Inadequately described and "At sea responses.
(d) Includes not stated responses.

Source: ABS: Census of Population and Housing, 2016, General Community Profile - G01 and G09

Table 8: Proficiency in spoken English or overseas-born persons, Livingstone Shire LGA and Queensland, 2016

LGA / State	Speaks Eng only							1	Personalis
	number	- 8	number	- 5	number	-	number	-	number
Livingstone (S)	31,929	88.0	906	2.5	89	0.2	995	2.7	30,272
Queensland	3,820,632	81.2	460,525	10.2	83.675	1.8	554,190	12.0	4,703,193

Refer to explanatory notes for additional information

(a) Includes the categories 'Proficiency in English not stated' and 'Language and proficiency in English not stated'.

Source: ABS, Census of Population and Housing, 2015. General Community Profile - G13

7.4.3.5 Economy

The median income for Livingstone Shire residents is \$32,136 (Table 9) with a majority of the residents (29.2%) earning less than \$20 800 per year. Furthermore, December 2017 quarter figures reveal a total 5.8% of the residents are unemployed. Limited access to resources can have impacts on a household's ability to prepare and recover from a disaster. This could mean greater reliance on local government and not-for-profit organisations for support in an event.

Table 9 Total personal income, Livingstone Shire LGA and Queensland, 2016

LGA / State	Less that \$20,800 per		\$20,800 to \$5 per year		\$52,000 \$103,999 pe		\$104,000 more per y	A 100 -	Totatot	Median (S/year)
	ramber	1	number	- 3	number	1770	number	- 5	number	\$
Unrigetone (S)	0,580	29.2	8,913	30.3	5,923	20.1	2,288	133	29,418	32,136
Queensland	1,074,683	28.4	1,249,382	33.0	841,717	22.2	269,288	3.1	3,790,497	34,320

Refer to explanatory notes for additional information

(a) includes personal income not stated.

Source: ASS, Census of Population and Housing, 2016, General Community Profile - G62 and G17

Table 10: Employment by industry, Livingstone Shire LGA and Queensland, Livingstone Shire LGA and Queensland, 2016

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Industry	Livingstone (5)	Livingstone (5) LGA		1	Specialisation ratio	
	number	- %	number	× .	number	
Agriculture, forestry and fishing	627	4.1	60.668	2.8	1.43	
Mining	1,463	9.5	49,997	2.3	4.05	
Manufacturing	571	3,7	129,787	6.0	0.61	
Electricity, gas, water and waste services.	309	2.0	23,883	1.1	1.79	
Construction	1,499	9.7	191,338	9.0	1.09	
Wholesale trade	361	2.3	56,370	2.6	0.89	
Retail trade	1,500	9.7	211,778	9.9	0.98	
Accommodation and food services	1,125	7.3	156,670	7.3	0.99	
Transport, postal and warehousing	613	4.0	108,083	5.1	0.79	
Information media and felecommunications	92	0.6	25,265	1.2	0.50	
Financial and insurance services	203	1.3	54.286	2.5	0.52	
Rental, hiring and real estate services	252	1.6	42,500	2.0	0.82	
Professional, scientific and technical services	552	3.6	133,652	8.3	0.57	
Administrative and support services	478	3.1	75.336	3.5	0.88	
Public administration and safety	986	6.4	140,184	6.6	0.97	
Education and training	1,675	10.9	192,143	9.0	1.21	
Health care and social assistance	1,757	11.4	276,845	13.0	0.88	
Arts and recreation services	170	3.5	33,667	1.6	0.70	
Other services	655	4.2	83,470	3.9	1.09	
Total(4)	15,425	100.0	2,136,455	100.0	1.00	

Refer to explanatory notes for additional information.

(a) Includes inadequately described and not stated responses.

Source: ABS, Census of Population and Housing, 2016, General Community Profile - G51 and unpublished data

COMMUNITY CAPACITY PART 8.

LDMG Capacity 8.1

During disaster events the Livingstone Shire Local Disaster Management Group has a response and recovery capability, which includes:

- Livingstone Shire Council, which employs approximatly 345 personnel including:
 - A Disaster Management Unit.
- Emergency services, which maintain stations within the Region:
 - Queensland Police Service;
 - Queensland Ambulance Service; and 0
 - Queensland Fire and Emergency Services. 0
- Emergency services volunteers, including:

 o Rural Fire Service brigades.

 - State Emergency Service, with seven operational groups located across the region
 - Emu Park;
 - Great Keppel Island;
 - Keppel Sands;
 - Marlborough;
 - Stanage Bay,

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- Yaamba; and
- Yeppoon.
- Coast Guard, with three operational groups including:
 - Yeppoon (QF 11)
 - Keppel Sands (QF 20); and
 - Stanage Bay Thirsty Sound (QF 24).
- Surf Life Saving Queensland Ö.
 - Yeppoon SLSC
 - Emu Park SLSC
- Queensland Government departments:
 - Department of Transport and Main Roads
 - Department of Communities, Disability Services and Seniors O.
 - Queensland Parks and Wildlife Service. 0
- Other agencies that contribute to the regions disaster management arrangements, including:
 - Livingstone Shire Council;
 - Optus: 0
 - Telstra: 0
 - Central Queensland University; and ß
 - Energy Queensland.
- Numerous community service organisations that contribute to the city's disaster management arrangements, including:
 - Red Cross; à.
 - Lifeline; O.
 - ADRA Adventist Disaster and Relief Agency;
 - G
 - Salvation Army; St Vincent de Paul Society:
 - Service clubs;
 - Culturally and linguistically diverse community organisations; D.
 - Centacare: O
 - Blue Care: 0
 - Home Support; and
 - Meals on Wheels.

8.1.1 Critical Lifelines/infrastructure

8.1.1.1 Road Network

The main roads in Livingstone Shire are the Bruce Highway from Glenlee to the north boundary, Yeppoon Road and Emu Park Road which are the main access routes to Yeppoon and Emu Park from Rockhampton. Secondary roads are:

- Stanage Bay Road
- Byfield Road
- Keppel Sands Road
- Scenic Highway
- Cawarral Road
- Tanby Road
- Cooroman Creek Road.
- Panorama Drive

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These roads link smaller catchment communities to the main centres of Yeppoon and Emu Park. The predominant threats to the roads in LS are large or multi-vehicle accidents and high rainfall events causing flash flooding.

8.1.1.2 Water

In the Livingstone Shire, the primary water supply is sourced from Waterpark Creek. A network of interconnecting pipes carries water from the source to the reservoirs for treatment before being pumped to homes and businesses. Properties outside of the water network rely on rain water tanks or carters. The secondary, contingency supply is from the Boundary Reservior located on the the Rockhampton Yeppoon Road. A contract exists between LSC and Fitzroy River Water regarding the conditions of supply. Fitzroy River Water (FRW) is responsible to ensure the reservior is full and supplying a minimum of 3ML a day. LSC is responsible for the pipelines and connections from the reservior. In a situation that disrupted the supply from the primary source, there is the ability to increase the amount sourced from the secondary.

8.1.1.3 Controlled Dams and Weirs

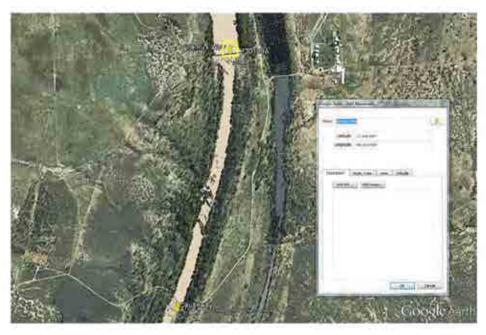
One controlled dam exists in the Livingstone Shire, Kelly's Offstream Storage. This dam has a separate Emergency Action Plan.

Tartrus Dam is located downstream of the convergence of the Upper Mackenzie River and the Isaac River. It is an ogee-crested mass concrete weir that stores 12,000ML @ FSL 81.75 ML. It's outlet works consist of a 1200mm diameter RCP controlled by a circular penstock gate. This river section covers the ponded area of the storage formed by the Tartrus Weird on the Mackenzie River downstream to the junction of Springton Creek.

BoM's peak height is 18.29m local datum (76.08m offset). The major flood level is 15m.

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8,1,1,4 Sewerage

LSC provides sewerage treatment to a majority of residents. During a disaster event involving high rainfall, the sewerage treatment plants can experience higher levels of effluent than normal. Additionally there is the risk of power outages during any type of event. The sewerage treatment plants can be without power for 12-24 hours before there is a major issue. Residents not within the sewerage network have septic tanks which they are responsible for maintaining.

8.1.1.5 Power

The electricity is supplied by Energy Queensland via their infrastructure of above and below ground lines. Historically there have been power outages during events to up to 5000 customers but these were resolved within 12 hours as an Energy Queensland depot is located 40km away in Rockhampton, which allows for a quick response time.

8.1.1.6 Supplies

The transportation of supplies in LS is mainly via road. In a disaster, there is a chance this mode of transport could be disrupted for an extended period of time. This could be due to an event within LSC boundaries or one in another region, for example, 2010 - 11 floods in Rockhampton that cut the Bruce Highway for almost three weeks. In the event that something similar occurs again, supplies could be sourced from the north if the Bruce Highway is not cut at Alligator Creek, by sea through Gladstone Port to Rosslyn Bay or by air.

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8.1.1.7 Fuel Storage, Ice and Gas Supplies

Yeppoon

- BP 7 Fairfax Court, Hidden Valley;
- Lammermoor Convenience Service Station 150 Scenic Highway, Lammermoor;
- Puma 21A-23A Park Street, Yeppoon;
- Shell 6 Burnett Street, Yeppoon; and
- United Petroleum 101 Rockhampton Road, Yeppoon.

Rosslyn Bay

Caltex – Vin E Jones Memorial Drive, Rosslyn.

Yeppoon Road

Caltex (The Oaks) – 2050 Yeppoon Road, Bondoola.

Marlborough

- Puma Marlborough 71209 Bruce Highway, Marlborough; and
- Caltex 12 Perkins Road, Marlborough.

Byfield

Byfield Store – 2234 Byfield Road, Byfield.

Emu Park

- Puma Corner Connor and Hartley Street, Emu Park; and
- Caltex 38 Patterson Street, Emu Park.

8.1.1.8 Queensland Police Service

The QPS maintain an operational precence throughout the shire including:

- Yeppoon Police Station located at 17-23 Normanby Street, Yeppoon.
 - This police station's front counter operates from 8am to 4pm and is a 24 Hour Patrol Station meaning that there is a Car Crew to attend jobs 24 hours a day. Yeppoon Police Station also house Yeppoon Criminal Investigation Branch;
- Emu Park Station is located in Pattison Street, Emu Park.
 - a 4 officer station with officers working on an 'On-Call' basis outside of roster times;
- Yeppoon Water Police is located at John Howes Drive, Rosslyn Bay with
 - 4 officers allocated to Yeppoon Water Police work on an 'On Call' basis outside of roster times; and
- Marlborough Station is located at Milman Street, Marlborough.
 - a 1 Officer Station with this officer working on an 'On-Call' basis outside of roster times.

8.1.1.9 Queensland Fire and Emergency Services

Rural Fire Brigades within Livingstone Shire Council consist of:

Brigade	Total members	Slip-ons and Trailers	Total Appliances
Adelaide Park	39	2	1
Barmoya	15	5	
Belmont	42	119	2
Bondoola	31	2	2

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8.1.1.10 Queensland Ambulance Service

The QAS have three stations in the Livingstone Shire. These stations are located at:

- Yeppoon Located at a joint complex with QFES and SES at 16 McBean St, Yeppoon.
 - manned 24 hours with 3 shifts. The station services area is Byfield in the north, the causeway in the south, Cawarral in the west and the island groups to the East. Paramedics response capbailities also include crew of the Coast Guard and Police vessels when requested;
- Emu Park Located in Hartley St, Emu Park.
 - capability of 24 hours a day 7 days a week with back up from Rockhampton or Yeppoon when required. Response is to the causeway in the north to Keppel Sands in the west; and
- Marlborough Located at 25 Milman Street, Marlborough.
 - capability of 24 hours a day 7 days a week with back up from Carmila in the north and North Rockhampton to the south. Response area is to St. Lawrence in the north to Stanage Bay in the east, to Princhester in the south and the old Sarina highway in the east.

8.1.1.11 RACQ Capricom Helicopter Rescue Service

Support for medical evacuations is provided by RACQ Capricorn helicopter which is a Bell 412EP. This helicopter is an American enhanced twin engine machine equipped with a dual digital automatic flight control system. The Bell 412EP can be configured to have five seats and one stretcher position or three seats and two stretcher positions in the cabin.

The helicopter is equipped with:

- 2 person hoist enabling removal of injured or isolated persons or the insertion of other personnel into difficult to get to areas;
- trakka searchlight consisting of a variable width beam (4-13 degrees), 22,500 lumens (approx. 30M candlepower). Will light up a 76M diameter area at 1km distance at 40% of peak illuminance:
- sling capability of around 800kg payload all pilots are sling endorsed. Ability to deliver relief supplies or equipment into areas where accessibility is difficult. Normal sling rigging as if for crane lift is all that is required for load; and
- night Vision Goggle equipped for night/low visibility use eg dark nights, searches etcetera

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fixed and hand held homing devices for locating distress beacons.

8.1.1.12 Hospitals

The Capricorn Coast Hospital and Health Service is based in Yeppoon at 8 Hoskins Drive. The public hospital serves a region that spans 150 kilometres from end to end, which is approximately 25,000 people. Its services include:

- capacity for 28 beds;
- 24 hour emergency medical services;
- acute Inpatient Services;
- rehabilitation inpatient services;
- palliative inpatient services;
- women and family health programs;
- midwifery services; including antenatal clinics and classes, postnatal home visiting, breast feeding and parenting support, neonatal and hearing screening;
- obstetric clinics;
- child health services; including child development clinics, home visiting and parenting programs;
- paediatric clinics;
- school services; immunisation programs;
- hospital avoidance and subacute care in the community; including nursing assessments and care management, medical aids provision, carer support, hospital discharge planning and ongoing support groups;
- cardiac rehabilitation programs;
- social work support and counselling services;
- indigenous health services; including health assessment and care support, immunisation and hearing screening programs and health promotion;
- allied health programs; including speech, occupational therapy, physiotherapy, podiatry, psychology and dietetic services;
- mental health programs; including adult community and child and youth mental health services;
- alcohol, tobacco and other drugs service; including prevention, early identification and intervention harm minimisation and opiate treatment programs;
- general practitioner clinic; and
- radiological services including USS and CT scanning.

8.1.1.13 Medical Centres

- Yeppoon Medical Centre 19 Hill Street, Yeppoon;
- Yeppoon Family Practice 48 Normanby Street, Yeppoon;
- Total Health Medical Centre Shop 11-1 Swordfish Avenue Taranganba and Capricom Coast Hospital and Health Service – 8 Hoskins Drive;
- James Street Medical Centre 21 James Street, Yeppoon;
- The Family Practice 28 Cocoanut Point Dr, Zilzie; and
- The Family Practice Emu Park Corner of Hill and William Street, Emu Park.

Note: Some doctors practice out of more than 1 medical centre in the region.

8.1.1.14 Support Agencies

- Centacare 5/15 James Street, Yeppoon
- Blue Care 30 Rockhampton Road, Yeppoon
- Home Support 72B Queens Street, Yeppoon

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- Meals on Wheels Corner of Arthur and John Street, Yeppoon.
- 8.1.1.15 Aged Care Facilities
- Blue Care Capricorn Gardens Aged Care Facility 26 Magpie Avenue, Yeppoon
- Capricorn Adventist Retirements Village 150 Rockhampton Road, Yeppoon
- Sunset Ridge Retirement Village (RSL Care) 44 Svendsen Road, Zilzie
- Oak Tree Retirement Village 31 Barmaryee Road, Yeppoon.

8.1.1.16 Pharmacies

Yeppoon has 4 pharmacies;

- Yeppoon Day & Night 4 James Street, Yeppoon;
- LiveLife Pharmacy Yeppoon Central 42 Park Street, Yeppoon;
- LiveLife Pharmacy Keppel Bay Plaza 25-64 James Street, Yeppoon; and
- Cooee Bay Pharmacy Cedar Park Shops 1 Sword Fish Avenue, Yeppoon.

Emu Park has 2 pharmacies;

- Star Discount Chemist 4/5, 16 Emu Street, Emu Park.
- Zilzie Guardian Pharmacy 28 coconut Point Drive, Zilzie.

8.1.1.17 Airfields

There is no commercial airport within the Region. A small airstrip is located at Emu Park and has capability of taking only small light aircrafts.

Name	Emu Park ALA YEMP			
GPS location	23 15.3 S 150 48.9 E			
Evaluation	44ft (13m) AMSL			
Runway	16/34			
Length	673m			
Variation	10E			
Runway Type	Natural Grass			
Runway Slope	1% slope to S			
Runway markings	Cone markers at 30m. Gable markers at 60m			
Aircraft suitability	Aircraft not exceeding 2000kg AUW			
Windsock	E of Runway approx centre			
Facilities	Toilet and water tank			
Night Ops	Nil			
Hazards	Caution Unfenced - occasional kangaroos or birds. Often crosswind landing/take-off Powerline well S of runway on salt flats. Drain W of runway			

8.1.1.18 Sensitive Environments

Within the LS there is 756km squared of protected land made up of National Parks and State Forests. This land contains environmentally significant ecosystems and is popular with residents and visitors to the region.

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PART 9. HAZARDS

Building resilience, Business Continuity Planning, community engagement, national disaster resilience strategy.

9.1 Hazard Identification

The hazard descriptions have been taken from the Natural Hazard Risk Assessment Study 2012 and amended to be LS specific.

9.1.1 Wildfire

Bush and grass fires are uncontrolled fires burning in forest, scrub or grassland vegetation that occur where there is a fuel path of sufficient dryness to be flammable. Landscape features such as aspect, slope, wind strength and vegetation type and concentration along with climatic influences such as wind speed, rainfall, relative humidity and air temperature are contributing factors determining the severity of the hazard.

The wildfire season typically extends from mid-winter to early summer. The greatest danger occurs in the period late winter to mid-spring particularly if there has been a good summer wet season that has produced good grass growth and other fuel followed by a winter of low rainfall and lengthy periods of dry westerly winds.

The main areas of wildfire risk in the region are the urban areas that fringe the bushland areas around the major urban centre of Yeppoon and Emu Park. In the remaining areas, due to its predominately rural nature, there is a threat of wildfires across most of the region.

Bushfires cause damage, injury or loss through the action of one or more of their harm-producing components.

Flames

Exposure to flames is typically only a threat where vegetation or other fuel is allowed to accumulate under, against, or on the exposed building. Similarly, with infrastructure elements, fuel must be present close to the pole, bridge timbers and so on, for it to be affected directly by flames.

Embers

Buildings are at risk from wind-blown sparks and embers that can be carried significant distances from the fire front. Embers can also be propelled at great speed by the strong winds generated by the fire and be of a size large enough to smash unprotected windows.

Sparks and embers can enter buildings through gaps such as open or broken windows, or unlined eaves, thus introducing a source of ignition to the interior of the building. Sparks can start small fires in curtains, carpets and other interior furnishings. These develop rapidly and if not combated, can destroy the building from the inside. Similarly, sparks can lodge in combustible material close to, on the roof of, or even under the building, thus causing exterior fires that can quickly envelop the structure.

Radiant heat

Temperatures close to the fire front can be extreme and are capable of progressively causing heat stress, severe injury and fatalities. Radiant heat can cause the more volatile fuels such as synthetic fabrics, rubber and paper, to ignite at considerable distances from the fire front. It can cause glass to shatter; gas bottles to vent; plastics and fibre-glass to melt; metal to lose its strength; and painted

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surfaces to blister. Radiant heat is also a significant threat to heat-sensitive power supply and other electronic equipment such as computers and telephone equipment.

Strong winds

Wind speeds in excess of 42 metres per second (m/s) (150 km/h) can be experienced in bushfires. Such winds can cause direct damage, such as un-roofing buildings; it can cause impact damage by propelling debris, including burning debris at a considerable velocity; and can cause trees and power poles to be toppled, especially if the fire has already weakened them.

Proximity to the hazard

It is clear that in measuring the risks posed by bushfire it must be recognised that structures that are some distance from the fire front will be at risk in addition to those that are directly exposed. Ember attack, radiant heat and strong winds, in particular, extend the risk well beyond the fire front.

Smoke

Fire smoke can produce direct physical effects on people, especially those with respiratory illnesses such as asthma or emphysema, as well as psychological effects. It contains high levels of harmful chemicals such as carbon monoxide and dioxin. Stress and anxiety levels in many people can be raised simply by the smell of fire smoke in the air.

Smoke can also reduce visibility to the extent that roads may need to be closed temporarily to prevent accidents. Dense smoke is also capable of acting as an electrical conductor, with the result that high voltage power lines can arc to the ground through the smoke. This can present a significant hazard to people on the ground and as a further source of ignition remote from the fire front. Dense smoke can also reduce the effectiveness of line-of-sight telecommunications, especially UHF and VHF radio.

Prevention

- Livingstone Shire Fire Management Group;
- targeted awareness and education programs;
- reduce bushfire risk in areas subject to ember attack, radiant heat and flame contact though appropriate town planning, design and construction, and monitoring bushfire protection measures in bushfire prone zones;
- utilising statutory powers (e.g. the provisions of the Queensland Fire and Rescue Act 1990) in relation to total fire bans, notices, permits and the use of fire risk reduction notices;
- planning developments to be independently safer locations through more rigorous bushfire planning and assessment procedure within the revised planning scheme;
- providing for bushfire risk reduction adjacent to vulnerable assets through fire breaks and other measures that assist in reducing the consequence of bushfire; and
- active prevention via back burning.

Preparedness

- community education and engagement to prepare the community in line with the Go Early policy:
- establish and maintain fire breaks:
- · maintenance of fire tanks and fittings;
- maintain current database of location of Council plant and equipment;
- maintain communication interoperability between agencies;
- training of rural fire brigade (to training standard established by QFES);
- reduce fuel hazards;
- hazard reduction (e.g. controlled burns);
- regular clean-up of yards and gardens;
- Livingstone Fire Management Group;
- Livingstone Bushfire Sub Committee;

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- Bushfire Sub Plan (reviewed annually); and
- Bushfire hazard mapping.

Response

- Bushfires responded to as quickly as possible by QFES;
- LSC deploy fire fighting support resources when required;
- issue warnings;
- LDCC and dedicated resources for larger incidents, multi-agency response; and
- LSC Communication Sub Plan.

Recovery

- Community Recovery Plan;
- Recovery Committee (LDMG sub committee);
- Insurance Council of Australia; and
- Local/State/Federal essential infrastructure restoration.

Past Major Fires

- 2018 Mt Charmers Fire
- 2017 Shoalwater Byfield
- 2016 Shoalwater Byfield
- 2016 Mount Chalmers
- 2015 Byfield
- 2009 Across Cawarral, Emu Park, Yeppoon, Keppel Sands
- 2003 Cawarral area.

Areas Affected

The areas most affected are generally the heavily timbered areas, rural residential areas and urban infrastructure.

Recurrence

Bushfires may be considered an annual event.

Risk Leve

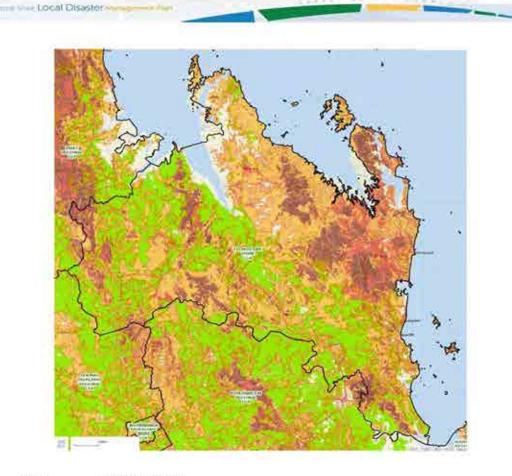
Medium to High – This will vary each season dependent on weather conditions and available fuel. Each year the Livingstone Fire Management Group will produce a Bushfire Mitigation Plan, based on risks due to fuel load.

Mapping

The bushfire threat is greatest in those areas that border high hazard areas and least where the hazard rating is low.



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9.1.2 Tropical Cyclone

Tropical cyclones generally occur in Australia between latitude 15° S and 20° S and occur from November to April, with December to March having the greatest incidence. Tropical cyclones generally track down the east coast in a south-easterly direction south of Cooktown. The El Nino and La Nina periods have an effect on the tracks of the tropical cyclones. During La Nina years the systems move closer to the coast and move further south. Tropical cyclones are defined by the World Meteorological Organisation (WMO, 1997) as;

"A non-frontal cyclone of synoptic scale developing over tropical waters and having a definite organised wind circulation with average wind of 34 knots (63 km/h) or more surrounding the centre."

These are very large-scale and intense tropical low-pressure weather systems that form over warm tropical seas, generally during the warmer months between November and April. Typically, they degenerate rapidly into large rain depressions once they cross the coast.

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Their destructive capacity is defined by the strength of the winds generated. In Australia there are two measures used – sustained wind (averaged over a ten minute period) and gust (wind speed averaged over three seconds). The Bureau of Meteorology (BoM) web site (www.bom.gov.au/weather/cyclone) contains the following observation relating to cyclone wind speeds:

"Typically gusts over open land will be about 40% greater than the mean wind and gusts over the ocean will be 25 - 30% greater than the mean wind. It is often the stronger gusts that cause the most significant damage to buildings."

While cyclone advice may refer to a certain maximum sustained wind or gust, there will be localised points where the winds will exceed this value, particularly in gullies, about ridges and between buildings where winds can be funnelled by the landscape.

Threshold wind speed velocities are used to define the five-point cyclone intensity scale. This scale, and the wind thresholds employed by the BoM in Australia



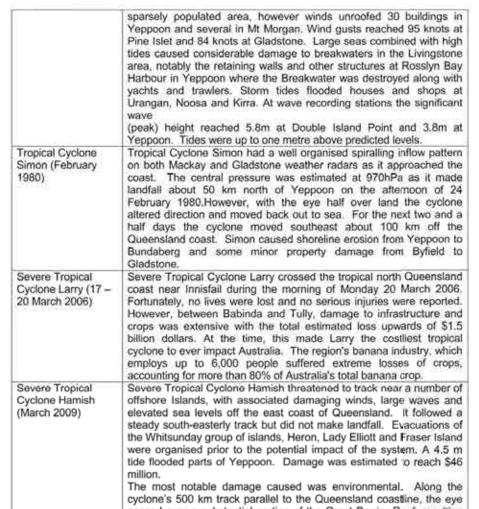
Cyclones of Category three and above are termed 'severe cyclones'.

The risk of severe damage in the area is high on the Capricorn Coast, as very strong and destructive winds and flooding arising from associated rainfall can occur. The entire coastal area is at risk including Great Keppel, North Keppel and Pumpkin Islands which are popular ourist destinations. Other smaller islands, offering limited protection, have camping grounds on them that may need evacuation, including Middle, Miall, Conical, Divided, Pelican and Humpy Islands. These destinations may have several thousand tourists between them to be considered as part of the emergency response to cyclonic events.

Cyclonic Event	Impact				
Tropical Cyclone David (13 – 19 January 1976)	Tropical Cyclone David crossed the Queensland coast just north of St Lawrence (south of Mackay) on 19 January 1976. It passed over Gannet Cay Automatic Weather Station where a central pressure of 970 hPa was recorded. It was intensifying right up to the time of landfall. A feature was its huge size with gales extending from Papua New Guinea down to Lord Howe Island. It generated huge swells and these combined with large tides caused extensive damage to Heron Island as it passed to the north. Fortunately, it crossed the coast in a				

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Hilli See Local Disaster

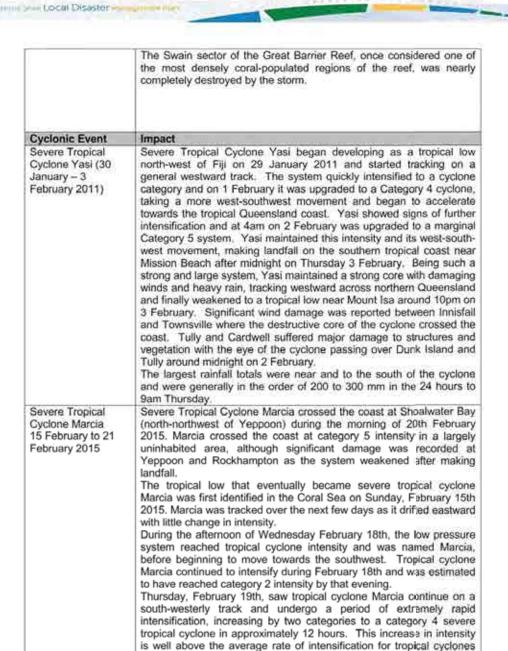


passed over a substantial portion of the Great Barrier Reef, resulting in some of the worst damage to the area in recent history. Unlike most cyclones which travel from east to west in the region, impacting only a small area of the reef, Hamish moved along the reef for nearly its entire existence. The BoM estimated that about a quarter of the Reef was impacted.

According to post-cyclone surveys of the reef, the damage done to the coral was extensive, with upwards of 70% losses in the hardest hit

According to post-cyclone surveys of the reef, the damage done to the coral was extensive, with upwards of 70% losses in the hardest hit spots. Nearly all of the exposed coral was destroyed by turbulent waters. Some areas were completely stripped of all living tissues, leaving only bare limestone. According to preliminary estimates, it would take the reef between eight and fifteen years to recover from Hamish if nothing hampers growth (Trenerry and Ellery, 2009).

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category 5 intensity at 4am on Friday 20th February.

Late on February 19th, Marcia made a sharp turn towards the south and intensified even further, and was estimated to have reached

anywhere in the world.



Prior to landfall in the early hours of February 20th, the automatic weather station on Middle Percy Island recorded a maximum sustained (10 minute average) wind speed of 84 knots (156 km/h) and a maximum wind gust of 112 knots (208 km/h), or the equivalent of a strong category 3 system. This weather station was located to the west of tropical cyclone Marcia's core and would not have experienced the cyclone's maximum winds in its eye-wall.

Cyclonic Event

Severe Tropical Cyclone Marcia 15 February to 21 February 2015 continued

At that time, intensity estimates inferred from satellite imagery indicated Marcia was a category 5 system at its core. High resolution radar imagery shows that Middle Percy Island was located just outside the eye wall of Marcia (represented by the strong reflectivity returns near the centre of the system). Based on all the evidence collected and detailed reanalysis of satellite imagery, severe tropical cyclone Marcia crossed the coast at Shoalwater Bay (north northwest of Yeppoon) as a category 5 system at around 8am AEST on February 20th. Severe tropical cyclone Marcia was a relatively compact system compared to other severe tropical cyclones such as severe tropical cyclone Yasi and weakened quickly as it moved over land during the day. It is believed that only a small part of the coastline within about 15km of the cyclone centre would have experienced category 5 strength winds.

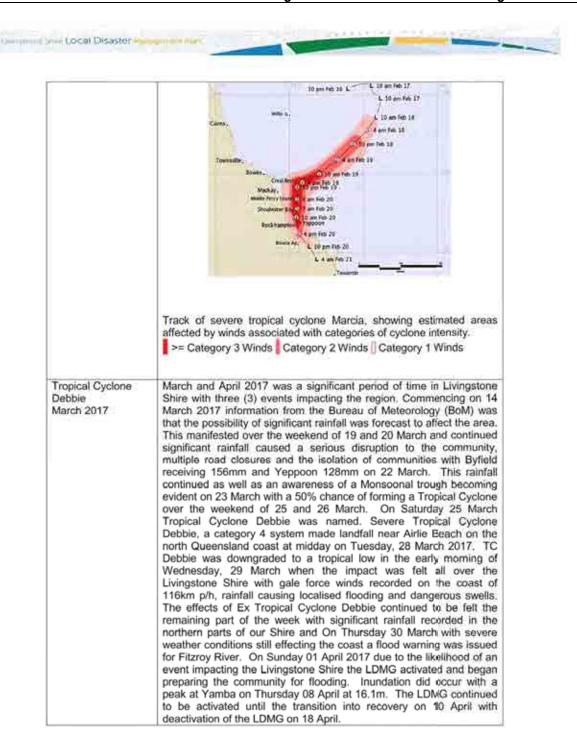
As Marcia moved over land, the township of Byfield sustained major damage as did the surrounding pine forest plantations. Yeppoon also received significant damage with the automatic weather station recording a maximum sustained wind speed (10 minute average) of 65 knots (120 km/h), or the equivalent of a category 3 system, as the category 4 centre of Marcia passed to the west.

The eye of Marcia passed over the city of Rockhampton where a maximum wind speed (10 minute average) of 40 knots (75 km/h) was recorded at the automatic weather station at Rockhampton Airport. Analysis of radar imagery indicated that the strongest part of the eye wall missed the automatic weather station and it is concluded that parts of Rockhampton experienced winds of high-end category 2 strenath.

Marcia then turned to the south-southeast and impacted the town of Biloela early that evening, where wind gusts to 85 km/h were recorded.

Marcia was downgraded to a tropical low at 2 am Saturday 21 February, located to the south of Monto. The low tracked further southeast during 21 February and crossed the Sunshine Coast back out to sea at 3 pm 21 February.

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Prevention

- development Control including Planning schemes;
- building Codes;
- all hazard protection plans for high risk communities; and
- anchorage of caravans.

Preparedness

- community education and engagement to prepare the community including identification of risk, safety and evacuations;
- ensure effective LDMP with buy in by all agencies;
- effective exercise management, including lessons learnt are implemented and the LDMP is updated:
- emergency alerts saved on the Disaster Management Portal and tested;
- maintain communication interoperability between agencies;
- trained Local Disaster Management members as required by QFES Training Matrix;
- trained staff working in the LDCC including agency liaison officers;
- regular clean-up of yards and gardens;
- develop local community co-ordination groups to empower the community;
- new residence packs;
- natural Hazards DVD;
- review LDMP and membership;
- Public Cyclone Shelter Sub Committee; and
- Public Cyclone Shelter exercise and train staff including fly in teams.

Response

- events responded to as quickly as possible by all agencies;
- maintain functional SES;
- issue warnings;
- LDCC and dedicated resources for larger incidents, multi-agency response;
- all agencies workable and functional Business Continuity Plan to ensure capacity to provide resources in the Queensland Disaster Management Arrangements (QDMA);
- activate Public Cyclone Shelter; and
- LSC Communication Sub Plan.

Recovery

- Community Recovery Plan;
- Recovery Committee (LDMG subcommittee);
- Insurance Council of Australia; and
- Local/State/Federal essential infrastructure restoration.

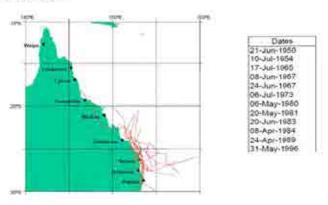
9.1.3 East Coast Low

East Coast Lows, also known as east coast cyclones, winter cyclones or easterly trough lows, are one of a family of low pressure systems which most often develop during the winter months along the east coast of Australia between 25°S and 40°S. These large-scale storm systems often develop rapidly and can become quite intense, with storm force winds extending over wide areas.

East coast lows typically form after a low or deep trough intensifies in the upper atmosphere over eastern Australia. A low pressure system then develops at sea level near the coast to the east of the upper level system, often intensifying rapidly. Like cyclones, effects of these events include flooding.

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wind damage, storm surge and coastal erosion. East coast lows occur more frequently than cyclones however the potential impacts on the LS region are expected to be less than those of cyclones. East coast lows generally have much shorter lifetimes than tropical cyclones and last only a few days. They develop over the Tasman Sea close to the coast and can intensify rapidly overnight. Unlike tropical cyclones, where the warm seas provide the energy source, east coast lows are driven by the temperature gradient between the Tasman Sea air and cold air in the high levels of the atmosphere over the continent. They can produce gale to storm-force winds, very heavy rainfall and in some cases coastal inundation. The effects of these storms on coastal and nearby coastal areas can be severe, with loss of life and property from flooding. BoM estimates the loss of life due to east coast lows at 35 between 1973 and 1999.



Selected tracks of East Coast Lows affecting SE Queensland (Harper & Granger 2009).

Prevention

- development control including planning schemes;
- building codes;
- all hazard protection plans for high risk communities; and
- anchorage of caravans.

Preparedness

- community education and engagement to prepare the community including identification of risk, safety and evacuations;
- ensure effective Disaster Management Plan with buy in by all agencies;
- effective exercise management, including lessons learnt are implemented and the LDMP is updated:
- emergency alerts saved on the Disaster Management Portal and tested;
- maintain communication interoperability between agencies;
- trained Local Disaster Management members as required by QFES Training Matrix;
- trained staff working in the LDCC including agency liaison officers;
- regular clean-up of yards and gardens;
- develop local community co-ordination groups to empower the community;
- new residence packs;
- natural hazards DVD;
- review LDMP and membership;
- Public Cyclone Shelter Sub Committee; and
- Public Cyclone Shelter exercise and train staff including fly in teams.

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Response

- events responded to as quickly as possible by all agencies;
- maintain functional SES;
- issue warnings;
- LDCC and dedicated resources for larger incidents, multi-agency response;
- All agencies workable and functional Business Continuity Plan to ensure capacity to provide resources in the QDMA;
- Activate Public Cyclone Shelter, and
- LSC Communication Sub Plan.

Recovery

- Community Recovery Plan;
- Recovery Committee (LDMG subcommittee);
- Insurance Council of Australia; and
- Local/State/Federal essential infrastructure restoration.

9.1.4 Storm Surge

All tropical cyclones on or near the coast are capable of producing a storm surge, which can increase coastal water levels for periods of several hours and simultaneously affect over 100 km of the coastline. The combination of the storm surge with the daily tidal variation produces a combined water level that is called the storm tide.

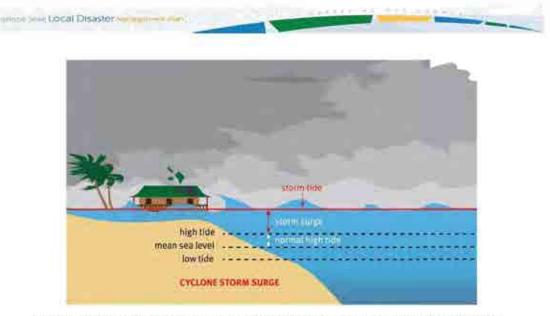
Storm surge heights are difficult to predict accurately in advance because they are dependent on central pressures and the approach direction of the cyclone at landing. The effect of this surge is dependent on the phase of the tide at which the surge occurs.

Individual storm surges are measured relative to mean sea level while storm tides are measured as a height above Australian Height Datum (AHD), therefore only the storm tide level can be referenced to ground levels. Relatively high water levels result when storm surges are combined with high daily tide levels which could cause inundation of relatively low lying coastal properties.

The following figure shows the various components that make up a storm tide. Storm surge is created

by the action of the winds circulating around the eye of the cyclone generating currents in combination with the lower atmospheric pressure that allows the water level to rise. The storm surge adds to the expected tide level at the time the cyclone makes landfall. Wave set up is that component attributable to the swell caused by the wind driven waves. Waves will run up the foreshore and when combined with the rise in sea level will cause the frontal dunes and near shore structures considerable damage. The shape of the coastline, slope of the local bathymetry contribute to the magnitude of the surge. The narrow continental shelf offers some protection against storm surge but places the foreshore to attack from wave set up and high sea levels.

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The Department of Emergency Services Report, Local Government Disaster Mitigation Project 2000 suggests that a wave height of 1m is capable of completely destroying a low set domestic structure unless it has been built of reinforced blockwork with suitable roof load transfer provisions. High set buildings without significant 'built-in' under the living platform could be expected to perform better provided that pier bracing is effective and the foundations survive the saturation and/or scouring.

Further information regarding Storm Surge can be sourced from Tropicial Cyclone Storm Tide Warning Response System Handbook.

Storm Surge Tropical Cyclone Marcia

A large storm surge was recorded across the Capricorn coastline, with significant beach erosion and structural damage impacting Great Keppel Island in particular. Fortunately, the storm surge from Marcia along the coast and to the south of Yeppoon coincided with a falling tide and did not produce significant inundation or damage. The DSITI storm tide gauge at Rosslyn Bay recorded a storm surge of 0.6m producing a storm tide height of only 0.06m above highest astronomical tide (HAT). There was however evidence of significant erosion and large deposits of pumice stone indicative of much higher water levels being reached on beaches to the north of Yeppoon between One Mile Beach and Farnborough Beach, and particularly at 9 Mile Beach.

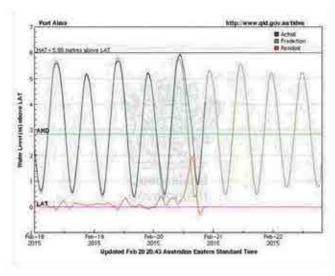
The DSITI storm tide gauge at Port Alma observed a storm surge of 2.0m while the wave rider buoy at Emu Park registered a significant wave height of 4.1m and peak height of 7.0 metres with waves coming from the northeast and a peak period of 9 to 10 seconds. The storm tide gauge at Port Alma recorded water levels close to but not exceeding HAT as the surge coincided with low tide. It is believed that the storm surge at Port Alma is likely to have been enhanced by the shape of the coastline relative to the track of the cyclone.

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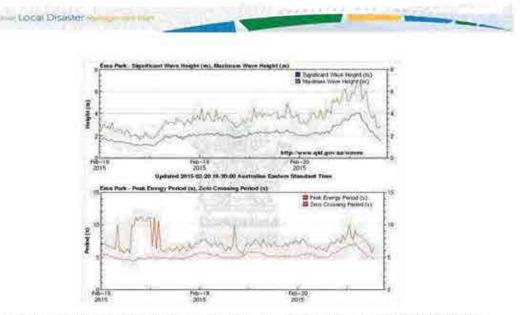


Great Keppel Island holiday cabins toppled onto the beach from severe tropical cyclone Marcia. (Source: ABC News)



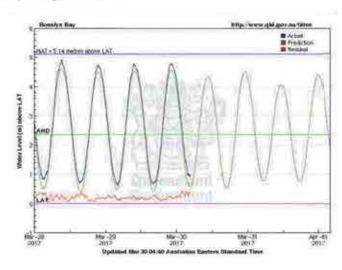
Sea level measurements from the Qld State Government (DSITI) storm tide gauge at Rosslyn Bay (Source: DSITI Coastal Impacts Unit fact sheet 'Severe tropical cyclone Marcia: storm tide and wave monitoring data').

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Significant wave height and direction measurements from the Old State Government (DSITI) wave rider buoy at Emu Park. (Source: www.gid.gov.au/weves)

Storm Surge Tropical Cyclone Debbie



Sea level measurements from the Old State Government (DSITI) storm tide gauge at Rosslyn Bay. (Source: DSITI).

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Wave interaction was recorded at Rosslyn Bay due to Tropical Cyclone Debbie. The DSITI storm tide gauge at Rosslyn Bay recorded a storm surge of 0.4m producing a storm tide height 4.9m, still below the highest astronomical tide (HAT) of 5.14m.

Prevention

- development control including planning schemes;
- building codes: and
- all hazard protection plans for high risk communities.

Preparedness

- community engagement and education of at risk areas and understanding evacuation routes;
- ensure effective LDMP with buy in by all agencies;
- effective exercise management, including lessons learnt are implemented and the LDMP is updated:
- emergency alerts saved on the Disaster Management Portal and tested;
- maintain communication interoperability between agencies;
- trained Local Disaster Management members as required by QFES Training Matrix;
- trained staff working in the LDCC including agency liaison officers;
- develop local community co-ordination groups to empower the community;
- new residence packs;
- natural Hazards DVD;
- review LDMP and membership;
- Public Cyclone Shelter Sub Committee; and
- Public Cyclone Shelter exercise and trained staff including fly in teams.

Response

- events responded to as quickly as possible by all agencies;
- activate Public Cyclone Shelters and Places of Refuge;
- issue warnings;
- LDCC and dedicated resources for larger incidents, multi-agency response;
- all agencies workable and functional Business Continuity Plan to ensure capacity to provide; resources in the QDMA;
- activate evacuation sub plan; and;
- LSC communication sub plan.

Recovery

- Community Recovery Plan;
- Recovery Committee (LDMG subcommittee);
- Insurance Council of Australia and;
- Local/State/Federal essential infrastructure restoration.

9.1.5 Severe Storm

The term 'thunderstorm' is a generic description of a relatively small scale convective process which can occur when the atmosphere is moist and unstable. Cumulo-nimbus clouds then rapidly develop, potentially reaching heights of up to 20km, with associated lightning, thunder, severe wind gusts from downdrafts, heavy rain and large hail. Many thunderstorms are typically short-lived (up to an hour) and limited in size (up to 10km in diameter) but can traverse large distances during that time and are capable of inflicting significant damage (Kessler, 1983). Individual storm impacts can vary significantly both in space and time. In Australia, a severe thunderstorm is defined as a thunderstorm which causes one or more of the following phenomena (BoM, 1995a):

· a tornado;

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- · wind gusts of 90km/h or more at 10m above the ground;
- hail with diameter of 20mm or more at the ground;
- an hourly rainfall intensity in excess of the 10 year ARI for a region (about 70mm/h or greater, dependent on the location and previous rainfall).

The LS area is subject to severe weather, notably severe storms which are not classified as tropical cyclones. Severe storms are localised events, usually affecting smaller areas than tropical cyclones, so their devastating impact is often under-estimated. These storms are more common than any other natural hazard. Each year, on average, severe storms are responsible for more damage and cost to the insurance industry than tropical cyclones, earthquakes, floods or bushfires. Severe storms also kill people. Most deaths are caused by lightning strikes, falling tree limbs, windblown debris, flash flooding and the capsising of small boats in open water. Nationwide, between 5 and 10 deaths and over 100 injuries are caused by lightning strikes alone each year.

Severe storms occur on average 1 to 2 times per summer for the Livingstone Shire area. Although thunderstorms are a valuable source of rainfall they can cause considerable damage due to the short sharp nature of the event that usually involves high winds, hail and flash flooding. Flash flooding from these events can be quite damaging with the following recorded events being equivalent to 100 year to 150 year ARI events:

- June 2002 400 mm/hour recorded in Yeppoon
- 1994 600 mm in 56 hours recorded at Yaamba.

Harm-Producing Elements

Destructive Wind

Most of the damage done by severe thunderstorms are caused by their strong winds. The most severe winds, however, are associated with the tornadoes that may be spawned super-cell thunderstorms. Peak wind speeds in these storms are estimated to approach 450km/h in the largest tornadoes, although actual measurements are sparse. Their spatial extent, however, is small, ranging from just a few tens of metres up to a few hundred metres. Track lengths typically vary from as little as 1km but can extend for over 100km, if conditions are 'favourable'.

Wind damage tends to increase disproportionately to the wind speed. According to Meyer (1997), winds of 70m/sec (250km/h) cause, on average, 70 times the damage of winds of 35m/sec (125 km/h). Damage tends to start where sustained wind speeds begin to exceed 20 m/sec (about 75 km/h). In addition to the high wind speeds, the turbulence of the winds caused by terrain features and large buildings is also a decisive factor.

Thankfully, the strength of destructive winds from thunderstorms is inversely related to the area they impact. For example, very severe downdrafts (or microbursts) can attain speeds of more than 200km/h and affect areas up to 1km wide, while severe tornadoes might have winds in excess of 400km/h but are typically restricted to widths of less than 100m (Fujita, 1981).

Severe winds can destroy buildings, topple trees, flatten standing crops, bring down from wind driven projectiles such as roofing iron and tree branches. No part of Livingstone Shire is immune from severe wind damage.

Hail

BoM records suggest that approximately 30% of all severe thunderstorms produce damaging half, with actual sizes varying depending on the strength of the recirculating updrafts in the storm system. Hail is thought to grow by the accumulation of super-cooled water droplets as the half nucleus is

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supported by the strong updrafts. Eventually, the mass of ice particles cannot be maintained and the hailstones typically fall in intermittent 'shafts', which form damage swaths at ground level due to the forward movement of the storm. These swaths vary in size, but are commonly a few kilometres in width and up to 10 kilometres in length.

Lightning

Almost all storms produce some lightning and associated thunder. An average thunderstorm produces a few lightning flashes each minute and generates several hundred megawatts of electrical power during its lifetime.

According to the BoM (www.bom.gov.au/info/thunder), in Australia lightning accounts for 5 to 10 deaths and well over 100 injuries annually. These figures are likely to increase with the growing number of retired people engaged in outdoor recreational activities such as walking, cycling, golf, fishing, boating etcetera. Of the many lightning strike injuries each year, about 80 result from people using fixed telephones during thunderstorms when the phone system may become highly charged near where lightning is striking. Related injuries may include hearing damage, burns, or even electrocution. No area of Livingstone Shire is immune from lightning strike.

The Severe Storm Threat

Severe storms and severe thunderstorms pose a risk to the whole of the Livingstone Shire area. The most widespread threat is from destructive winds that have the potential to cause injuries and fatalities, destroy buildings, dislocate infrastructure and do significant environmental damage. The areas that are most exposed to destructive winds are those along the coastline and those on exposed ridges.

Short duration storms that occur during high activity periods (daylight, end of school day, shopping day etc) offer the greatest chance of damage to life and property. White accurate records are unavailable, damage as a result of such events may extend to personal injury, roof damage, rainwater penetration, power failure losses, consequential flooding losses, infrastructure damage and damage from flying objects.

Damage in rural areas will be localised to the area covered by the storm event and may include personal injury and property damage. Flash flooding again is a consequence and may cause damage to property and Council infrastructure. Fires have been associated with electrical storms in rural and remote areas of the Shire. Severe storms are likely to bring down power and communication lines.

Event Date	Description
7 December 1969	4cm haif at Etna Creek
12 February 1992	3.8cm hall reported at Yeppoon at about 10:20 pm
22 November 1992	70 knot wind gust recorded from a thunderstorm at Great Keppel Island at about 8:30pm
18 December 1995	60knot wind gust recorded by Keppel Sands Coast Guard. The storm struck shortly after 5:30pm
21 September 1996	Estimated wind gust of 54knots at Great Keppel Island. The storm struck shortly after 2pm
1 January 1997	92mm was recorded in an hour at The Caves (estimated ARI between 50 and 100 years) between 3:30pm and 4:30pm.
28 August 1999	Marble to golf ball sized (4.4cm) hail fell at The Caves at about 4 pm
11 December 2001	Widespread thunderstorms occurred over the Capricornia district, 20 cent piece sized (approximately 2.8cm) hail was reported from Yeppoon at about 2pm. Wind gusts were estimated at 80km per hour (approximately 45knots). Some trees were blown down onto cars in the town
October - December	In Queensland this was the most active thunderstorm season on record.

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Prevention and Preparedness Strategies

Prevention

- development control including planning schemes;
- building codes; and
- adequate private insurance.

Preparedness

- community education and engagement including periodical clean-up of yards/gardens;
- ensure effective Disaster Management Plan with buy in by all agencies;
- effective exercise management, including lessons learnt are implemented and the LDMP is updated;
- maintain an effective SES Unit;
- emergency alerts saved on the Disaster Management Portal and tested;
- maintain communication interoperability between agencies;
- trained Local Disaster Management members as required by QFES Training Matrix;
- trained staff working in the LDCC including agency liaison officers;
- develop local community co-ordination groups to empower the community;
- new residence packs;
- natural hazards DVD;
- review LDMP and membership;
- · Public Cyclone Shelter Sub Committee; and
- Public Cyclone Shelter exercise and trained staff including fly in teams.

Response

- events responded to as quickly as possible by all agencies;
- issue warnings;
- LDCC and dedicated resources for larger incidents, multi-agency response;
- all agencies workable and functional Business Continuity Plan to ensure capacity to provide; resources in the QDMA; and
- LSC communication sub plan.

Recovery

- Community Recovery Plan;
- · Recovery Committee (LDMG subcommittee);
- Insurance Council of Australia; and
- Local/State/Federal essential infrastructure restoration.

9.1.6 Tomado

The Livingstone Shire area can be subject to severe weather other than that associated with tropical cyclones including severe thunderstorms and tornados. Tornados are the rarest and most violent of thunderstorm phenomena, formed from rapidly rotating columns of air that descend in the well-known funnel shape from the base of a storm cloud. A tornado vortex, which can range in width from a few metres to hundreds of metres, usually rotates clockwise in the southern hemisphere (viewed from above) and contains very damaging winds that may reach more than 450 km/h. Damage associated

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with tornados is predominately due to the high wind speeds which lift large objects, vehicles and destroy structures. Injuries and death are caused by violent winds and debris slamming into buildings, falling trees and projectiles.

Tomados form from rapidly rising air currents inside a cloud. As it rises higher up in the atmosphere, often to the base of the stratosphere, the air cools and condenses to form classic cumulus and cumulonimbus clouds. Windshear within the clouds occurs due to the difference between wind speed along the ground and higher up in the atmosphere. A thunderstorm super-cell forms when wind shear reaches 30 to 40km/hour between the surface and about 3,000m up in the air. The wind shear causes air to spin in tube-like rolls along a horizontal axis. The convective updraft of the thunderstorm

then sucks this rolling air upwards around a vertical axis to form a tornado. A tornado vortex can be between two and ten kilometres across, gradually narrowing and spinning more fiercely through the super-cell. Only about half of super-cells intensify enough to become tornados on the ground.

The most intense tornado recorded in Australia occurred at Bucca, west of Bundaberg approximately 200 km south-east of Rockhampton, on 29 November 1992. The intensity of the winds created freak effects, such as embedding a picture frame in the wall of a room. Hail the size of cricket balls accompanied the storm.

1992	A freak storm in Torquay approximately 200km south-east of Rockhampton reported as a mini tornado, ripped through the 40-year-old fire station and left a pile of rubble in its wake.
22 December 1995	A tornado was reported at Mulgildie (Qld), approximately 150km south-east of Rockhampton; twelve homes were partially or completely unroofed, farm sheds demolished and a piggery flattened.
10 July 2000	Unseasonal thunderstorms across the Central and Southeast. A gust to 96km/h and a blanket of hail to pea size was observed at Emerald on the 10th. Hail was also reported at Gin Gin, Kingaroy, Tungamull near Emu Park, Kinka Beach and Nanango, but the only significantly large hail, twice the size of golf balls was reported at Woodford.
2 November 2000	Severe storm tore a path of destruction through North Rockhampton suburbs, with reports of up to five tornados (evidence of at least one confirmed by the Bureau). Estimated damage bill is \$200,000 plus, with widespread tree damage and roofing damage to some houses. Golf ball sized hail was reported in the outer suburbs with wind estimates to about 150km/h, but only 78km/h was actually measured at Rockhampton airport. A large truck was lifted and thrown about 50m.
7 November 2000	Raglan Station near Rockhampton reported 20 cent sized hail with major damage to the homestead and property. The homestead roof had been lifted and dumped to the side of the house. There was extensive damage to a nearby farm residence and a machinery shed was destroyed.
19 March 2001	A line of thunderstorms extended from Rockhampton to Tin Can Bay with several thunderstorms reaching severe intensity during the afternoon. Severe wind damage and pea sized hail was reported from a property near Calliope and flash flooding was reported along the Hervey Bay esplanade.
24-26 April 2001	Golf ball sized hail and 70mm of rain was reported from Aips Creek (west of Rockhampton) on the 24th. On the 26th a suspected tomado was reported from Jambin (near Biloela). Damage was confined to a one km track which caused tree damage and 56mm of rain was recorded in 35 minutes.
6 May 2001	Tornado with estimated wind gusts of 75 to 90 km/h occurred in north Yeppoon. Multiple water spouts were also observed in Kappel Bay.

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19 November 2001	Strong storms occurred in the Capricornia district which affected the Rockhampton and Gladstone areas. Trees were uprooted, power lines brought down, and minor building damage was sustained in Rockhampton, Gracemere and Gladstone.			
12 January 2002	A thunderstorm in the Mount Morgan/Rockhampton area closed the Burnett Highway and other roads for more than 4 hours between 7pm and 12am. Damage included fallen trees, fallen rocks, mudslides and rising creeks.			
25 November 2005	A tornado was reported at Mulgildie (Qld), approximately 150km south-east of Rockhampton; twelve homes were partially or completely unroofed, farm sheds demolished and a piggery flattened.			
7 Febuary 2010	A tornado struck a farm just south of the town of Atherton in Queensland, Australia causing damage to corn fields and farm equipment.			
20 March 2012	A tornado caused major structural and tree damage in the suburb of Vincent. Windspeed estimated at 160–200km/h (99–124mph) from damage analysis. Other suburbs affected were Garbutt, Gulliver, Aitkenvale, and Annandale.			
26–27 January 2013	Several tornadoes struck the Bundaberg region of Central Queensland on 26 January, associated with the remnants of Cyclone Oswald. The first struck Bargara at 1.00pm (AEST), tearing roofs from buildings, and injuring at least six people. Burnett Heads was struck by three separate tornadoes, at 3.15pm and 6.05pm, and again at 6.30pm. Another tornado crossed the coast at Coonar and a sixth tornado occurred at Burrum Heads on 27 January, whilst there were unconfirmed reports of a tornado at Brible Island.			

Prevention and Preparedness Strategies

Prevention

- development control including planning schemes;
- building codes; and
- adequate private insurance.

Preparedness

- community education and engagement including periodical clean-up of yards/gardens;
- ensure effective Disaster Management Plan with buy in by all agencies;
- effective exercise management, including lessons learnt are implemented and the LDMP is updated:
- maintain an effective SES Unit;
- · emergency alerts saved on the Disaster Management Portal and tested;
- maintain communication interoperability between agencies;
- trained Local Disaster Management members as required by QFES Training Matrix;
- trained staff working in the LDCC including agency liaison officers;
- · develop local community co-ordination groups to empower the community;
- new residence packs:
- natural hazards DVD;
- review LDMP and membership;
- Public Cyclone Shelter Sub Committee; and
- Public Cyclone Shelter exercise and trained staff including fly in teams.

Response

- events responded to as quickly as possible by all agencies;
- issue warnings;

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- LDCC and dedicated resources for larger incidents, multi-agency response;
- all agencies workable and functional Business Continuity Plan to ensure capacity to provide resources in the QDMA; and
- LSC Communication Sub Plan.

Recovery

- Community Recovery Plan;
- Recovery Committee (LDMG subcommittee);
- Insurance Council of Australia; and
- Local/State/Federal essential infrastructure restoration.

9.1.7 Flooding

The BoM uses a three tiered classification scheme that defines flooding as minor, moderate or major at key river height stations. Each classification is defined by the water level that causes certain impacts upstream and downstream of the station. These levels have been determined based on standard descriptions of flood effects (see below), historical data and relevant local information. The classifications are revised from time to time by the Bureau's partner agencies and affected communities.

Minor 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.

Moderate flooding

In addition to the above, the area of inundation is more substantial. Main traffic routes may be affected. Some buildings may be affected above the floor level. Evacuation of flood affected areas may be required. In rural areas removal of stock is required.

Major 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. Utility services may be impacted.

The primary effects of flooding are physical damage to property, infrastructure, people or livestock and disruption to regular way-of-life. Flood damage to buildings can be separated into contents and structural damage. The greatest increase in damage to single storey residential buildings, both structural and to contents occurs within the first half metre of over floor flooding. Almost all damage to contents occurs within the first metre of over floor flooding.

There are a large number of creeks throughout the region that could cause localised flooding. Some of these creeks are in residential areas, such as: Ross Creek and Fig Tree Creek in Yeppoon, Flooding in these areas is likely to impact upon houses and business. There are also a large number of creeks in rural areas which may impact upon fewer people but still have widespread impacts. Flooding occurs regularly in rural areas such as Byfield, Stony Creek and Stanage Bay - Stanage Bay Road is regularly impassable.

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The short duration of local catchment events makes them harder to predict and more difficult to provide warnings about. Flash flooding is the most dangerous form of flooding and is the most likely to cause loss of life.

Prevention and Preparedness Strategies

Prevention

- development control including planning schemes;
- building codes; and
- adequate private insurance.

Preparedness

- community education and engagement including periodical clean-up of yards/gardens;
- ensure effective Disaster Management Plan with buy in by all agencies;
- effective exercise management, including lessons learnt are implemented and the LDMP is updated;
- maintain an effective SES Unit;
- emergency alerts saved on the Disaster Management Portal and tested;
- maintain communication interoperability between agencies;
- trained Local Disaster Management members as required by QFES Training Matrix;
- trained staff working in the LDCC including agency liaison officers;
- develop local community co-ordination groups to empower the community;
- new residence packs;
- natural hazards DVD;
- · review LDMP and membership;
- Public Cyclone Shelter Sub Committee; and
- Public Cyclone Shelter exercise and trained staff including fly in teams.

Response

- events responded to as quickly as possible by all agencies;
- issue warnings;
- LDCC and dedicated resources for larger incidents, multi-agency response;
- all agencies workable and functional Business Continuity Plan to ensure capacity to provide resources in the QDMA; and
- LSC Communication Sub Plan.

Recovery

- Community Recovery Plan;
- Recovery Committee (LDMG subcommittee);
- Insurance Council of Australia; and
- Local/State/Federal essential infrastructure restoration.

9.1.7.1 Fitzroy River Flood

The Fitzroy River catchment is the second largest catchment in Australia and because of its size is capable of producing severe flooding on its floodplain following heavy rainfall events as a result of any one of the mechanisms described above. The Fitzroy River catchment includes the Dawson, Mackenzie, Comet, Nogoa, Connors and Isaac River systems and Fitzroy River floods can come from any of these rivers. Large volumes of rainfall in the lower catchment also have the potential to cause flooding. Areas affected include Yaamba, Belmont and Nerimbera within the Livingstone Shire. Flood inundation maps for these locations can be found on Coucil's website.

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Conclusions

Localised flooding is an annual problem which can occur in any month of the year, but flooding is most likely to occur in the months from December through to March.

Prevention and Preparedness Strategies

Short

- maintain an effective SES Unit;
- public education;
- public access to local Plan; and
- staff who are conversant with Resupply policy and procedure.

Medium

- town planning; and
- adequate private insurance.

Long

- town planning; and
- upgrade flood affected roads and bridges.

Areas of Significant Risk

low lying.

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Fitzroy River has a history of floods previous to deamalgamation, since deamalgamation 1 major flood has been recorded.

Past Major Floods

2017 Fitzroy River Flood – peaking at 16.1m Yaamba and 8.8m Rockhampton.

9.1.8 Tsunami

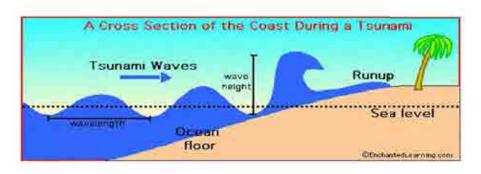
A tsunami is a series of water waves caused by the displacement of a large volume of a body of water. Due to the large volumes of water and energy involved, tsunamis can devastate coastal regions. Events which have the potential to generate a tsunami are, but not limited to:

- earthquakes;
- volcanic eruptions;
- underwater explosions;
- landslides and other mass movements;
- meteorite ocean impacts; and
- any large disturbance above or below water level.

The entire Livingstone Shire coastal area is at risk from tsunami including Great Keppel, North Keppel and Pumpkin Islands which are popular tourist destinations. Other smaller islands, offering limited protection, have camping groups on them that may need evacuation, including Middle, Miall, Conical, Divided, Pelican and Humpy Islands. These destinations may have several thousand tourists between them that need to be considered as part of the emergency response to tsunami events.

Tsunami waves can inundate low lying coastal areas. Tsunami inundation is the horizontal, inland penetration of waves from the shoreline. Flooding can extend inland by kilometres, covering large areas of land with water and debris. When the tsunami reaches the coast and moves inland, the water

level can rise many metres. The first wave may not be the largest in the series of waves. Tsunamis may reach a maximum vertical height onshore above sea level, often called a run-up height, of tens of metres. The fast-moving water associated with the inundating tsunami can crush homes and other coastal structures. Regular ocean waves move in the water from the surface down to around 150m deep, but a tsunami moves in the water all the way to the seafloor. Therefore, the volume of water that is moved by a tsunami is significantly more than the amount moved by regular ocean waves. Tsunami heights are unpredictable and depend on the severity of the event (earthquake, explosion etc.) which triggers the tsunami. Severe tsunamis cause extensive damage and devastation.



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9.1.9 Pacific Tsunami Warning Centre (PTWS)

In the deep ocean, a tsunami has a small amplitude (less than 1m) but very long wavelength (hundreds of kilometres). This means that the slope, or steepness of the wave is very small, so it is practically undetectable to the human eye. However, there are ocean observing instruments that are able to detect tsunamis.

Tide gauges measure the height of the sea-surface and are primarily used for measuring tide levels. Most of the tide gauges operated by the Bureau of Meteorology's National Tidal Centre are SEAFRAME stations (Sea Level Fine Resolution Acoustic Measuring Equipment). These consist of an acoustic sensor connected to a vertical tube open at the lower end which is in the water. The acoustic sensor emits a sound pulse which travels from the top of the tube down to the water surface, and is then reflected back up the tube. The distance to the water level can then be calculated using the travel time of the pulse. This system filters out small-scale effects like wind-waves and has the capacity to measure sea level changes within 1mm accuracy.

The DART System

In 1995 the National Oceanic and Atmospheric Administration (NOAA) began developing the Deep Ocean Assessment and Reporting of Tsunamis (DART) system. An array of stations are currently deployed in the Pacific Ocean. These stations give detailed information about tsunamis while they are still offshore. Each station consists of a sea-bed bottom pressure recorder which detects the passage of a tsunami (the pressure of the water column is related to the height of the sea-surface). The data is then transmitted to a surface buoy via sonar. The surface buoy then radios the information to the Pacific Tsunami Warning Centre (PTWC) via satellite. The bottom pressure recorder lasts for two years while the surface buoy is replaced every year. The system has considerably improved the forecasting and warning of tsunamis in the Pacific Ocean.

Due to the limited warning time for a tsunami (30min, a few hours at the most), it is very important for people to plan and prepare their family or household for a tsunami in advance.

In a broad sense selsmic hazard relates to the damage caused by earthquakes, which can pose a threat to infrastructure, buildings, services and ultimately, life. The nature of the seismic hazards can be categorised into:

- fault rupture;
- ground shaking;
- liquefaction of soils including flow slides;
- induced slope failures; and
- tsunami and seiche (occurring at sea).

Australian Tsunami History

Large tsunami are rare and have been triggered by volcanic eruptions or earthquakes. The table below shows the last 30 years of tsunami recorded.

Dom:	Sinh	Locuton	Determ
May 8, 1986	NSW	Aleutian Islands	
May 23, 1989	NSW, TAS	Macquarie Island	

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October 19, 1989	NSW	California, USA	
June 3, 1994	WA	Java	Fish, rocks and coral carried two to three hundred metres inland along parts of the coastline near the Northwest Cape.
May 15, 1995	NSW	New Caledonia	
December 26, 2004	NSW, OLD, SA, TAS, VIC., WA	Sumatra	Major Indian Ocean tsunami, 35 people rescued from hip currents, boats damaged in marinas (especially in WA, but also including as far as Tasmania), some limited and localised inundation of emmediate forceshores in a small number of WA coastal towns.
May 3, 2006	NSW, QLD, TAS, VIC	Tonga	
July 17, 2006	SA, WA	Java	Affected parts of the WA coast particularly Steep Point (WA). Widespread erosion. extensive vegetation damage and several campsites destroyed. Evidence of inundation up to 200 metres inland.
April 2, 2007	NSW	Solomon Islands	Dangerous rips and ourrents reported at Coffs Harbour
July 15, 2009	NSW, TAS	New Zealand	
February 28, 2010	NSW, QLD, TAS	Chile	50cm wave at Norfolk Island, 42cm wave at Gold Coast QLD 29cm wave at Port Kembia NSW, and a 28cm wave at Southport TAS
March 11, 2011	NSW, TAS	Japán	56cm wave at Norfolk Island, 35cm wave at Port Kembla NSW, and a 23cm wave at Spring Bay TAS. Unusual currents noted at Port Kembla and Sydney Harbour, Several swimmers washed into a lagoon at Merimbula NSW

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Prevention

- development control including planning schemes;
- building codes; and
- all hazard protection plans for high risk communities.

Preparedness

- community education and engagement of at risk areas and understanding evacuation routes;
- ensure effective Disaster Management Plan with buy in by all agencies;
- effective exercise management, including lessons learnt are implemented and the LDMP is updated:
- emergency alerts saved on the Disaster Management Portal and tested;
- maintain communication interoperability between agencies;
- trained Local Disaster Management members as required by QFES Training Matrix;
- trained staff working in the LDCC including agency liaison officers;
- develop local community co-ordination groups to empower the community;
- new residence packs;
- natural Hazards DVD; and
- review LDMP and membership.

Response

- events responded to as quickly as possible by all agencies;
- activate Public Cyclone Shelters and Places of Refuge;
- issue warnings including EA;
- LDCC Centre and dedicated resources for larger incidents, multi-agency response;
- all agencies workable and functional Business Continuity Plan to ensure capacity to provide and resources in the QDMA.

9.1.10 Earthquake

Geo Science Australia states that earthquakes are the vibrations caused by rocks breaking under stress. The underground surface along which the rock breaks and moves is called a fault plane. Earthquakes in Australia are usually caused by movements along faults as a result of compression in the Earth's crust.

The size or magnitude of earthquakes is determined by measuring the amplitude of the seismic waves recorded on a seismograph and the distance of the seismograph from the earthquake. These are put into a formula which converts them to a magnitude, which is a measure of the energy released by the earthquake. For every unit increase in magnitude, there is roughly a thirty-fold increase in the energy released. For instance, a magnitude 6.0 earthquake releases approximately 30 times more energy than a magnitude 5.0 earthquake, while a magnitude 7.0 earthquake releases approximately 900 times (30x30) more energy than a magnitude 5.0.

A magnitude 8.6 earthquake releases energy equivalent to about 10 000 atomic bombs of the type developed in World War II. Fortunately, smaller earthquakes occur much more frequently than large ones and most cause little or no damage.

Earthquake magnitude was traditionally measured on the Richter scale. It is often now calculated from seismic moment, which is proportional to the fault area multiplied by the average displacement on the fault.

The focus of an earthquake is the point where it originated within the Earth. The earthquake epicentre is the point on the Earth's surface directly above the focus.

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The amplitude of the shaking caused by an earthquake depends on many factors, such as the magnitude, distance from the epicentre, depth of focus, topography, and the local ground conditions. Earthquake effects, as noted by people, are rated using the Modified Mercalli (MM) intensity scale, which ranges from I (imperceptible) up to XII (total destruction).

Geoscience Australia lists 375 earthequakes in Queensland since January 2000. Below is the list of the 20 most highest magnitude.



Magnitude	Date	Time	Location Offshore NE of Bowen, QLD			
5.8	18 August 2016	4:30:07				
5.4	30 July 2015	09:41:43	Offshore E of Fraser Island, QLD (GA revised 3D corrections).			
5.3	16 April 2011	15:31:18	Near Bowen, QLD.			
5.3	01 August 2015	13:38:45	Offshore E of Fraser Island, QLD (GA revised 3D corrections).			
5.2	16 February 2015	02:57:09	Near Eidsvold, QLD.			
5.1	01 August 2015	14:46:26	Offshore E of Fraser Island, QLD.			
4.8	11 August 2003	17:04:29	E of Ingham QLD. Nearest station. Felt in Ingham, Calms and Townsville, QLD.			
4.4	17 January 2004	02:05:56	SE of Monto QLD. Nearest station RMQ.			
4.2	14 February 2008	08:57:27	112 km NE of Cunnamulla QLD. Nearest station RMQ.			
4.1	16 April 2011	17:06:52	Near Bowen, QLD.			
4.1	29 December 2005	07:54:52	W of St George QLD. Nearest station QLP.			
4.0	12 October 2001	10:05:53	N of Fraser Island QLD. Felt at Lady Elliot Island:			
4.0	16 February 2015	16:56:49	Near Eidsvold, QLD.			
4.0	14 August 2015	11:06:55	Offshore E of Fraser Island, QLD.			
4.0	23 October 2015	07:45:14	Offshore E of Fraser Island, QLD.			
4.0	18 September 2011	02:28:27	SW of Bowen, QLD.			
3.9	25 October 2000	16:42:02	Tasman Sea, 200 km E of Brisbane QLD.			

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3.9	30 July 2015	09:45:00	Offshore E of Fraser Island, QLD.	
3.9	28 July 2006	15:49:23	Offshore Ingham QLD. Nearest station CTA:	
3.9	25 August 2007	16:06:52	N of Daiby QLD. Nearest station EIDS.	

Warnings

It is not possible to predict the occurrence of earthquakes and provide warnings other than broad, regional assessments of the likelihood of occurrence over time somewhere within that region.

Prevention and Preparedness Strategies

Long

public awareness.

9.1.11 Landslip

There has not been a landslide assessment study of the area and the Australian Geological Survey Organisations' database indicates that there have been no reported landslides in the area.

Whilst landslides in the area are not expected to be a significant problem it should be noted that in Australia, 52 landslides are known to have caused injury or death during the period 1842 to 2000. At least 84 people have been killed and 87 injured. The events which caused death varied from the topple or fall of a single rock, to a spectacular debris flow. Some were the result of human activity, while others were naturally occurring events. Because of the scarcity of readily available data, it is not possible to estimate the total economic loss due to landslides.

Most of the loss has resulted from damage to infrastructure such as roads, railways and water and sewerage systems. Fifty-eight landslides throughout Australia are known to have caused damage to a total of over 200 buildings, many of which were destroyed.

Livingstone Shire has had landslips in the past including:

- Gus Moore Street, Yeppoon (2008) earth movements from underneath a driveway;
- Statue Bay (2008 and previous) Scenic Highway was closed;
- Statue Bay (2015) As a result of TC Marcia; and
- 'Bluff' (2018)

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(Statue Bay 2015, The Morning Bulletin 2015,)



("Bluff, Farnborough Road 2018, The Morning Bulletin 2018.)

Warnings

There are no systems or procedures designed to provide warnings of landslide in Australia. Since 2001, however, the BoM Queensland Regional Office has included statements relating to the possibility of landslide in their severe weather warnings when they anticipate intense rainfall. Such warnings are non-specific.

9.1.12 Heatwave

A heatwave can be defined as a prolonged period of excessive heat which remains within or above the upper temperature values for a prolonged period of time. There is no universal definition of a heatwave because local acclimatisation and adaptation influence the impact of extreme heat. Even at a local level there can be multiple heatwave definitions, based on varying temperature levels or time periods. It is important to identify an appropriate definition of heatwave locally and to understand its

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health effects in order to develop appropriate public health intervention strategies to prevent and mitigate the impact of heatwaves.

In Queensland, maximum temperatures typically occur between November and February, but days of excessive heat can occur between October and March. Using the threshold for temperature within the top 5% of daily maximum temperatures for a continuous three-day period, at least 18 heat wave events have been identified since 1899 giving an average recurrence interval (ARI) of 5 to 6 years. January is the most common month in which to experience a heat wave episode.

The impact of healwaves extends further than mortality rates. High temperatures are linked to:

- increased hospital admissions relating to heat stress, dehydration, or as a result of heat exacerbating existing conditions;
- increased rates of certain crimes particularly those related to aggressive behaviour such as homicide;
- increased number of work-related accidents and reduced work productivity; and
- decreased sports performance.

Prevention and Preparedness Strategies

Short

public awareness.

Medium

data base of air-conditioned facilities.

Areas Affected

no area within Livingstone Shire is immune from heatwave conditions.

Effects

The combined effect of high temperatures and humidity on human health has already been described. Extended periods of high temperature can also have a damaging effect on most infrastructure elements. Railway tracks can buckle causing trains to either derail or to travel at slow speeds. Road surfaces can become damaged by traffic over softened bitumen.

Most significantly, power supplies can be threatened because of high peak demand for air conditioning and other cooling devices. The loss of power supply will greatly exacerbate the health impact. Similarly, the demand for water will also be greatly increased and the loss of power supply may also compromise the water supply.

9,1.13 Climate Change

It is now widely accepted that the natural atmospheric greenhouse effect has been enhanced by anthropogenic activities including the burning of fossil fuels. Climate change scientists from the Intergovernmental Panel on Climate Change believe that "the projected rate of warming is very likely to be without precedent during at least the last 10,000 years, based on paleoclimate data" (IPCC 2001).

In August 2010, the Australian Academy of Sciences outlined changes in Australian climate including:

- an increase of about 0.7°C in average surface temperature since 1960, with some areas having warmed faster and others showing little evidence of warming;
- an increase in the frequency of extremely hot days;
- a decrease in the frequency of cold days;
- significant increase in rainfall over north-western Australia;

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- decrease in rainfall over south-eastern Australia;
- sea level rise of about 1.2mm per year since 1920;
- future impacts of climate change on Australia are likely to include:
 - projected increases in average surface temperature of 0.6 to 1.5°C by 2030 and 2.2 to 5.0°C by 2070
 - decreased average annual rainfall over much of Australia
 - o more intense rainfall on days with heavy rainfall over many areas
 - an increase in the proportion of severe tropical cyclones, with a possible decrease in the total number of cyclones
 - more frequent heatwaves
 - more frequent droughts.

9.2 Hazard Identification - Non Natural Hazards

Non natural hazards are typically due to human involvment and not the environment. The planning and control of these types of incidents is the responsibility of some LDMG member agencies until the impact escalates to a high level therefore requiring the activation of the LDMG and LDCC in support of the lead agency. The plans covering these incidents are developed by the lead agency and interfaced with the LDMP where possible.

9.2.1 Civil Riot

A civil riot is a violent disturbance to public peace by three or more people. With the potential for public demonstrations to be held for varying reasons in Livingstone there is the risk of escalation to a riot. The level of impact would be dependent on the extent and numbers involved. Typically there would be disruptions to traffic within the area, security risks for any significant visitors and/or residents, community disconnectedness through lower attendance to events and damage to the infrastructure if targeted. LS has a level of political focus due to environmental significant areas and the presence of the Australian Defence Force in Shoal Water Bay.

9.2.2 Terrorist Attack

World events in recent times demonstrate that terrorism is a credible and serious threat for Australia. Specifically, the Australian Government's current security context acknowledges the interest and intent of terrorists to target mass gatherings and events.

The 2002 and 2005 Bali bombings and the attack on the Australian embassy in Jakarta in 2004 demonstrated the threat of terrorism in our region. The terrorist attacks in London and Madrid highlighted the possibility of a similar attack in Australia.

Prevention and Preparedness Strategies

Prevention

- individual agency procedures;
- review and practice of emergency response plans;
- Crimes Prevention Through Environmental Design (CPTED) including, Closed Circuit Television (CCTV) network, building design, design of public areas, lighting;
- physical security measures including, protective security measures, access controls, security plans;
- well-designed communication plans and the provision of information;
- provision of threat information and protection by QPS; and
- regular review of the CT Plans
- educate the public on the Police Link web site that describes suspicious activity by calling

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131 444 or visit https://www.police.qld.gov.au/apps/reports/suspiciousActivities.

Preparedness

- intelligence (via network police);
- community awareness (State government program);
- identification of risks;
- QPS (and other Agency) training;
- liaison with Federal Government for protection arrangements; and
- Disaster Management Communication Plan.

Response

- emergency services response;
- scientific QFES;
- QPS specialists bomb squad;
- QAS multi-casualty plan;
- Queensland Health multi-casualty plan;
- preservation of evidence; and
- provision of information to the public (in accordance with Government policy).

Recovery

- welfare response;
- support business' assist with business continuity;
- Chemical Biological and Radiological (CBR) Contamination to be managed by restrictions/quarantine of the immediate vicinity; and Investigation

Areas Affected

- government facilities;
- places of mass gathering; and
- transport sector.

9.2.3 Major Transport Incident

Road

The need for the LDMG to become involved in a road accident would probably only be occasioned by an accident involving a tourist coach, semi-trailer or the like and would be for welfare requirements.

With Great Keppel Island and the tourism to the islands, many tourist coaches traverse the roads from Rockhampton to the Coast as well as along the Bruce Highway. In addition to these coaches, large semi-trailers traverse the highway and cattle floats and timber jinkers are prevalent on most Shire roads. Traffic counts reveal that approximately 20-25% of the Shire traffic is in the heavy category.

Prevention and Preparedness Strategies

Short

- maintain effective Emergecy Services;
- driver awareness; and
- visible police presence on major roadways.

Medium

- driver education; and
- medical and evacuation plan.

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Long

- reduction of blackspots;
- regular review of emergency procedures; and
- improvements to the road network.

Rail

The main northern railway traverses the Shire for most of the length of its area. Passenger trains and heavily laden goods trains travel this line many times a day.

Air

Whilst LS has only one airfield under its control (Emu Park), many private airstrips exist on rural holdings throughout the Shire, as well as the bitumen surfaced private airstrip on Great Keppel Island. In addition to these strips, there are several air strips within the Shoalwater Bay Army Training Area.

Commercial flights fly over the Shire on the approach and departure from Rockhampton Airport. With these commercial flights, military and private flights etcetera. The possibility of an incident is always present.

Prevention and Preparedness Strategies

Short

- maintain the aerodromes;
- public awareness.

Medium

provision of adequate fire and rescue equipment.

Long

long term strategies are the responsibility of other authorities.

Areas Affected

All townships as aircrafts fly the whole of the Region on manoeuvres at various times.

Recurrence

Air accident is considered to be a random event.

Mitigation

Aviation authorities conduct air safety programs.

Marine

Several thousand small boats are registered in the Central Queensland area. Most of these vessels are outbound on fishing trips and sightseeing expeditions to offshore islands and reefs. Adverse weather conditions and the inexperience of operators could contribute to accidents of varying magnitude.

In addition to boats travelling to the reefs, many small boats traverse inland and along sheltered coastal waters to fish, water ski and boat race and, therefore have the potential to develop unforseen problems.

Passenger ferries operate on regular daily trips to Great Keppel Island and other offshore destinations from Rosslyn Bay. Whilst these vessels are "in survey" and regularly maintained, accidents can still occur in these types of vessels from time to time.

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Large bulk carriers, navy vessels and trawler fleets also ply the coastal waters of the Shire.

9.2.4 Hazardous Material Incident

The Bruce Highway and the main northern railway line both traverse the majority of the Shire both north and south. Many hazardous materials of varying types are transported by these methods. For this reason the potential for an incident of this type is ever present. Queensland Rail includes this risk in their operational plans.

Prevention and Preparedness Strategies

Short

- public education;
- periodical emergency service training;
- prohibition of parking of hazardous material transports in town areas, and
- provision of containment equipment.

Medium

- knowledge of evacuation plan;
- updated emergency contact lists; and
- knowledge of chemicals and markings.

Long

designated safe parking areas.

This risk can be assessed in 3 categories:-

1) HAZCHEM ROAD

As in any populated area, movement of hazardous chemical agents by road occurs. The potential therefore exists for accidents involving large quantities of Hazchem, with resultant explosion, fire and other public safety threats.

Areas Affected

Any area within the Shire may be affected. However, it is most likely areas abutting the Bruce Highway.

HAZCHEM RAIL

As the main northern rail link runs through the region, movement of large quantities of Hazchem by rail also occurs. However due to the nature of the transport agency, with more isolated storage and decreased risk of vehicular collision, this threat is not as significant as road transport.

Areas Affected

Areas abutting the northern rail link.

3) HAZCHEM OTHER

Hazchem may also be stored in commercial and industrial sites within the Shire. However, due to the absence of major Hazchem storage facilities in the Shire, and the relatively small quantities stored, this threat is not significant.

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Recurrence

There is no pattern to Hazchern accidents, however in the case of road and rail, the accident site is confined to defined areas.

Effects

The entry of hazardous material into dams, waterways and aquifers could have serious consequences on the community and all effort should be directed towards the prevention of such an occurrence.

Similarly, all measures should be taken to prevent inhalation of the materials in a chemical cloud.

Mitigation

The transportation of designated chemicals is regulated under State legislation. The responsible Authority conducts training courses in handling hazardous materials. The Region actively supports these activities and provides a Workplace Health and Safety Officer within the Council workforce.

9.2.5 Exotic Diseases (Animals and Plants)

Whilst various types of animals are in existence in the Shire, cattle and horses are in the largest numbers. For this reason it is anticipated that these are the most likely in which widespread disease would occur.

Other types of diseases carried into the area by migratory species such as birds or pests are most likely to introduce from the north, e.g. Papua New Guinea. Should this be the case and if the disease is recognised early enough, quarantine of the area may occur.

The impacts on local agricultural industry (livestock and produce) would be widespread due to quarantines and additional clearances and checks to move their products. It would also impact on the recreational activities such as horse events.

This differs from the medical epidemics. Whilst there are some diseases that impact only animals or plants, there are some that can infect humans also such as Hendra. There would need to be joint involvement between Biosecurity and Queensland Health with a situation like this. These are covered in the Medical Epidemic section.

Medical Epidemic and Infectious Disease (Including Influenza Pandemic)

With the possibility of large numbers of overseas tourists visiting the Shire, either in residence, at resorts or in transit to other locations, the likelihood of the introduction of an infectious disease is a distinct possibility. This probability is further increased by the overseas troops visiting the Shoalwater Bay Army Training Area. An epidemic would impact the localised Livingstone Shire and disrupt the community. Additionally there is the risk from other diseases that would reach pandemic scale, which is a risk of worldwide infection.

Since avian influenza broke out in late 2003, the World Health Organisation (WHO) has warned that, should this virus mutate and be transferrable from human to human, the world could be facing an influenza pandemic with significant consequences.

An influenza pandemic is a disease outbreak that occurs when:

- A new strain of influenza virus emerges to which no-one is immune;
- The virus causes disease in humans; and
- · The virus is easily spread between humans.

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In the absence of immunity, a new influenza strain could rapidly spread across the globe, causing epidemics or pandemics, infecting large numbers of people.

Yeppoon has a State-owned hospital, but in the event of an epidemic/pandemic it is more likely that patients would be treated in Rockhampton hospitals where specialist care would be more readily available.

Given the high standards of human health and hygiene and good veterinary and farming practices in Australia, it is not expected that a virus would originate and develop into a pandemic form in Australia. However, governments are preparing for an emerging pandemic overseas and subsequent arrival in Australia by applying a combination of strategies:

1. Alert

to the risk of a pandemic and preparing for a pandemic by increasing Australia's readiness and

supporting overseas responses;

2. Delay

the entry of the pandemic virus to Australia by applying border measures, supporting the overseas response and increasing surveillance;

3. Contain

or slow the early spread of a pandemic virus once it emerges in Australia, including by strategic deployment of the National Medical Stockpile and strengthening public information campaigns to promote individual hygiene practices and community level measures such as social distancing;

4. Sustain

the response while a customised vaccine is developed, including by supporting maintenance of essential infrastructure and services and strengthening community social distancing measures;

5. Control

the pandemic with a customised pandemic vaccine when it becomes widely available; and Recover

providing the necessary support and stimulus to help the Australian community return to normal living as quickly as possible following a pandemic.

Prevention and Preparedness Strategies

Short

public awareness.

Medium

pandamic sub plan and Queensand Health pandemic plan.

Long

evacuation plan.

Areas Affected

Any part or the entire Region may be affected.

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9.2.7 Marine Oil Spill

Rosslyn Bay small boat harbour and marina are the only constructed boat facilities in the Shire. Most of the vessels moored in, or visiting the harbour would be diesel powered and less than 30-40 metres in overall length.

Large bulk carriers and freighters traverse the waters between Mackay and Gladstone and use the Capricorn Channel and the Fitzroy River mouth to Port Alma.

Should a vessel have problems in these areas and therefore cause a loss of a large quantity of oil or similar material, the LDMG may be required to be notified and take action e.g. Shen Neng One grounding in 2010.

9.2.8 Critical Infrastructure Failure

A critical infrastructure failure within the Livingstone Shire would involve any of the following:

- information technology;
- telecommunications;
- water supply;
- sewerage treatment; and
- power supply.

A failure of one or more of these areas would impact on the Shire depending on how long the failure is for, the degree of the failure and if there is more than one area failing. A recent event of this occurring is during the Ex Tropical Cyclone Oswald event on Saturday 26th January 2013 when Telstra's two fibre optic cables were impacted and the areas telecommunications failed. This meant no landline, mobile or internet services for the entire shire on the Telstra network and several other providers due to congestion. This impacted on Emergency Services, Local Government and all residents. As this coincided with a large amount of rainfall in a short time it was fortunate nothing worse occurred as the community would not have been able to be warned by the typical avenues.

9.2.9 Space Debris Re-Entry

There is an increasing chance of space debris falling to earth due to the number of older satellites and decaying orbits. The National Plan sets out contingency arrangements to cover these events, Australian Contingency Plan for Radioactive Space Re-entry Debris (AUSCONPLAN-SPRED) details the arrangements for the Australian Government to inform States and Territories of any risk posed to Australian interests by the re-entry of space debris. The plan outlines how the Australian Government will support states and territories in the event that space debris should impact within their jurisdictions. The plan identifies roles and responsibilities for key Australian Government agencies and committees in supporting the response to space debris re-entry. It also details how support should be requested and how it would be managed.

Prevention and Preparedness Strategies

Short

· public awareness.

Medium

early notification of atmospheric entry and landing sites.

Long

evacuation plan.

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Areas Affected

Any part or the entire Region may be affected.

Effects

In addition to the possibility of impact damage of varying degrees, some satellites carry nuclear powered generators and other nuclear devices. Adequate warning, including details of the payload when known, is provided by Emergency Management Australia (EMA), which conducts the operation. Local agencies may be called upon to assist.

PART 10. QUEENSLAND EMERGENCY RISK ASSESSMENT

The Queensland Emergency Risk Management Framework (the Framework) is a set of components that aim to support risk based planning within the emergency management context in Queensland. The Framework is based on International Standards Organisation (ISO) 31000:2009, Risk management — Principles and guidelines and the National Emergency Risk Assessment Guidelines (NERAG) and is consistent with the Queensland Emergency Management Assurance Framework (EMAF) which includes the Standard for Disaster Management in Queensland.

Purpose

The aim of the Framework is to provide a consistent approach to assessing risk that can be operationalised and directly supports risk based planning for all levels of QDMA. It is designed to allow local, district and state levels to focus on risk assessment from the perspective of their roles and responsibilities under the QDMA and to then mutually support each other where appropriate.

Methodology

Whilst the Framework is based on ISO 31000, NERAG and EMAF, there are some differences in the Framework methodology to NERAG including:

- the Framework's assessment of likelihood, proposes the assessment of probability based on the historical likelihood. The aim of this approach is the assessment can be operationalised and directly support risk based planning;
- the addition of vulnerability into the assessment of risk will provide a consistent approach to
 assessing how vulnerable a community/site/area is prior to a disaster season based on key
 components that compose and sustain a community; and
- finally consequence is assessed.

The LDMG recognises that the risk assessment process is a shared responsibility and all agenices, should assist the risk assessment process including the management of residual risk (risk remaining after the risk treatment has been applied) beyond the capacity and capability of local arrangements. This includes by integrating the outcomes of disaster risk assessment into the disaster, business continuity, strategic and corporate plans and ensuring an improved understanding, co-ordination and resource allocation of disaster risk management at all levels through informed evidenced based research and education.

The LDMG supports the communication of residual risk outside normal Local and State Government departmental boundaries to ensure Whole of Government consideration and planning towards these risks.

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PART 11. CAPACITY BUILDING

11.1 Community Awareness

Section 30e of the Act requires the LDMG "to ensure the community is aware of ways of mitigating the adverse effects of an event, and preparing for, responding to, and recovering from a disaster".

The members and organisations that make up the LDMG currently provide public information and education programs to improve community awareness. These include:

- the Council's website and Facebook pages;
- LS Disaster Dashboard
- disaster and emergency community awareness brochures displayed and available in Council Offices and Libraries;
- preparedness articles in local papers and council newsletters;
- QLD State Government advertising, presentations, and website material;
- QFES advertising, presentations and website material;
- EMA Community Awareness Publications and Emergency Management for Schools Website;
- lectures to various organisations e.g. by Council Disaster Management and SES group leaders;
- development of a "disaster information pack" for distribution to new residents to the region;
- community information sessions, as required;
- presentations to local community groups and schools in regards to local disaster management arrangements and mitigation actions that may be taken by the community to prepare for and cope with hazards;
- Get Ready Week: and Business Continuity Workshops for local businesses;
- QFES Fire and Bushfire Awareness Program;
- BoM Weather Warnings and website material; and
- targeted engagement based on community vulnerabilities.

The Local Group recognises that providing information on how to look after yourself, your family, your home, business and community in the event of a natural or a man-made disaster is an effective way to build community resilience and help communities recover in the aftermath of an event. One of the key long term objectives of the Local Group is to provide this information in a timely, co-ordinated and accessible fashion.

Through the life of this plan the LDMG in association with QFES, and its media, business and community partners will undertake development, and promote the following key educational and awareness tools for distribution across the Livingstone Shire:

- household emergency plans;
- household emergency checklists;
- · business emergency plans; and
- business emergency checklists.

The aim of these plans will be to:

- encourage people and businesses to prepare themselves, their properties and their clients for disasters such as flooding, severe storm and high wind events;
- improve target audiences' safety awareness levels and safety behaviours during a disaster or emergency; and
- encourage people to be aware of, and care for their neighbours in the immediate aftermath of a disaster.

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Public education programmes are undertaken to ensure community awareness and preparedness. This builds the community's capacity to withstand the impacts from a disaster and recover following one. Targeted programs will be conducted based on community vulnerabilities. An annual community engagement strategy is developed by input of all agencies in particular the lead agency provides information on their responsibility. This information is to be shared at an LDMG meeting and incorporated into the annual operational plan of the LDMG.

11.2 Community Vulnerabilities

The Inspector-General Emergency Management (IGEM) Review of cyclone and storm tide sheltering arrangements Report 3: 2014-15 highlights the need to improve the way we work with vulnerable people in emergencies.

Everyone faces a degree of risk when a community is challenged by a natural disaster or emergency. Protective factors enable many people in a community to be better prepared and able to adapt to the impact of a disaster, for example, strong family and social connections. However, such factors may be limited in an individual or a community's daily life, resulting in vulnerability to higher levels of risk, injury or loss, or severe or longer term impacts than others.

Individuals, families and specific population groups susceptible to vulnerability factors and low levels of resilience, often require more targeted support to remain safe and to prepare for, respond to, and recover from, disaster events.

The Red Cross states; to determine people's vulnerability, two questions need to be asked:

- 1) To what threat or hazard are they vulnerable?
- 2) What makes them vulnerable to that threat or hazard?

Counteracting vulnerability requires:

- reducing the impact of the hazard itself where possible (through mitigation, prediction, warning and preparedness);
- b) building capacities to withstand and cope with hazards; and
- tackling the root causes of vulnerability, such as poverty, poor governance, discrimination, inequality and inadequate access to resources and livelihoods.

Within the LSC region there are populations that are more vulnerable in the event of a disaster. These groups include the cultural and linguistically diverse mentioned in 4.1.2.4, and those that have a need for assistance whom make up 5% (total of 1 819 residents) of the region's population. People with a need for assistance are those needing help or assistance in one or more of the three core activities of self-care, mobility and communication due to a health condition, disability or old age.

It is unknown how the National Disability Insurance Scheme will impact these individuals so this identified potential 'risk' is being monitored by the LSC Disaster Management Unit and the LS Human and Social Services Taskforce.

Table 6: Need for assistance with a profound or severe disability, Livingstone (S) LGA and Queensland, 2016

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LGA / State	Need for assistance		No need for assistance		Totalias
	number	76	number	%	number
Livingstone (S)	1,819	5,0	30,764	84.8	36,272
Queensland	243,267	5.2	4,103,669	87.3	4,703,193

(a) Includes need of assistance not stated.

Source: ABS, Census of Population and Housing, 2016, General Community Profile - G18

11.2.1 Wildfire

The Livingstone Shire has significant areas of native vegetation, and while this is an important asset for ecosystem services and amenity, under certain weather conditions there is a risk of uncontrolled wildfire. Currently QFES have compiled a wildfire plan due to the increased fuel load as a result of Tropical Cyclone Marcia.

In areas of significant native vegetation, the primary refuge for people is within their homes, and in the absence of catastrophic fire danger conditions, most residents can be expected to stay and defend their homes. QFES have adopted a policy/programme Prepare Act Survive. This includes information for people about deciding to leave early.

Visinerability of Lifelines

By far the most vulnerable lifeline is power due to its roll-on effect if overhead transmission lines are either disconnected or destroyed by fire. It is a standard practice to disconnect powerlines in fire affected areas, as the powerlines themselves can become a source of additional ignitions, on top of the obvious hazard to fire fighters if lines come down. Less well known is the potential for flame to conduct electricity. In the event that fire-fighters attempt to douse flames under live powerlines, the flame sheets have the potential to conduct electricity into the water streams, introducing an electrocution risk to an already serious situation.

Overhead communication lines would also be vulnerable at the same time. Due to the low factor loading of the bush areas and the clearing along the main transmission line routes the vulnerability of the power system is not particularly high. The main risk of overload comes from overuse of the facilities, as these services can experience significant demand spikes, exacerbated by the trend towards video and other large files from smart phones being transmitted.

Other lifelines including transport corridors have a low level of vulnerability in a wildfire scenario, however they may be closed temporarily due to fallen trees, branches or smoke.

Vidnerability of Critical Facilities

As mentioned above the loss of power would cause some degree of hardship due to its flow on effect to other lifelines (such as loss of reticulated water supply) and also critical facilities. However, critical facilities such as the hospitals should already have back-up emergency power capacity which would be sufficient.

Vulnerability of gas pipeline connections can also be an issue within urban areas due to exposure of nylon lines to high radiant heat fluxes. The exposure of these lines can lead to melting of the pipe causing a secondary fire against the exterior of the house as was found to be an additional issue within the 2003 Canberra fires.

Vulnerability of Local Economic Production and Employment

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A minor fire through the bush areas in the Livingstone Shire will only be of nuisance value to a local community if it can be controlled and no buildings or lives are lost. However, issues in some areas have the potential loss of significant numbers of livestock in the event of a major wildfire.

11.2.2 Cyclones

A significant vulnerability of the Livingstone Shire are areas developed pre-1980. This means that in the event of a severe cyclone or East Coast low, there is a high probability of significant damage from the cyclone and the secondary hazard of wind borne debris.

Vulnerability of People

Due to the high probability of significant damage, most people in the area will be vulnerable in the event of a severe cyclone.

The residents with dwellings close to the coastline or the adjacent islands will be vulnerable to the effects of a severe cyclone or East Coast low. The most typical damage will be from wind, wind borne debris and inundation from localised flooding and/or storm tide events.

The islands and resorts may have in place informal Emergency Management Plans for cyclonic events, the logistics of moving or evacuating a large number of tourists and staff to safe shelters needs to be well documented and rehearsed.

Stanage Bay is a key concern during the summer months, due to its popularity with transient family groups and its isolation. It is understood that there is a high level of preparedness amongst the local residents for possible isolation arising from the access roads being cut by flood waters. Although these residents understand the risks involved, Council has an underlying responsibility to support and carry out evacuations if required. This will not be an easy exercise to undertake should there be a cyclone in the area at the time. It is therefore recommended that specific evacuation procedures be prepared for Stanage Bay.

For the overall area, of particular concern, will be the vulnerable groups that have been identified above,

Vulnerability of Sociel Structures

The Livingstone Shire is well served with community groups which would help to decrease the level of vulnerability. However, a severe cyclone would undoubtedly stretch the capability of these groups. This vulnerability needs to be monitored closely as the age of the community increases.

The composition of the vulnerable groups also needs to be considered, however significant effort is required to maintain current information detailing numbers and locations.

Vulnerability of Buildings

Due to the significant proportion of building stock that is pre-1980, the vulnerability of residential buildings is relatively high for a severe cyclone. Additionally, a significant proportion of these buildings are also in the more exposed areas and due to their exposure will be subjected to greater wind loadings than those buildings shielded by the local ranges.

A secondary hazard of wind borne debris is likely to occur as these buildings suffer damage which will then increase the vulnerability of more structurally adequate buildings in the area. This will be a major concern for critical buildings such as the hospital and buildings designated as shellers.

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Public Cyclone Shelter and Place of Refuge

Livingstone has a Public Cyclone Shelter located at the Yeppoon High School (Yeppoon Public Cyclone Shelter SOP). Other buildings have been reviewed and are being assessed for the use as a place of refuge including:

- Keppel Sands rural fire shed;
- Emu Park State School's new block; and
- St Brendan's music room.

Vulnerability of Lifelines

The critical lifelines likely to be the most affected by Cyclones and East Coast Lows are:

- electrical power loss (overhead power lines destroyed), due to its flow on effect to all other services;
- communications loss (phones, internet);
- fuel supply loss from Gladstone and other centres;
- food supply loss from outside the area; and
- road access loss.

The vulnerability of the lifelines will be a function of their location and structural adequacy and whether they experience wind borne debris damage.

Vulnerability of Critical Facilities

The loss of power would cause hardship due to the reliance of most lifelines on power, particularly the supply of drinking water and sewerage services. If bulk food storage facilities are not cyclone wind resistant buildings, they will become vulnerable in the event of a severe cyclone.

Minor fuel supplies are stored in the area. If roads from Gladstone become inaccessible, the region could experience a shortage of supply of fuel, which could be problematic.

If sufficient warning cannot be given to the critical facilities to allow evacuation, then contingency plans within the LDMP need to be formulated and developed.

Vulnerability of Local Economic Production and Employment

An event involving a severe cyclone or low, depending on the severity, could have a long term impact on the area economically and upon employment levels.

11.2.3 Earthquakes

As earthquakes are difficult to model and have the capability to effect all of the region all areas are vulnerable.

Vulnerability of people

A significant number of people in Livingstone Shire are at risk from an earthquake. The resilience of the community is impaired for the following reasons:

buildings are not specifically designed to withstand earthquakes;

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- due to the extreme rarity of earthquakes in this region it would come unannounced and cause panic and mayhem amongst the residents not used to such a phenomena (e.g. the Newcastle earthquake experience); and
- lifelines would be severely disrupted, impacting greatly on the community, especially given its reliance on outside sources for water, fuel and power.

Vulnerability of social structures

The Livingstone Shire is well served with community groups which would help to decrease the level of vulnerability. However, a severe earthquake has the potential to affect a significant proportion of the community and cause damage to hundreds of buildings including buildings and infrastructure used by community groups.

As with all these natural disaster risks, the community elements most at risk are the young, aged, uninformed, or those who have a special need due to their lack of mobility and specialist care.

For example:

- hospitals, aged homes;
- emergency services facilities;
- shopping centres;
- community shelters;
- fuel supply installations; and
- school, churches etc.

Typically, structures with a reinforced concrete frame and unreinforced masonry infill are a popular form of low to medium rise construction used in hospitals and public works related structures such as schools. Infill panels are often brick or block which provides some lateral resistance. Upon cracking of

the infill masonry lateral loads are transferred to the concrete frame. Collapse can occur upon the disintegration of the infill or through shear failure of the frame.

Structures with reinforced masonry on concrete slab floors that comply with the current wind loading codes may perform well under moderate seismic activity. Older concrete block buildings not built to the wind or earthquake codes will be less earthquake resistant than the equivalent modern construction.

Due to the increased prevalence of cyclones buildings are often designed to perform adequately in high wind conditions. However, it was demonstrated in the major earthquake that hit Kobe in Japan, that older housing, which could withstand typhoons did not perform well in the seismic events.

Vulnerability of Lifelines.

By far the most vulnerable lifelines are:

- power and communications and their flow-on effect;
- underground services, e.g. water and sewerage services; and
- transport, e.g. bridges under certain circumstances may collapse.

All lifelines will be affected to varying degrees and emergency services will be similarly affected with members likely to be victims of the damage and disruption.

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No structure is truly immune to earthquake damage. The emphasis is to maintain lifelines and key facilities to allow a speedy return to normality after the event.

Vulnerability of local economic production and employment

A severe earthquake would cause an impact on the local economy and employment in the retail and commercial sectors of the region.

11.2.4 Landslips

Vulnerability of People

Damage to roads and slopes are the main concerns for people within the Livingstone Shire.

Vulnerability of Social Structures

The social structure in the Livingstone Shire is unlikely to be significantly vulnerable in this event as the majority of events would be small and would impact on a small number of people. Should an event occur which results in numerous fatalities (such as a Thredbo type landslide with 18 deaths) then more widespread social impact would be felt.

Vulnerability of Buildings

Buildings can be impacted by land sliding by either being in the zone of earth movement itself or be in the impact zone from the slide runout. Based on the limited base information that has been provided it is considered that vulnerability would generally result from either steep terrain (as an example, greater than 15%) or from land development which has not been carried out in a controlled and engineered process.

The structural damage that a building can undergo when impacted on by a landslide event can range from individual boulder impact, through mass earth and rock movement, to distress and cracking due to loss of lateral restraint.

Vulnerability of Lifelines

The most critical lifelines affected are:

- loss of electricity due to damage to lines or substations. The loss of electricity can affect many other services;
- · the loss of fixed line communications. Landslides can cut off trunk telecommunication lines;
- blockage to highways and other roads. While alternative routes would be available in most occasions, Byfield Road and its associated services, would be vulnerable should a landslide occur on the Bluff. This roadway provides a key linkage to the north of Yeppoon, including access to the Capricorn Resort; and
- water reservoirs and associated piping may be affected or damaged by landslides. Reservoirs are typically in steep terrain.

Vulnerability of Grucal Facilities

This is considered similar to the issues laid out in vulnerability of lifelines.

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Vulnerability of Local Economic Production and Employment

An event involving land sliding is likely to have an impact on a localised area of the community rather than an entire community. However, the Christchurch Earthquake in 2011 resulted in numerous deaths and widespread damage from land sliding. Therefore, in rare situations this significant impact can result.

11.2.5 Flooding

Communities on the floodplain are areas vulnerable to major flood events. In addition, areas close to local creeks/rivers and overland flow paths are also vulnerable to flooding, in particular flash flooding.

Vulnerability of People

Residents located in areas that are inundated or cut off by floodwaters and vehicles attempting to use flooded roadways are at risk from flood related problems. Council policy is to require new development to be placed above the 100 year ARI flood levels; however development and infrastructure in older portions of the region, are at risk of inundation and isolation.

Local catchment flooding is expected to be short lived whilst the Fitzroy River, and its tributaries such as Alligator Creek, influence a significant portion of the region and can cause inundation for prolonged periods. Those people in the immediate vicinity of the flood prone areas are at risk from flooding. There is also a significant risk of isolation in a number of areas, including Stockyard Point, Ogmore and Byfield.

Vulnerability of Lifelines

Streets and some major access roads will be closed including the Bruce Highway. The airstrip at the Rockhampton Airport will be inundated when floods reach gauge level 8.7m. In the rural areas, many local roads are cut during flood events, both Fitzroy River flooding and local creek flooding. Sewerage facilities may be vulnerable as well as the sewerage pumping stations. Electrical substations and some Telstra exchanges may be isolated due to flooded roads.

Vulnerability of Critical Facilities

No critical facilities that will overly impact the community have been identified.

Vulnerability of Local Economic Production and Employment

The local economy would be affected through lost production through the period of the event and the recovery phase which may also impact on employment levels. There may also be crop, fences and limited livestock losses.

11.2.6 Storm Tide

Cyclonic events besides being the source of destructive high winds also bring periods of high rainfall and storm surges which increase coastal water levels for periods of several hours. When these increased coastal water levels are combined with periods of heavy rainfall there is a significant flooding hazard.

This hazard is a concern for the coastal areas of the region. A Storm tide investigation has been completed, maps are available on the website for the community.

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Vulnerability of People

It is expected that storm tide inundation will be an issue as there are a number of communities that may be flooded and/or isolated by storm tide inundation. The areas at risk are detailed below as part of the Lifeline Vulnerability assessment.

Vulnerability of Social Structures

The Livingstone Shire is well served with community groups which would help to decrease the level of vulnerability. The effect of a severe storm tide would be quite devastating to the community and the development of Evacuation Sub plans, Communication sub plans, and Community Engagement strategies assist to minimise the vulnerability.

Vulnerability of Buildings

Vulnerable buildings will suffer the impacts from inundation as well as any impact from strong winds and wind borne debris. The water inundation could also cause severe damage to these buildings. Some areas may suffer significant long-term damage to buildings and the supporting infrastructure.

Vuinerability of Lifelines

Keppel Sands and Joskeleigh may become completely isolated during a storm surge, due to inundation of the Keppel Sands Road. These communities could not expect external assistance during an event and would need to be evacuated before significant sea level rise occurred as all of Joskeleigh and much of Keppel Sands may become inundated, and southern part of Keppel Sands is at risk from Pumpkin Creek breaking out (and wave break in over the seawall).

The urban area along the coastline may become fragmented with storm surge sea level rise potentially (depending on height of rise) cutting the Scenic Highway along the Coast at the following locations:

- Ross Creek (also affects Tanby Road and Taranganba Road);
- Cooee Bay (extreme events only);
- Lammermoor Beach;
- Statue Bay;
- Causeway;
- Kinka Creek; and
- The Rockhampton-Emu Park Road (Hill Street) is likely to be affected by surge in Cawarral Creek.

As a result of coincident stormwater runoff severing alternative inland access (where this access exists) areas likely to be isolated include:

- Emu Park and Zilzie;
- Kinka Beach;
- Residential area north of the Causeway;
- Rosslyn Bay and part of Statue Bay;
- South end of Lammermoor Beach and northern end of Statue Bay;
- Taranganba, south end of Cooee Bay, and north end of Lammermoor beach, and
- North End of Cooee Bay.

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Access to areas north of Yeppoon may become affected by storm surge and (particularly) wave action cutting the Yeppoon-Byfield Road near Farnborough Beach, and storm surge (in Probable Maximum Surge case) affecting bridges across Barwell's Creek.

Other access issues arise with the bottom end of Pinnacle Street, Causeway Lake being very low (currently street kerb and channel is affected by HAT), the only vehicular access path into this cul-desacs. During a storm surge, this access would be rapidly blocked to conventional vehicles.

Roads

Inundation of roads is most likely to occur as a result of backflow of tidal water through the existing open and underground stormwater drainage networks. Flow velocities are expected to be minimal, possibly in the order of 0.5m/s, and scour of road pavements or footpaths is therefore unlikely to be a source of major road infrastructure damage. Long term inundation of roads and footpaths (approximately 12 hours) may allow the underlying road pavements and subgrade to become waterlogged, resulting in a softening of the pavement structure. The pavement should return to pre-inundation strengths when the underlying pavement and subgrade has sufficiently dried. This may take some time after the surface water has receded.

When the inundation has receded it is recommended that vehicular use on recently inundated roads be restricted to single axle vehicles and emergency vehicles. Heavy or commercial vehicles, not required for emergency access, should be prevented from travelling on the affected roads until the pavements have regained sufficient strength. This time can vary considerably and is particularly dependent on the type of subgrade material. It is therefore recommended that Council engineers be consulted before unrestricted access is permitted.

Sewer

During wet weather, sewerage inflows tend to increase dramatically due to illegal stormwater connections and groundwater ingress. It could be expected that this would also be the case during periods of surge inundation.

Some areas south of Rosslyn Bay and north of Emu Park and Keppel Sands are not sewered. Some damage to individual septic systems due to seawater ingress or flotation of septic tanks can be expected. Seawater ingress would stop or hinder treatment of sewage in the tank, and result in release of essentially untreated waste into absorption trenches in saturated ground. Septic systems are typically private infrastructure (except for public toilets) but release of sewage has major public health implications.

Water Supply

The water supply system is typically located on elevated ground and or sealed underground infrastructure. Some above ground creek crossings may be at risk.

Electrical and Communications

The electrical infrastructure in the areas includes overhead and underground reliculation owned by Energy Queensland to provide electricity supply and underground reticulation owned by Telstra to provide communications and phone services.

Communications

The Telstra infrastructure is all underground reticulation. The system is therefore designed and installed to be robust against the ingress of water. The pit and conduit system is regularly inundated with water as part of the natural storm water dissipation. The cables and cable joints used are grease filled which can be submerged in low level water with no adverse effects. The cable connection pillars, which are located above ground, are also sealed and positively pressurised to prevent the ingress of water, however are not submersible.

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Electrical Supply

The Energy Queensland infrastructure is a combination of overhead and underground reticulation, 11kV and 415V services are reticulated to all areas. The overhead reticulation is suitably segregated from the rising water by virtue of being located well above ground level. The poles supporting the cables are able to withstand minor water flow around the base of the pole. Susceptible points in this system are locations where overhead and underground reticulation is joined at connection boxes.

The underground reticulation is robust against water due to the inherent resistance required for underground installations. The weak points are ground mounted and low level equipment, which is not

water proof. These include house metre panels, distribution pillars, padmount transformers and 11kV Ring Main Units (RMU). Energy Queensland has a series of cascading protection, which includes metre panels protected at distribution pillars protected at the transformer protected at the RMU protected at the zone substation. As the protection trip proceeds from metre panel to substation a greater area is affected by a loss of power. Power will not be able to be returned until the water level lowers and new equipment is installed. In the case of transformers and RMU's this may take 2 to 3 weeks for supply and installation.

In the Yeppoon region, two underground high voltage padmount sites are at risk from Annual Exceedance Probability (AEP) 1 in 50, 1 in 100, 1 in 500 and 1 in 1,000 year surges. These are estimated to be up to and over 1.2m underwater.

One underground high voltage padmount site in the Emu Park region is also at risk from all estimated surges. The depth of these surges at the sites are also estimated to be up to and over 1.2m.

There are no essential Energy Queensland installations within the Keppel Sands region. There is potential loss of life situations if the electricity is not shut off prior to water levels rising. The speed at which water rises and warnings, which may be available, will play an important role in assisting Energy Queensland in the maintenance and safety of the network. However, the protection settings are generally set to provide power shutoff in less than 1 second.

Vulnerability of Critical Facilities

Public buildings at risk from inundation include

- a) Keppel Sands State School,
- b) Emu Park Library
- c) Emu Park Community Hall
- d) Cedar Park Shopping Centre.

Vulnerability of Local Economic Production and Employment

An event involving a severe cyclone or low, depending on the severity in combination with a significant storm surge, could have a long term impact on the area economically and upon employment levels should significant damage occur – this is however considered to be an unlikely event.

11.2.7 Severe Storms

In this section wind, hail and lightning hazard vulnerability are considered. The associated flooding hazard vulnerability is covered under the Flooding section.

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Vulnerability of People

People at most risk to severe storms are:

- the elderly, very young, and the physically or mentally impaired;
- people in mobile homes;
- people living or working in remote rural or isolated areas;
- people who may not understand the warning due to a language barrier; and
- people in homes within flood-prone low lying areas.

Anyone who is caught outdoors with imminent arrival of a severe storm is vulnerable to lightning strike. While this may apply to any person within the Livingstone Shire, it is more likely farm and forestry workers, fishermen, miners and construction workers. Employers need to communicate the necessary evasive and precautionary actions which should be taken. Safety measures should be communicated widely throughout the Livingstone Shire in order to raise awareness of the steps which can be taken to improve the safety of anyone who is unable to find shelter under these conditions including:

- the safest place is inside a building or a vehicle;
- inside a home, avoid using the telephone landline, except for emergencies;
- · do not use computers, electrical appliances or plumbing;
- lightning can strike without rain;
- lightning risk remains for up to 30 minutes after the last observed lightning or thunder;
- lightning can affect the brainstem, which controls breathing. If a victim appears lifeless, it is important to begin resuscitation immediately to prevent death by suffocation;
- avoid sheltering under tall trees;
- get out and away from open water;
- · get away from tractors and other metal farm equipment;
- · get off and away from motorcycles, scooters, golf carts and bicycles;
- put down fishing rods, golf clubs, metal tools and implements such as shovels, axes, pitchforks etc.
- stay away from wire fences, clotheslines, metal pipes, rails and other metallic paths which could carry lightning from some distance away;
- · avoid standing in small isolated sheds or other small structures in open areas;
- in a forest, seek shelter in a low area under a thick growth of small trees;
- . in open areas, go to a low place such as a ravine or a valley, be alert for flash floods;
- keep ears covered and eyes closed to protect against hearing damage and blindness due to close lightning strikes; and
- remove jewellery, watches and other metal items as these might cause severe burns if struck by lightning.

Vulnerability of Social Structures

The Livingstone Shire is well served with community groups which would help to decrease the level of vulnerability to severe storm impacts. However, a severe storm would stretch the capability of these groups.

Every school, hospital, clinic and aged care facility should have a severe weather action plan and have frequent drills. People should remain indoors if threatening weather is expected, in particular away from windows and metal piping which can serve as a conductor of electricity in the event of a lightning strike. Larger disaster kits should be prepared to cater for the anticipated numbers of people seeking shelter, and regular inspections should be carried out, drinking water replaced, batteries checked etceters.

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Vulnerability of Bulldings

In the event of a severe storm there is a high probability of significant damage to houses built pre 1980, and people living in caravans, cabins or houseboats. This means that the majority of people are in buildings which offer relatively safer shelter in the event of a severe thunderstorm. Residents in the mobile home type of structure should be notified of public shelters for early evacuation during times of severe weather.

Vulnerability of Lifelines

The most critical lifelines affected by Severe Storms are:

- the loss of electrical power, due to its flow on effect to all other services;
- the loss of communications;
- blockages to streets and access routes for emergency and rescue vehicles due to fallen trees and other debris; and
- over-burdening of public shelters, supplies and services in the event of prolonged or widespread damage.

Vulnerability of Critical Facilities

The loss of power would cause hardship due to the reliance of most lifelines on power, particularly the supply of drinking water and sewerage services. Loss of power to hospitals and clinics would place the entire population at risk and may require evacuations of patients. The blockage of access routes may prevent essential services such as fire-fighting, ambulance and police from gaining access to affected people and property.

Vulnerability of Local Economic Production and Employment

An event involving a severe storm is likely to have an impact on a localised area of the community rather than the whole community. Due to its more localised affect the impact from a single severe storm is not expected to have a long term impact on the community. However, it must be noted that the frequency of severe storms is far greater than that of cyclones, so the net combined economic impact of severe storms and the associated damage from hail, high winds and intense rainfall is much greater than cyclones.

11.2.8 Tsunami

This hazard is a concern for the coastal communities such as Yeppoon, Emu Park, Keppel Sands, Joskeleigh, Kinka Beach, Rosslyn Bay, Bangalee and Stanage Bay. It is also a concern for Great Keppel, North Keppel and Pumpkin Islands which are popular tourist destinations. Other smaller islands, offering limited protection have camping groups on them that may need evacuation, including Middle, Miall, Conical, Divided, Pelican and Humpy Islands. These destinations may have several thousand tourists between them that need to be considered as part of the emergency response to a tsunami event.

Vulnerability of People

Tsunami warnings will be issued and it is expected that people will have some time to evacuate all coastal areas. However, the LDMG should endeavour to make sure that people living in exposed areas are aware of the risk and of the emergency procedures in case of a tsunami. In case of a short time for evacuation, tsunami will be an issue for communities on the coast. Everyone will be vulnerable. People should evacuate inland or, if evacuation time is short, should evacuate to higher

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grounds such as near water reservoirs which are generally placed on elevated locations. They should then be in a safe area in case of a tsunami (Keppel Sands water reservoir, Emu Park water reservoir, Rosslyn water reservoir). Also Double Head/Bluff Point Lookout would be a safe area in case of a tsunami. Even though it is near the ocean, it is quite high. People who are in the islands should evacuate to the elevated areas of the islands. It would be recommended to evacuate to high grounds (run-up can exceeded 30 m above mean Sea Level as has been experienced in recent global events).

Tsunami Evacuation maps are located in Annexure G - Tsunami Evacuation Maps.

Vulnerability of Social Structures

The Livingstone Shire is well served with community groups which would help to decrease the level of vulnerability. The effect of a tsunami would be quite devastating to the community and sub plans including Evacuation, and Communication will cover Tsunami warnings.

Vulnerability of Buildings

Vulnerable buildings along the coastline from Keppel Sands to Stanage will suffer the impacts from tsunami inundation. The coastal area could experience significant long-term damage to buildings and supporting infrastructure.

Based on Bureau of Meteorology advice, people should evacuate to areas at least 10 m above sea level or at least 1 km from beaches, harbours, rivers, coastal areas etcetera. Following this advice, Council has developed maps for coastal localities from Yeppoon to Keppel Sands depicting high ground areas

Based on these maps public buildings at risk include:

- Council offices Anzac Parade, John Street (Community Development Centre);
- Emu Park Library, QPS, SES, QFES, QAS, Airstrip, and
- · Keppel Sands township is at risk of inundation.

Vulnerability of Lifelines

Keppel Sands and Joskeleigh may become completely isolated during a tsunami, due to inundation of the Keppel Sands Road. These communities could not expect external assistance during an event and would need to be evacuated before significant sea level rise occurred as all of Keppel Sands and much of Joskeleigh may become inundated.

The urban areas along the coast may become fragmented with tsunami sea level rise potentially (depending on height of rise) cutting the Scenic Highway along the Coast at following locations:

- Ross Creek (also affects Tanby Road and Taranganba Road);
- Cooee Bay;
- Lammermoor Beach;
- Statue Bay;
- Causeway; and
- · Kinka Creek.

The Rockhampton-Emu Park Road (Hill Street) is likely to be affected by tsunami in Cawarral Creek. Alternative inland access (where this access exists) areas likely to be inundated and isolated include;

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- Emu Park and Zilzie;
- · Kinka Beach;
- · residential area north of the Causeway;
- Rosslyn Bay and part of Statue Bay;
- south end of Lammermoor Beach and northern end of Statue Bay;
- Taranganba, south end of Cooee Bay, and north end of Lammermoor beach;
- north end of Cooee Bay;
- parts of Yeppoon;
- Bangalee; and
- Stanage Bay

Access to areas north of Yeppoon may become affected by tsunami cutting the Yeppoon-Byfield Road near Famborough Beach, affecting bridges across Barwell's Creek, on the private access road to Capricom Resort.

Other access issues arise with the bottom end of Pinnacle Street, Causeway Lake being very low (currently street kerb and channel is affected by HAT), the only vehicular access path into this cul-desact.

During a tsunami this access would be rapidly blocked to conventional vehicles.

Roads

Inundation of roads on the coast will occur in the event of a tsunami. Flow velocities are expected to be extremely high, causing scour of road pavements/footpaths and major road infrastructure damage. Long term inundation of roads and footpaths (approximately 12 hours) may allow the underlying road pavements and subgrade to become waterlogged, resulting in a softening of the pavement structure. When the inundation has receded it is recommended that vehicular use on recently inundated roads be restricted to single axle vehicles and emergency vehicles. Heavy or commercial vehicles, not required for emergency access, should be prevented from travelling on the affected roads until the pavements have regained sufficient strength. This time can vary considerably and is particularly dependent on the type of subgrade material. It is therefore recommended that Council engineers be consulted before unrestricted access is permitted.

Sewer

During inundation, sewerage inflows tend to increase dramatically due to illegal stormwater connections and groundwater ingress. It could be expected that this could also be the case during periods of tsunami inundation.

Areas south of Rosslyn Bay and north of Emu Park and Keppel Sands are not sewered. Some damage to individual septic systems due to seawater ingress or flotation of septic tanks can be expected. Seawater ingress would stop or hinder treatment of sewage in the tank, and result in release of essentially untreated waste into absorption trenches in saturated ground. Septic systems are typically private infrastructure (except for public toilets) but release of sewage has major public health implications.

Electrical and Communications

The electrical infrastructure in the areas includes overhead and underground reliculation owned by Energy Queensland to provide electricity supply and underground reticulation owned by Telstra to provide communications and phone services.

Communications

The Telstra infrastructure is all underground reticulation. The system is therefore designed and installed to be robust against the ingress of water. The pit and conduit system is regularly inundated

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with water as part of the natural storm water dissipation. The cables and cable joints used are grease filled which can be submerged in low level water with no adverse effects. The cable connection pillars,

which are located above ground, are also sealed and positively pressurised to prevent the ingress of water, however are not submersible.

Vulnerability of Crincal Facilities

Based on the Council tsunami inundation maps public buildings at risk include;

- Council offices Anzac Parade, John Street (Community Development Centre, Strengthening Family Connections and Yeppoon Library);
- Emu Park Library, QPS, SES, QERS, QAS, Airstrip, and
- Keppel Sands the whole area is at risk of inundation.

Vulnerability of Local Economic Production and Employment

An event involving a severe tsunami, depending on the severity, could have a long term impact on the area economically and upon employment levels should significant damage occur – this is however considered to be a very unlikely event.

11.2.9 Tomados

In this section, wind hail and lightning hazard vulnerability are considered. The associated flooding hazard vulnerability is covered under Floods.

Vulnerability of People

People at most risk to tornados are:

- people in vehicles;
- the elderly, very young, and the physically or mentally impaired;
- people in mobile homes; and
- people who may not understand the warning due to a language barrier.

Vulnerability of Social Structures

The Livingstone Shire area is well served with community groups which would help to decrease the level of vulnerability. However, a tomado strike would undoubtedly stretch the capability of these groups, particularly as there may be little or no advance warning within which to mobilise groups.

Every school, hospital, clinic and aged care facility should have a severe weather action plan and have frequent drills. People should remain at school, hospitals or places of business beyond regular hours if threatening weather is expected. In the event of a tornado, people are safer in buildings than in a train, bus or car.

All premises should maintain a disaster kit for use during and in the aftermath of a tornado.

Suggested disaster kits would include:

- 3-day supply of drinking water (two litres per person per day) and food that won't spoil;
- one change of clothing and footwear per person;
- one blanket or sleeping bag per person;

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- a first-aid kit, including prescription medicines;
- emergency tools, flashlight, and extra batteries;
- battery-powered radio, mobile phone and a portable radio;
- extra sets of car/house keys and cash;
- special items for infant, elderly, or disabled family members; and
- fire extinguisher.

Vulnerability of Buildings

Pre-1980 buildings are vulnerable to a tornado with a high probability of significant damage from wind and secondary hazards associated with wind borne debris due to the building materials and methods in use. Damage can occur from high winds with rain, hail and lightning strikes to buildings. Tornados are site specific so the number of houses/people that are affected will vary significantly from location to location.

Vulnerability of Lifelines.

The most critical lifelines affected by Tornados are:

- the loss of electrical power, due to its flow on effect to all other services;
- the loss of communications; and
- blockages to streets and access routes for emergency and rescue vehicles due to fallen trees and other debris.

Vulnerability of Critical Facilities

The loss of power would cause hardship due to the reliance of most lifelines on power, particularly the supply of drinking water and sewerage services.

The blockage of access routes may prevent essential services such as fire-fighting, ambulance and police from gaining access to affected people and property.

Vulnerability of Local Economic Production and Employment

An event involving a tornado is likely to have an impact on a localised area of the community rather than the whole community which is the likely scenario in a severe cyclone. This impact may be locally devastating, with costs running into the millions of dollars. As tornados are relatively localised in affect, it is not expected to have a long term impact on the community unless significant damage is caused to key industries.

11.2.10 Heatwaye

Vulnerability of People

Improved public awareness has led to a significant decrease in the vulnerability of the population to heatwaves. Implications for improved safety are communicated through widespread media coverage and information released through health care institutions. Other measures which have improved resistance of communities to heatwave risk include the use of air-conditioners, better housing design, better clothing, a trend towards more people working indoors, education, behavioural adaptations and extended temperature forecasts to seven days.

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People's vulnerability to heat depends on:

- climatic factors (such as the frequency of heatwaves);
- age
- gender;
- pre-existing disease;
- use of certain medications;
- level of hydration;
- living alone;
- housing condition (building type or living on a higher floor);
- presence and use of air-conditioning in the home or residential institution; and
- physiological adaptation exposure to heat wave (density and duration).

The Human and Social Services Taskforce provided insight across 2017 / 2018 season. Currently, babies, outside workers and the elderly were presenting most at the local hospital and general practicians.

Consideration has been given to education and awareness of new parents who are an emerging risk. The Queensland health heatwave response plan considers vulnerable people.

https://www.health.gld.gov.au/ data/assets/pdf file/0032/628268/heatwave-response-plan.pdf

Vulnerability of Social Structures

The Livingstone Shire is well served with community groups which would help to decrease the level of vulnerability.

Every school, hospital, clinic and aged care facility should have a heatwave Action Plan and have the necessary equipment and supplies available during the high risk period from November to March.

Vulnerability of Buildings

Pre-1980 dwellings may have been retrofitted with air conditioners and most householders have fans. The possibility of energy demand overload during heatwaves may lead to power failure. Overheating of electrical and/or mechanical equipment due to inadequate air-conditioning may lead to malfunction and fires.

Vulnerability of Lifelines

The most critical lifelines affected by heatwaves are:

- the loss of electrical power, due to its flow on effect to all other services
- inability to maintain air-conditioned living spaces leading to heat stress in vulnerable individuals.

Vidnerability of Critical Facilities

The loss of power would cause hardship due to the reliance of most lifelines on power, particularly the supply of drinking water and sewerage services.

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Vulnerability of Local Economic Production and Employment

Heatwaves may cause damage to crops and loss of livestock. The heatwave impacts upon the local agricultural sector will depend upon the severity and extent of the heatwave, and the potential impacts upon crops and livestock. It may result in the total or partial loss of crops.

Vulnerability of the environment

Biome distributions are determined largely by temperature and precipitation patterns. Ecosystems with lower organism diversity are more likely to be affected by changes in climate. Short term heatwave conditions may exacerbate the longer term effects of global climate change, and are expected to occur more frequently and with longer durations in the century ahead.

PART 12. CAPACITY BUILDING DISASTER MANAGEMENT

12.1 Training

The provision of and attendance at education and training for those involved in disaster and emergency management work is a key preparedness and capability building activity. QFES has a responsibility identified in the Act and State Plan to ensure that persons performing functions under the Act in relation to disaster operations are appropriately trained. QFES-Emergency Management has developed a DM Training Framework identifying courses that are to be undertaken by those persons. Disaster management training is important to ensure that all agencies can seamlessly integrate within the regions disaster management arrangements and contribute to an effective and coordinated response.

Each member agency is responsible for ensuring that staff undertaking disaster and emergency management work have or plan to have received appropriate training for their roles, in particular those courses identified in the Training Framework.

The LDC is responsible for identifying and supporting attendance at relevant training for LDMG members and the LDCC team.

12.1.1 Accredited Training

This Plan identifies a preference for vocational education and training that is accredited or is a qualification or individual units of competency under the Australian Qualifications Framework (AQF). The AQF is the system that identifies the various levels of educational qualifications in Australia. Disaster and emergency management specific training is contained within the "Public Safety Training Package".

Training available for members of the Livingstone Shire LDMG and Co-ordination Centre staff includes:

- QFES-EM provided courses from the Training Framework;
- courses from the Public Safety Training Package provided for example by QFES or SES trainers or other training providers; and
- accredited programs such as courses from the Public Safety Training Package can involve
 assessment which will include a Desktop Discussion or Co-ordination Centre exercise. The
 assessment task involves an emergency situation scenario enacted to train and test staff on
 their ability to apply their knowledge to procedures, processes and systems.

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12.1.2 Training for work in Disaster Co-ordination Centres

Each lead agency is to have an appropriate number of staff trained or planned to be trained at the appropriate skill and competency level to work in a Disaster Co-ordination Centre. This will greatly assist with the effective co-ordination of disaster operations.

Appropriate courses for working in a disaster co-ordination centre include:

- Australasian Inter-service Incident Management System (AIIMS) course. AIIMS courses are 2
 days (theory program with some scenario work). QFES and Council have some capacity to
 provide this course to staff that may be required to work in a Co-ordination Centre;
- public Safety Training including; co-ordinate resources within a multi-agency emergency response. This course examines a range of issues that impact emergency co-ordination, culminating in a major co-ordination centre exercise where participants will have a chance to experience the management of a major emergency in a realistic, simulated environment;
- QFES-EM Disaster Co-ordination Centre courses form the Training Framework. Three courses have been developed.

12.2 Exercise

The Standard for Disaster Management in Queensland (the Standard) supports the broad role that exercises play in improving disaster management. The accountability for "capability" is characterised as 'how the entity is using training and exercising to help embed the necessary culture change and improve performance to meet disaster management outcomes'.

Exercises are a mechanism to review the effectiveness of disaster management plans in Queensland, maintain readiness for events and improve practice. Entities have a range of responsibilities to review plans, and participate in exercise management (the design, planning, conduct, and evaluation of exercises).

Prior to participating in Disaster and Emergency Exercises it is preferred that participants have received training as outlined in this Plan. This is so that participants have a basic understanding of the policies and procedures that apply to working in a disaster management environment and that the experience and learning's from the exercise can be maximised.

12.2.1 Exercise Program and Type

Each year one or more of the following exercises shall be held:

- an exercise determined by the lead agency designed to test the lead agency's response coordination capability;
- a table top discussion exercise, with the focus of the exercise to be determined by the District or Local Group;
- an LDCC exercise with the focus of the exercise to be determined by the LDC or Local Group;
- a small scale exercise involving the testing of a single element of the capacity of the LDCC;
- a small scale exercise involving the testing of the Evacuation Centre Support Operational Plan;
- a joint LDCC/DDCC Livingstone Shire Local Disaster Management Exercise with the focus of the exercise to be determined by the LDMG and DDMG.

Exercises can be small scale one-two hour activities through to a three day event. More frequent smaller exercises can be an effective alternative to a single large scale activity.

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12.2.2 Exercise Evaluation

An exercise is to be followed by a debrief process. A hot debrief is to be conducted immediately following the conclusion of the exercise and a cold debrief conducted not longer than a month following the exercise. The cold debrief allows participants time to provide a more considered view of the exercise outcomes.

The learning's from the exercise are to be consolidated into a plan for action.

12.3 Post-Disaster Assessment

The review of operational activities undertaken during a disaster is a key component of developing capacity and the improvement of disaster management arrangements.

Post-disaster assessments (also known as After Action Reviews) are conducted to:

- Assess disaster operations undertaken for a given disaster including actions, decisions or processes.
- Document those processes that worked well and identify a course of action to ensure that they
 are captured and updated in relevant plans for use in the next operation; and
- Assess capability and consider where additional planning, training and/or exercises may enhance capability.

The review of operations is conducted through two forms of debrief:

Hot debrief

Undertaken immediately after operations are complete, giving participants the opportunity to share learning points while the experience is still very fresh in their minds. Multiple hot debriefs during protracted operations may be appropriate to identify significant issues and provide prompt solutions for immediate implementation.

Post event debrief

Held days or weeks after an operation, when participants have had an opportunity to take a considered view of the effectiveness of the operation. A Post Disaster Assessment Report is to be completed in partnership with QFES-Emergency Management to provide an overview of the lessons identified following an event and importantly recommendations for improving disaster management.

Following a Post Disaster Assessment the Local Group may need to consider issues for resolution or may need to refer an issue to the District Group for advice or resolution.

PART 13. PREVENTION STRATEGY

The Disaster Management Act defines prevention as the taking of preventative measures to reduce the likelihood of an event occurring or, if an event occurs, to reduce the severity of the event.

13.1 Disaster Mitigation

Disaster Mitigation is the means taken in advance of or after a disaster aimed at decreasing or eliminating its impact on communities, the economy, infrastructure and the environment. The objective of prevention and disaster mitigation activities is reduced risk and vulnerability through initiatives to enhance community resilience and sustainability.

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Prevention and disaster mitigation can be, in part, achieved through application of building codes, planning policies and legislation.

Building Codes, Building Use Regulations, Planning Policies, that are relevant and apply include:

- Building Code Australia;
- Building Act 1975;
- Building Standards Regulation 1993;
- Building Regulations 1991;
- Queensland Development Code;
- Building Fire Safety Regulation;
- Body Corporate and Community Management Act;
- Building Units and Group Titles Act;
- Building and Other Legislation Amendment Act;
- Building Services Authority Act;
- Local Government Finance Standard 2005;
- Queensland Coastal Plan; and
- State Planning Policy 1/03 guideline: mitigating the adverse impacts of flood, bushfire and landslide
- Livingstone Shire Planning Scheme 2016.

13.2 Legislation

In addition to the Disaster Management Act 2003 legislation relevant to disaster management includes:

- Agricultural Chemicals Distribution Control Act 1966;
- Ambulance Service Act 1991;
- Local and Subordinate Local Laws;
- Chemical Usage (Agricultural and Veterinary) Control Act 1988;
- Coastal Protection and Management Act 1995;
- Dangerous Goods Safety Management Act 2001;
- Environmental Protection Act 1994;
- Exotic Diseases in Animals Act 1981;
- Explosives Act 1999;
- Fire and Emergency Service Act 1990;
- Gas Supply Act 2003;
- Information Privacy Act 2009;
- Land Act 1994;
- Liquid Fuel Supply Act 1984;
- Local Government Act 2009;
- Major Sports Facilities Act 2001;
- Marine Parks Act 2004;
- Native Title (Queensland) Act 1993;
- Nature Conservation Act 1992;
- Queensland Reconstruction Authority Act 2011;
- Petroleum Act 1923;
- Police Powers and Responsibilities Act 2000;
- Public Health Act 2005;
- Public Safety Preservation Act 1986;
- Right to Information Act 2009;

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- Sustainable Planning Act 2009;
- Terrorism (Commonwealth Powers) Act 2002;
- Water Act 2000;
- Water Supply (Safety and Reliability) Act 2008; and
- Work Health and Safety Act 2011.

13.2.1 Insurance

In a disaster there is significant impact on the whole community caused by under insured and noninsured properties. It is considered that this is an issue for the insurance industry and the State Government with input from the Local Group through its members.

13.2.2 Land Use Management Initiatives:

The Livingstone Planning Scheme 2018 was adopted by Council on 5 April 2018 and commenced on 1 May 2018. On 19 June 2018, Council adopted Version 2 of the planning scheme. Version 2 of the Livingstone Planning Scheme 2018 commences on 25 June 2018 and it includes a Local Government Infrastructure Plan (LGIP).

PART 14. RESPONSE STRATEGY

14.1 Response Capability

The principle purpose of emergency response is the preservation of life, property and the environment. Response is defined as the "actions taken in anticipation of, during and immediately after an emergency to ensure its effects are minimised and that people affected are given immediate relief and support" (Australian Emergency Management – National Emergency Risk Assessment Guidelines October 2010).

The LDMG recognises that the response to a disaster event:

- needs to incorporate all those actions that help reduce loss of human life. illness or injury to humans, property loss or damage, or environmental damage to a particular and specific disaster event:
- may commence prior to the impact of an event, if advance warning is given and known; and
- concludes once the risks of loss of human life, illness or injury, property loss or damage, or environmental damage are reduced to an acceptable level.

The LDMG has a strong response capability in that it is well equipped, well staffed and has a reliable assembly of resources including access to:

- Livingstone Shire Council response and equipment resources;
- Queensland Ambulance Service response and equipment resources;
- Queensland Fire and Emergency Services response and equipment resources;
- Queensland Police Service response and equipment resources;
- State Emergency Service response and equipment resources;
- access to equipment (including heavy equipment) and plant within Council and through commercial providers, which is accessible through the LDCC Logistics Team;
- Personal Protective Equipment held by lead agencies; and
- volunteers of the many community organisations within the region.

Agencies listed have appropriate resources to deliver their agreed roles and responsibilities.

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14.2 Warning Notification and Dissemination

For natural disasters, the majority of warnings are received from the BoM via email, text message or if the risk is substantial and imminent, by telephone. These warnings are received by the LDMG members and relevant LSC officers.

If a weather forecast shows the potential for a hazard to develop e.g. a Tropical Cyclone, the situation is monitored closely by the nominated LDMG members. Dependent on the risk (likelihood of the event impacting the community and consequence if it does), the LDMG may activate and the details of the forecast or warning will be disseminated to all the LDMG members.

Additionally all media outlets will be notifed according to the Communication Sub plan to distribute the information to the community.

14.2.1 Standard Emergency Warning Signal (SEWS)

In 1999, an agreement was reached between all States and Territories on the need for a Standard Emergency Warning Signal (SEWS) to be used in assisting the delivery of public warnings and messages for major emergency events. The signal used for the SEWS is the existing BoM Tropical Cyclone warning signal.

SEWS is intended for use as an alert signal to be played on public media to draw listener's attention to a following emergency warning. It is meant to attract listener's attention to the fact that they should take notice of the emergency message.

Responsibility for the management of the SEWS in Queensland rests with the Commissioner Queensland Fire and Emergency Services in conjunction with the Queensland Regional Director of the BoM for meteorological purposes.

14.2.2 The National Emergency Alert SMS system

This system will also be in operation but only instigated in the local area after consultation with the LDC and the DDC and authorised by the Chairperson of the LDMG where it is the Principle Control Authority and in accordance with the Emergency Alert Guidelines. Emergency Alert templates and campaigns are saved on the Disaster Management Portal.

All messaging needs to be cohesive and accurate. Within the LDCC, once activated, all media and communications will be managed by the Public Information officer/team.

14.2.3 Local warnings/information

LDMG members will receive warning products via a number of means:

- the DDC will receive notification directly from the State Disaster Co-ordination Centre (SDCC) and internally through Queensland Police Service Communication Centres and will ensure the dissemination of warnings to vulnerable LDMGs within the district;
- the LDMG will be notified by email and may also receive notification from internal agency central
 offices; and
- a number of agencies will also receive warnings directly from the BoM.

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Details regarding responsibility for notification processes within LDMG member agencies are detailed in respective agency plans. Agency plans will include detailed contact registers to achieve dissemination of warnings.

The release of information to the community regarding the emergency, and associated threats, is the responsibility of the Chairperson of the LDMG or his/her delegate upon recommendation of the Principle Control Authority for the particular event. Warnings of naturally occurring events are forwarded to the LDC who in turn collates all necessary warnings, advice and information for distribution to the community through radio, television and social media networks.

14.2.4 Types of warnings

- media warnings internet sites, radio, television and local newspapers
- Whispr a messaging service that targets residents on Council's database
- telephone warnings via Emergency Alert system (when activated)
- door-knocking by police and other emergency service agencies
- warning devices horns; sirens; loud-hailers.

Should a mandatory evacuation be ordered, along with media broadcasts, the SES, Police and other authorised emergency agencies may do street by street broadcasting using hailers.

14.3 Activation

14.3.1 Activation of LDMG

The Chairperson of the LDMG has responsibility for activating the LDMG and the LDCC and determining the stage of activation required.

Activation will normally occur:

- as a response to a worsening situation and is thus responsive to an alert warning system;
- because of other circumstances, where no warning is possible;
- at the request of the responsible lead agency/control authority;
- at the direction or request of the DDC; and
- at the discretion of the LDMG Chairperson upon becoming aware of a threat or potential threat to the communities of the Livingstone Shire.

14.3.1.1 Activation

The LDC is responsible for activating the LDMG. This would generally occur following consultation with the Chair of the LDMG and the DDC.

The four levels of activation are:

Alert

A heightened level of vigilance due to the possibility of an event in the area of responsibility. No action is required however the situation should be monitored by someone capable of assessing the potential of the threat.

Lean forward An operational state prior to 'stand up' characterised by a heightened level of situational awareness of a disaster event (either current or impending) and a state of

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operational readiness. Disaster co-ordination centres are on stand by; prepared but not activated.

Stand up The operational state following Tean forward' whereby resources are mobilised, personnel are activated and operational activities commence. Disaster co-ordination

centres are activated.

Stand down

Transition from responding to an event back to normal core business and/or recovery operations. There is no longer a requirement to respond to the event and the threat is no longer present. Meetings may still occur targeting recovery operations.

The local levels of response activation are outlined at Armexure E – Stages of Activation – Response Operations.

14.3.1.2 Local Disaster Co-ordination Centre

Livingstone Shire Local Disaster Co-ordination Centre is located at the Centre of Excellence for Disaster Mangement, Innovation and Community Resilience (7-9 James Street, Yeppoon QLD). A Sub Plan has been developed with full details of the LDCC operations.

14.3.2 Activation of Sub Committee

Chairpersons of Sub Committees also have the discretion to activate the relevant group as deemed necessary. However, the decision to activate a Sub Committee should be done, where possible, after consultation with the LDC and/or Chairperson of the LDMG.

14.4 Concept of Operations for Response

14.4.1 Operational Reporting

For the Queensland Disaster Management system to function effectively, reporting lines must be strictly adhered to.

The demand for information increases substantially during times of activation, and this can be driven by political or media demands. Whilst the LDMG accepts these demands and will facilitate requests for information it must not allow the reporting system to be circumvented.

The LDMG's are to report to the District Disaster Management Group (DDMG). In turn the District Group will report to the State Group. The Local Group should not report directly to the State group and all requests for information must go through the District Group. Individual agencies have two reporting obligations:

- Each agency must report all activities to the Chair and LDC of the group. Without this
 information full situational awareness cannot be achieved. Reporting must be in writing
 surmising the activities of the agency.
- Each supporting agency has a responsibility to keep their normal command structure informed of their actions and activities. The structure and nature of this reporting is by individual arrangement.

In turn, the LDCC has a responsibility to keep all the members of the LDMG informed of the situation. It is unusual that all agencies will be required to support activation. The LDC is responsible to ensure that all members of the LDMG receive situation reports and up to date information.

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14.5 Financial Management

Disaster related finances are not normally included in the budgetary process of the Council or other responding agencies. However, disaster events happen and may require the allocation of substantial funds as a consequence.

Due to the nature of many disaster situations, finance operations will often be carried out within compressed time frames and other pressures, necessitating the use of non-routine procedures; this in no way lessens the requirement for sound financial management and accountability.

It is important to remember that a Declaration of a Disaster Situation is not a pre-requisite for the reimbursement of expended funding.

The LDCC and the Livingstone Shire Council must maintain proper financial records during a disaster. In the event of a disaster situation the Council's normal procedure for expenditure should be followed. A purchase order is raised and all expenses captured in that Pub number.

Expenses should be recorded in the following three categories; Labour, Plant Hire, Materials and Services.

14.5.1 Support Agencies

Each support agency is responsible for providing its own financial services and support to its response operations in the field.

14.5.2 Authority/Delegation to Expend Funds

The LDC is able to authorise financial expenditure if required. The LDC undertakes consultation with the relevant Council's senior management, the DDC and QFES-EM before any major outlay.

14.5.3 Authorised Expenditure

Individual authorised limits shall be as per normal delegation. The determination of the limit of expenditure permitted without further reference to senior management by the LDC shall be decided by the CEO.

14.5.4 Recording of Expenses

When an event occurs, Council should immediately begin accounting for labour, plant hire, materials and services relating to the disaster response. All disaster-related expenditure should be recorded in a purchase order specifically raised to deal with the event/disaster. The purchase order should have separate provision for capturing expenses incurred on Council land and those on private land. Provided all expenditure is directed through Councils existing financial program and uses current work practices any claim for reimbursement can be supported.

Whilst innovative and expeditious means of procurement are called for during times of disaster events, it is still mandatory that all expenses are directed to the purchase order/job number to safeguard the use of public funds from the potential of fraud, waste or abuse.

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14.5.5 Recouping of Funds

Provided the Minister for Emergency Services has approved the activation of the Commonwealth/State Natural Disaster Relief and Recovery Arrangements (NDRRA) the Local Governments can submit a claim for costs incurred to recover from a disaster event. Where costs have been incurred on Council land the local government can claim 75% of the cost incurred to remove, dispose and restore public assets provided those assets are not covered by insurance. For instance, the removal and disposal of damaged vegetation from roads, parks, foreshores and reserves is covered under this area.

Where costs have been incurred on private land the local government can either undertake the work or reimburse the property owner for the costs incurred to remove and dispose of vegetation blocking driveway access or posing an ongoing hazard to buildings or people on the property. The local government can claim 100% of the cost incurred.

14.5.6 Natural Disaster Relief and Recovery Arrangements

The NDRRA trigger point for Livingstone Shire is determined annually by the relevant State Government Department (usually the one responsible for Local Government) and is published in the NDRRA Booklet. This is usually available in November each year. Refer to the booklet: "Natural Disaster Relief and Recovery Arrangements" which deals with claimable expenditure.

14.6 Media Management

The activation of the Public Information Cell, aligns with activation of the LDMG. The LDMG Chair or his/her delegate has authority to activate the LDMG on receipt of:

- a warning or an impending threat, which in the opinion of the Chairperson or their delegate, requires a co-ordinated community response;
- a request from a Control Authority for assistance under the LDMP; and
- a direction or request by the District Disaster Co-ordinator (DDC).

14.7 Accessing Support and Allocation of Resources

Incidents, events, emergencies and disasters of local or regional scope which can be managed using regional resources are to be co-ordinated and managed by ICC's and the LDCC.

14.7.1 Requests from the Lead Agency ICC to the LDCC

Upon the activation of the lead agency's ICC the Local Disaster Co-ordinator (LDC) shall determine the requirement for the activation of the LDCC. If the LDCC is activated then the LDC will deploy a LDCC Liaison Officer to the ICC. The Incident Controller at the ICC is to contact the LDCC when additional resources are required for the response, resources which are not available from the Lead or support agencies in attendance at the ICC for the response.

The ICC is able to make such requests through the LDCC Liaison Officer or that Agencies Llaison Officer at the LDCC. The LDCC is to be proactive in its planning for requests for additional resources for the region.

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14.7.2 Requests to DDC for Assistance/Support

When the LDMG under the management or availability of the Local Group member agencies are exhausted or overwhelmed or a specific technical resource or capability is not able to be located or available, the LDC is to contact the DDC so that resources can be accessed or made available, by the SDCC using the process that has been advised by the DDC to the LDC. All requests for assistance to the DDC shall go through the LDC or delegate. The LDCC will be proactive in informing the DDCC if it is likely that requests for additional resources are to be so that in turn the DDCC can also be proactive in its planning for requests for additional resources for the region.

14.7.3 Requests to SDCC for Assistance/Support

When the DDCC is not able to action or fulfil requests for assistance the DDC will request assistance from the Operations Officer, SDCC.

14.7.4 Support from External Agencies (Public & Private)

Support may be sourced from:

- member agencies preferred suppliers as per the list of suppliers held by that agencies' Procurement Unit:
- all emergency service providers both Government and Non-Government agencies;
- support is requested through the agency Liaison Officers or via the usual member agency procedures; and
- the SDCC or the DDCC may allocate and push resources forward to the Region during an event even though resources have not been requested by the LDCC. The staging and reception of these resources will require planning and co-ordination by the LDCC.

Should support, as described above, be withdrawn for whatever reason, all agencies affected will receive advice from the LDCC.

14.8 Disaster Declaration

In accordance with s64 of the *Disaster Management Act 2003*, a DDC may, with the approval of the Minister of the State, declare a disaster situation for the district or one or more local government areas within the district in whole or in part, or by the Premier and the Minister for the State or a part of the State. As outlined in s75 and s77 of the Act, the declaration confers extra powers on particular groups to perform actions, give directions and control movements within the declared area.

A declaration may be made if the person/s responsible for making it are satisfied that a disaster has happened, is happening or is likely to happen and it will be necessary, or reasonably likely to be necessary, to exercise declared disaster powers to prevent or minimise the loss of human life, illness or injury to humans, property loss or damage, or damage to the environment.

Before declaring a disaster situation the person/s responsible for the declaration is to take reasonable steps to consult with local government in the proposed declared area.

In accordance with the Act, a declaration must be in the approved form, or can be made orally if necessary to exercise declared disaster powers before an approved form can be obtained and completed. An oral declaration cannot be made if the DDC is satisfied only that it is reasonably likely to be necessary to exercise declared disaster powers. If the declaration is made orally, it must be recorded in the approved form as soon as is reasonably practicable.

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Part 4 of the Act outlines the provisions for declarations and disaster powers. Disaster management forms, including forms for disaster declaration, extension, request to end and for the authorisation of persons to exercise declared disaster powers etcetera are available at: http://www.disaster.qld.gov.au/Disaster-Resources/PGF.html

A Declaration of a Disaster Situation may be requested, for example, where there is an identified need to undertake a managed evacuation, from the Chairperson or LDC to the DDC, using the agreed forms as referenced above that are available within the LDCC.

When a Declaration of a Disaster Situation is enacted, the Chairperson and LDC will continue to align local strategies and arrangements with the DDC to ensure the appropriate utilisation of the powers within the local disaster management arrangements. The declaration of a disaster situation does not impact the requirements of a local government under the Act to manage disaster operations in their area.

14.9 Resupply

When planning and conducting resupply operations, essential goods are to be provided. A Resupply Sub Plan has been developed. The supply of essential goods to individuals will fit within three distinctly different categories:

- Isolated Community Resupply:
 - This type of resupply operation is used when the persons residing in that community have ready access to retail outlets however the retail outlet is unable to maintain the level of essential goods required due to normal transport routes being inoperable as a result of a natural event or events;
- Isolated Rural Properties Resupply:
 - For the purposes of these guidelines isolated rural properties are groups of individuals that are isolated from retail facilities due to normal transport routes being inoperable as a result of a natural event or events. This may include primary producers, outstations or small communities that have no retail facilities;
- Resupply of Stranded Persons:
 - This type of resupply operation is undertaken to provide essential goods to individuals that are isolated from retail facilities and are not at their normal place of residence. This normally pertains to stranded travellers and campers.

14.10 Hazard Specific Arrangements

State departments or agencies have primary responsibility to address certain hazards as detailed in the State Disaster Management Plan.

Hazard specific planning is required across all aspects of Disaster Management (PPRR). Coordination and operational procedures for specific hazards may be different to those for disaster management.

Agency specific co-ordination centres may be established in addition to Local, District and State coordination centres and internal structures, including the passage of information and resources may be managed using different processes. Primary agencies also have a role to ensure hazard specific plans link to corresponding national hazard specific plans and arrangements and that appropriate communication and relationships with their counterparts at the national level are maintained.

The following table outlines the primary agencies responsible for each specific hazard and the respective state and national level plans, where appropriate.

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Specific hazard	Primary Agency	State and National Plan	
Animal and plant disease	Department of Agriculture, Fisheries and Forestry	(AUSVETPLAN) Australian Aquatic Veterinary Emergency Plan (AQUAVETPLAN) Australian Emergency Plant Pest Response Plan (PLANTPLAN) Biosecurity Emergency Operations Manual (BEOM)	
Biological (human related)	Queensland Health	State of Queensland Multi-agency Resports Chemical, Biological, Radiolog Incidents	
Bushfire	Queensland Fire and Emergency Services	Wildfire Mitigation and Readiness Plans (Regional)	
Chemical	Queensland Fire and Rescue Service	State of Queensland Multi-agency Response to Chemical, Biological, Radiological Incidents	
Pandemic National		Queensland Pandemic Influenza Plan National Action Plan for Human Influenza Pandemic	
Ship-Sourced Pollution Department of Transport and Main Roads		Queensland Coastal Contingency Action Plan, National Plan to Combat Pollution of the Sea by Oil and Other Noxious and Hazardous Substances	
Terrorism	Queensland Police Service	Queensland Counter-Terrorism Plan National Counter-Terrorism Plan	

PART 15. RECOVERY STRATEGY

Disaster recovery is the co-ordinated process of supporting affected individuals and communities in the reconstruction of the physical infrastructure, restoration of the economy and of the environment, and support for the emotional, social, and physical wellbeing of those affected.

Recovering from an event includes the following:

- providing relief measures to assist persons affected by the event who do not have resources to provide for their own personal wellbeing;
- restoring essential infrastructure in the area or areas affected by the event;
- restoring the environment in areas affected by the event;
- providing personal support to individuals affected by the event, including temporary hospital accommodation, emergency medical supplies, material assistance and counselling services; and
- supporting community development activities to restore capacity and resilience.

A community that is prepared for disasters by having necessary arrangements in place to deal with disasters will be a more resilient community and one that will return to the pre-disaster state more quickly than a community that is not prepared.

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As part of Queensland's disaster management arrangements, disaster management groups are responsible for disaster recovery operations in collaboration with identified functional lead agencies. Recovery arrangements need to be flexible to best suit local needs, and to use resources effectively.

Recovery arrangements also need to:

- acknowledge that recovery is a complex social and developmental process rather than just remedial in nature;
- recognise that recovery should be consequence-driven and presents an opportunity to support
 the communities improve beyond what existed pre-disaster; and
- support community self-determination and participation in the recovery process.

An event that requires significant recovery also provides the opportunity to make a community more resilient for future events. For example in an event that causes significant damage to community infrastructure, the reconstruction phase could consider integrating improved mitigation measures (e.g. flood risk reduction measures) to reduce the risk of a future event damaging the infrastructure.

15.1 Recovery & Resilience Sub Plan

Livingstone Shire Recovery and Resilience Sub Plan Involves the following six key elements of recovery.

Recovery Co-ordination and Management:

recovery will need to be properly organised, resourced and funded. Some of the ordinary business of Council will need to be re-prioritised. Life in the community and Council goes on and will need to be resourced. Council has an expectation that the lion's share of resourcing community recovery will come from Federal and State Government resources;

Human-Social Recovery:

includes personal support, psychological services, temporary accommodation (not evacuation centres), financial assistance and repairs to dwellings. The Department of Communities, Disability Services and Seniors is the functional lead agency for community recovery in a disaster event;

Economic Recovery:

includes recovery as it relates to business impact, industry impact and worker impact. The Department of State Development, is the functional lead agency for economic recovery;

Built Recovery:

includes government structures, essential services and communications. A number of separate State Government departments and non-government organisations will have key functional responsibilities for their respective element of infrastructure recovery in a disaster event;

Roads and Transport Recovery:

includes the response, recovery and reconstruction of the State's road and transport assets. Department of Transport and Main Roads will respond to the disaster by providing safe access and re-connecting communities;

Environmental Recovery:

includes recovery as it relates to parks, waterways and wildlife. A number of State Government departments and non-government organisations will have key functional responsibilities for elements of environmental recovery in a disaster event.

Experience has demonstrated that effective recovery management following a disaster depends on planned procedures, trained staff, identified resources and planned distribution processes.

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The Recovery and Resilience Sub Plan provides the strategic framework for recovery planning, outlining roles and responsibilities of government and non-government partners for the co-ordinated delivery of recovery services following a disaster.

Disaster recovery is the co-ordinated process of supporting affected individuals and communities in the reconstruction of the physical infrastructure, restoration of the economy and of the environment, and support for the emotional, social, and physical wellbeing of those affected,

PART 16. LOCAL DISASTER MANAGEMENT SUB PLANS

Sub Plans have been developed for specific hazards with some or all of the sub plans being implemented depending on the event.

The following sub plans have been developed:

- Evacuation Sub Plan
- Recovery and Resilience Sub Plan
- 2) Communication Sub Plan
- 4) Co-ordination Centre Sub Plan
- Financial Management Sub Plan
- 6) Resupply Sub Plan
- 7) State Emergency Service Concept of Operations
- Evacuation Centre Management SOP 8)
- 9) Yeppoon Public Cyclone Shelter SOP.

PART 17. Annexure List

- A Distribution List
- B LDMG Contact List
- Risk Register

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- D Risk Treatment Plan
- E Stages of Activation for Response Arrangements
- Stages of Activation for Recovery Arrangements
- G Tsunami Evacuation Maps
- H Local Disaster Management Group Forms

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ANNEXURE A - Distribution List

Name/Position	Organisation/Address	Email	Business	Mobile
Cr Bill Ludwig Livingstone Shire Council PO Box 2292 Yeppoon QLD 4703		bill, ludwig@livingstone.qld.gov.au	4939 9888	0428 791 792
David Mazzaferri Local Disaster Coordinator	Mazzaferri Livingstone Shire Council		49133882	0428 262 199
Dan Toon Livingstone Shire Council Incident Controller PO Box 2292 Yeppoon QLD 4703		dan.toon@livingstone.qld.gov.au	4939 9810	0419 687 931
Jason Thompson Officer in Charge Yeppoon Station	Queensland Ambulance Service poon Station McBean Street jason.thompson2. Yeppoon QLD 4703 QASYeppoon.OiC		4938 3976	0438 951 698
Officer in Charge (OIC) Queensland Police Service Yeppoon Station PO Box 270 Yeppoon QLD 4703		CER-D-Station- Yeppoon OIC@gldpolice.onmicrosoft.com	4939 0022	0427 029 327
Wayne Kapernick: Inspector	Rural Fire Service Queensland PO Box 460 Rockhampton QLD 4700	wayne kapernick@gfes.gld.gov.au	4932 8125	0417 790 498
Melanie Howard State Emergency Services (SES) Local Controller PO Box 987 Yeppoon QLD 4703		metanie howard@ses gfes gld.oov.au		0409 053 523

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ANNEXURE B - LDMG Contact List

Name/Position	Organisation/Address	Email	Business	Mobile
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David Mazzaferri Local Disaster Coordinator	Livingstone Shire Council PO Box 2292 Yeppoon QLD 4703		49133882	0428 262 199
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Jason Thompson Officer in Charge Yeppoon Station	Queensland Ambulance Service McBean Street Yeppoon QLD 4703	jason,thompson2@ambulance.qld.gov.au QASYeppoon.QIC@ambulance.qld.gov.au	4938 3976	0438 951 698
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Wayne Kapernick Rural Fire Service Queensland Inspector PO Box 460 Rockhampton QLD 4700		wavne kapernick@qfes.qld.gov.au	4932 8125	0417 790 498
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LIVINGSTONE SHIRE - LOCAL DISASTER MANAGEMENT GROUP - ADVISORY MEMBERS CONFIDENTIAL - NOT FOR PUBLIC DISTRIBUTION Name/Position Organisation/Address Email Business Mobile Chrissy Arthur Australian Broadcasting Company Chief of Staff Capricornia PO Box 911 arthur.chrissy@abc.net.au 4925 5110 0428 745 119 Rockhampton QLD 4700 Australian Volunteer Coast Guard Michael O'Connor Association Deputy Squadron Commodore PO Box 494 dsco.cq@coastquard.com.au 4930 2824 0429 842 091 Yeppoon QLD 4703 Capricorn Helicopter Rescue Mark Fewtrell Service PO Box 370 4922 9093 0417 005 508 **Executive Director** markf@chrs.org.au Rockhampton QLD 4700 Ali Reeves **Executive Services Emergency Preparedness Manager** Rockhampton Hospital ali reeves@health.gld.gov.au 4932 5097 0437 579 822 Rockhampton QLD 4700 Stephen Smith Dept. of Agriculture and Fisheries Manager Strategic Projects and PO Box 6014 4843 2620 0437 440 315 Planning stephen smith@daf.gld.gov.au Red Hill, Rockhampton QLD 4701 Department of Education & Bill McMillan Training Bill MCMILLAN@det.gld.gov.au Manager, Infrastructure Services PO Box 138 4932 4032 0408 764 076 Rockhampton QLD 4700 Central Queensland Region Department of Transport & Main Graeme Saldanha Roads PO Box 5096 graeme J Saldanha@tmr.qld.gov.au Red Hill, Rockhampton QLD 4701 Engineer 4931 1571 0428 269 447

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Kristopher Chant Manager, Port Operations and Projects	nager, Port Operations and PO Boy 123		4971 5200	0477 324 786
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lan Clarke Office of Industrial Relations dustry Liason Manager PO Box 1504 Rockhampton QLD 4700		allan clarke@oir.qld.gov.au	4938 4745	0476 828 735
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ANNEXURE C - Hazards Risk Register

The LDMG is committed to building knowledge, capability and capacity within the local area through a roubust hazard identification and risk treatment methodology that includes:

- effective planning;
- · building a flexible, agile structure;
- · seeking continuous improvement;
- establishing effective information management systems; and
- · timely actions and distribution of information.

Some of the risk identified will be beyond the capacity of the LDMG to manage. Through this process the DDMG will accept transfer of some risks. This method acknowldges the DDMG commitment to building capacity to treat those risks if and when they arise.

Risks outlined in the Risk Register are analysed by members of the LDMG with a view to identifying strategies for risk treatment. The allocation of responsibility for the implementation of risk treatment strategies, monitoring and reporting shall be determined by members of the LDMG under the guidance of the LDC. These strategies are contained in the Risk Treatment Plan - Annexure D. Along with these strategies the Risk Treatment Plan contains preferred treatment options, responsibilities and timeframes for implementation.

A review of the risk treatment plan shall be conducted in conjunction with any risk assessment review process.

Hazard	Category	Consequence	Likelihood	Risk
Cyclone and East Coast Low	People	Major	Likely	High
	Buildings	Major	Likely	High
	Environment	Major	Likely	High
	Business	Major	Likely	High
	Lifelines	Major	Likely	High
	Critical Facilities	Major	Possible	High
Storm Surge	People	Moderate	Possible	Medium
	Buildings	Major	Possible	High
	Environment	Major	Possible	High
	Business	Major	Possible	High
	Lifelines	Major	Possible	High
	Critical Facilities	Major	Possible	High
Severe Storm	People	Major	Likely	High
	Buildings	Moderate	Possible	Medium
	Environment	Moderate	Possible	Medium
	Business	Moderate	Possible	Medium
	Lifelines	Moderate	Possible	Medium
	Critical Facilities	Moderate	Possible	Medium
Tornado	People	Major	Possible	High
	Buildings	Major	Possible	High
	Environment	Major	Possible	High
	Business	Major	Possible	High
Tornado	Lifelines	Major	Possible	High
COLLEGE	Critical Facilities	Major	Possible	High

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Hazard	Category	Consequence	Likelihood	Risk
Flooding – Local	People	Major	Likely	High
	Buildings	Moderate	Likely	High
	Environment	Minor	Likely	Medium
	Business	Minor	Possible	Low
	Lifelines	Moderate	Likely	High
	Critical Facilities	Moderate	Likely	High
Flooding - Fitzroy River	People	Minor	Likely	Medium
	Buildings	Minor	Likely	Medium
	Environment	Moderate	Likely	High
	Business	Moderate	Likely	High
	Lifelines	Moderate	Likely	High
	Critical Facilities	Moderate	Likely	High
Tsunami	People	Catastrophic	Possible	High
	Buildings	Catastrophic	Possible	High
	Environment	Major	Possible	High
	Business	Major	Possible	High
	Lifelines	Major	Possible	High
	Critical Facilities	Major	Possible	High
Earthquake	People	Moderate	Possible	Medium
	Buildings	Moderate	Possible	Medium
	Environment	Moderate	Possible	Medium
	Business	Moderate	Possible	Medium
	Lifelines	Major	Possible	High
	Critical Facilities	Major	Possible	High
Landslip	People	Minor	Likely	Medium
Elicinaris	Buildings	Minor	Likely	Medium
	Environment	Minor	Likely	Medium
	Business	Minor	Likely	Medium
	Lifelines	Minor	Likely	Medium
	Critical Facilities	Minor	Likely	Medium
Heatwave	People	Moderate	Likely	High
	Buildings	Minor	Possible	Low
	Environment	Minor	Likely	Medium
	Business	Minor	Likely	Medium
	Lifelines	Minor	Likely	Medium
	Critical Facilities	Minor	Likely	Medium
Wildfire	People	Moderate	Almost Certain	High
	Buildings	Moderate	Almost Certain	High
	Environment	Moderate	Almost Certain	High
	Business	Moderate	Likely	High
	Lifelines	Minor	Likely	Medium
	Critical Facilities			Tax Street

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Table 13: Non Natural Risk Register

Hazard	Category	Consequence	Likelihaad	Risk
Civil Riot	People	Minor	Unlikely	Low
	Buildings	Minor	Unlikely	Low
	Environment			
	Business	Minor	Unlikely	LOW
	Lifelines	Minor	Unlikely	tow
	Critical Facilities	Minor	Unlikely	Low
Terrorist Attack	People	Major	Possible	High
	Buildings	Major	Possible	High
	Environment	Major	Possible	High
	Business	Major	Possible	High
	Lifelines	Major	Possible	High
	Critical Facilities	Major	Possible	High
Arson	People	Moderate	Possible	Medium
	Buildings	Moderate	Possible	Medium
	Environment	Minor	Possible	Low
	Business	Moderate	Possible	Medium
	Lifelines	Moderate	Possible	Medium
	Critical Facilities	Moderate	Possible	Medium
Major Transport Incident	People	Major	Possible	High
	Buildings	Moderate	Unlikely	Medium
	Environment	Major	Possible	High
	Business	Major	Possible	High
	Lifelines	Major	Possible	High
	Critical Facilities	Major	Very Rare	Linw
Hazardous Material	People	Major	Possible	High
Incident	Buildings	Moderate	Unlikely	Medium
	Environment	Major	Possible	High
	Business	Major	Possible	High
	Lifelines	Major	Possible	High
	Critical Facilities	Major	Possible	High
Exotic Disease (Animals and Plants)	People	Major	Likely	High
	Buildings			
	Environment	Major	Likely	High:
	Business	Major	Likely	High
	Lifelines			
	Critical Facilities			
Medical Epidemic and Infectious	People	Catastrophic	Possible	High
Disease (Including Influenza	Buildings	Catastrophic	Possible	High
Pandemic)	Environment			
	Business			
	Lifelines	Catastrophic	Possible	High
	Critical Facilities	Catastrophic	Possible	High
Marine Oil Spill	People	Minor	Possible	Low

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Hazard	Category	Consequence	Likelihood	Risk
Tornado	Buildings			
	Environment	Major	Possible	High
	Business	Major	Possible	High
	Lifelines			
	Critical Facilities	Minor	Possible	luow .
Critical Infrastructure	People	Major	Possible	High
Failure	Buildings	Minor	Possible	Low
	Environment	Major	Possible	High
	Business	Moderate	Possible	Medium
	Lifelines	Moderate	Possible	Medium
	Critical Facilities	Moderate	Possible	Medium

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ANNEXURE D - Risk Treatment Plan

NOTE: This Risk Treatment Plan has been included in this document for feedback purposes only prior to endorsement by LDMG.

Plan	Risk Statement	Project Title	Estimated time of completion	Progress
1	Lack of public education and awareness concerning disasters and actions to take in preparation, response and recovery after an event	Public Education and Awareness Program		Progressing - development and implementation
2	'At Risk' Mapping - All Hazards	'At Risk' Mapping- All Hazards		Progressing - Storm Tide Hazard Mapping, Local Catchment Flooding, Road Innundations (historical), Evacuation Routes
3	Identification/update of places of refuge, safer places and evacuation centres	Identification/Update of Places of Refuge, Safer Places and Evacuation Centres		Progressing - Discussions with St Brendan's, they wish to enter into an MoU. Awaiting further advice
4	In depth review of Evacuation Sub Plan - including evacuation routes	Indepth review of Evacuation Sub Plan - including Evacuation Routes		Emailed Chair of Evacuation Sub Committee - Bob Barclay
5	Mitigation measures fact sheet to be developed in consultation with harbours and marine authorities to assist boating community in the region and visitors.	Co-ordination with Harbour Masters and Maritime Authorities		Draft Extreme Weather Contingency Plan (MSQ, Gladstone Region) received from Coast Guard
6	Businesses requiring assistance with business continuity planning (BCP) and emergency response planning (ERP) to build their resilience to disasters.	Business Continuity Planning/Emergency Planning Workshops		As part of Get Ready Week
7	Buildings constructed prior to 1985 were not built according to the building codes following amendments after TC Tracey hit Darwin. Therefore there is a risk these buildings would be unsafe during a cyclonic event.	Identification of Pre 1985 building stock		
8	Residents may not be aware of what a flood height warning translates to in terms of risk to them and their household.	Reinstate flood indicators		
9	Areas in Livingstone Shire are potentially at risk from a landslide.	Investigation of landslide risk areas		

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Plan	Risk Statement	Project Title	Estimated time of completion	Progress
10	Main road transportation routes are at risk of being blocked and delivery of goods into and out of the LS area would be disrupted.	Alternate transport routes - air and marine		
11:	Fitzroy River flooding may impact on homes and buildings and this will put lives and property at risk.	Building floor heights in flood risk areas		
12	Communities can face individualised issues during various disasters, including but not limited to isolation due to road closures and failure of services such as telephones.	Community Consultation and development of All Hazards Response Plans		
13	Culturally and Linguistically Diverse (CALD) and other vulnerable residents and visitors in LS may not understand or receive notifications or warnings transmitted before, during and after a disaster.	Vulnerble Persons Register - Bettering Communication to residents needing assistance		
14	Mitigation of risk to essential services and other critical infrastructure is the responsibility of organisations outside of the LDMG's control. The continuation of these services may be stopped or disrupted during an event and result in significantly greater impact to the community.	Co-ordination of interface between LOMP and service provider plans		
15	Primary communication relies on mobiles and the internet however these may fail in an event, e.g. Ex-TC Oswald in January 2013.	Communications Plan		
16	During an event such as heavy rainfall, roads can become unsafe due to flooding. Limit access for motorists. The dangers of crossing a flooded road are well advertised however many people still attempt to cross them putting their lives and their passengers lives at risk.	Community Education and Engagement		
17	The coastal areas of LS are at risk of damage from a disaster, including but not limited to, erosion, scarping and pollution. These impacts can result in knock on effects to the residential areas behind them and for the residents that use the beaches for recreational and business purposes.	Review of Planning for Coastal Protection		
18	The current location of the Local Disaster Co- ordination Centre can become isolated due to road inundation.	LDCC Access and Future Planning		

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Plan	Risk Statement	Project Title	Estimated time of completion	Progress
19	The Public Works and Engineering Sub Plan is out dated and does not accurately reflect the services available now.	Public Works and Engineering Sub Plan Update		
20	Following a flash flooding event	Environment and Public Health Sub Plan - expand on flooding events		
21	Environment and Public Health sub plan - expansion of information on flooding events	Event Specific Communication- inclusion in Communications Sub Plan		
22	Review of Communications/Reporting between Local, District and State levels	Review of Communications/Reporting between Local, District and State levels		
23	Disasters can have a large impact on business and private property. Many people are unaware of how to begin in preparing for, withstanding and recovery from an event. Conversely there are groups/businesses in the community willing to provide assistance but are unsure what avenue is available for them to let those in need know.	Community Offers of Assistance Register		
24	Kelly's Off stream Storage Emergency Action Plan (EAP) is non-compliant with the State regulation for referable dams (i.e. downstream hazards and population at risk in a failure).	Review of EAPs for reservoirs and Kelly's Offstream for inclusion in LDMP		
25	Limits to the amount of historical information on impacts to properties that can be passed to a prospective buyer to pre warn them or motivate the current owners to resolve the problems.	Property notes pertaining to previous events/impacts to motivate migitation works by the owners and protect future owners/occupiers		
26	Bushfire poses a risk to a large part of the LSC area. Mitigation needs to be a focus to ensure a co-ordinated approach between all stakeholders (e.g. LSC, QFES, DEPH)	Co-ordination of Bushfire Mitigation and Preparation in Livingstone Shire		
27	Homes and other properties have been and continue to be constructed in high bushfire risk areas. The management practices for mitigating the risks of bushfire for some of these developments are not enforced and there is some confusion over what is required by a landowner.	Clarification of requirements in development approval process for mitigation		

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Residual Risks

Residual risk is possible for every event if it is beyond the capability of the Local group to respond. Such events are to be managed within the Queensland Disaster Management Arrangements and will be via a request for assistance to the Rockhampton District. Some of the events may include:

Hazard	Risk	Consequence	Likelihood	Residual Risk
Tsunami	There is a risk of injury or death to a large number of people The need to evacuate large numbers of people in a short timeframe Loss of criticial infastucture both Local and State owned There is a risk that emergency services will have limited capability to respond due to loss of criticial infastrucure Lack of accommodation to support evacuees	Catastrophic	Unlikely	Mass evacuation will require early warning to enable enough time to undertake the evacuation, suitable modes of transport and a safer location to establish evacuation centre/s - rapid onset events will provide challenges. A large scale coastal event will cause displacement of the community that will require State support Loss of essenial services and criticial infastruture will require State support
Earthquake	Large scale earthquakes will cause damage to a high proportion of buildings and severe damage to criticial infrastructure. There is a risk that emergency services will have limited capability to respond due to loss of criticial infastrucure. Lack of accommodation to support displaced community.	Catastrophic	Unlikely	A large scale coastal event will cause displacement of the community that will require State support Loss of essential services and critical infastruture will require State support A large scale earthquake will require State support to accommodate displaced community.
Cat 4 and 5 Cyclone or HAT/Storm Surge	- Triore to a more or inguity or account to lange member or people.	Catastrophic	Unlikely	A severe Cyclone may bring a storm surge and high rainfall, which may have major impacts that require assistance from District/State.

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Hazard	Risk	Consequence	Likelihood	Residual Risk
Terrorist Act	There is a risk that a terrorist attack on criticial infastucture will be beyond the LDMG capability	Catastrophic	Unlikely	Loss of essential services and criticial infastruture will require State support
Prolonged Events	There is a risk that an event over 72 hours duration will exhaust the capability of local agenices to manage an event	Moderate	Unlikely	A prolonged event will be beyond the capability of local enties to manage the event due to number of staff in area.

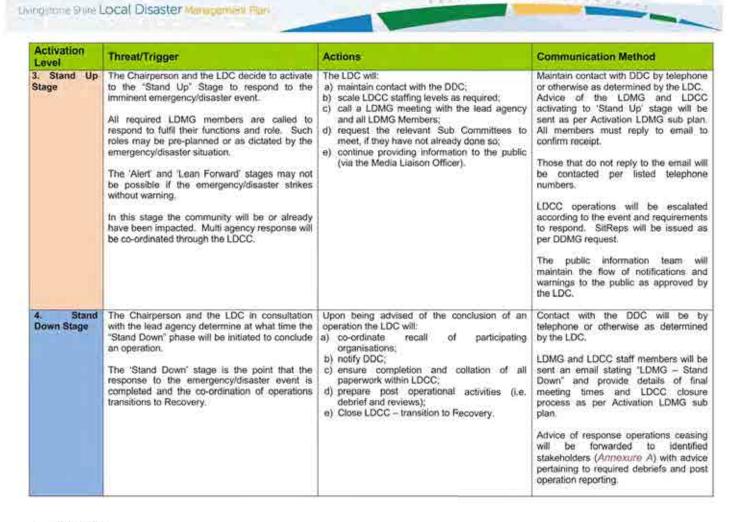
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ANNEXURE E - Stages of Activation - Response Operations

Activation Level	Threat/Trigger	Actions	Communication Method
1. Alert Stage	Upon receipt of a warning or information that an emergency/disaster event may occur, organisations will be alerted to ensure readiness to act if called upon. Following consultation between the LDC and the LDMG Chair the LDMG should be activated to the "Alert Stage" regardless of the event or the identification of a lead agency.	During the "Alert Stage" the LDC will: a) maintain a watching brief to monitor the situation; b) ensure the LDCC is in a basic state of readiness; c) establish contact with the DDC, d) provide initial advice to relevant stakeholders identified in Annexure B - LDMG Members e) identify potential risks of imminent hazard and outline strategies and planning in anticipation of escalation.	LDC to contact with the DDC and SES Local Controller and warning agency by telephone or otherwise as determined. Identified stakeholders (Annexure A) will receive an email stating "LDMG/LDCC @ Alert Stage". The email will contain non sensitive information about the event. Chairpersons of the Sub Committees are responsible for advising members of their committees of activation to the 'Alert' Stage.
2. Lean Forward Stage	As the threat or the effects of an emergency/disaster becomes imminent, members of the relevant organisations or sections are placed on "Lean Forward" being ready to deploy resources and respond. The Chairperson LDMG will, in consultation with the LDC, make the decision to activate to the "Lean Forward" Stage. The likelihood of the emergency/disaster event impacting on the Local Government area has increased.	The LDC will: a) notify the DDC; b) inform relevant stakeholders of 'Lean Forward' stage; c) ensure the LDCC is fully established & set up ready for operation; d) maintain minimum staffing level within the LDCC (i.e. LDC or nominated person and Operations Officer), to monitor, record and if necessary establish communications with lead agency to ensure appropriate information flow; e) release public advice (via media officer) of any relevant public information and warnings, approved by the LDC; f) commence financial management processes; g) continue to monitor the situation; h) consult with the Chairperson LDMG & SES Local Controller regarding future planning and response strategies; ii) call a meeting of the LDMG to brief core members and requested advisory agencies.	LDC to contact the DDC and SES Local Controller by telephone or otherwise as determined by the LDC and establish reporting timelines (refer SitRep procedure) Identified stakeholders (Annexure A) will receive an email stating "LDMG/LDCC -Lean Forward Stage - please acknowledge". All recipients must reply to the email to confirm receipt. Those that are unable to reply to the email will be contacted per listed telephone numbers. Chairpersons of the Sub Committees are responsible for advising members of their committees of activation to the 'Lean Forward' Stage.

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ANNEXURE F - Stages of Activation - Recovery

Levels of activation for recovery compared to those of the response phase.

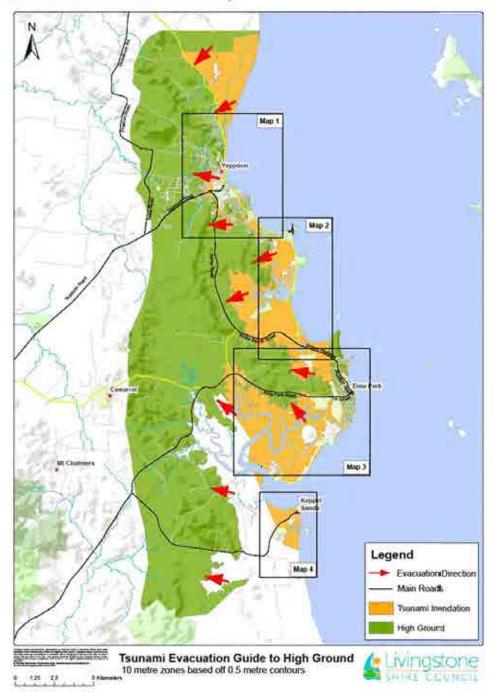
		Triggers	Actions	Communications
Response d Alert	Recovery Alert	Response phase at land forward level of activation	Appointment of LRC as appropriate Potential actions and risks identified Information sharing commences LRC in contact with LDCC/LDC Initial advice to all recovery stakeholders	LRC and LRG members on mobile reynotely
Response Lean Forward	Recovery Lean Forward	Response phase at stand up' level of activation Immediate rollef arrangements are required during response phase.	Monitoring of response arrangements Analysis of hazard impact or potential impact. Relief and recovery planning commences. Displayments for immediate relief commenced by recovery functional agencies.	LRC and LRG members on mobile and monitoring omail remotely Ad hoc reporting
Response Stand Up		Immediate relief arrangements continue	LRG activated at LDCC or alternate location Recovery plan activated Depfoyments for immediate relief response Action plans for four functions of recovery activated as required Community information strategy employed	LRC and LRG members present at LDCC or alternate location, on established landlines and/or mobiles monitoring emails.
	Recovery Stand Up	Response phase moves to stand down' level of activation, Madium term recovery commences.	Participate in response debrief Transition arrangements from 'response and recovery' to 'recovery' activated including handover from LDC to LRC Action plans for four functions of recovery continue Community information strategies continue	LRC and LRG members involved in medium term recovery continue as required Regular reporting to LDMG/LDC
Response Stand Down	Recovery Stand Down	LRG attengements are finalised Community returns to normal activities with ongoing support as required	Consolidate financial records Reporting requirements finalised Participate in recovery debrief Participate in post event debrief Post event review and evaluation Long term recovery arrangements transferred to functional lead agencies Return to core business	LRC and LRG members resume standard business and after hours contact arrangements Functional lead agencies report to LRC/LRG as required.

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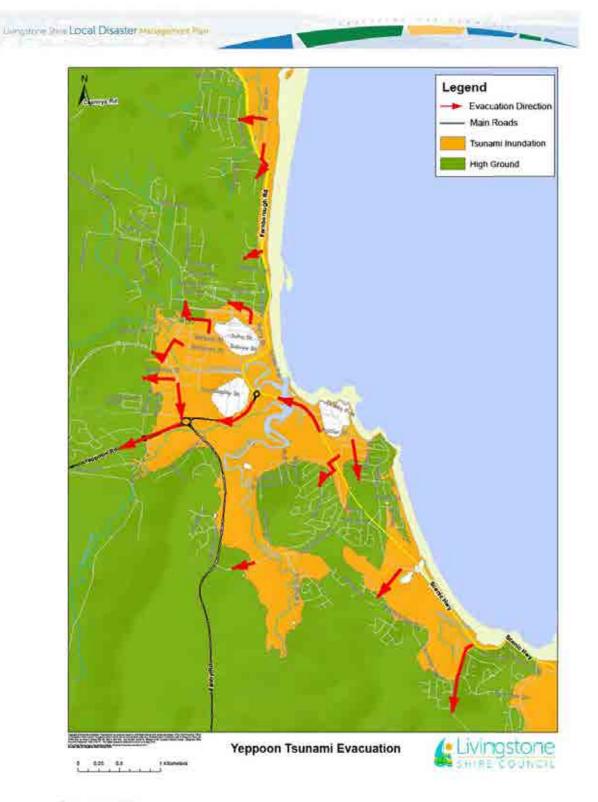
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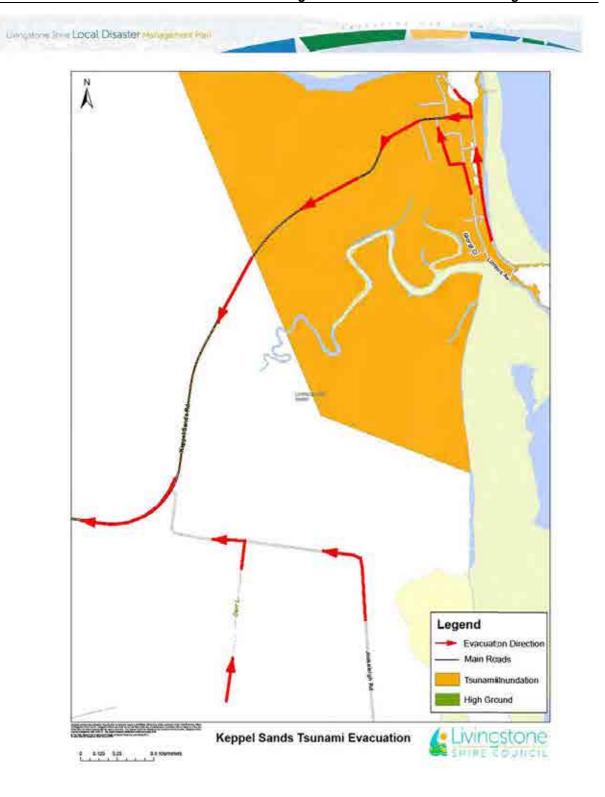
ANNEXURE G - Tsunami Evacuation Maps



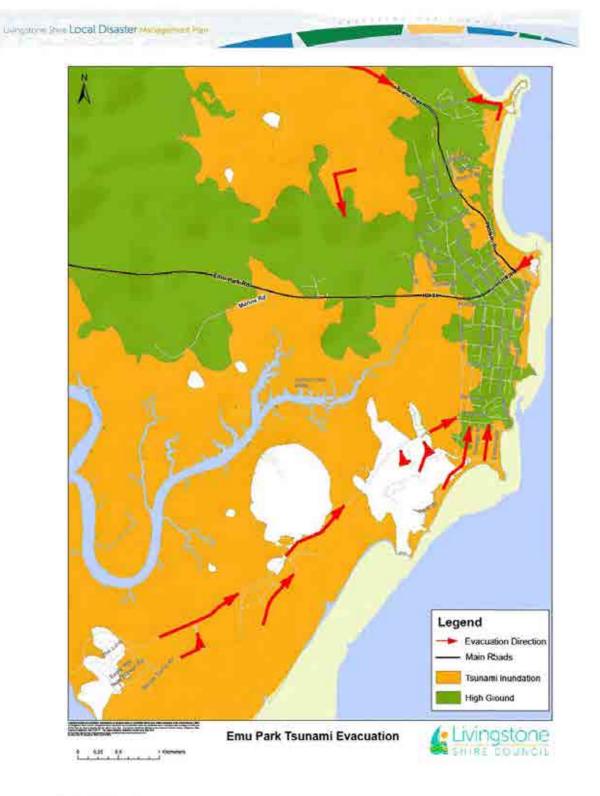
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ANNEXURE H - Local Disaster Management Group Forms

Member Status Report



Member Status Report

Organisation represented:	
Meeting Date & Time:	
Control of the Contro	The state of the s

The following activities have been undertaken or are being undertaken by the local government/agency/organisation: (dilate sections or insert N/A as required depending on role and responsibilities)

Mitigation

Risk Management / Mitigation May include items such as Studies (NDRP), mitigation initiatives, planning or measures being undertaken

Impediments to Implementation of Mitigation Measures
May include impediments such as funding, resourcing issues, responsibility

Planning

Integration with business planning.

Summary of how disaster management is being integrated with the overall business of the organisation, including strategic and operational planning.

Review Date	Type of Review	Summary of amendments
CANCELL STREET	encontraction of the	China harancontrata de la contrata del contrata de la contrata de la contrata del contrata de la contrata del contrata de la contrata de la contrata de la contrata de la contrata del contrata de la contrata del contrata de la contrata de la contrata de la contrata del contrata de la contrata de la contrata del contrata del contrata de

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Operational Issues

Readiness Status (General comment regarding status of operational readiness)

Staff Availability (Commont on staff availability for LDCC, response etc.)

LDCC (Comment on resourcing levels for LDCC and possible impacts on operations

Operations Conducted

Date	Type of event	Brief summary of response activities (Include role and functions)
------	---------------	--

Remedial Action (Cultine any proposed actions or improvements as a result of the operational activities:

1.

Capability Development

Training Conducted

Date	OM component or function	Name of course or training content	Conducted by	Participants

 The department has recently finalised new on-line training modules for our ready reserve team members.

Exercises Conducted

practical plan	Date	Name of exercise	e.g. tabletop/ practical	e.g. test communications plan	Agency coordinating the exercise	/ Agencies involved
----------------	------	------------------	--------------------------------	-------------------------------------	--	------------------------

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	fial Action (Insert det (or recommendations)	alls of any prop	posed actions or improve	ements as a result o	d ressons
1.					
2					
3.					
			proposed exercises or e	xercises currently i	under
develop	ment including sugge		Objectives of the		lane and the same
Date	Name of exercise	Type of exercise e.g. tabletop	exercise e.g. test communications	Agency coordinating exercise	Local Gov / Agencies involved
-		practical	plan		
_					
Date	Name of Activity	Activity	exercise Activity	Activity	involved
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			gagement Education		
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LSC Appointment to LDMG of Advisory Member



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LSC Appointment to LDMG of Core Member





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LSC Appointment to LDMG of Deputy Member



Indiget date

Che reference Edia 1.7

Cispanier in Chinates Managarrant and Parameter in Talaphone. D7-4013 SCOTus 1300 755 513

Email: motanggroupatine.gpt.goc.au.

muer: name and address

Door leases name

in accordance with a 33 of the Disaster Management Act 2005 and in compliance with s. 14 the Disaster Management Regulation 2014 I hereby appoint you as a Deputy Member of the Livingstone Shire Local Disaster Management Group representing the Insent organisation name.

I am satisfied that you'the position have had the necessary experience or expertise to perform the functions of a member of a Local Disaster Management Group.

Should you require any further information, please contact Karen Sandy, Secretariat Livingstone Shire LDMG, 4539 9997 and LSCOMMININGSTONE ON au

Yours faithfully

Mayor Bill Ludwig Chair Livingstone Shire Local Disaster Management Group



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Nomination to LDMG - Letter from Agency to Chair of LDMG

1

NOTE: Please print onto your Organisation letterhead

(Insert todays date)

The Chair Livingstone Shire Local Disaster Management Group PO Box 2292 Yeppoon QLD 4703

Dear Sir.

I would like to nominate [delete whichever paragraph is not used]:

(insert nominee name) who holds the position of (insert position) to represent (insert organisation) on the Livingstone Shire Local Disaster Management Group.

OB

(insert nominee position) to represent (insert organisation) on the Livingstone Shire Local Disaster Management Group.

This is a replacement for (insert previous nominee name or position) who was the previous member. (Delete if not applicable)

The nominee person or position has the necessary expertise and / or experience to perform the functions of a Local Disaster Management Group member in accordance with the Disaster Management Act 2003, on behalf of (insert organisation).

The contact details for the nominee are:

Telephone	
Mobile:	
Email:	
Postal Address:	

(Insert nominee name or position) has been informed that personal contact information has been collected in accordance with the Information Privacy Regulation 2009 for the purposes of disaster management.

Should you require any further information, please contact (insert contact name) on (insert telephone number).

Yours sincerely

(insert name) (insert position)

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Authorisation to appoint a Deputy



SECTION ONE

SECTION ONE		
		deputy, performing the member's functions MS). The request is to be approved by the
LONG MEMBER TO COMPLETE		
	/Name)	(Postvenditor)
l)		(Agonty/organisation)
am a member of the Livingstone S	fire LDMS	
Livingstone Stins Local Disaster I group meetings in my ebsence e Regulation 2014 at such meetings.	Anagement Group to appoint the astronomy by typotone and	all a sought from the Charperson of the he finfowing person as my deputy to attend powers under ggf4) Disaster Management sperience to aid as my deputy to the Local
persons to be authorised:		
Telephone.		
Mothe:		
Errat:		
Postai Address.		
Condition of the authorisation (if accreasing their th		

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University Serie	Local Disaster Margin et Pal/
	Please complete the applicable: (i) The above person is replacing who was the provides Deputy member (ii) The above person is in addition to who is the existing Deputy member:
	c) The above parison is automoded to carry out at the roles and response titles for my position from the following date:
	Signature: Cate://
	Return this form to: Livingstone Shire Local Disaster Management Group FO Box 2237 SERROGN DOD, 4703 Or - LSCEANS/Introduced and ground.
	SECTION TWO
	CHAIRPERSON TO COMPLETE The authorisation to appoint the person named above as the manager's deputy is approved.
	Signature: Print Name:
	Dotte:
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LDMG Advisory Members - Letter Invitation to nominate a representative



Dear xxx

The Livingstone Shire Local Disaster Management Group (LDMG) would like your nomination as a representative to be an Advisory Member of the group. As an Advisory Member, your relevant expenence or expertise will assist in carrying out the functions detailed in the Cisaster Management Act 2003, s30.

A template for nomination is included with this letter and also a form for the nomination of a Deputy. The nomination of a Deputy is necessary should the primary representative be unavailable. The Deputy is required to attend meetings and has equivalent expertise and/or experience to the primary representative to enable them to support the LDMG as per normal arrangements.

Some agencies have indicated a preference to nominate a position from their organisation rather than a person (for example officer in charge rather than an individual). This nomination preference is to alloviate absences when a member is on leave or acting in another position. Please consider if the nomination of a position from your agency is appropriate, keeping in mind the contact phone and email you supply will be utilised by the LDMG as a point of contact. The position incumbent would have the equivalent expertise and/or experience to enable them to support the LDMG as per normal arrangements (s33 of the Disaster Management Act 2003).

Please complete both the template and the form and return by close of business DATE (14 days). This can be returned either by post or electionic mail to the contacts below.

Should you require any further information, please contact Karen Sandy, Secretarial, Livingstone Shire LDMG on 4939 9997 or LSCDM@livingstone.qld.gov.au

Yours faithfully

Mayor Bill Ludwig Chair Livingstone Shire Local Disaster Management Group

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Correspondence Register

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prrespondence Date	stwards/0 utwards	Correspondence Type	Name	Agency	Content of Correspondence	Comments
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LDMG Meeting Minutes Template



LIVINGSTONE SHIRE LOCAL DISASTER MANAGEMENT GROUP MINUTES

Menting Notice

The Livingstone Shire Local Disaster Management Group meeting was held at the Community Education Room, Centre of Excellence for Disaster Management, Innovation and Community Resilience, 7-9 James Street, Veppoon on Wednesday, XX XXXX 2018 commencing at 9-00am.

Attundent

Cores

Advisersi

Deputyr Other Attendees

The maeting commenced at XX am and was chaired by the Livingstone Shire Local Disaster Management Group Chair, Mayor Bill Ludwig.

Hems for Discussion

Item 1 - Leave of Absence and Apologies Leave of absences have been received from XXXX.

Applogies have been received from:

Update to membership:

Itum 2 - Confirmation of Meeting Minutes

Confirmation of minutes of the Livingstone Shire Local Disaster Management Group meeting held on EX XXXX 2017.

Recommendation:
That the minutes of Livingstone Shire Local Disaster Management Group meeting held on XX XXXX

2017 be confirmed.

Moved - XX Seconded - XX



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Item 3 - Actions from previous minutes

Recommendation:

Item 4 - Recovery and Resilience Taskforce Update

Details: An update will be provided on the four Recovery and Resilience taskforces; suit Environment, Environment & Regulatory, Community Development and Regional & Economic Development.

Responsible Officer: David Mazzafern; Local Disaster Coordinator - Livingstone Shire Council

Recommendation: For member's information

Hem 5 - Operational Plan Update

Details: Third quarter progression of the LDMG Operational Plan 2017/2018. The Livingstone Shire LDMG Operational Plan outlines the strategic direction of the group for a 11 month period. It sets out the LDMG's goals, strategies and performance indicators for each of those goals for 2017/18. The operational plan will also ensure the LDMG meets its legislative requirements under the Disaster Management 4ct 2003.

Responsible Officer: David Mazzaferri; Local Disaster Coordinator - Livingstone Shire Council

Recommendation: For member's information and contribution

Item 6 - XX

Recommendation

Hem 7 - XX

ACTION:

Recommundation:

Itom S - XX

Recommendation:

Stem 9 - XX

Recommendation:

ACTION:

Hem 10 - Agency Updates

We will endeavour to send the member status update reports to you a fortnight in advance. Thank you to those agencies that have sent them in, for those that have not, please send through in the next 4 or 5 days and we will send them with the minutes. Thanks to the sending in their reports. These are attached to the minutes along with the blank template.

Ali Reeves - Central Queensland Hospital & Health Service:

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Linestone Brite Local Disaster www.proced Paris

Wayne Kapernick - Queensiand Fire and Emergency Services:

Rob Perguson - Queensland Pire and Emergency Services:

Eddle Cowle - State Emergency Service:

David Mazzaferri - Livingstone Shire Council:

Mark Fewtrell - Capricorn Helicopter Rescue Service:

Arthur Hunt - australian Volunteer Coast Guard Association

reson Thompson - Queensland Ambulance Service:

ACTION ITEM -

Bill McMillian - Department of Training and Education.

Michelle Bradshaw - Ergon Energy

Stanley Chin - Department of Transport and Main Roads

Bradley Reynolds - Maritime Safety Queensland:

Craig Holden - Surf Life Saving Queensland:

For member's information.

Item 11 - General Business

Recommendation:

Item 12 - Next Meeting
The next meeting of the Livingstone Shire Local Disaster Management Group has been scheduled for XX XXXX 2017 commencing at 9:00am at Council Chambers, 70 Anzac Parade, Yeppoon.

Item 13 - Meeting Closure Meeting Closed XX XXXX

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Page 230 Attachment 1



LDMG Meeting Agenda Template



LIVINGSTONE SHIRE LOCAL DISASTER MANAGEMENT GROUP AGENDA

Maeting Notice

The next Livingstone Shire Local Disaster Management Group meeting will be held at the Centre of Excellence for Disaster Management, Innovation and Community Resilience (The Hub) at <u>Reaman</u> Park, 7-9 James Street, Veppoon on Wednesday, XX XXX 2018 commencing at 9:00am.

Invitees

Cores

Advisors

Deputy

Other Arrendees:

Mayor Bill Ludwig

Chair, Livingstone Shire Local Disaster Management Group

Items for Discussion

Item 2 - Leave of Absence and Apologies.
As of XX XXXX 2018 leave of absences have been received from XXXX.

Update to membership.

Item 2 - Confirmation of Meeting Minutes Confirmation of minutes of the Uvingstone Shire Local Disaster Management Group meeting held on

(Attachment 1 - LDMS committee meeting minutes of KK XXXX 2017)

That the minutes of Livingstone Shire Local Disaster Management Group meeting held on XX XXXX 2017 be confirmed.

20 No. 2250, Tempore, GLE 8355 Village phoning on Year street

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Page 231 Attachment 1

Item 3 - Actions from previous meetings

Item	Action	Responsible Person	Details	Status
				Origonal
			1	Completed
				Cingolog
				Completed

HTMO	YEAR			
Item.	Action	Responsible Person	Details	Status
				completes
		7		Completes

Item 4 - Recovery and Resilience Taskforce Update

petalls. An update will be provided on the four recovery and resilience tasisforces; built trivironment, Environment & Regulatory, Community Development and Regional & Economic Development.

Responsible Officer: David Mazzafern; Local Onaster Coordinator - Livingstone Shire Council

Recommendation: For member's information

Item 5 - Operational Plan Update
Details: Second quarter progression of the LDMG Operational Plan 2017/2018. The Livingstone Shire LOMG Operational Plan outlines the strategic direction of the group for a 12 month period. It sets out the LOMG's goals, strategies and performance indicators for each of those goals for 2017-18. The operational plan will also ensure the LOMG meets its legislative requirements under the Disaster Management Act 2003.

Responsible Officer: David Mazzaferri; Local Disaster Coordinator - Livingstone Shire Council

Recommendation: For member's information and contribution

Details:

kesponsible officer:

Recommendation:

Item 7 - XX

Details:

Responsible Officer:

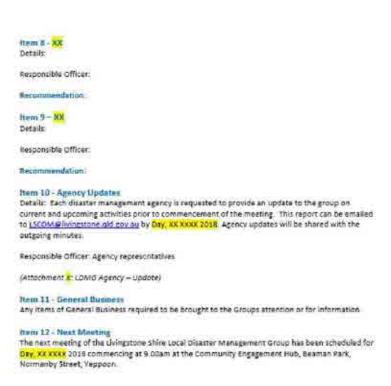
Recommendation:

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Flying Minute Template

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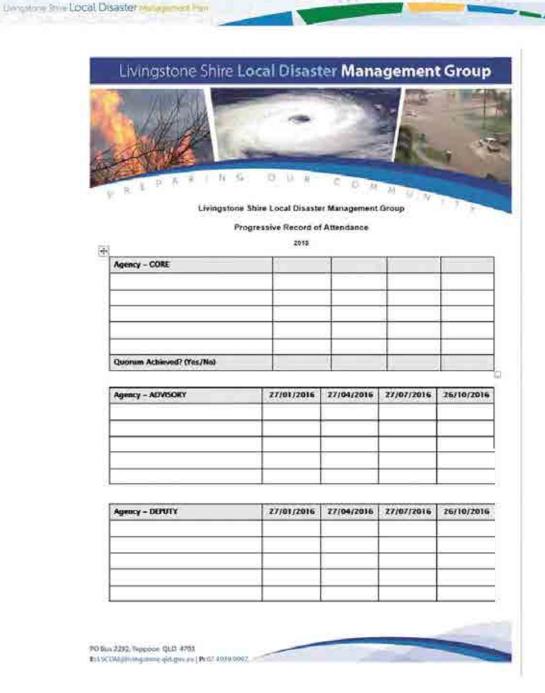
Flying Minute Template

Livingstone Shire Local Disaster Management Group Flying Minute's for Member Endorsement <<insert Dateso

Agenda No. & Title	Resolution	Action Officer	Endorsed (v)	Not Endersed (X)
Example: Agenda Item 1: 2010 Meeting Dates	That Members endorse the 2010 DDMG Meeting Dates and make a commitment to attend future meetings.	All Members		П
Agenda Item 2: <insert td="" titles<=""><td>Insert what the required outcome is:</td><td>Insert who the action officer is></td><td></td><td></td></insert>	Insert what the required outcome is:	Insert who the action officer is>		
Agenda item 3: «Insert Title»	Insert what the required outcome is>	<insert action="" is="" officer="" the="" who=""></insert>		10
Agenda Item 4:	lnsert what the required outcome is>	<pre><insert action="" is="" officer="" the="" who="">-</insert></pre>		
	ENDORSEMENT idensed by appointed Member to achieve of	uorum and validate r	esolution)	-
Signature:	Name:			
Date:	Agency:			

LDMG Record of Attendance

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Resolutions Register

Meeting Date	item No.	Resolution/Recommendation	Moved	Agency	Seconded	Agency	Comments
- 1-2	-						
	-		-	+		-	
	-		-	+		 	
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Livingstone Bushfire Sub Committee

Member Status Report

Organisation represented:		
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The following activities have been undertaken or are being undertaken by the local government/agency/organisation: (delete sections or insert N/A as required depending on role and responsibilities)

Mitigation

Risk Management / Mitigation May include items such as Studies (NDRP), mitigation initiatives, planning or measures being undertaken

Impediments to Implementation of Mitigation Measures

May include impediments such as funding, resourcing issues, responsibility

Planning

Integration with business planning

Summary of how disaster management is being integrated with the overall business of the organisation, including strategic and operational planning

Review of <insert Plan Name> Plan

Review Date:	Type of Review	Summary of amendments
5 7500000		

Community Education/Awareness

Community Education/Awareness

May include any engagement activities, events, workshops, programs

Operational Issues

Readiness Status (General comment regarding status of operational readiness)

Staff Availability (Comment on staff availability for LDCC, response etc.)

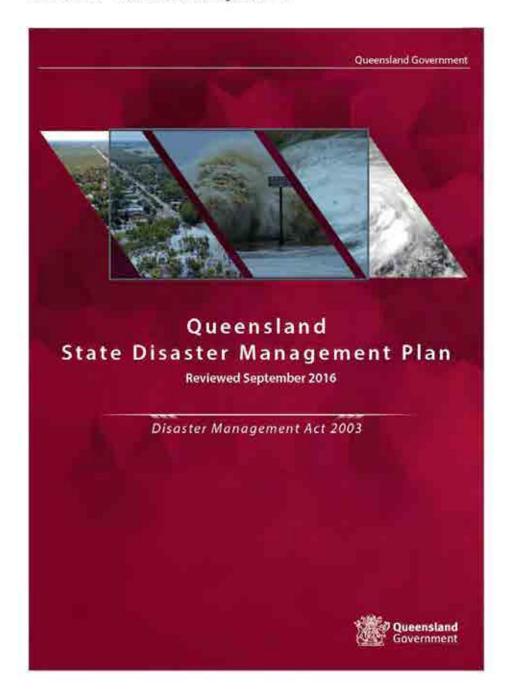
LDCC (Comment on resourcing levels for LDCC and possible impacts on operations.

Page 177 of 178

Add ECM reference date and version including page number



ANNEXURE I - State Disaster Management Plan



Page 178 of 178
Add ECM reference date and version including page number

12.5 YEPPOON LAGOON - EXTRA ACTIVITIES POST OPENING

File No: CR 2.5.21

Attachments: 1. Yeppoon Lagoon

2. Yeppoon Foreshore Yeppoon Surf Life Saving Club to Keppel Bay Sailing Club

3. Area Subject to Memorandum of

Understanding with Keppel Bay Sailing

Club[↓]

Responsible Officer: Brett Bacon - Executive Director Liveability and

Wellbeing

Author: Trish Weir - Manager Customer Service

SUMMARY

At the Advisory Committee Meeting of 3 September 2018, officers were asked to investigate and provide clear details regarding a process to manage the possible 'uses' of the Yeppoon foreshore (predominantly the lagoon precinct) for events and activities. This report details the possibilities and issues associated with 'organised' and commercial use of the precinct and seeks direction regarding use of the site beyond the 'normal' use of the precinct with respect to the grassed and lagoon wet area.

OFFICER'S RECOMMENDATION

That Council resolves to manage activities along the Yeppoon foreshore in accordance with the following tables:

Table One: Yeppoon Lagoon (as depicted in Attachment One)

Area	Potential Activity	Proposed Process	Other
A - Event Space	Large groups/individuals with marquees, markets stalls, outdoor movies, fitness activities, outside broadcasts, sporting and school groups.	Approval required	Alcohol Free Area Advise Lane 4, Rocks Café, and Keppel Bay Sailing Club Fees may apply
B - Group Space	Smaller groups/individuals with marquees, market stalls, fitness activities and outside broadcasts.	Approval required	Alcohol Free Area Advise Lane 4, Rocks Café and Keppel Bay Sailing Club Fees may apply
C - Community Space	Community Space.	Not to be booked	Alcohol Free Area No action required
C - Community Space	Skate Park (Competitions).	Approval required	Alcohol Free Area

			No action required
D - Leased Area	Rocks Café and Restaurant	Not to be booked	Tenant controlled service of alcohol

Table Two: Yeppoon Foreshore (as depicted in Attachment Two)

Area	Potential Activity	Proposed Process	Other
A - Event Space	Large groups/individuals with marquees, markets stalls, outdoor movies, fitness activities, outside broadcasts, sporting and school groups and personal trainers.	Approval required	Alcohol can only be consumed in accordance with a Liquor Licence Fees may apply
B - Group Space	Smaller groups/individuals with marquees, market stalls, fitness activities and outside broadcasts.	Approval required	Alcohol can only be consumed in accordance with a Liquor Licence Fees may apply
C - Community Space	Community Space.	Not to be booked	Alcohol Free Area Nil action required

BACKGROUND

The Yeppoon Lagoon was officially open to the public on Saturday 5 May 2018. It is the centre piece of the Yeppoon Town Centre and Foreshore Revitalisation Project and is anticipated to attract increased visitation to the Capricorn Coast region (and hopefully increased visitor spending).

Subsequent to its opening, Council continues to receive requests from entities wishing to pursue the following ventures:

- (1) filming of a television commercial;
- (2) outside broadcast;
- (3) photography associated with a print media commercial;
- (4) hosting of a film night;
- (5) school or sporting club social, end of year event;
- (6) hosting of a club party/event; and
- (7) markets.

It is timely for Council to give consideration to what activities should be accommodated along the Yeppoon foreshore, in particular the lagoon precinct, and the manner in which these activities should be accommodated under a formal management framework that will help guide a consistent process.

Council operates a successful booking system for all halls, parks, ceremonies and events using Pathway software. This can easily be extended to include the lagoon area. The process to make a booking is:

- (1) enquiry via customer service directly or received via Online Booking;
- (2) costs (if associated) are paid and formal approval is issued;
- (3) Facilities and or Open Spaces advised of event; and
- (4) for Temporary Events a post event evaluation survey sent.

COMMENTARY

Current Management Protocols

The current management protocols for the various areas along the Yeppoon foreshore are summarised thus:

Appleton Park - Skate Park/Playground - Area C Map One

The use of Appleton Park and the playground is self-managed by the users, with no bookings available for the use of the shelters or barbecues. If multiple parties occurred simultaneously, it is 'first in first served'. Officers are not aware of any friction or discord emanating from such a system. Under the traditional regime, a booking of the skate park by a person for private purposes would not be allowed.

Keppel Bay Sailing Club carpark/grassed area or walkways within precinct

A Memorandum of Understanding exists between Council and the Keppel Bay Sailing Club, with major regattas, sailing Sundays and events being managed under the Temporary Event approval process. When there is no regatta, the open space areas in question can be used by anyone and are not available for exclusive use (and thus cannot be booked). Note: Council can also close Anzac Parade for specific events or activities after consulting with Keppel Bay Sailing Club.

Foreshore Stage and Amphitheatre area – Area A Map Two

The foreshore stage is available for bookings for specific events, be it community or privately managed. When it is not booked for a specific event, it is part of the foreshore open space area, available to the general public for passive recreation and use.

Keppel Kraken and Spirit Stone area - Area C and A Map Two

The use of the Keppel Kraken and surround playground is self-managed by the users, with no bookings available for the use of the shelters or barbecues. For large events such as Pinefest or Great Australia Day Beach Party, the Spirit Stone area can form part of 'the event' and is used for stalls. Council is also aware of Flow Yoga which occurs Saturday mornings weekly at this site.

Yeppoon Lagoon - Area E Map One

Council currently has no formal booking system established.

Future Management Possibilities:

Again, for the purposes of this discussion, the use of the area(s) in question has been compartmentalised into the following categories:

- (1) commercial;
- (2) community; and
- (3) private.

It is recognised that it is not possible to neatly fit every conceivable activity into only one of the above categories. There will be activities which overlap and inevitably some activities which defy all three categories. However, rather than attempt the Sisyphean task of an exhaustive list of categories and activities the three broad categories have been adopted for this discussion.

Commercial

Commercial uses entail activities which are intended to provide a financial return to the individual or entity. Activities include filming (for commercials or television/cinema), photography for advertisements or promotional purposes, conducting fitness sessions for reward, conducting swimming lessons, and mobile food and beverage vendors.

Community

Community uses entail activities associated with events which are not intended to generate a profit. For example, an activity undertaken in associated with an event, a fun run or a 'rally' or gathering.

<u>Private</u>

Private uses are those which are not open to the general public or are for specific people only. For example, a club is wishing to have an event for its members (such as an end of season break-up) or a family wishing to have a birthday party or reunion. It also captures wedding events and wedding or family portraits.

It is suggested that the self-managed system for private parties along the foreshore be continued as officers are not aware of any friction or discord emanating from the existing 'first in first served' approach. Consequently, there is no imperative to alter the status quo.

Consideration needs to occur around the implications associated with accommodating events, for example:

Impact to Kiosk/Restaurant - Area D Map One

- 1) noise levels (for example, floating film night occurring while restaurant wedding is occurring and vice versa);
- 2) lease area restrictions around 'use of space' and who controls/monitors and schedules events or activities; and
- 3) ideas and advertising campaigns which the lessee is planning.

Impact to Community/Lagoon Users

- 1) people may be visiting the lagoon to enjoy its simplicity not necessarily there to attend 'an event' (the lagoon is fun and free);
- 2) with groups (particularly in summer time) will come the desire to erect large marquees which in turn can change the visual and physical landscape for other users and potentially damage irrigation and grass areas;
- 3) logistics some access points could be impacted due to set up of event equipment such as marquees, coldrooms, extension cords, rides, stage areas etcetera; and
- 4) markets frequency and conditions of market would need to be strictly managed to ensure public and lessee are not impacted greatly and valuable grassed areas are not lost.

Impact to Council (known events)

- 1) events would be booked under Temporary Event process and approved under Local Law as per other events;
- 2) communication with lifeguards, security and Council's open spaces and facilities teams would need to occur to ensure adequate staffing and cleaning levels are achieved;
- possible reputational damage may occur if original 'use' of space is lost or changed greatly;
- 4) management of the memorandum of understanding with Keppel Bay Sailing Club needs to be managed; and

5) management of the leased areas with the tenant.

Yeppoon Foreshore Activity Area Maps

Reference is made to Attachments One and Two where the prime booking areas along the Yeppoon Foreshore have been categorised for discussion and approval. For the purpose of this report a 'large group' is deemed as over 100 attendees and a 'small group' is deemed as between fifty (50) and 100 attendees. All bookings will be managed via the Bookings Module. Park Hire fees will apply when the user is requesting access to power outlets and further discussions need to occur to determine if personal trainers should be required to be obtain permits.

Council also needs to determine its appetite with respect to allowing the consumption of alcohol within the foreshore precinct. The below tables provide a breakdown of where it is intended to allow alcohol to be consumed, strictly in accordance with a liquor licence. Area D (Rocks Café and the restaurant) will be the subject of a liquor licence which expressly prescribes the area within which alcohol can be consumed. That will be restricted to the area which is leased by the operators of the Rocks Café and the restaurant (thus it cannot sell alcohol for consumption outside the lease area).

The objective is to ensure that the foreshore is a family friendly destination of choice. Consequently, it is recommended that the consumption of alcohol is prohibited in various sectors (including in the vicinity of precincts designed for children (such as the Kraken and Appleton Park) and around the lagoon. Areas where is it proposed that alcohol can be consumed will be limited to specific events, which are the subject of a liquor licence.

Table One - Yeppoon Lagoon (as depicted in Attachment One)

Area	Potential Activity	Proposed Process	Other
A - Event Space	Large groups/individuals with marquees, markets stalls, outdoor movies, fitness activities, outside broadcasts, sporting and school groups.	Approval required	Alcohol Free Area Advise Lane 4, Rocks Café, and Keppel Bay Sailing Club Fees may apply
B - Group Space	Smaller groups/individuals with marquees, market stalls, fitness activities and outside broadcasts.	Approval required	Alcohol Free Area Advise Lane 4, Rocks Café, and Keppel Bay Sailing Club Fees may apply
C - Community Space	Community Space.	Not to be booked	Alcohol Free Area No action required
C - Community Space	Skate Park (Competitions).	Approval	Alcohol Free

Area	Potential Activity	Proposed Process	Other
		required	Area No action required
D - Leased Area	Rocks Café and Restaurant	Not to be booked	Tenant controlled service of alcohol
E - Lagoon Pool	Commercial/Public Activity – fitness/other organised by council/supplier.	Approval required	Alcohol Free Area Fees may apply

Table Two – Yeppoon Foreshore (as depicted in Attachment Two)

Area	Potential Activity	Proposed Process	Other
A - Event Space	Large groups/individuals with marquees, markets stalls, outdoor movies, fitness activities, outside broadcasts, sporting and school groups and personal trainers.	Approval required	Alcohol can only be consumed in accordance with a Liquor Licence Fees may apply
B - Group Space	Smaller groups/individuals with marquees, market stalls, fitness activities and outside broadcasts.	Approval required	Alcohol can only be consumed in accordance with a Liquor Licence Fees may apply
C - Community Space	Community Space.	Not to be booked	Alcohol Free Area Nil action required

PREVIOUS DECISIONS

The use of the Yeppoon foreshore (including lagoon precinct) for commercial, community or private purposes has not been the subject of any Council resolution nor direction.

BUDGET IMPLICATIONS

Currently, there is no hire fee associated to the Yeppoon Lagoon precinct. If the decision is made to allow groups to hire the site, Council's fees and charges would need to be updated. Any fee would need to include true cost recovery regarding lifeguards and security, waste disposal, power, cleaning and other aspects associated with the event.

If council elects to have organised activities in the lagoon, a decision would need to be made regarding who manages this (id est, Engagement and Events or Sport and Recreation Units), kiosk operator or lifeguard company or an alternative supplier.

LEGISLATIVE CONTEXT

The ability to manage the use of public land such as the Yeppoon foreshore is generally enabled through local laws and the Planning Scheme.

LEGAL IMPLICATIONS

There are no exclusive trade clauses in the kiosk or restaurant tenancy contracts, thus there appears to be no known implications regarding alternative groups or users conducting activities in this precinct. Exception is for their outdoor dining area directly in front of the kiosk.

STAFFING IMPLICATIONS

If Council resolved to allow events on this site, the approvals would need to be processed by the Engagement and Events team and would be approved in consultation with lifeguard and security operators, facility management and tenant.

RISK ASSESSMENT

Any event organiser would need to adhere to stringent workplace health and safety requirements and Yeppoon Lagoon rules regarding use of the site. It would be necessary for the event organiser to have a pre-event meeting with lifeguard/security and Council officers, and potentially the tenant.

If events are permitted on this site and occur frequently, users could become dissatisfied that the use of the lagoon has changed from that of a public place for all.

CORPORATE/OPERATIONAL PLAN

Strategy AM1 of Council's Corporate Plan states: 'Develop an innovative and integrated framework for long term, cost effective asset management.'

CONCLUSION

The Yeppoon Foreshore and Lagoon offers a variety of uses. As the owner/operator, Council controls what occurs. The general theme with other coastal lagoons in Queensland is that activities are free, low impact and aimed at activating the space.

Council direction is sought on the tolerances for the three categories outlined in this report, commercial, community and private that will then determine if a booking is required and provide consistency for all stakeholders. Consideration or exceptions may apply to the tenant regarding liquor licencing upstairs and the downstairs area when in conference or event use and the Keppel Bay Sailing Club memorandum of understanding (Map Three).

Valued daily statistics regarding use of the lagoon (swimmers, spectators and movement patterns) are recorded by Lane 4 along with observations by onsite council officers and café operator. Council may wish to test a combination of uses for a trial period in order to determine the mot acceptable before formalising an approach.

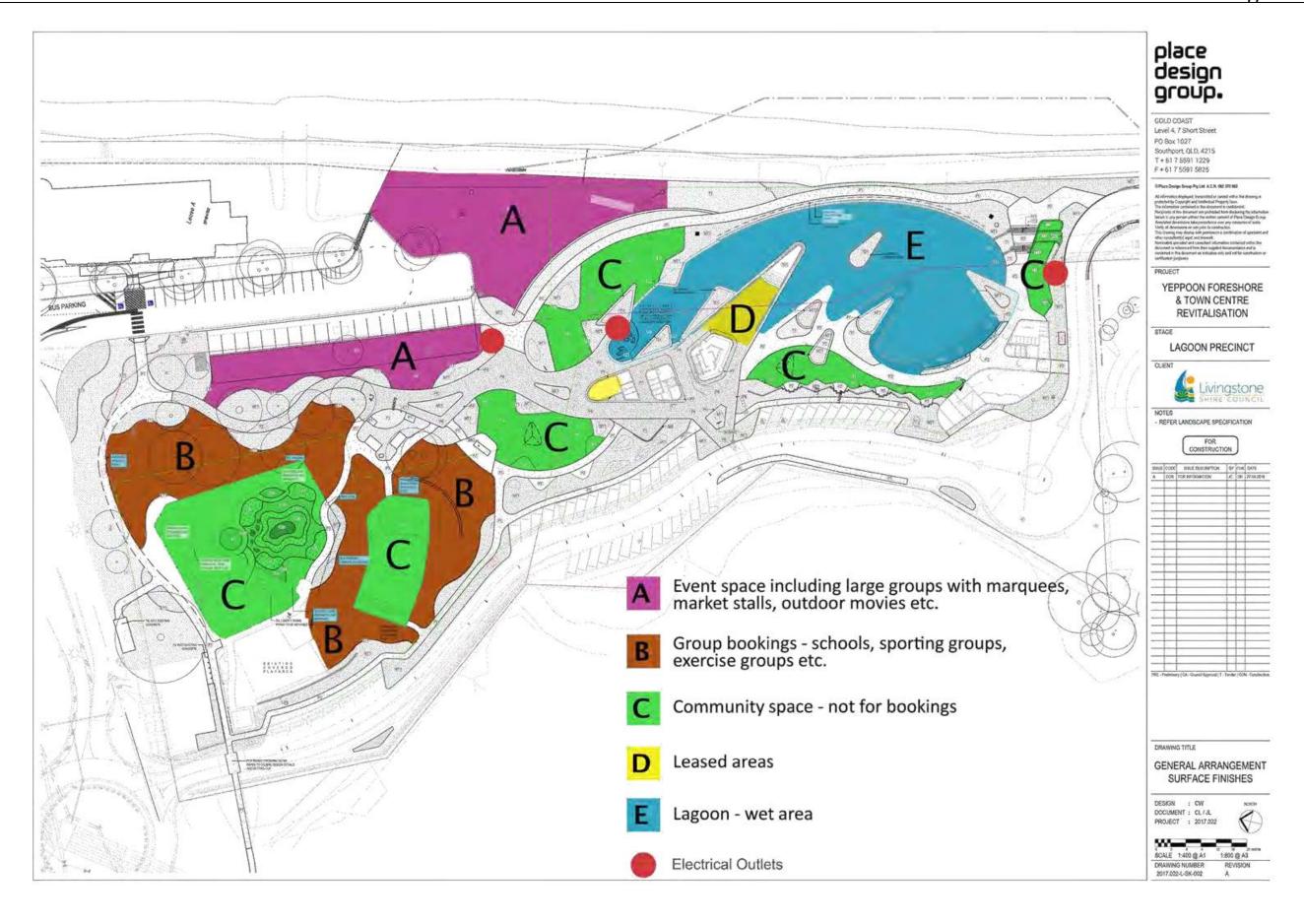
12.5 - YEPPOON LAGOON - EXTRA ACTIVITIES POST OPENING

Yeppoon Lagoon

Meeting Date: 16 October 2018

Attachment No: 1

Item 12.5 - Attachment 1

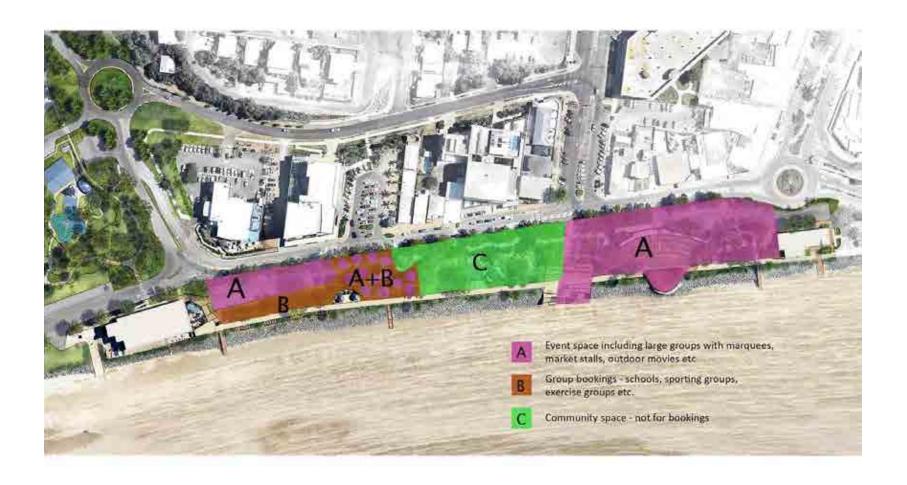


12.5 - YEPPOON LAGOON - EXTRA ACTIVITIES POST OPENING

Yeppoon Foreshore Yeppoon Surf Life Saving Club to Keppel Bay Sailing Club

Meeting Date: 16 October 2018

Attachment No: 2



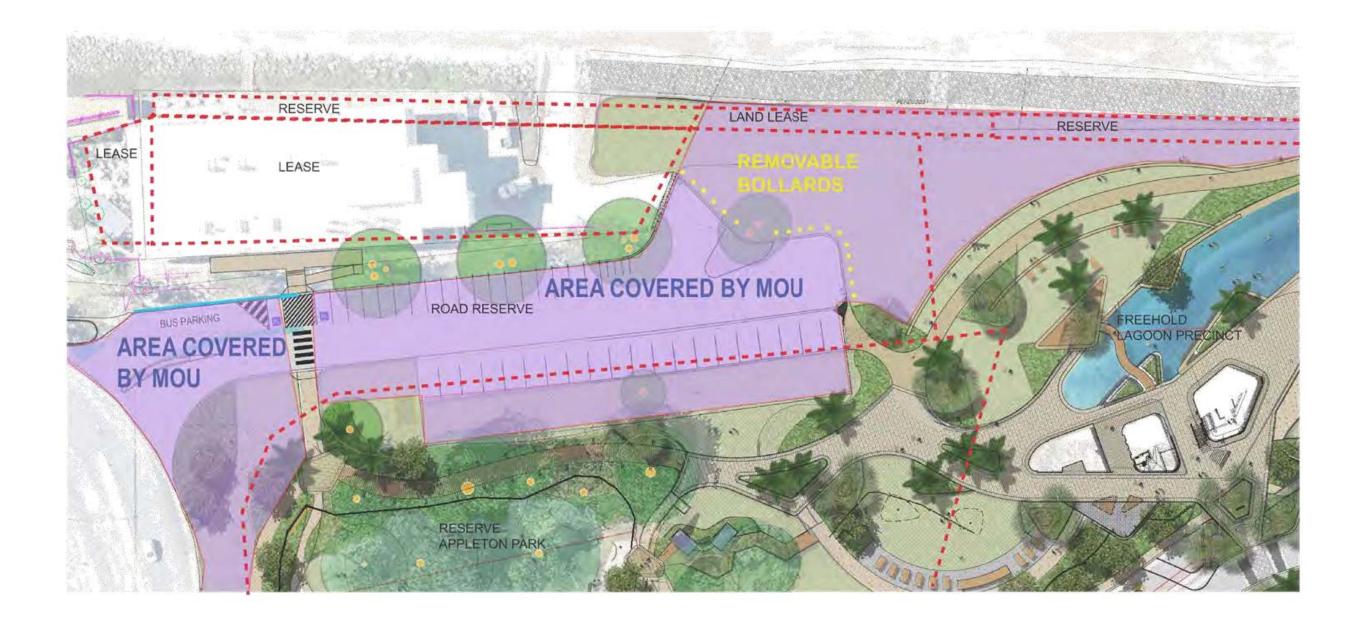
12.5 - YEPPOON LAGOON - EXTRA ACTIVITIES POST OPENING

Area Subject to Memorandum of Understanding with Keppel Bay Sailing Club

Meeting Date: 16 October 2018

Attachment No: 3

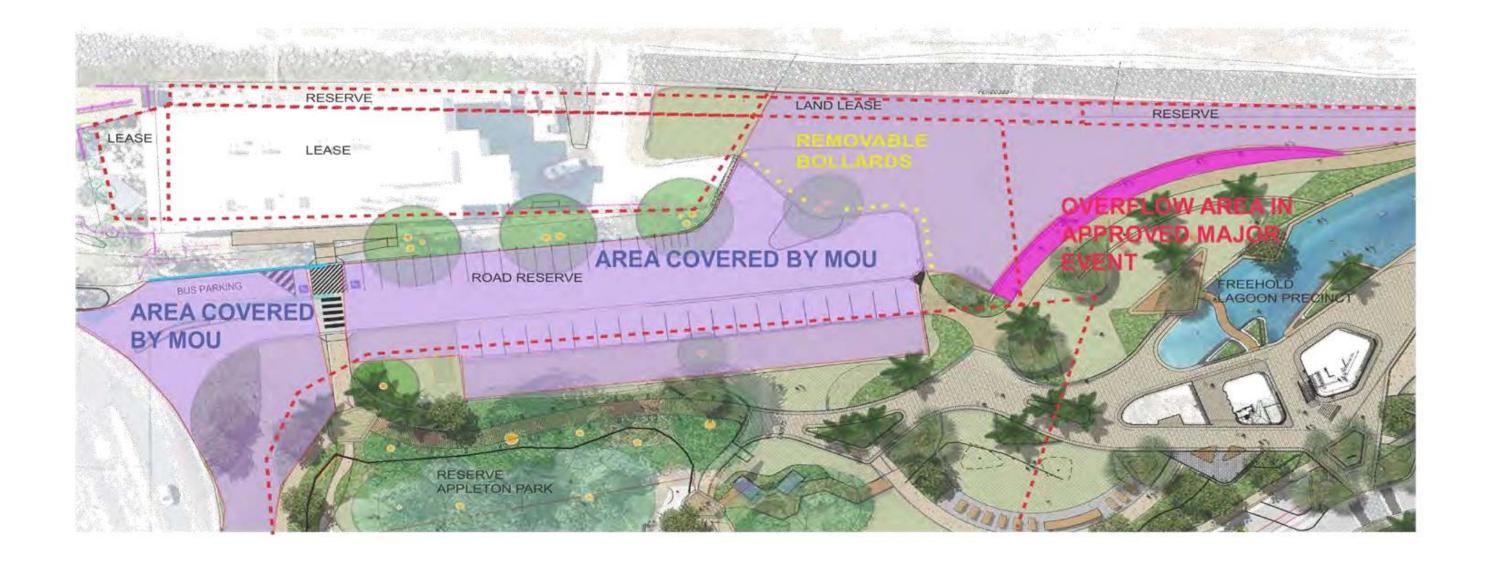
ATTACHMENT A: MOU SUBJECT AREA - SUNDAY SAILING DAYS



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ATTACHMENT B: MOU SUBJECT AREA - DESIGNATED MAJOR EVENTS



12.6 YEPPOON LAGOON PAID PARKING HOURS - COMMUNITY AND STAKEHOLDER ENGAGEMENT

File No: ED8.5.17

Attachments: 1. Paid Parking Hours of Operation Community

Engagement Feedback

2. Media Release: Community engagement to begin for paid parking implementation at

Yeppoon Lagoon

3. Yeppoon Lagoon Paid Parking Area Map.

Responsible Officer: Debra Howe - Director Strategic Growth & Development

Brett Bacon - Executive Director Liveability and

Wellbeing

Author: Sonia Barber - Senior Economic Development Officer

SUMMARY

Council has approved the inclusion of smart paid parking around the Yeppoon Lagoon. Key stakeholder and community engagement commenced in early September 2018 and concluded on 21 September 2018.

This report is to provide an update to Council on the outcomes of community engagement and consultation with key stakeholders regarding paid parking operating hours around the Yeppoon Lagoon on Lagoon Place and Anzac Parade.

This report also includes key stakeholder requests for changes to be made to the Yeppoon Lagoon car parking areas to accommodate the introduction of paid parking.

OFFICER'S RECOMMENDATION

THAT Council:

- 1. receive and consider the community feedback regarding the hours of operation of the paid parking around the Yeppoon Lagoon on Lagoon Place and Anzac Parade.
- 2. confirm the hours of operation for the paid parking around the Yeppoon Lagoon on Anzac Parade and Lagoon Place will be 8:30am to 5:00pm Monday to Sunday.
- 3. receive and consider the feedback received from key stakeholder consultation regarding the introduction of paid parking around the Yeppoon Lagoon
- 4. approve:
 - (a) further investigation into the potential installation of a removable boom-gate to be placed on Anzac Parade outside the Keppel Bay Sailing Clubhouse front car park for use during road closures for sailing Sundays and major sailing events:
 - (b) the provision of two additional disabled car parks on Anzac Parade at the front of the Keppel Bay Sailing Clubhouse; and
 - (c) the allocation of two bays on Lagoon Place close to the entrance of the Yeppoon Lagoon, as a fifteen (15) minute drop off and pick up zones.

BACKGROUND

Options to include smart paid parking around the Yeppoon Lagoon have been investigated for incorporation in the Yeppoon Town Centre Lighting Project. The inclusion of smart paid parking around the Yeppoon Lagoon is a variation to the State Government funding of

\$297,000 from the Local Government Grants and Subsidies programme for the Yeppoon Town Centre Smart Lighting Project. This is in addition to the one hour regulated smart parking in the town centre (approximately 200 parking spaces), as was funded originally.

There are a total of eighty-two (82) paid parking spots in and around the Yeppoon Lagoon on Lagoon Place and Anzac Parade.

The media release, refer Attachment Two, and the Yeppoon Lagoon paid parking area map, refer Attachment Three, are included for information.

COMMENTARY

The tender for the Yeppoon Town Centre and Yeppoon Lagoon Smart Parking project was released on 15 September 2018 and closed on 10 October 2018.

In September 2018, Council approved community engagement be undertaken regarding the proposed operating hours for paid parking on Lagoon Place and Anzac Parade around Yeppoon Lagoon between the hours of 8.30am to 5.00pm Monday to Sunday.

Council also requested relevant Officers engage with the key stakeholders operating around the perimeters of the Yeppoon Lagoon, being Keppel Bay Sailing Club and The Rocks Cafe, in relation to impacts from paid parking to them specifically. This report provides feedback to Council regarding the outcomes from the paid parking community engagement process and key stakeholder consultation outcomes.

Key Stakeholder consultation

Keppel Bay Sailing Club

Officers met with the Commodore and General Manager of Keppel Bay Sailing Club (the Club) who indicated the Club is generally satisfied with the introduction of paid parking in front of the Clubhouse in particular, as it will not be enforced during road closures of Anzac Parade due to sailing Sundays and major sailing events, as agreed under the Memorandum of Understanding between Council and Keppel Bay Sailing Club.

The Club also advised of experiencing major problems with overflow parking during weekends, public holidays and particularly during sailing events due to the volume of patrons at the Yeppoon Lagoon. The Club is having to engage staff to monitor parking in the Spinnaker car park during peak times and is considering engaging staff to monitor parking at the front of the Clubhouse during sailing events due to the number of vehicles ignoring the road closure signage on Anzac Parade.

The Club is considering the installation of a boom-gate at the entrance to the Spinnaker car park and requested Council consider the installation of a removable boom-gate to be placed at the Clubhouse front car park on Anzac Parade for use during sailing Sundays and major sailing events or when Council closes the car park for other events.

The Club also requested that consideration be given to the provision of two additional disabled car parks close to the Clubhouse considering that many of their members require close access to the premises because of their age and disabilities, which includes a lot of visiting grey nomads in high season.

The Rocks Café

The Rocks Café understood the need for, and was generally satisfied with, the introduction of paid parking around the Yeppoon Lagoon on Lagoon Place. The main concern raised is that a large percentage of kiosk customers in the early mornings are "tradies", who drop in quickly to pick up a coffee and breakfast between 6am and 10.30am that they and others are pre-ordering on The Rocks Café APP.

The Rocks Café has requested that Council consider allocating two bays close to the entrance of the Yeppoon Lagoon as fifteen (15) minute drop off and pick up zones to offset the timing of when paid parking commences each day. The Real Group did not suggest these be dedicated to The Rocks Café but rather as a value add to all lagoon users who could use the park to drop off and pick up passengers.

Community Engagement Feedback - Get Involved

Community engagement regarding the operating hours of paid parking around the Yeppoon Lagoon commenced on 7 September 2018 and closed on 21 September 2018 using Council's online Get Involved program. There were 224 participants who viewed the page and sixty (60) who participated in the survey. The feedback collated and contained in the report, refer Attachment One, determined that:

- 1) 44.3 per cent Agreed with the proposed hours for paid parking, 55.7 per cent did not, and
- 2) Of those who did not agree with the proposed hours of paid parking 66.7 per cent of the thirty-eight (38) participants who responded determined the hours should be shorter.

It is worth noting the hours of 8.30am – 5pm for the paid parking around the Yeppoon Lagoon was chosen to be consistent with the one hour regulated smart parking hours being introduced into the town centre, and therefore aimed at avoiding confusion.

In addition, there were five individual emails received regarding feedback on paid parking around the Yeppoon Lagoon these emails were included in the report to the advisory committee on 3 October 2018 but are not included in this report due to privacy considerations.

PREVIOUS DECISIONS

At its Ordinary Meeting of 7 August 2018 Council resolved to implement paid parking on Lagoon Place and Anzac Parade around the Yeppoon Lagoon (excluding disabled bays), to be funded from the Yeppoon Town Centre Smart Lighting Project and, that community consultation with key stakeholders occurs around the parameters of the proposed paid parking, once the details have been fully documented.

At the Ordinary Council meeting of 4 September 2018 Council resolved to undertake a process of community engagement regarding the proposed operating hours for paid parking on Lagoon Place and Anzac Parade around Yeppoon Lagoon. Specifically, that Officers engage with key stakeholders operating around the perimeters of the Yeppoon Lagoon in relation to impacts to them. Council approved paid parking charges of \$2 per hour (inclusive of GST) during operating hours and that the 2018-19 fees and charges be amended to include this new charge. Council acknowledges that the commencement of paid parking will be dependent on the timeframe of the required amendment to the local law and the procurement process for the Yeppoon Town Centre Smart Lighting Project.

At its Ordinary meeting of the 4 September 2018 Council resolved to review draft amendments to *Subordinate Local Law No 5 (Parking) 2018*; and resolved to propose to make parking (Amendment No.2) *Subordinate Local Law (No. 5) 2018* to allow for the implementation of paid parking around the Yeppoon Lagoon.

At the meeting on 2 October 2018 Council's Advisory Committee for Planning, Finance, Innovation and Business Excellence Councillors supported the recommendation regarding two additional disabled car parks on Anzac Parade at the front of the Keppel Bay Sailing Club and the allocation of two bays on Lagoon Place close to the entrance of the Yeppoon Lagoon, as a fifteen (15) minute drop off and pick up zones.

In principle support was given to exploring further options regarding the installation of a boom gate on Anzac Parade at the entrance of the Keppel Bay Sailing Club carpark and for the proposed paid parking hours of 8.30am – 5pm to be resolved at a subsequent Ordinary Meeting.

BUDGET IMPLICATIONS

Capital Costs

The capital costs for the project will be funded from the Yeppoon Town Centre Smart Lighting Project in the 18/19 adopted budget

Operational Costs

Further analysis of the ongoing paid parking operational costs will be undertaken once the Yeppoon Town Centre Smart Lighting Project Invitation for Tender and Request for Quote responses have been assessed.

Operational costs can then be budgeted for, acknowledging these costs will be offset by paid parking and infringement revenue.

Local laws enforcement costs

In addition to current parking controls, the introduction of regulated parking regimes including response to overstays within the newly designated traffic area and the Yeppoon Lagoon area could initially require the addition of one fulltime Local Laws Officer and half a fulltime Administrator. This is to facilitate infringement work flows and State Penalties Enforcement Registry related functions.

The current practice is to utilise the local law on-call Officer for weekend patrols with variable operating hours.

Paid parking signage costs

Legislative signage required to introduce paid parking is estimated at approximately \$18,000. This amount will be refined at design stage and will need to be accounted for as part of a 2018-19 quarterly budget review.

LEGISLATIVE CONTEXT

A local government may, under a local law, define any part of its area to be controlled by regulated parking. This area must be authorised, defined and signed before any form of regulated parking whether it is by parking meters, park at areas or time limits, can be established.

The introduction of paid parking around the Yeppoon Lagoon requires a local law amendment; this was approved at the Ordinary Meeting of Council on 4 September 2018 and the process to implement this change has commenced.

LEGAL IMPLICATIONS

There are no legal implications associated with the consideration of this matter.

STAFFING IMPLICATIONS

The delivery of the Yeppoon Town Centre Smart Precinct and Yeppoon Town Centre Smart Lighting projects are the core work of the Economy and Places team, with the tender and quote process supported by Procurement.

Project management and information systems will also be a key requirement of the projects once they commence. Infrastructure Projects are providing a Project Manager for the projects and Information Services will support the management of information systems.

In addition to current parking controls the introduction of regulated parking regimes, including response to overstays within the newly designated traffic area and the Yeppoon Lagoon area could initially require the addition of one fulltime local laws officer and a half fulltime local law administrator to facilitate infringement work flows and State Penalties Enforcement Registry related functions and an additional vehicle.

RISK ASSESSMENT

The principal risks associated with the delivery of the Yeppoon Town Centre Smart Precinct and Yeppoon Town Centre Smart Lighting projects are:

- 1) project costs will not be fully known until responses to tenders and requests for quote are received and assessed;
- 2) the potential for negative key stakeholder, community and visitor reaction to the inclusion of paid parking around the Yeppoon Lagoon;

- 3) resourcing costs for enforcement of infringements are high, in particular peak usage periods such as weekends; and
- 4) project management costs to deliver the project may deplete the funds available for deliverables.

CORPORATE/OPERATIONAL PLAN

Strategy AM3 of Council's Corporate Plan states: 'Design and implement practical infrastructure solutions.'

LOCAL GOVERNMENT PRINCIPLES

The local government principles are –

- (a) Transparent and effective processes, and decision-making in the public interest; and
- (b) Sustainable development and management of assets and infrastructure, and delivery of effective services: and
- (c) Democratic representation, social inclusion and meaningful community engagement; and
- (d) Good governance of, and by, local government; and
- (e) Ethical and legal behaviour of councillors and local government employees.

CONCLUSION

Council has approved the inclusion of smart paid parking around the Yeppoon Lagoon on Lagoon Place and Anzac Parade. Key stakeholder and community engagement commenced in early September 2018 and concluded on 21 September 2018.

This report provides an update to Council on the outcomes of community engagement regarding paid parking operating hours around the Yeppoon Lagoon and seeks Council's consideration of the key stakeholder requests and confirmation of the hours for the paid parking around Yeppoon Lagoon on Lagoon Place and Anzac Parade.

12.6 - YEPPOON LAGOON PAID PARKING HOURS - COMMUNITY AND STAKEHOLDER ENGAGEMENT

Paid Parking Hours of Operation Community Engagement Feedback

Meeting Date: 16 October 2018

Attachment No: 1





Aware Participants	224	Engaged Participants	60		
Aware Actions Performed	Participants	Engaged Actions Performed	Decistered	Unvertied	Asonymous
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Informed Participants	145	Contributed on Forums	.0	9	0,0
Informed Actions Performed	Participants	Participated in Surveys	60	0	0
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Visited the Key Dates page	ō	Contributed to Stories	00	9.5	(0)
Visited an FAQ list Page	-44	Asked Quasilone	6	0	0
Visited Instagram Page	ŏ	Placed Pinz on Places	90	0	0.
Visited Multiple Project Pages	85	Consociated to local	0	0	0
Contributed to a tool (engaged)	60				

Get Invalved Livingstone Shire: Summary Report for 20 August 2018 to 23 September 2018.

ENGAGEMENT TOOLS SUMMARY



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Get Involved Livingstone Shire: Summary Funct for 20 August 2018 to 23 September 2018

INFORMATION WIDGET SUMMARY



Wisiget Type	Engagement Tool Name	Visitoris	Views/Drienloads
Flaces	trojs.	84	50
Photo	Yeppoon Legoon Paid Parking Map	23	27
Photo	Padking Lispoon Keppell Bay Staling Club	.00	15
Photo	Parking Lagoon The Rocks	36	12

Page 3 of 5

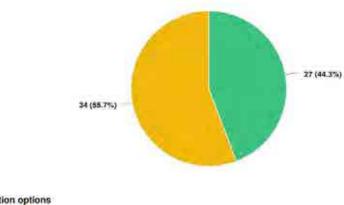
Get Involved Livingstone Shire: Summerly Proport for 20 August 2018 to 23 September 2018

ENGAGEMENT TOOL: SURVEY TOOL

Hours of Operation of Paid Parking at the Yeppoon Lagoon Precinct

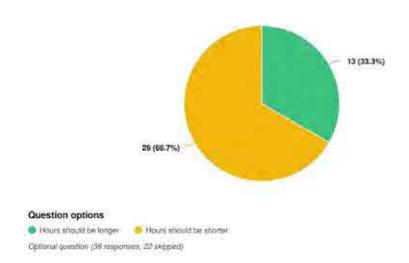


Do you agree with the proposed hours for paid parking?



Question options Yes No (60 responses, 0 skepped)

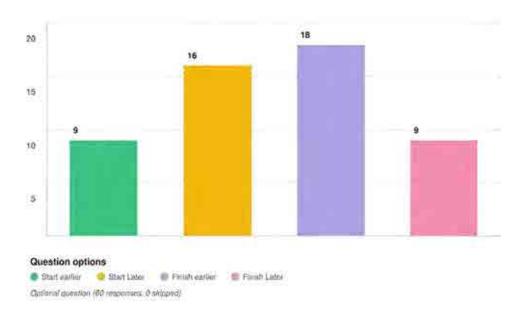
If you answered No above, please select from below options



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Get Involved Livingstone Shire: Summary Fisport Inr29 August 2018 to 23 September 2018





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12.6 - YEPPOON LAGOON PAID PARKING HOURS - COMMUNITY AND STAKEHOLDER ENGAGEMENT

Media Release: Community engagement to begin for paid parking implementation at Yeppoon Lagoon

Meeting Date: 16 October 2018

Attachment No: 2



7 September, 2018

Community Engagement to begin for Paid Parking implementation at Yeppoon Lagoon precinct

Council is asking for community feedback around the proposed hours of operation for paid parking at the Yeppoon Lagoon precinct which is due to be implemented early next year.

When implemented, the community will be given the option of accessing more than 500 free car parks within a two to five minute walk of the Yeppoon Foreshore and Lagoon Precinct, or paying a small premium to access the 82 parking spaces immediately adjacent to the Yeppoon Lagoon.

Mayor Ludwig said the proposed introduction of paid parking in the limited area immediately adjacent to the Yeppoon Lagoon precinct aligns with the overall strategy for parking in Yeppoon's Town Centre and greater foreshore area.

The parking strategy also includes the introduction of a number of regulated timed parking zones. The aim of the parking strategy is to facilitate more regular turnover of carpark spaces to provide fairer and more equitable access to convenient parking for customers of local businesses and visitors to our foreshore attractions.

"The adopted regulated free parking zones and times were set in consultation with local businesses and stakeholders. The parking time limits set range from 1 hour to 3 hours and operate primarily between 8.30am to 5pm Monday to Friday and 8.30am to 12pm on Saturdays.

"This will ensure that everyone, including the local community and visitors, have convenient parking opportunities to shop and enjoy our newly revitalised foreshore and town centre. The proposed hours of operation for the paid parking around the Yeppoon Lagoon are 8.30am to 5pm Monday to Sunday to align closely with times in the other regulated parking zone.

"Council would like to acknowledge the Queensland Government's fantastic support in providing \$297,000 for the installation smart lighting, public Wi-Fi and the implementation of smart parking services" Mayor Ludwig said.

Community engagement around the proposed hours of operation will commence today using Council's online Get Involved program https://getinvolved.livingstone.gld.gov.au/

(Ends)

For interviews, please contact Mayor Bill Ludwig on 0428 791 792



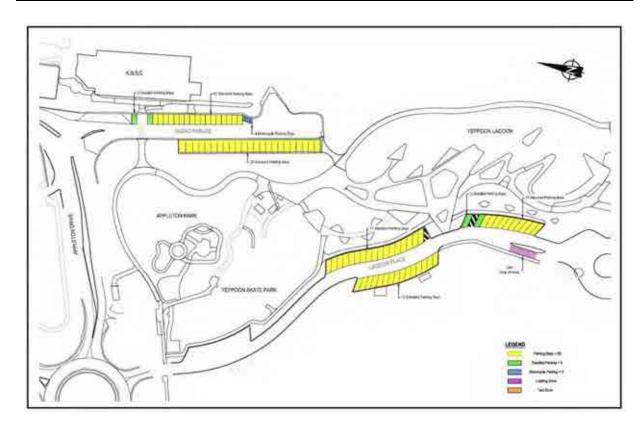
Media Enquines to 07 4913 3608 or 0449 852 057 | ABN 95 399 253 048 communications@livingstone.qld.gov.au | www.livingstone.qld.gov.au

12.6 - YEPPOON LAGOON PAID PARKING HOURS - COMMUNITY AND STAKEHOLDER ENGAGEMENT

Yeppoon Lagoon Paid Parking Area Map

Meeting Date: 16 October 2018

Attachment No: 3



12.7 RESPONSE TO QUESTIONS ON NOTICE - KINKA BEACH SEWERAGE AND WATER

File No: SD29.9.1

Attachments: 1. Questions On Notice U

Responsible Officer: Dan Toon - Executive Director Infrastructure Services

Author: Michael Prior - Manager Infrastructure Operations

SUMMARY

This report provides a response to Questions on Notice which Councillor Glenda Mather tendered to the Council meeting on 2 October 2018.

RECOMMENDATION

THAT this report be received as an appropriate response to the Questions On Notice relating to water supply and sewerage for the Kinka Beach area.

BACKGROUND

At Council's Ordinary Meeting on 2 October 2018, Councillor Mather presented two Questions on Notice in relation to water and sewer infrastructure for the Kinka Beach area as follows:

'Would you please ask Infrastructure to provide the estimated timelines for the following services:

- a) to commence the water and sewer infrastructure to the Kinka area where these services currently do not exist; and
- b) when these services are expected to be operational."

COMMENTARY

The following provides a response to Councillor Mather's questions:

Water Supply

In terms of Council reticulated water supply to the Kinka Beach area, all lots zoned residential in the 2018 Planning Scheme are currently provided with, or are capable of being provided with, a standard water service. There are no current plans to extend reticulated water supply beyond the existing water service area. One resident outside the existing water service area has been offered, but declined, a Special Water Supply Arrangement.

<u>Sewerage</u>

Providing sewerage reticulation to Kinka Beach is more problematic. Unfortunately, there are at least five different areas of Kinka Beach that have different design limitations. The number of sewage pump stations required to service the Kinka area will be high as a consequence of the flat terrain (coastal dune and wetlands). Staged delivery of any proposal for sewerage in this area will face significant issues related to scope creep as there is likely to be pressure to provide the service to all parts of the community at the same time. To sewer the entire Kinka Beach area could cost in the order of \$20M.

For the Kinka 'triangle' alone (existing residential area of Coolwaters Esplanade, Scenic Highway to Sunbird Park), the estimated cost for sewerage is \$4.2M (\$30,000 per property) if Council proceeded independent of other developments.

Planning Reports for Kinka Beach Sewerage have previously been prepared and the first two stages of the planned sewerage scheme have been delivered. These delivered stages were development driven. Stage 1 was a pump station on Kinka Beach Road and associated rising main to west Emu Park, while Stage 2 was a 450mm diameter trunk main from Kinka Beach Road north to Island View Caravan Park. Stages 3 and 4 were planned to be delivered by development of caravan parks on the relevant lots – Lot 234 SP164795 and Lot 16 RP603904 (previously Lot 2 RP603904).

Delivery of Stage 4 by the developer could be the catalyst to again investigate provision of sewerage service to the Kinka 'triangle', despite the estimated \$20,000 per property cost for reticulation and trunk sewer mains.

The Kinka Beach Sewerage Planning Reports date back to 2004 and would need review ahead of any serious plan to sewer the greater part of the Kinka Beach area.

There are currently no Water Supply PFTI proposed within the locality of Kinka Beach for the planning horizon in the LGIP.

There are currently four Sewerage PFTI proposed within the locality of Kinka Beach for the planning horizon in the LGIP. These projects are two sewage pump stations and two sewage rising mains. The earliest of these is near the Island View Caravan Park with an estimated year of completion of 2026. The other pump station and rising main is proposed for the northern end of Azalea Street near Sunbird Park in 2031.

Delivery of these PFTI would be a prerequisite for construction of sewerage reticulation mains in their relevant precincts.

PREVIOUS DECISIONS

Council's adoption of the LGIP signals an intention to plan for and ultimately provide trunk sewerage infrastructure in the Kinka Beach area.

BUDGET IMPLICATIONS

There would be significant budget implications at the point when Council determines to proceed with sewering the Kinka Beach area.

LEGISLATIVE CONTEXT

Council has authority under the Water Supply Safety and Reliability Act to provide and charge for water and sewerage services.

LEGAL IMPLICATIONS

N/A

STAFFING IMPLICATIONS

Due to the magnitude of the project, it is likely that the planning and design for sewerage for the Kinka Beach area would need to be out-sourced.

RISK ASSESSMENT

There is a risk that already approved developments in the Kinka Beach area may not proceed ahead of the time when Council considers providing sewerage to this area. This would necessitate Council funding the necessary trunk and reticulation components.

CORPORATE/OPERATIONAL PLAN

Corporate Plan Reference: Strategy AM3: Design and implement practical infrastructure

solutions.

LOCAL GOVERNMENT PRINCIPLES

The local government principles are -

- (a) Transparent and effective processes, and decision-making in the public interest; and
- (b) Sustainable development and management of assets and infrastructure, and delivery of effective services; and
- (c) Democratic representation, social inclusion and meaningful community engagement; and

- (d) Good governance of, and by, local government; and
- (e) Ethical and legal behaviour of councillors and local government employees.

CONCLUSION

At Council's Ordinary Meeting of 2 October 2018, Councillor Mather presented Council with two Questions on Notice in relation to water and sewer infrastructure for the Kinka Beach. This report provides a response to those questions.

12.7 - RESPONSE TO QUESTIONS ON NOTICE - KINKA BEACH SEWERAGE AND WATER

Questions On Notice

Meeting Date: 16 October 2018

Attachment No: 1

PO Box 5186 Red Hill PO Rockhampton Q 4701 24 September 2018

Chief Executive Officer Livingstone Shire Council Yeppoon Q 4703

Question on Notice Water and Sewer Infrastructure Kinka

Dear Madam CEO,

Would you please ask Infrastructure to provide the estimated time lines for the following services:

- a) to commence the water and sewer infrastructure to the Kinka area where these services currently do not exist, and
- b) when these services are expected to be operational.

Background:

There have been a number of residents in this area who are keen to have these services available, and have been waiting patiently.

Despite the high water table in this area and associated drainage issues in parts, the prolonged dry weather is taxing the underground table, and the ability to tend their gardens. In a septic-dominated area, it is desirable to ensure these services are progressed at the earliest.

Many thanks, Glenda Mather Clr

13 QUESTIONS/STATEMENT/MOTIONS ON NOTICE FROM COUNCILLORS

Nil

14 CLOSED SESSION

In accordance with the provisions of section 275 of the *Local Government Regulation 2012*, a local government may resolve to close a meeting to the public to discuss confidential items, such that its Councillors or members consider it necessary to close the meeting.

RECOMMENDATION

THAT the meeting be closed to the public to discuss the following items, which are considered confidential in accordance with section 275 of the *Local Government Regulation* 2012, for the reasons indicated.

15.1 ARaBIC External Member Remuneration

This report is considered confidential in accordance with section 275(1)(e), of the *Local Government Regulation 2012*, as it contains information relating to contracts proposed to be made by it.

- 15.2 Potential Sale of Lots 2 and 3 The Gateway Business and Industry Park
 - This report is considered confidential in accordance with section 275(1)(h), of the *Local Government Regulation 2012*, as it contains information relating to other business for which a public discussion would be likely to prejudice the interests of the local government or someone else, or enable a person to gain a financial advantage.
- 15.3 Potential Sale of Lots 2 and 3 The Gateway Business and Industry Park

 This report is considered confidential in accordance with section 275(1)(h), of the Local Government Regulation 2012, as it contains information relating to other business for which a public discussion would be likely to prejudice the interests of the local government or someone else, or enable a person to gain a financial advantage.

15.4 NEGOTIATION OF TENANCY - CENTRE OF EXCELLENCE FOR DISASTER MANAGEMENT, INNOVATION AND COMMUNITY RESILIENCE (THE HUB)

This report is considered confidential in accordance with section 275(1)(e), of the *Local Government Regulation 2012*, as it contains information relating to contracts proposed to be made by it.

15 CONFIDENTIAL REPORTS

15.1 ARABIC EXTERNAL MEMBER REMUNERATION

File No: CM4.2.1

Attachments: 1. 2018 Benchmark on Member Fees

Responsible Officer: Chris Murdoch - Chief Executive Officer

Author: Scott Williams - Internal Auditor

This report is considered confidential in accordance with section 275(1)(e), of the *Local Government Regulation 2012*, as it contains information relating to contracts proposed to be made by it.

SUMMARY

The report outlines the history of remuneration of members of the Audit, Risk and Business Improvement Committee (ARaBIC) and suggests a potential change to that remuneration.

15.2 POTENTIAL SALE OF LOTS 2 AND 3 - THE GATEWAY BUSINESS AND INDUSTRY PARK

File No: ED.8.5.5

Attachments: 1. The Gateway Business and Industry Park

Stage 1 and 2 Layout

Responsible Officer: Brett Bacon - Executive Director Liveability and

Wellbeing

Author: Debra Howe - Director Strategic Growth & Development

Elle Wallin - Project Support Officer

Previous Items: 15.1 - Potential Sale of Lots 2 and 3 - The Gateway

Business and Industry Park - Ordinary Council - 01 May

2018 9:00am

This report is considered confidential in accordance with section 275(1)(h), of the *Local Government Regulation 2012*, as it contains information relating to other business for which a public discussion would be likely to prejudice the interests of the local government or someone else, or enable a person to gain a financial advantage.

SUMMARY

A local business has expressed interest in two lots within Stage One of The Gateway Business and Industry Park.

15.3 POTENTIAL SALE OF LOTS 2 AND 3 - THE GATEWAY BUSINESS AND INDUSTRY PARK

File No: ED.8.5.5

Attachments: 1. The Gateway Business and Industry Park

Stage 1 and 2 Layout

2. ASIC Organisation Extract - Hidden Valley

Harvest (Facility)

Responsible Officer: Brett Bacon - Executive Director Liveability and

Wellbeing

Author: Debra Howe - Director Strategic Growth & Development

Previous Items: 15.1 - Potential Sale of Lots 2 and 3 - The Gateway

Business and Industry Park - Ordinary Council - 01 May

2018 9:00am

This report is considered confidential in accordance with section 275(1)(h), of the *Local Government Regulation 2012*, as it contains information relating to other business for which a public discussion would be likely to prejudice the interests of the local government or someone else, or enable a person to gain a financial advantage.

SUMMARY

A local business has expressed interest in purchasing two lots within Stage One of The Gateway Business and Industry Park.

A report on this matter was presented to the Ordinary Meeting on 18 September 2018 and was laid on the table pending further discussion, when all Councillors are present. Since then the interested purchaser has contacted Council to request consideration of two matters in relation to the potential sale, which are outlined in this report.

This report seeks reconfirmation from Council of its previous decision on 1 May 2018 to sell Lots 2 and 3, known as 3 and 5 Pineapple Drive, Hidden Valley, in The Gateway Business and Industry Park and the outcomes from deliberations on the requests from the purchaser.

15.4 NEGOTIATION OF TENANCY - CENTRE OF EXCELLENCE FOR DISASTER MANAGEMENT, INNOVATION AND COMMUNITY RESILIENCE (THE HUB)

File No: ED8.5.8

Attachments: Nil

Responsible Officer: Brett Bacon - Executive Director Liveability and

Wellbeing

Author: Debra Howe - Director Strategic Growth & Development

Mark McLean - Principal Property Officer

This report is considered confidential in accordance with section 275(1)(e), of the *Local Government Regulation 2012*, as it contains information relating to contracts proposed to be made by it.

SUMMARY

The purpose of this report is to provide information in relation to interest from the State Government seeking to locate within the Centre of Excellence for Disaster Management, Innovation and Community Resilience (The Hub).

16 URGENT BUSINESS/QUESTIONS

Urgent Business is a provision in the Agenda for members to raise questions or matters of a genuinely urgent or emergent nature, that are not a change to Council Policy and can not be delayed until the next scheduled Council or Committee Meeting

17 CLOSURE OF MEETING