

**Emergency Management BC (EMBC)**

Rec. #	OAG Recommendations	Action Planned	Target Date	Assessment of Progress by Entity <sup>15</sup>	Action Taken <sup>16</sup>
3.	Provide staff with a continuing education program on climate change impacts and adaptation.	<ol style="list-style-type: none"> <li>1. Emergency Management BC (EMBC) and CAS will coordinate on developing/providing staff education programs on climate change impacts and adaptation.</li> <li>2. Due to a changing climate, the increased frequency of emergencies and disasters is rising; therefore, EMBC is creating Training and Exercise Working Group (TEWG) in support of the Assistant Deputy Minister Committee on Emergency Management (ADMCEM) to lead cross-ministry coordination and collaboration related to emergency management exercises.</li> <li>3. EMBC will work in partnership with First Nation communities to learn from knowledge holders about the impact climate change is having on First Nation communities – this learning will inform internal practices at EMBC.</li> </ol>	<ol style="list-style-type: none"> <li>1. TBD</li> <li>2. Spring-Summer 2018</li> <li>3. On-going</li> </ol>		<ul style="list-style-type: none"> <li>• TEWG will provide the ADMCEM with quarterly cross-ministry updates on training and exercises identified in the provincial emergency management exercise schedule.</li> </ul>

<sup>15</sup>The Select Standing Committee on Public Accounts (PAC) will request an update (i.e. Assessment of Progress and Actions Taken column completed) on a yearly basis from the audited organization until all recommendations are fully implemented or otherwise addressed to the satisfaction of the PAC.

<sup>16</sup> This action plan and their subsequent updates have not been audited by the OAG. However, at a future date that Office may undertake work to determine whether the entity has accurately represented their progress in addressing the recommendations. The results of that work will be reported in a separate report prepared by the OAG.

**Please provide your email response to:**

Email: Comptroller General's Office of the Government of British Columbia [Comptroller.General@gov.bc.ca](mailto:Comptroller.General@gov.bc.ca)

Email: Office of the Auditor General of British Columbia [actionplans@bcauditor.com](mailto:actionplans@bcauditor.com)

Rec. #	OAG Recommendations	Action Planned	Target Date	Assessment of Progress by Entity <sup>15</sup>	Action Taken <sup>16</sup>
5.	Consider climate change adaptation in its legislation, regulation, approvals and permitting processes.	<ol style="list-style-type: none"> <li>1. The BC Flood and Wildfire Review (Abbott and Chapman report) has delivered recommendations on how to better plan for and respond to future flood and wildfire events. EMBC will look to addressing climate change related recommendations that are connected to EMBC activities and operations.</li> <li>2. In partnership with other ministries, EMBC's Planning Branch develops, maintains and implements emergency plans that address priority hazards. EMBC intends to apply a climate adaptation lens to the ongoing review and development of applicable hazard-specific plans, starting with the update to the BC Drought Plan and the BC Flood Response Plan (see Rec #9), expected for Spring and Summer of 2018.</li> <li>3. EMBC's Disaster Mitigation Branch will require funding applications to discuss climate change adaptation as a part of its funding approval process.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fall 2019</li> <li>2. Spring-Summer 2018</li> <li>3. August 2018</li> </ol>		Current DFA funding requires proponents to rebuild per current guidelines such as the Flood Hazard Area Land Use Management Guidelines, which requires communities and individuals to consider effects of climate change and sea level rise.

**Please provide your email response to:**

Email: Comptroller General's Office of the Government of British Columbia [Comptroller.General@gov.bc.ca](mailto:Comptroller.General@gov.bc.ca)

Email: Office of the Auditor General of British Columbia [actionplans@bcauditor.com](mailto:actionplans@bcauditor.com)

Rec. #	OAG Recommendations	Action Planned	Target Date	Assessment of Progress by Entity <sup>15</sup>	Action Taken <sup>16</sup>
9.	<p>As part of their flood risk strategy:</p> <ul style="list-style-type: none"> <li>• review roles and responsibilities for flood management in the province and clarify leadership</li> <li>• set clear objectives that target areas of high priority and/or high risk</li> <li>• link funding allocations to areas of high priority and/or high risk</li> <li>• assess current capacity to meet objectives and identify and fill gaps</li> <li>• tie flood mitigation funding for local governments to commitments to address risk at the local level</li> </ul>	<ol style="list-style-type: none"> <li>1. EMBC will be providing approximately \$1M in funding to the Fraser Basin Council to develop a regional flood management strategy for the lower mainland. Phase 2 is expected to be completed in 2019.</li> <li>2. EMBC's Disaster Mitigation Branch (DMB) evaluates project applications for flood mitigation funding programs such as the National Disaster Mitigation Program (~\$75M) and the Community Emergency Preparedness Fund (~\$23M). As part of its evaluation process, DMB will develop evaluation criteria to tie flood mitigation funding for local governments to commitments to address risk at the local level.</li> <li>3. EMBC is leading the update to the BC Flood Response Plan, which will clarify roles &amp; responsibilities for flood response in a changing climate.</li> </ol>	<ol style="list-style-type: none"> <li>1. December 2019</li> <li>2. August 2018</li> <li>3. Fall 2018</li> </ol>		<p>Phase 1 of Flood Risk Strategy completed April, 2018. Phase 2 underway</p>

Please provide your email response to:

Email: Comptroller General's Office of the Government of British Columbia [Comptroller.General@gov.bc.ca](mailto:Comptroller.General@gov.bc.ca)

Email: Office of the Auditor General of British Columbia [actionplans@bcauditor.com](mailto:actionplans@bcauditor.com)

Rec. #	OAG Recommendations	Action Planned	Target Date	Assessment of Progress by Entity <sup>15</sup>	Action Taken <sup>16</sup>
10.	<p>Create a flood plain and hazard mapping program that:</p> <ul style="list-style-type: none"> <li>incorporates the effects of climate change and land-use change</li> <li>provides mapping standards with ongoing updates</li> <li>has expertise available for local governments to draw upon</li> </ul>	<p><u>Background</u> – Legislative changes in 2003 and 2004 transferred responsibility for developing flood and hazard maps from the province to local governments. Since then, the role of the province has been to provide guidelines for local governments to consider, technical support, and funding when it becomes available. FLNRO, GeoBC, and EMBC have technical expertise that local governments can draw upon when developing flood hazard maps.</p> <ol style="list-style-type: none"> <li>EMBC’s Disaster Mitigation Branch (DMB) evaluates project applications for flood mitigation funding programs such as the National Disaster Mitigation Program (NDMP) and the Community Emergency Preparedness Fund. As part of the application process, DMB will develop a supplemental questionnaire asking proponents how the effects of climate change will be incorporated into flood mitigation projects, including those projects that propose to develop flood and hazard mapping.</li> <li>Current mapping guidelines will be reviewed every 10 years (or when substantial new science dictates) to ensure effects of climate change are properly considered.</li> <li>Through funding support from EMBC, GeoBC is conducting and assisting with Light Detection and Ranging (LIDAR) mapping for Vancouver Island, the Lower Mainland, the Okanagan, and the Kootenays.</li> <li>EMBC is advocating for a federally funded floodplain and hazard mapping program.</li> </ol>	<ol style="list-style-type: none"> <li>August 2018</li> <li>Ongoing</li> <li>Fall 2019</li> <li>Ongoing</li> <li>Ongoing</li> </ol>		<ol style="list-style-type: none"> <li>In 2018, FLNRORD published an amendment to the <a href="#">Flood Hazard Area Land Use Management Guidelines</a> to assist local governments in defining sea level rise planning areas.</li> <li>In 2017, Engineers and Geoscientists BC (with support from the Province) published <a href="#">Professional Practice Guidelines for Flood Mapping in BC</a>. This document requires professionals to consider the effects of climate change when preparing flood maps.</li> <li>In 2011, FLNRORD published <a href="#">Coastal Floodplain Mapping Guidelines and Specifications</a> to help coastal communities account for climate change (i.e. sea level rise) when mapping their floodplains.</li> <li>GeoBC has developed LIDAR mapping standards. LIDAR mapping is an important precursor to flood mapping.</li> <li>EMBC stresses the need for floodplain and hazard mapping at FPT meetingsmapping is an important precursor to flood mapping.</li> </ol>

Please provide your email response to:

Email: Comptroller General’s Office of the Government of British Columbia [Comptroller.General@gov.bc.ca](mailto:Comptroller.General@gov.bc.ca)

Email: Office of the Auditor General of British Columbia [actionplans@bcauditor.com](mailto:actionplans@bcauditor.com)