

**ACTIONS ON FLOODS COMMISSION FINAL REPORT RECOMMENDATIONS - APPENDIX B**

Ref Number	Theme	Report Recommendation	Council Service Unit Key: Primary Interest <i>Secondary Interest</i>	Priority	Complexity	Budget Implication	Actions	Anticipated Completion	Status	Risk Rating prior to Action	Risk Rating after Action
2.4	Flood Modelling / Studies	A recent flood study should be available for use in floodplain management for every urban area in Queensland. Where no recent study exists, one should be initiated.	Infrastructure Policy - Flood & Stormwater Management	1	H	Additional Funding Required Order of \$0.8M requested in future budget submissions.	Much of the SCC has flood study coverage. Gaps and currency are to be addressed. A Schedule for revision of SCC flood models has been developed. This needs to be implemented in a manner commensurate with budget available.	As per F&SWM Schedule to 2015 then ongoing	Ongoing Requirement	M-36 increasing risk annually	L24
2.5	Flood Modelling / Studies	The Queensland Government, in consultation with councils, should determine which urban areas in Queensland do not have access to flood information from a current flood study. The Queensland Government should rank those areas in order of priority in accordance with their need for updated flood information by reference to factors including: a. population; b. sophistication of land use planning and emergency management measures already in place in those areas; c. currency of any flood risk information available to the council; d. approximate frequency of damaging floods in the area according to the historical record.	Infrastructure Policy - Flood & Stormwater Management	N/A	N/A	Ref to 2.4	All Urban Areas have flood study information for Riverine and where appropriate Storm Tide flooding. Refer to action for item 2.4 to address issue of currency.	Complete	Complete	N/A	N/A
2.6	Flood Modelling / Studies Funding	By reference to the order of priority determined in accordance with recommendation 2.5, the Queensland Government and councils should together ensure that the council responsible for each urban area in Queensland has access to current flood study information. This will include determining: a. a process or processes by which the flood studies will be completed, including the involvement of the Queensland Government and relevant councils; b. how, and from whom, the necessary technical and financial resources will be obtained; c. a reasonable timeframe by which all flood studies required will be completed.	Infrastructure Policy - Flood & Stormwater Management	3	L	Within Current Budget	Meet with State Government to primarily understand the funding options that the state may make available to Local Governments to keep flood risk information current.	TBA	Not Yet Commenced	M-36	L24
2.7	Flood Mapping	As far as is practicable, councils should maintain up-to-date flood information.	Infrastructure Policy - Flood & Stormwater Management	2	M	Ref to 2.4	A prioritised schedule of flood model revision has been prepared, with a view to ensuring that flood information is current and aligned with best practice. Links to item 2.4.	Ongoing	Ongoing Requirement	M-36 increasing risk annually	L24
2.8	Flood Modelling / Studies	When commissioning a flood study, the body conducting the study should: • check whether others, such as surrounding councils which are not involved in the study, dam operators, the Department of Environment and Resource Management, and the Bureau of Meteorology, are doing work that may assist the flood study or whether any significant scientific developments are expected in the near future, and decide whether to delay the study • discuss the scope of work with the persons to perform the flood study as well as surrounding councils which are not involved in the study, dam operators, the Department of Environment and Resource Management, and the Bureau of Meteorology.	Infrastructure Policy - Flood & Stormwater Management	2	L	N/A	When Commissioning future flood studies liaise with appropriate State Government Agencies, the Bureau of Meteorology and adjacent councils where relevant.	Ongoing	Ongoing Requirement	L24	L20
2.9	Flood Modelling / Studies	Elected representatives from councils should be informed of the results of each flood study relevant to the council's region, and consider the ramifications of the study for land planning and emergency management.	Infrastructure Policy - Flood & Stormwater Management	2	M	Within Current Budget	Undertake an audit of flood studies. Declare flood studies that are not considered current and document possible issues for landuse planning and emergency preparedness. Summarise these issues in a report to Councillors	End of Dec 2012	Work in Progress	L24	L8
2.10	Flood Modelling / Studies	Elected representatives from all agencies involved in a flood study should be informed of recommendations made for future work, and determine, on a risk basis, whether that further work is to be completed.	Infrastructure Policy - Flood & Stormwater Management	2	L	Within Current Budget	As per action identified for item 2.9	End of Dec 2012	Work in Progress	L24	L8

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2.12	Flood Modelling / Studies	Councils in floodplain areas should, resources allowing, develop comprehensive floodplain management plans that accord as closely as practicable with best practice principles.	Infrastructure Policy - Flood & Stormwater Management	1	H	Additional Funding Required (likely to be in the order of \$0.5M per catchment, variable based on complexity)	Council has historically undertaken flood studies. Flood Plain Management Plans leverage off flood studies to plan how the flood plain should be used or improved. ie flood mitigation. This task would follow items 2.9 and 2.10. Council should broadly plan to undertake a flood plain management plan for each of the major coastal flood plains, Maroochy, Mooloolah and Noosa, once the currency of flood models is established.	Jul-2016	Not Yet Commenced	M-36	L24
2.13	Flood Mapping	For urban areas or areas where development is expected to occur: a. councils with the requisite resources should develop a flood map which shows 'zones of risk' (at least three) derived from information about the likelihood and behaviour of flooding; b. councils without the requisite resources to produce a flood behaviour map should develop a flood map which shows the extent of floods of a range of likelihoods (at least three).	Infrastructure Policy - Flood & Stormwater Management	1	H	Within Current Budget  \$200K provided in 2012/13FY Budget	Liaise with other Councils with the 'requisite resources' to confirm their interest in developing a standardised 'best practise' approach. Leverage off of the existing work done by the QRA. Seek direction from the state or other industry bodies. As a minimum prepare Hazard Maps for different flood likelihoods as per the CSIRO SCARM Hazard Methodology for zones of low, medium, high and extreme hazards.	Initial Disaster Management Maps Sept 2012  Hazard Maps Sept 2013	Work in Progress	M-40	L24
2.14	Flood Mapping	For non-urban areas or areas where limited development is expected to occur councils should consider, on a risk basis, what level of information about flood risk is required for the area, and undertake the highest ranked of the following options which is appropriate to that need and within the capacities (financial and technical) of the council: a. a map showing 'zones of risk' (at least three) derived from information about the likelihood and behaviour of flooding; b. a map showing the extent of floods of a range of likelihoods (at least three); c. a flood map based on historic flood levels that have been subjected to a flood frequency analysis to estimate the annual exceedance probability of the selected historical flood; d. a historic flood map without flood frequency analysis; e. the Queensland Reconstruction Authority Interim Floodplain Assessment Overlay as a way to determine those areas for which further flood studies are required; or f. the Queensland Reconstruction Authority Interim Floodplain Assessment Overlay (preferably refined using local flood information) as a trigger for deve	Infrastructure Policy - Flood & Stormwater Management	1	H	Ref to 2.13	Adopt the methodology of 2.13 and deliver as an outcome of the action for item 2.13	Initial Disaster Management Maps Sept 2012  Hazard Maps Sept 2013	Work in Progress	M-32	L24
2.15	Flood Mapping / Land Use Planning	Councils should ensure that areas for which there has been no assessment of the likelihood of flooding are indicated on a map and that, as part of the development assessment process for these, there is at least some enquiry into whether a site proposed for development could be subject to flooding.	Infrastructure Policy - Flood & Stormwater Management; <i>Planning Assessment;</i> <i>Engineering &amp; Environmental Assessment</i>	2	L	Within Current Budget	Identify and update mapping. Linked to items 5.2 and 5.3	End of Dec 2012	Work in Progress	M-40	L24
2.16	Flood Mapping	Councils and the Queensland Government should display on their websites all flood mapping they have commissioned or adopted.	Infrastructure Policy - Flood & Stormwater Management with Council's webteam	3	H	Within Current Budget	Utilise the eBusiness project to leverage off the project objective for information provision to the community. Discern between the information that the community needs for decision making, ie emergency preparedness, and all other information. Information that is seen as critical (emergency preparedness) is already displayed on Councils MyMaps Website. Information that is provided publicly via the website will need to be reviewed upon finalisation of the new planning scheme to ensure compatability, particularly in relation to Climate Change and Flood Risk.	TBA	Not Yet Commenced	L24	L20
2.17	Flood Mapping	Flood maps, and property specific flooding information intended for use by the general public, should be readily interpretable and should, where necessary, be accompanied by a comprehensible explanatory note.	Infrastructure Policy - Flood & Stormwater Management; <i>Development Business Services</i>	N/A	L	N/A	Already provided through the MyMaps website and Flood Search Certificates.	Complete	Complete	N/A	N/A
2.18	Flood Mapping / DA Information	Councils that do not currently do so should consider offering an online database which allows the public to conduct a search on a parcel of land to find development approvals relevant to that parcel of land.	Development Business Services	N/A	N/A	N/A	Council provides this service already through PD Online	N/A	Complete	N/A	N/A

Priority: High (H), Medium (M), Low (L)  
Complexity: Complex (C), Moderate (M), Simple (S)  
N/A - not applicable; TBA - to be advised

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4.1	Flood Planning Controls	The Queensland Government should: a. narrow the definition of 'development commitment' in State Planning Policy 1/03: Mitigating the Adverse Impacts of Flood, Bushfire and Landslide to ensure more development applications are assessed for compatibility with flood, and b. investigate whether the compensation provisions of the Sustainable Planning Act 2009 act as a deterrent to the inclusion of flood controls in a planning scheme and consider whether they ought be amended.	Strategic Land Use Planning; <i>Development Services</i>	N/A	N/A	N/A	State Government has committed to undertaking all items required of the State. Of interest to Council in terms of implications for the new planning scheme and possible future amendments.	N/A	State responsibility or of interest only	N/A	N/A
4.5	Flood Planning Controls	The Queensland Government should change Temporary State Planning Policy 2/11: <i>Planning for stronger more resilient floodplains</i> to remove the possibility of councils' using the interim floodplain assessment overlay mapping and Model Code as part of a permanent amendment to their existing planning scheme or as part of a new planning scheme.	Strategic Land Use Planning; <i>Development Services</i>	1	L	Within Current Budget	Council has more accurate flood data (than the QRA material referenced for SPP 2/11) which it uses for planning purposes and it inform the preparation of the new planning scheme.	End Dec 2012	Work in Progress	L24	L8
4.6	Land Use Planning	Councils should consider using the limited development (constrained land) zone in their planning schemes for areas that have a very high flood risk.	New Planning Scheme;	1	L	Within Current Budget	This has been considered in the drafting of the new planning scheme	End Dec 2012	Work in Progress	L24	L8
5.1	Flood Planning Controls	The Queensland Government should draft model flood planning controls, using a similar format and structure to that in the Queensland Planning Provisions, that councils can adapt for local conditions. The Queensland Government should require these controls to be reflected in new planning schemes. This may be achieved by including the controls in either: • a state planning policy dealing with flood, with an accompanying amendment to the Sustainable Planning Act 2009, or • the Queensland Planning Provisions. The Queensland Government should consult councils to determine which of the two state planning instruments is the more appropriate to include the model flood planning controls.	New Planning Scheme; <i>Infrastructure Policy - Flood &amp; Stormwater Management</i>	3	L	Unknown	Council will need to wait for the State to provide draft model planning controls before Council can comment.	TBA	Not Yet Commenced	N/A	N/A
5.2	Flood Planning Controls / Flood Mapping	The Queensland Government should include in the model flood planning controls a requirement that councils have a flood overlay map in their planning schemes. The map should identify the areas of the council region: • that are known not to be affected by flood • that are affected by flood and on which councils impose planning controls (there may be subsets in each area to which different planning controls attach) • for which there is no flood information available to council.	New Planning Scheme; <i>Infrastructure Policy - Flood &amp; Stormwater Management</i>	1	M	Within Current Budget	The State Government has committed to the inclusion of a requirement in the model flood planning controls. This will require Council to identify all areas that are not covered by flood mapping or models in the planning scheme. Links to item 2.15.	End Dec 2012	Work in Progress	M-40	L24
5.3	Flood Planning Controls / Flood Mapping	If the Queensland Government does not include a requirement for such an overlay map in the model flood planning controls, councils should include a flood overlay map in their planning schemes. The map should identify the areas of a council region: • that are known not to be affected by flood • that are affected by flood and on which councils impose planning controls (there may be subsets in each area to which different planning controls attach) • for which there is no flood information available to council.	New Planning Scheme; <i>Infrastructure Policy - Flood &amp; Stormwater Management</i>	N/A	N/A	N/A	Not required given State Government has committed to undertaking all items required of the State. The Council actions required of item 5.2 remain	N/A	State responsibility or of interest only	N/A	N/A
5.4	Flood Planning Controls	The Queensland Government should include in the model flood planning controls a model flood overlay code that consolidates assessment criteria relating to flood.	New Planning Scheme; <i>Infrastructure Policy - Flood &amp; Stormwater Management</i>	3	L	Within Current Budget	Council will need to wait for the State to provide draft model planning controls before Council can comment.	TBA	Work in Progress	L24	Unknown
5.5	Flood Planning Controls	If the Queensland Government does not include such a code in the model flood planning controls, councils should include in their planning schemes a flood overlay code that consolidates assessment criteria relating to flood.	New Planning Scheme; <i>Infrastructure Policy - Flood &amp; Stormwater Management</i>	N/A	N/A	N/A	Not required given State Government has committed to undertaking all items required of the State.	N/A	State responsibility or of interest only	N/A	N/A

Priority: High (H), Medium (M), Low (L)  
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5.6	Flood Planning Controls	The Queensland Government should include in the model flood planning controls a model planning scheme policy that: <ul style="list-style-type: none"> <li>for development proposed on land susceptible to flooding, outlines what additional information an applicant should provide to the assessment manager as part of the development application, or</li> <li>for development proposed on land where the potential for flooding is unknown, requires an applicant to provide: <ul style="list-style-type: none"> <li>as part of the development application, information to enable an assessment of whether the subject land is susceptible to flooding, and</li> <li>upon a determination the subject land is susceptible to flooding, more detailed information, to allow an assessment of the flood risk.</li> </ul> </li> </ul>	New Planning Scheme; <i>Infrastructure Policy - Flood &amp; Stormwater Management; Engineering &amp; Environmental Assessment</i>	2	L	Within Current Budget	State Government has committed to undertaking all items required of the State. Once the model flood planning scheme policy has been developed it will be considered for inclusion in the new planning scheme. Linked to item 2.15 and 5.2.	TBC	Not Yet Commenced	M-40	L24
5.7	Flood Planning Controls	If the Queensland Government does not include such a policy in the model flood planning controls, councils should include in their planning schemes a planning scheme policy that: <ul style="list-style-type: none"> <li>for development proposed on land susceptible to flooding, outlines what additional information an applicant should provide to the assessment manager as a part of the development application, or</li> <li>for development proposed on land where potential for flooding is unknown requires an applicant to provide: <ul style="list-style-type: none"> <li>as part of the development application, information to enable an assessment of whether the subject land is susceptible to flooding, and</li> <li>upon a determination the subject land is susceptible to flooding, more detailed information to allow an assessment of the flood risk.</li> </ul> </li> </ul>	New Planning Scheme; <i>Infrastructure Policy - Flood &amp; Stormwater Management; Engineering &amp; Environmental Assessment</i>	N/A	N/A	N/A	Not required given State Government has committed to undertaking all items required of the State. Council actions required of item 5.6 remain.	N/A	State responsibility or of interest only	N/A	N/A
5.8	Land Use Planning	The Queensland Government should consider amending the <i>Sustainable Planning Act 2009</i> to expressly provide either a power to remake or a power to extend a temporary local planning instrument containing interim flood regulation for a further limited period. The power to remake or extend should: a. permit the modification of the temporary local planning instrument to the extent required to ensure its provisions remain relevant, having regard to any requirement that may have been introduced or any information that may have become available while the original temporary local planning instrument was in force b. be contingent on the Minister's being satisfied that the circumstances listed in section 105 of the Sustainable Planning Act continue to exist and that there are proper grounds for the failure to make a permanent scheme amendment while the original temporary local planning instrument was in force.	New Planning Scheme; <i>Infrastructure Policy - Flood &amp; Stormwater Management</i>	N/A	N/A	N/A	State Government has committed to undertaking all items required of the State.	N/A	State responsibility or of interest only	N/A	N/A
5.9	Land Use Planning	The Queensland Government should consider allowing councils to amend a planning scheme to update existing flood mapping information by way of the minor amendment process, provided that adequate public consultation has occurred.	New Planning Scheme; <i>Infrastructure Policy - Flood &amp; Stormwater Management</i>	N/A	N/A	N/A	Updated flood mapping information has and will be used in the new planning scheme. As updated flood data becomes available the amendment process offered to council by the State Government at the time will be considered.	N/A	State responsibility or of interest only	M32	L8

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6.1	ULDA / Land Use Planning	The Queensland Government should consider amending the <i>Urban Land Development Authority Act 2007</i> , the <i>South Bank Corporation Act 1989</i> , the <i>State Development and Public Works Organisation Act 1971</i> insofar as it governs state development areas, and other legislation which establishes alternative planning systems that operate independently of the <i>Sustainable Planning Act 2009</i> , to require that: • any planning scheme, interim or otherwise, appropriately reflects any state planning policy with respect to flood • flood risk be considered in the assessment of any development application.	New Planning Scheme; <i>Infrastructure Policy - Flood &amp; Stormwater Management; Engineering &amp; Environmental Assessment</i>	N/A	N/A	N/A	State Government has committed to undertaking all items required of the State.	N/A	State responsibility or of interest only	N/A	N/A
7.2	Flood Planning Controls	The Queensland Government should draft assessment criteria to be included in the model flood planning controls that require community infrastructure (including the types of community infrastructure which are identified in the <i>Sustainable Planning Regulation 2009</i> and which the community needs to continue functioning, notwithstanding flood) to be located and designed to function effectively during and immediately after a flood of a specified level of risk.	New Planning Scheme; <i>Social Policy; Community Development; Building &amp; Facility Services; Infrastructure Policy - Flood &amp; Stormwater Management; Transport and Engineering Services; Environmental Ops; Civil Works Services</i>	3	L	Within Current Budget	Not required given State Government has committed to undertaking all items required of the State. Council will need to wait for the State to provide draft model planning controls before Council can comment.	TBC	Not Yet Commenced	N/A	N/A
7.3	Flood Planning Controls	If the Queensland Government does not include such assessment criteria in model flood planning controls, councils should include assessment criteria in their planning schemes that require community infrastructure (including the types of community infrastructure which are identified in the <i>Sustainable Planning Regulation 2009</i> and which the community needs to continue functioning, notwithstanding flood) to be located and designed to function effectively during and immediately after a flood of a specified level of risk.	New Planning Scheme; <i>Social Policy; Community Development; Building &amp; Facility Services; Infrastructure Policy - Flood &amp; Stormwater Management; Transport and Engineering Services; Environmental Ops ; Civil Works Services; Parks &amp; Gardens</i>	N/A	N/A	N/A	Not required given State Government has committed to undertaking all items required of the State. The council actions required to item 7.2 remain	N/A	State responsibility or of interest only	N/A	N/A
7.4	Flood Planning Controls	The Queensland Government should draft assessment criteria to be included in the model flood planning controls that require the impact of flood on commercial property to be minimised.	New Planning Scheme	3	L	Unknown	Not required given State Government has committed to undertaking all items required of the State. Council will need to wait for the State to provide draft model planning controls before Council can comment.	TBC	Not Yet Commenced	N/A	N/A
7.5	Flood Planning Controls	If the Queensland Government does not include such assessment criteria in the model flood planning controls, councils should include assessment criteria in their planning schemes that require the impact of flood on commercial property to be minimised.	New Planning Scheme	N/A	N/A	N/A	Not required given State Government has committed to undertaking all items required of the State. Linked to item 7.4	N/A	State responsibility or of interest only	N/A	N/A
7.6	Environmentally Relevant Activities	The Queensland Government should ensure that the criteria under the <i>Environmental Protection Act 1994</i> that apply to the assessment of development applications for material change of use for environmentally relevant activities include consideration of the risk of flooding at the site on which the activity is proposed to occur.	Development Services; <i>Community Response; Healthy Places</i>	N/A	N/A	N/A	State government has committed to undertaking all items required of the State	N/A	State responsibility or of interest only	N/A	N/A
7.9	Environmentally Relevant Activities	The Department of Environment and Resource Management should ensure that, when applications for a material change of use for an environmentally relevant activity are approved by the department, the details of those activities, including their nature and location, are provided to the council within whose area the activity will be conducted.	Planning Assessment; <i>Community Response; Healthy Places</i>	N/A	N/A	N/A	State government has committed to undertaking all items required of the State	N/A	State responsibility or of interest only	N/A	N/A

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7.10	Environmentally Relevant Activities	Councils should ensure that, when applications for environmentally relevant activities are approved by a council, the details of those activities, including their nature and location, are provided to the Department of Environment and Resource Management.	Planning Assessment; <i>Community Response;</i> <i>Healthy Places</i>	H	S	Within Current Budgets	Council currently has an obligation to provide notification to DERM under the EPAct when a Notifiable Activity commences, however this will not cover the full range of devolved ERA's for which Council is the assessment manager (eg. Motor vehicle workshop). Council will liaise with DERM to establish a process for notifying them of all devolved ERA's which are approved, should DERM wish to receive this information.	TBC	Not Yet Commenced	M32	L12
7.11	Flood Planning Controls	The Queensland Government should draft assessment criteria to be included in the model flood planning controls that require that: a. the manufacture or storage of bulk hazardous materials (as defined in State Planning Policy 1/03) take place above a certain flood level, determined following an appropriate risk based assessment, or b. structures on land susceptible to flooding and used for the manufacture or storage of bulk hazardous materials (as defined in State Planning Policy 1/03) be designed to prevent the intrusion of floodwaters.	New Planning Scheme	N/A	N/A	Within Current Budget	Not required given State Government has committed to undertaking all items required of the State. Council will need to wait for the State to provide draft model planning controls before Council can comment.	TBC	Work in Progress	N/A	N/A
7.12	Flood Planning Controls	If the Queensland Government does not include such assessment criteria in the model flood planning controls, councils should include assessment criteria in their planning schemes that require that: a. the manufacture or storage of bulk hazardous materials (as defined in State Planning Policy 1/03) take place above a certain flood level, determined following an appropriate risk based assessment, or b. structures on land susceptible to flooding and used for the manufacture or storage of bulk hazardous materials (as defined in State Planning Policy 1/03) be designed to prevent the intrusion of floodwaters.	New Planning Scheme	N/A	N/A	N/A	Not required given State Government has committed to undertaking all items required of the State. The council actions required of item 7.11 remain.	N/A	State responsibility or of interest only	N/A	N/A
7.13	Development Assessment	When approving applications for development which involve the manufacture or storage of hazardous materials, councils should not restrict the conditions imposed to ones which are solely reliant on human intervention to remove the materials in the event of flood.	Planning Assessment; <i>Engineering &amp; Environmental Assessment</i>	H	S	Within Current Budgets	Current Planning Schemes do provide provision for industrial uses which include the storage of hazardous materials. The New Planning Scheme needs to be reviewed to ensure that its provisions are at least equal to the strongest requirements of the three former schemes and where necessary revised to consider the consequences of flooding beyond a Q100.	TBC	Not Yet Commenced	M52	L24
7.15	Land Use Planning	Councils (particularly Brisbane City Council) should consider including in their planning schemes more stringent standards for the design and construction of prescribed tidal work than those in the code for development applications for prescribed tidal work in the <i>Coastal Protection and Management Regulation 2003</i> .	New Planning Scheme	N/A	N/A	Unknown	The Prescribed Tidal Works Code is currently under review by the State.	TBC	Not Yet Commenced	N/A	N/A
7.16	Flood Planning Controls	The Queensland Government should consider drafting assessment criteria to be included in the model flood planning controls which require that works in a floodplain: • do not reduce on-site flood storage capacity • counteract any changes the works will cause to flood behaviour of all floods up to and including the applicable defined flood event by measures taken within the subject site (for example, use of compensatory works, detention basins or other engineering mechanisms) • do not change the flood characteristics outside the subject site in ways that result in: – loss of flood storage – loss of/changes to flow paths – acceleration or retardation of flows, or – any reduction in flood warning times elsewhere on the floodplain.	New Planning Scheme; <i>Infrastructure Policy - Flood &amp; Stormwater Management;</i> <i>Engineering &amp; Environmental Assessment</i>	3	L	Within Current Budgets	Not required given State Government has committed to undertaking all items required of the State. Council will need to wait for the State to provide draft model planning controls before Council can comment.	TBC	Not Yet Commenced	N/A	N/A

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7.17	Flood Planning Controls	If the Queensland Government does not include such assessment criteria in the model flood planning controls, councils should consider including assessment criteria in their planning schemes which require that works in a floodplain: <ul style="list-style-type: none"> <li>do not reduce on-site flood storage capacity</li> <li>counteract any changes the works will cause to flood behaviour of all floods up to and including the acceptable defined flood event by measures taken within the subject site (for example, use of compensatory works, detention basins or other engineering mechanisms), and</li> <li>do not change the flood characteristics outside the subject site in ways that result in: <ul style="list-style-type: none"> <li>loss of flood storage</li> <li>loss of/changes to flow paths</li> <li>acceleration or retardation of flows, or</li> <li>any reduction in flood warning times elsewhere on the floodplain.</li> </ul> </li> </ul>	New Planning Scheme; <i>Infrastructure Policy - Flood &amp; Stormwater Management;</i> <i>Engineering &amp; Environmental Assessment</i>	N/A	N/A	N/A	Not required given State Government has committed to undertaking all items required of the State.	N/A	State responsibility or of interest only	N/A	N/A
7.18	Land Use Planning / Operational Works	The Queensland Government should consider amending the <i>Sustainable Planning Regulation 2009</i> so that operational work or plumbing or drainage work (including maintenance and repair work) carried out by or on behalf of a public sector entity authorised under a state law to carry out the work is not exempt development under the <i>Sustainable Planning Act 2009</i> if the development has the potential to reduce floodplain storage.	Engineering & Environmental Assessment	N/A	N/A	N/A	State Government has committed to undertaking all items required of the State.	N/A	State responsibility or of interest only	N/A	N/A
7.19	Levees	Levees should be regulated.	Infrastructure Services;	3	L	Within Current Budget	Council to have an awareness of all Levees within the region, noting that the possibility that seawalls may fall within the definition of a levee.	TBC	Not Yet Commenced	L24	L8
7.20	Levees	The Queensland Government should consult with councils to determine an effective method for the regulation of the construction of levees in Queensland. In particular, the Queensland Government should consider: <ul style="list-style-type: none"> <li>requiring a development permit for the construction of a levee by designating levees as assessable development in the Sustainable Planning Regulation 2009, or</li> <li>requiring, by way of a state planning policy or mandatory provision in the Queensland Planning Provisions, that councils nominate the construction of a levee as assessable development in their planning schemes.</li> </ul>	Infrastructure Services; <i>Engineering &amp; Environmental Assessment; New Planning Scheme</i>	3	L	Within Current Budget	Council to participate in discussions initiated by the State.	TBC	Not Yet Commenced	L24	L8
7.21	Levees	The Queensland Government should consult with councils to formulate a definition of 'levee' to identify what should be regulated.	Infrastructure Services; Infrastructure Policy - Flood & Stormwater Management	3	L	Within Current Budget	Council to participate in discussions initiated by the State.	TBC	Not Yet Commenced	L24	L8
7.24	Flood Planning Controls	The Queensland Government should draft assessment criteria to be included in the model flood planning controls that address: <ul style="list-style-type: none"> <li>the prospect of isolation or hindered evacuation</li> <li>the impact of isolation or hindered evacuation.</li> </ul>	Local Disaster Coordinator; <i>New Planning Scheme</i>	N/A	N/A	N/A	State Government has committed to undertaking all items required of the State.	N/A	State responsibility or of interest only	N/A	N/A
7.25	Flood Planning Controls	If the Queensland Government does not include such assessment criteria in the model flood planning controls, councils should consider including assessment criteria in their planning schemes that address: <ul style="list-style-type: none"> <li>the prospect of isolation or hindered evacuation</li> <li>the impact of isolation or hindered evacuation.</li> </ul>	Local Disaster Coordinator; <i>New Planning Scheme</i>	N/A	N/A	N/A	Not required given State Government has committed to undertaking all items required of the State	N/A	State responsibility or of interest only	N/A	N/A
8.1	Flood Mapping / Flood Models	Councils should, resources allowing, maintain flood maps and overland flow path maps for use in development assessment. For urban areas these maps should be based on hydraulic modelling; the model should be designed to allow it to be easily updated as new information (such as information about further development) becomes available.	Infrastructure Policy - Flood & Stormwater Management	3	M	Within Current Budget	Prepare a map of all known overland flow paths in urban areas.	Dec-2013	Not Yet Commenced	M-36	L24

Priority: High (H), Medium (M), Low (L)  
Complexity: Complex (C), Moderate (M), Simple (S)  
N/A - not applicable; TBA - to be advised

**ACTIONS ON FLOODS COMMISSION FINAL REPORT RECOMMENDATIONS - APPENDIX B**

Ref Number	Theme	Report Recommendation	Council Service Unit Key: Primary Interest <i>Secondary Interest</i>	Priority	Complexity	Budget Implication	Actions	Anticipated Completion	Status	Risk Rating prior to Action	Risk Rating after Action
8.2	Flood Mapping / Flood Models	Councils should make their flood and overland flow maps and models available to applicants for development approvals, and to consultants engaged by applicants.	Infrastructure Policy - Flood & Stormwater Management; <i>Development Business Services</i>	3	M	Within Current Budget	Council to make flood models available to developers and their consultants on the provision that a usage agreement is signed and abided by. Version Control and Document Management will be essential.	Ongoing	Ongoing Requirement	L24	L20
8.3	Flood Planning Controls	The Queensland Government should draft a model planning scheme policy to be included in the model flood planning controls that sets out the information to be provided in development applications in relation to stormwater and flooding. The policy should specify: <ul style="list-style-type: none"> <li>the type of models and maps to be provided</li> <li>the substantive information required to be shown in the development application</li> <li>how the assumptions and methodologies used in preparing the models and maps should be presented</li> <li>the form in which the information on stormwater and flooding is to be presented in the application.</li> </ul>	Engineering & Environmental Assessment; <i>Infrastructure Policy - Flood &amp; Stormwater Management; New Planning Scheme</i>	3	L	Unknown	Not required given State Government has committed to undertaking all items required of the State. Council will need to wait for the State to provide draft model planning controls before Council can comment.	TBC	Not Yet Commenced	N/A	N/A
8.4	Flood Planning Controls	If the Queensland Government does not include such a policy in the model flood planning controls, councils should include a planning scheme policy in their planning schemes that sets out the information to be provided in development applications in relation to stormwater and flooding. The policy should specify: <ul style="list-style-type: none"> <li>the type of models and maps to be provided</li> <li>the substantive information required to be shown in the development application</li> <li>how the assumptions and methodologies used in preparing the models and maps should be presented</li> <li>the form in which the information on stormwater and flooding is to be presented in the application.</li> </ul>	New Planning Scheme; <i>Engineering &amp; Environmental Assessment; Infrastructure Policy - Flood &amp; Stormwater Management;</i>	N/A	N/A	N/A	Not required given State Government has committed to undertaking all items required of the State.	N/A	State responsibility or of interest only	N/A	N/A
8.5	Development Assessment	Councils should review their assessment processes to ensure that: <ul style="list-style-type: none"> <li>the person with primary responsibility for the assessment of the development application considers what expert input is required</li> <li>where a development application is subject to comment by a number of professionals, the responsibilities and accountability of each contributor are clear</li> <li>where flood-related information is referred to an expert for advice, the expert is required to comment on the extent of compliance by reference to each relevant assessment criteria and identify and explain any inability to comment.</li> </ul>	Engineering & Environmental Assessment	N/A	N/A	N/A	Current development assessment processes ensures that an initial flooding review occurs for all development applications. This occurs through review of the Development Assessment Panel Agenda and Operational Works Applications List by a senior officer from the Hydraulics and Water Quality Unit. The allocated Hydraulics and Water Quality specialist is always responsible for flooding and provides a memo summarising how all relevant things under the Sustainable Planning Act have been addressed. No further action required.	N/A	Complete	N/A	N/A
8.6	Development Assessment	Councils should take care when imposing conditions to ensure that each condition has purpose; standardised conditions should not be included where they have no application to the development in question.	Engineering & Environmental Assessment	3	L	Within Current Budget	This recommendation states that Councils should only imposing conditions which have a purpose. This is the current practice of the Hydraulics and Water Quality Unit. No further action required.	Ongoing	Work in Progress	L24	L20
8.7	Development Assessment	Councils should not rely on a condition requiring an evacuation plan as the sole basis for approving a development susceptible to flooding.	Development Services; <i>New Planning Scheme; Local Disaster Coordinator</i>	N/A	N/A	N/A	This recommendation states that Councils should not to rely on a condition requiring an evacuation plan as the sole basis for approving a development susceptible to flooding. Reliance on a condition of this nature would not be in accordance with the requirements of the planning scheme and is not the current practice of the Hydraulics and Water Quality Unit. No further action required.	N/A	State responsibility or of interest only	N/A	N/A
8.8	Development Assessment	Councils should consider providing advice to development applicants during pre-lodgement meetings, and at the time of receiving a development application, about the way in which the development will be assessed for flood risk and what flood information council will be relying on to make this assessment.	Engineering & Environmental Assessment	H	S	Within Current Budget	Council currently provides advice to applicants during pre-lodgement meetings about the way in which the development will be assessed for flood risk and what flood information Council will be relying on to make the assessment. The information is however not provided to the applicant because the flood information is provided via a Flood Search Certificate from the Flooding and Stormwater Unit or is required to be determined by the applicant.	Ongoing	Work in Progress	L24	L20

Priority: High (H), Medium (M), Low (L)  
Complexity: Complex (C), Moderate (M), Simple (S)  
N/A - not applicable; TBA - to be advised



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Ref Number	Theme	Report Recommendation	Council Service Unit Key: Primary Interest <i>Secondary Interest</i>	Priority	Complexity	Budget Implication	Actions	Anticipated Completion	Status	Risk Rating prior to Action	Risk Rating after Action
9.2	Building Controls	The proposed new part of the Queensland Development Code, Mandatory Part 3.5 'Construction of buildings in flood hazard areas', should be amended so that the performance requirements about utilities and sanitary drains (Performance Requirement P2 and P3) for building on a lot will only be triggered where the council has: • designated part of its area as a natural hazard management area (flood) under section 13 of the Building Regulation 2006, and • either: – declared a height to be the expected flood level under section 13 of the Building Regulation 2006, or – adopted a highest recorded flood level for the lot.	Infrastructure Policy - Flood & Stormwater Management	N/A	N/A	Unknown	State Government has committed to undertaking all items required of the State. Council will respond to directions provided by the State.	N/A	State responsibility or of interest only	N/A	N/A
10.2	Sewerage Infrastructure / Operational Works	Authorities responsible for the construction of sewerage infrastructure should, when embarking on new works, undertake risk and cost/benefit assessments to determine the level at which electrical infrastructure that may be vulnerable to inundation should be placed.	Unitywater (Not Council)	N/A	N/A	N/A	Of interest only.	N/A	State responsibility or of interest only	N/A	N/A
10.3	Sewerage Infrastructure / Operational Works	Authorities responsible for the management of sewerage infrastructure should conduct a review of their existing infrastructure to identify electrical infrastructure that may be vulnerable to inundation and perform risk and cost/benefit assessments to determine if it should be relocated to a higher level.	Unitywater (Not Council)	N/A	N/A	N/A	Of interest only.	N/A	State responsibility or of interest only	N/A	N/A
10.4	Sewerage Infrastructure	Queensland Urban Utilities should make the results of its trials on the use of caps for overflow relief gully grates available to other authorities responsible for sewerage infrastructure. Consideration should be given by those authorities as to how the results can be used to improve the flood resilience of their sewerage networks.	Building Services; <i>Infrastructure Policy - Flood &amp; Stormwater Management</i>	N/A	N/A	N/A	Of interest only.	N/A	State responsibility or of interest only	N/A	N/A
10.6	Sewerage Infrastructure	Queensland Urban Utilities, and other distributor-retailers and councils, that have identified a practice of stormwater drains being connected to sewerage infrastructure, should conduct a program of education to raise public awareness that this practice is illegal and impedes the operation of the sewerage infrastructure.	Plumbing Services	1	L	Within Current Budget	Plumbing Services is in the process of developing customer information fact sheet and brochure for Council customers. Plumbing Services is working with Unitywater in producing uniform educational material	TBA	Work in Progress	L24	L20
10.7	Sewerage Infrastructure	Councils and distributor-retailers should agree to protocols for the exchange of information about suspected illegal connections, the steps being taken to investigate them or the basis for concluding that no investigation is required, and the results of any investigations or enforcement actions.	Plumbing Services	1	M	Within Current Budget	Investigation program has been implemented to investigate suspected illegal connections. An agreement is in place between both Unitywater and Councils Plumbing Services Branch to share information. Work flow schedule has been developed between Unitywater and Plumbing Services.	TBA	Work in Progress	L24	L20
10.8	Stormwater Infrastructure	The Department of Environment and Resource Management should review the Queensland Urban Drainage Manual to determine whether it requires updating or improvement, in particular, to reflect the current law and to take into account insights gained from the 2010/2011 floods.	Infrastructure Policy - Flood & Stormwater Management; <i>Engineering &amp; Environmental Assessment</i>	N/A	N/A	N/A	Of interest only	N/A	State responsibility or of interest only	N/A	N/A
10.9	Flood Mapping	All councils should, resources allowing, map the overland flow paths of their urban areas.	Infrastructure Policy - Flood & Stormwater Management	3	M	Within Current Budget	As per item 8.1	Dec-2013	Not Yet Commenced	M-36	L24
10.10	Land Use Planning / Flood Planning Controls	Councils should consider amending their planning schemes to include provisions directed to consideration of the flood resilience of basements as a factor in determining the appropriateness of a material change of use.	New Planning Scheme	3	M	Within Current Budget	Council was at an advanced stage in preparing the new planning scheme at the time the flood commission was released. The council will consider this issues as part of ongoing drafting of the new planning scheme	TBA	Work in Progress	M-36	L24
10.11	Development Assessment	In assessing and determining development applications for material change of use in areas susceptible to flood, councils should consider whether the new developments locate essential services infrastructure above basement level, or, alternatively, whether essential services infrastructure located at basement level can be constructed so that it can continue to function during a flood.	Engineering & Environmental Assessment	N/A	N/A	N/A	Addressed in the State's draft Queensland Development Code Mandatory Part 3.5 Construction of buildings in flood hazard areas.	TBA	Work in Progress	N/A	N/A

Priority: High (H), Medium (M), Low (L)  
Complexity: Complex (C), Moderate (M), Simple (S)  
N/A - not applicable; TBA - to be advised

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Ref Number	Theme	Report Recommendation	Council Service Unit Key: Primary Interest <i>Secondary Interest</i>	Priority	Complexity	Budget Implication	Actions	Anticipated Completion	Status	Risk Rating prior to Action	Risk Rating after Action
10.14	Backflow Flooding	All councils should periodically conduct risk assessments to identify areas at risk of backflow flooding. In respect of such areas, councils should consider how such risks can be lessened, including in that process consideration of the installation of backflow prevention devices. Backflow devices should not, however, be installed unless and until a full risk based assessment has been undertaken.	Infrastructure Policy - Flood & Stormwater Management; Transport & Engineer Services; Water Management & Drainage Services	2	M	Ref to 2.13	As part of Hazard Mapping identify all areas with zero flow and label these as backflow flooding areas. As part of stormwater drainage planning identify all coastal areas where the stormwater network facilitates street flooding by backflow flooding associated with storm tides. Map these areas. Undertake a cost benefit and risk analysis of backflow prevention devices.	Jul-2015	Not Yet Commenced	M-36	L24
10.15	Backflow Flooding	Councils should conduct education campaigns directed to ensuring that all residents and property owners in areas identified as being at risk of backflow flooding are aware of the circumstances in which backflow flooding can occur, the hazard it presents and what should be done if it occurs.	Infrastructure Policy - Flood & Stormwater Management; <i>Local Disaster Coordinator</i>	3	M	Addition/Al Funding required, Quantum yet to be determined.	Once backflow flooding areas are identified, prepare an appropriate educational campaign.	TBC	Not Yet Commenced	M-36	L24
10.16	Flood Planning Controls	The Queensland Government should draft assessment criteria to be included in the model flood planning controls that require critical infrastructure in assessable substation developments is built to remain operational during and immediately after a flood of a particular magnitude. That magnitude should be determined by an appropriate risk assessment.	New Planning Scheme	3	L	Within Current Budget	Not required given State Government has committed to undertaking all items required of the State. Council will need to wait for the State to provide draft model planning controls before Council can comment.	TBC	Not Yet Commenced	N/A	N/A
10.17	Flood Planning Controls	If the Queensland Government does not include such assessment criteria in the model flood planning controls, councils should include assessment criteria in their planning schemes that require critical infrastructure in assessable substation developments is built to remain operational during and immediately after a flood of a particular magnitude. That magnitude should be determined by an appropriate risk assessment.	New Planning Scheme; <i>Infrastructure Policy - Flood &amp; Stormwater Management; Building Services</i>	N/A	N/A	N/A	Not required given State Government has committed to undertaking all items required of the State. Council actions required of item 10.16 remain.	N/A	State responsibility or of interest only	N/A	N/A
10.22	Telecoms Facilities	Carriers, councils and the Australian Communications and Media Authority should take into account the risk of flooding when considering the placement of telecommunications facilities.	Engineering & Environmental Assessment; <i>Broadband &amp; Digital Economy; Economic Development;</i>	3	L	Within Current Budget	Telecommunications will be dealt with in the same way as other buildings and structures, where not exempt from the planning scheme. Only defined low impact facilities are exempt from the planning scheme overlay.	TBC	Work in Progress	L24	L20
11.1	Buy Backs	Councils should consider implementing a property buy-back program in areas that are particularly vulnerable to regular flooding, as part of a broader floodplain management strategy, where possible obtaining funding from the Natural Disaster Resilience Program for this purpose.	Infrastructure Policy - Flood & Stormwater Management; <i>Local Disaster Coordinator; CEO; Finance &amp; Business;</i>	1	L	Submission to LGAQ - Within Current Budget	A submission has been lodged for consideration at the Local Government Association of Queensland Annual Conference (2012) for a State-wide approach to the issue of flood vulnerable properties, as a matter of urgency. Depending on the ensuing policy from LGAQ, Council may approach the State and Federal Government for certainty and streamlined access in relation to funding assistance.	Nov-2012	Work in Progress	H72	L24
15.1	Disaster Management	Councils should support and encourage business owners to develop private flood evacuation plans by providing the following to business owners in areas known to be affected by flood: • information about the benefits of evacuation plans • contact details of relevant council and emergency service personnel for inclusion in evacuation plans.	Local Disaster Coordinator; <i>Economic Development</i>				Get Ready Sunshine Coast campaign to encourage businesses and the community to prepare emergency and evacuation plans in September 2012	Dec-12	Work in Progress	M32	L12
15.2	Disaster Management	Councils should consider making available to business owners locality specific information that would assist them to develop evacuation plans for commercial premises, for example, any evacuation sub-plan created under Emergency Management Queensland's disaster evacuation guidelines.	Local Disaster Coordinator; <i>Economic Development; Infrastructure Policy - Flood &amp; Stormwater Management</i>				River flood and storm tide information maps will be made available to the public and business in September 2012 as part of a Get Ready Sunshine Coast campaign to encourage businesses and the community to prepare emergency and evacuation plans. This information will be locality specific.	Dec-12	Work in Progress	M52	M32

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15.6	Disaster Management	Emergency Management Queensland, in consultation with councils, should develop a directive that makes clear the authority of an officer of that agency to command a major SES operation. This could be expected to occur when a deployment of additional SES members is made to a region because the response needed is beyond the capacity of its local units. The directive should make clear the powers of the officer and his or her reporting responsibilities to disaster managers in these circumstances. Emergency Management Queensland must also ensure that any officer who assumes such a role has adequate training and skills in the conduct of disaster operations.	Local Disaster Coordinator				Include in Memorandum of Agreement with EMQ regarding SES.	Sep-12	Work in Progress	L24	L20
15.8	Disaster Management	Emergency Management Queensland, in consultation with councils, should develop clear directives about: <ul style="list-style-type: none"> <li>• the communication and reporting that should take place between the SES and disaster managers, including in relation to task allocation and completion, once disaster management groups have been activated</li> <li>• the communication and reporting that should take place between the SES and disaster managers, including in relation to task allocation and completion, once disaster management groups have been activated</li> <li>• the process for dealing with requests for assistance that exceed an SES unit's capacity to respond them</li> <li>• the process for seeking extra support for an SES unit that has been overwhelmed by a disaster (whether by way of Emergency Management Queensland or the disaster management arrangements or both)</li> <li>• the role of SES liaison officers in communications with disaster managers about SES disaster operations</li> <li>• the role of incident controllers, and their teams, relative to those SES (or Emergency Management Queensland) personnel charged with the command of SES operations.</li> </ul>	Local Disaster Coordinator				Include in Memorandum of Agreement with EMQ regarding SES.	Sep-12	Work in Progress	L24	L20
15.10	Disaster Management	Emergency Management Queensland should develop and implement a new formula for the distribution of its recurrent SES subsidy, which takes into account relevant factors including the size of a local SES contingent and the population, area and natural hazard risk profile of the local government area concerned.	Local Disaster Coordinator				Include in Memorandum of Agreement with EMQ regarding SES.	Sep-12	Work in Progress	L24	L20
15.11	Disaster Management	Emergency Management Queensland should pursue the execution of the 'Local Arrangements' with councils where a Memorandum of Agreement is in place. The contents of the arrangements should be reviewed and updated regularly.	Local Disaster Coordinator				Memorandum of Agreement currently under negotiation	Sep-12	Work in Progress	L24	L20
17.3	Disaster Management	The Queensland Government should ensure that, when it considers options for the operational strategies to be employed at Wivenhoe and Somerset dams, and North Pine Dam, it is presented with a wide range of options which prioritise differing objectives. The Queensland Government should determine the operational strategies by considering the implications of each option over a range of flood events for at least: <ul style="list-style-type: none"> <li>• inundation of urban and rural areas</li> <li>• water supply security</li> <li>• dam safety</li> <li>• submerging of bridges</li> <li>• bank slumping and erosion</li> <li>• riparian fauna and flora.</li> </ul>	Local Disaster Coordinator; <i>Infrastructure Policy - Flood &amp; Stormwater Management</i>	N/A	N/A	N/A	Of interest only	N/A	State responsibility or of interest only	N/A	N/A
17.31	Disaster Management	The Queensland Government should legislate to oblige each owner of a referable dam to have an emergency action plan approved by the appropriate Queensland Government agency. Such plans should be reviewed periodically.	Local Disaster Coordinator; <i>Infrastructure Policy - Flood &amp; Stormwater Management</i>	3	L	Within Current Budget	Seqwater currently developing emergency action plans for all dams in Sunshine Coast area in consultation with Council.	TBC	Work in Progress	L24	L20

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17.32	Disaster Management	The Queensland Government should, in consultation with the Department of Environment and Resource Management and Emergency Management Queensland, determine which agency is appropriate to review and approve emergency action plans for referable dams.	Local Disaster Coordinator; <i>Infrastructure Policy - Flood &amp; Stormwater Management;</i>	3	L	Within Current Budget	Enquire with the state government as to how many referable dams are within the Sunshine Coast Region, obtain Emergency Action Plans if necessary.	Dec-2012	Not Yet Commenced	L24	L20
17.34	Disaster Management	The Department of Environment and Resource Management should prioritise dam safety audits according to risk. The risk assessment should be informed by criteria including: <ul style="list-style-type: none"> <li>• structure and materials used in construction</li> <li>• age of the dam</li> <li>• time since last inspection</li> <li>• occurrence of a flood event since last audit and the size of that flood event</li> <li>• population at risk if the dam were to fail</li> <li>• experience and capability of dam owner</li> <li>• dam owner compliance history</li> <li>• time since last audit.</li> </ul>	Local Disaster Coordinator	N/A	N/A	N/A	Seqwater advisor appointed to LDMG. Will provide regular updates prior to each wet season.	Aug-12	Work in Progress	L24	L20
17.36	Disaster Management	The Department of Environment and Resource Management should conduct periodic dam safety information and education sessions with emergency management personnel including those from Emergency Management Queensland, local and district disaster management groups and local councils. Priority should be given to sessions if the Bureau of Meteorology forecasts a wet season with a greater than 50 per cent chance of above median rainfall.	Local Disaster Coordinator	N/A	N/A	N/A	Seqwater to advise Local Disaster Management Group on status of audits once completed by DERM (now DEHP).	Ongoing	Work in Progress	L24	L20