

AMENDED PROPOSED SOURCE PROTECTION PLAN: CTC Source Protection Region

Policy ID	Threat Description	Implementing Body	Legal Effect	Policy	Where Policy Applies	When Policy Applies	Related Policies	Monitoring Policy
DEM-1	An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body	MOECC	C	<p>Prescribed Instrument (PTTW Policies in WHPA-Q1 Local Areas with Quantity-related Significant-Drinking Water <u>Quantity</u> Threats)</p> <p>Within the Tier 3 Water Budget WHPA-Q1 Local Area identified as having where a water taking is or would be a significant water quantity threats the Ministry of the Environment <u>and Climate Change</u> shall ensure each water taking threat ceases to be, or does not become significant, through actions the Director considers appropriate on a case by case basis, such as:</p> <ol style="list-style-type: none"> 1) Reviewing all existing Permits To Take Water (<u>PTTW</u>), <u>located within WHPA-Q1 with a significant risk level</u>, in consultation with the <u>other Ministries (as required)</u> Ministry of Natural Resources, the affected municipality, and relevant conservation authorities, <u>and permit holders</u>, and amend the permits where necessary to ensure: <ol style="list-style-type: none"> a) that municipal water supply requirements for the <u>allocated and planned quantity current and planned service capacity</u> (per the current approved population <u>and employment</u> projections of the most recent Growth Plan for the Greater Golden Horseshoe) will be met on a sustainable basis; and b) that the ecological and hydrological integrity of <u>municipal wells in the vulnerable areas</u> key hydrologic features, functions and aquatic systems in the Local Area will be maintained. 2) Issuing Permits To Take Water for new or increased takings, <u>located within WHPA-Q1 with moderate or significant risk levels</u>, only if it can be satisfactorily demonstrated, using <u>the findings of the most recently approved Tier 3 Water Budget Model and other available data</u>, where appropriate, that the taking: <ol style="list-style-type: none"> a) can be maintained on a sustainable basis; b) will not affect the ability of the aquifer to meet the municipal water supply requirements for the current and planned service capacity, or interfere with other permitted takings; and c) will ensure the ecological and hydrological integrity of <u>municipal wells</u> key hydrologic features, functions and aquatic systems will be maintained. 	<p><u>Existing & Future: WHPA-Q1 with a significant risk level</u></p> <p><u>See Maps 3.1 3.2</u></p> <p><u>Future: WHPA-Q1 with a moderate risk level</u></p> <p><u>See Maps 3.3 3.4</u></p> <p><u>Local Area A (as identified in Tier 3 Water Budget)</u></p> <p><u>See Map 3.1</u></p>	<p>Future: Immediately (T-3)</p> <p>Existing: 3 years (T-1)</p>	<p>GEN-35 <u>DEM-2</u> <u>DEM-8</u></p>	MON-4

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DEM-2	An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body	Planning Approval Authority	A	<p>Land Use Planning (Planning Policies in Local Areas <u>WHPA-Q1</u> with <u>Quantity-related Significant Drinking Water Quantity Threats</u>)</p> <p>Within the Orangeville, Mono and Amaranth Tier 3 Water Budget <u>WHPA-Q1 Local Area</u> where a water taking is or may be identified as having significant water quantity threats the relevant Planning Approval Authority shall ensure water taking does not become a significant drinking water threat by:</p> <p>1) Only permitting new development <u>if the new development does not require a new or amended PTTW; or site alteration that requires new or increased water takings beyond the planned future service capacity if the following applies:</u></p> <p>a) the development or site alteration is minor as determined per the Planning Approval Authority, including not requiring a new/amended PTTW; or b) it can be satisfactorily demonstrated that the increase in demand can be accommodated on a sustainable basis; and c) the ecological and hydrological integrity of key hydrologic features, functions and aquatic systems will be maintained and will not become a significant drinking water threat.</p> <p>2) <u>Only providing final approval for new development that requires a new or amended PTTW once the Ministry of the Environment and Climate Change has determined that the proposed taking will not become a significant water quantity threat;</u> In relation to clause 1 b) above, where it is deemed necessary to require demonstration that an increase in water demand associated with a planning application can be accommodated on a sustainable basis, require submission of a satisfactory detailed assessment, using the Orangeville, Amaranth and Mono Tier 3 Water Budget Model where appropriate, to ensure that:</p> <p>a) the increased taking will not adversely impact the aquifer's ability to meet the municipal water supply requirements for current and planned service capacity, or for other permitted takings; and b) the ecological and hydrological integrity of key hydrologic features, functions and aquatic systems will be maintained.</p> <p>3) Only approving settlement area expansions <u>within WHPA-Q1</u> as part of a municipal comprehensive review where the applicable provincial planning criteria have been met and the following has been demonstrated:</p> <p>a) the aquifer has sufficient capacity to sustainably provide municipal water services to the expanded settlement area;</p>	<p><u>Existing & Future: WHPA-Q1 with a significant risk level</u></p> <p><u>See Maps 3.1 3.2</u></p> <p><u>Future: WHPA-Q1 with a moderate risk level</u></p> <p><u>See Maps 3.3 3.4</u></p> <p><u>Local Area A (as identified in Tier 3 Water Budget for Orangeville, Amaranth and Mono)</u></p> <p><u>See Map 3.1</u></p>	<p>Future: Immediately (T-9)</p> <p>Amend OPs and ZBLs for conformity within 5 years <u>and ZBLs within 3 years of OP approval</u> (T-8)</p>	<p><u>N/A DEM-1</u></p>	MON-1

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				b) the expansion will not adversely impact the aquifers ability to meet the municipal water supply requirements for current and planned service capacity, for other permitted takings, or for wastewater receiving bodies; and c) the ecological and hydrological integrity of <u>municipal wells</u> key hydrologic features, functions and aquatic systems will be maintained, such that there will no longer be or there does not become a significant drinking water threat.				

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DEM-3	An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body	MMAH MOI MOECC	K	<p>Specify Action (Growth Management/Planning Ministries to Review Growth in <u>WHPA-Q1 Local Areas</u> with <u>Quantity-related</u> Significant <u>Drinking Water Quantity</u> Threats)</p> <p>Within a Tier 3 Water Budget <u>vulnerable areas Local Area</u> identified as having significant water quantity threats the Provincial Ministries specified below should<u>shall</u> undertake the following to ensure <u>the provision and distribution of water supply for municipal population and employment growth forecasts does not create a new or increase an existing significant water quantity threat: municipal population growth forecasts and distributions are sustainable based on available water systems:</u></p> <p>1) The Ministry of Municipal Affairs and Housing <u>in consultation with the Ministry of the Environment and Climate Change and any affected municipalities should</u>shall use the Tier 3 <u>Water Budget information and other data available</u>, to ensure that municipal Official Plan growth forecasts and distributions, <u>in consultation with the Ministry of Environment and relevant municipalities</u> will not <u>result in creating or worsening</u>become a significant <u>drinking water quantity</u> threat, given water quantity constraints identified in Tier 3 Water Budget model areas; and</p> <p>2) The Ministry of <u>Municipal Affairs and Housing Infrastructure</u> shall <u>should</u> take into consideration water quantity constraints identified through Tier 3 water budgets, <u>and other data available</u>, during its review of the population forecasts contained in the Growth Plan for the Greater Golden Horseshoe, in consultation with relevant municipalities.</p>	<p><u>Existing & Future:</u> <u>WHPA-Q1 with a significant risk level</u></p> <p><u>See Maps 3.1 3.2</u></p> <p><u>Future:</u> <u>WHPA-Q1 with a moderate risk level</u></p> <p><u>See Maps 3.3 3.4</u></p> <p><u>Local Area A (as identified in Tier 3 Water Budget for Orangeville, Amaranth and Mono)</u> <u>See Map 3.1</u></p>	<p><u>Existing & Future:</u> <u>Consider within 2 years (T-15)</u></p>	<p><u>DEM-8 N/A</u></p>	MON-4

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DEM-4	An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body	Municipality	E	<p>Specify Action (Municipal Water Conservation Plans)</p> <p>Municipalities responsible for <u>the production, treatment, and storage of water, who have a municipal well and/or whose residents are served by a municipal water supply</u> supplying water within the Tier 3 Water Budget <u>WHPA-Q1 Local Area</u> shall develop and/or update Water Conservation Plans to ensure they are an effective tool to support sustainable water quantity by reducing consumption and therefore the demand for water.</p>	<p><u>Existing & Future:</u> <u>WHPA-Q1 with a significant risk level</u> <u>See Maps 3.1 3.2</u></p> <p><u>Future:</u> <u>WHPA-Q1 with a moderate risk level</u> <u>See Maps 3.3 3.4</u></p> <p><u>Local Area A (as identified in Tier 3 Water Budget for Orangeville, Amaranth and Mono)</u> <u>See Map 3.1</u></p>	<p><u>Existing & Future:</u> <u>Initiate within 2 years (T-16)</u></p>	N/A	MON-1

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Policy ID	Threat Description	Implementing Body	Legal Effect	Policy	Where Policy Applies	When Policy Applies	Related Policies	Monitoring Policy
DEM-5	An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body	Municipality	E	<p>Education and Outreach</p> <p>Municipalities responsible for <u>the production, treatment and storage of water and/or jurisdictional lands supplying water</u> within a Tier 3 Water Budget <u>WHPA-Q1 Local Area</u> identified as having significant water quantity threats shall undertake the following education and outreach initiatives to help ensure water supplies are protected and increase the effectiveness of water conservation efforts in their jurisdictions to reduce consumption and therefore demand <u>by</u>:</p> <p>1) Develop and implement <u>ing</u> education and outreach programs to ensure that property owners and businesses <u>are aware of understand</u>:</p> <ul style="list-style-type: none"> a) their role in protecting water supplies and conserving water; b) actions that can be taken to protect water supplies and use less water; and c) financial incentive programs and projects that may be eligible for funding under future funding of the Ontario Drinking Water Stewardship Program; or <p>2) <u>Reviewing</u> any similar programs that may already exist and update them where necessary to ensure their effectiveness.</p>	<p><u>Existing & Future: WHPA-Q1 with a significant risk level</u></p> <p><u>See Maps 3.1 3.2</u></p> <p><u>Local Area A (as identified in Tier 3 Water Budget)</u></p>	<p><u>Existing & Future: Implement within 2 years (T-10)</u></p>	<p>GEN-86</p>	<p>MON-1</p>
		MOECC	K	<p><u>3) The Ministry of the Environment and Climate Change should provide municipalities with a list of appropriate education and outreach materials that provide information and guide actions that can be taken to reduce the usage of drinking water for delivery by the municipality.</u></p>	<p><u>See Map 3.1</u></p>		<p>MON-4</p>	

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DEM-6	An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body	Municipality	E	<p>Specify Action (Joint Municipal Water Management)</p> <p>The Dufferin County municipalities that share a water source within a Tier 3 Water Budget WHPA-Q1 Local Area identified as having significant water quantity threats shall develop a Joint Municipal Water Supply Management model, and implement within 3 years of approval of the Source Protection Plan. This management model shall facilitate the planning and management of water supply sources to ensure sustainability of a long term water supply in each municipality and ensure that water quality and quantity is maintained or improved such that activities cease to be, or do not become, significant drinking water threats in the WHPA-Q1 Local Area-A. The municipalities shall report to MOECC and MMAH, on the options and proposed management model within 1 year of the approval of the Source Protection Plan.</p>	<p>WHPA-Q1 with a significant risk level Local Area-A (as identified in Tier 3 Water Budget for (Orangeville, Amaranth, East Garafraxa and Mono) See Map 3.1</p>	See Policy	N/A DEM-7	MON-1
DEM-7	An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body	MOECC	K	<p>Specify Action (Province to Support Joint Municipal Water Management System or Authority)</p> <p>The Ministry of the Environment <u>and Climate Change</u>, in collaboration with <u>the Ministry of Municipal Affairs and Housing and</u> other affected provincial ministries and other agencies, as required, should initiate meetings with the <u>Dufferin County</u> municipalities that <u>share a water source within a Tier 3 WHPA-Q1</u> are wholly or partially within the Orangeville, Mono and Amaranth Tier 3 Local Area identified as having significant water quality and quantity threats, <u>to support the municipalities</u> in developing mutually beneficial solutions to address water quantity and quality constraints within 1 year of approval of the Source Protection Plan, to support the municipalities. And further, the MOECC should provide technical support to the municipalities.</p>	<p>WHPA-Q1 with a significant risk level Local Area-A (as identified in Tier 3 Water Budget for (Orangeville, Amaranth, East Garafraxa and Mono) See Map 3.1</p>	See Policy	N/A DEM-6	MON-4

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DEM-8	An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body	MOECC	K	<p>Specify Action (MOECC to Adopt and Fund Maintenance of the Tier 3 Water Budget Model)</p> <p>The Ministry of the Environment <u>and Climate Change</u> should adopt and fund a Tier 3 Water Budget Model <u>in a WHPA-Q1 for each Local Area</u> identified as having <u>a moderate or significant risk level</u>significant water quantity threats and undertake the following to ensure it is maintained as the primary model to review existing and future PTTWs, to allow municipalities and other Provincial Ministries (i.e., Ministry of Municipal Affairs and Housing and Ministry of Infrastructure) to evaluate growth projections and distributions, and to facilitate the review of planning applications by municipalities where necessary to ensure that these activities <u>cease to be, or</u> do not become significant drinking water threats:</p> <ol style="list-style-type: none"> 1) Through the Permit To Take Water program, require municipal takers in <u>WHPA-Q1 Local Areas identified as having significant water quantity threats</u> to monitor water quantity and supply data on a regular basis to assist in the upkeep of the model <u>to determine any increase or reduction in significant water quantity threats</u>; 2) <u>Use</u>Run the model <u>with</u>using the most up to date data <u>as an analysis and decision making tool, to analyze its predictions for water quantity issues and make necessary refinements to the model on an ongoing basis</u>; and 3) <u>When necessary, c</u>Contribute to funding for new continuous flow gauging stations in key surface water features and enhance conservation authorities existing Hydrometric Network in <u>the WHPA-Q1 Local Area</u> to monitor long term trends in surface water quantity, study impacts of urbanization and climate change on aquifer recharge, and facilitate calibration of the model. 	<p><u>WHPA-Q1 with a moderate or significant risk level</u></p> <p><u>See Maps 3.1 3.2 3.3 3.4 Local Area A (as identified in Tier 3 Water Budget) See Map 3.1</u></p>	<p><u>Existing & Future: Consider within 2 years (T-15)</u></p>	<p><u>DEM-1 DEM-3 N/A</u></p>	MON-4

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Policy ID	Threat Description	Implementing Body	Legal Effect	Policy	Where Policy Applies	When Policy Applies	Related Policies	Monitoring Policy
DEM-9	An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body	Municipality	E	<p>Specify Action (Identifying Additional Water Supplies)</p> <p>Municipalities <u>located</u> within a Tier 3 Water Budget <u>WHPA-Q1 with a significant risk level</u> Local Area identified as having significant water quantity threats are encouraged to identify additional water sources outside of the WHPA-Q1 Local Area to reduce demand from well systems which have been identified with significant water quantity stress and to report to the Source Protection Authority within 3 years on their progress.</p>	<p><u>WHPA-Q1 with a significant risk level</u></p> <p><u>See Maps 3.1 3.2</u></p> <p>Local Area A (as identified in Tier 3 Water Budget) <u>See Map 3.1</u></p>	See Policy	N/A	MON-1
DEM-10	<u>An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body</u>	<u>Municipality</u>	<u>E</u>	<p><u>Specify Action</u></p> <p><u>York Region shall develop and implement a drought management plan using the Tier 3 water quantity risk assessment findings and modelling tool to prevent consumptive demand from becoming significant.</u></p>	<p><u>Future: WHPA-Q1 with a moderate risk level</u></p> <p><u>See Map 3.4</u></p>	<u>Existing & Future: Immediately (T-18)</u>	<u>N/A</u>	<u>MON-1</u>

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Policy ID	Threat Description	Implementing Body	Legal Effect	Policy	Where Policy Applies	When Policy Applies	Related Policies	Monitoring Policy
REC-1 (Part 1)	An activity that reduces recharge to an aquifer	Planning Approval Authority	A	<p>Land Use Planning (Planning Policies for Protecting Groundwater Recharge)</p> <p>For applications under the Planning Act W within the Orangeville, Mono and Amaranth Tier 3 Water Budget WHPA-Q2 Local Area identified as having significant water quantity threats, the relevant Planning Approval Authority shall ensure recharge reduction ceases to be, or does not become a significant drinking water threat by:</p> <p>1) Requiring new development for lands zoned Low Density Residential (excluding subdivisions) or zoned Agricultural to implement best management practices such as Low Impact Development (LID) with the goal to maintain predevelopment recharge. Only permitting new development and site alteration that has the potential to reduce recharge to an aquifer under the following conditions:</p> <p>a) the development or site alteration is minor in nature per the following:</p> <p style="padding-left: 20px;">i) if development and/or site alteration occurs on lands outside of the Settlement Area, that the activity will increase lot imperviousness to no greater than total of 10%; or</p> <p style="padding-left: 20px;">ii) if development and/or site alteration occurs on lands within Settlement Area by requiring implementation of Best Management Practices such as Low Impact Development (LID) to maintain post development recharge.</p> <p>b) In the case of development/site alteration that is not minor, it can be demonstrated through submission of a satisfactory hydrogeological study that recharge functions will be maintained and current PTTW allocations can be sustained, and the ecological and hydrological integrity of key hydrologic features, functions and aquatic systems will be maintained. The assessment of Hydrogeological impacts should consider the use of the Orangeville, Mono and Amaranth Tier 3 Water budget Model where appropriate.</p> <p><i>(REC-1 Parts 2-4 on next page)</i></p>	<p>Future: WHPA-Q2 with a significant risk level</p> <p>See Maps 3.1 3.2</p> <p>Future: WHPA-Q2 with a moderate risk level</p> <p>See Maps 3.3 3.4</p> <p>Local Area A (as identified in Tier 3 Water Budget for Orangeville, Amaranth and Mono)</p> <p>See Map 3.1</p>	<p>Future: Immediately (T-9)</p> <p>Amend OPs and ZBLs for conformity within 5 years and ZBLs within 3 years of OP approval (T-8)</p>	N/A	MON-1

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<p>REC-1 (Parts 2-4)</p>	<p>An activity that reduces recharge to an aquifer</p>	<p>Planning Approval Authority</p>	<p>A</p>	<p><u>2) Requiring that that all site plan (excluding an application for one single family dwelling) and subdivision applications for new residential, commercial, industrial and institutional uses provide a water balance assessment for the proposed development to the satisfaction of the Planning Approval Authority which addressed each of the following requirements:</u></p> <p><u>a) maintain pre-development recharge to the greatest extent feasible through best management practices such as LID, minimizing impervious surfaces, and lot level infiltration; and</u></p> <p><u>b) where pre-development recharge cannot be maintained on site, implement and maximize off-site recharge enhancement (within the same WHPA-Q2) to compensate for any predicted loss of recharge from the development,</u></p> <p><u>c) for new development (excluding a minor variance)-within the WHPA-Q2 and within an ICA (for sodium, chloride or nitrates), the water balance assessment shall consider water quality when recommending best management practices and address how recharge will be maintained and water quality will be protected.</u></p> <p><u>2) Require the use of low impact development guidelines and techniques for managing urban storm water in support of new development and site alteration to ensure that the following criteria are met:</u></p> <p><u>e) impervious surfaces are minimized;</u></p> <p><u>d) water balance on the site is managed such that pre-development rates of infiltration of clean water are maintained in the post-development state to the extent feasible;</u></p> <p><u>e) lot conveyance and/or end-of pipe storm water management measures are used that emphasize lot level infiltration of clean water wherever appropriate;</u></p> <p><u>f) where water balance cannot be achieved on the development site, off-site compensation opportunities are explored and implemented where feasible; and</u></p> <p><u>g) where sodium and chloride have been identified as "issues", no further degradation of water quality by salt run-off infiltration shall occur.</u></p> <p><u>3) Only approving settlement area expansions as part of a municipal comprehensive review where it has been demonstrated that recharge functions and surface water flow regimes will be maintained on lands designated significant groundwater recharge areas within <u>WHPA-Q2</u> Local Area A.</u></p> <p><u>4) Amending municipal planning documents to reference most current Assessment Reports in regards to the significant groundwater recharge areas within WHPA-Q2.</u></p>	<p><u>Future: WHPA-Q2 with a significant risk level</u></p> <p><u>See Maps 3.1 3.2</u></p> <p><u>Future: WHPA-Q2 with a moderate risk level</u></p> <p><u>See Maps 3.3 3.4</u></p> <p><u>Local Area A (as identified in Tier 3 Water Budget for Orangeville, Amaranth and Mono)</u></p> <p><u>See Map 3-1</u></p>	<p>Future: Immediately (T-9)</p> <p>Amend OPs and ZBLs for conformity within 5 years and ZBLs within 3 years of OP approval (T-8)</p>	<p>N/A</p>	<p>MON-1</p>
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Policy ID	Threat Description	Implementing Body	Legal Effect	Policy	Where Policy Applies	When Policy Applies	Related Policies	Monitoring Policy
REC-2	An activity that reduces recharge to an aquifer	RMO	H	<p>Part IV, s.58</p> <p><u>When a Building Permit that is not subject to a site specific Planning Application (excluding lands zoned Low Density Residential) located within a Tier 3 Water Budget WHPA-Q2, identified as having a significant risk level, an activity that reduces the recharge to an aquifer is designated for the purpose of s.58 under the Clean Water Act as, requiring a risk management plan where the threat would be significant.</u></p> <p><u>Without limiting other requirements, risk management plans shall require implementation of downspout disconnections and other best management practices to increase infiltration of clean water whenever modifications, additions or renovations are undertaken at existing properties or in new development with the goal of restoring or maintaining pre-development recharge.</u></p>	<p><u>Future: WHPA-Q2 with a significant risk level</u></p> <p><u>See Maps 3.1 3.2</u></p>	<p><u>Future: Immediately (T-7)</u></p>	<p><u>GEN-1</u> <u>GEN-2</u></p>	<p><u>MON-2</u></p>
REC-3	An activity that reduces recharge to an aquifer	Municipality	E	<p>Specify Action</p> <p><u>Within a Tier 3 Water Budget WHPA-Q2 with a significant risk level, the municipality shall develop and implement actions to be taken and an implementation schedule, to ensure that an activity which reduces aquifer recharge ceases to be a significant water quantity threat.</u></p> <p><u>Such actions may include:</u></p> <p><u>a) reviewing options to maximize aquifer recharge;</u></p> <p><u>b) delivering an education and outreach program to inform property owners about actions that can be taken to protect aquifer recharge (e.g., site grading, rain gardens). The program may include incentives (such as rebates) to encourage best management practices;</u></p> <p><u>c) requiring the use of Low Impact Development in new development or retrofits; and</u></p> <p><u>d) passing a by-law to require downspout disconnection.</u></p>	<p><u>Existing: WHPA-Q2 with a significant risk level</u></p> <p><u>See Maps 3.1 3.2</u></p>	<p><u>Existing: Implement within 2 years (T-17)</u></p>	<p><u>GEN-8</u></p>	<p><u>MON-1</u></p>
		MOECC	K	<p><u>The Ministry of the Environment and Climate Change should provide municipalities with a list of appropriate education and outreach materials that provide information and guide to actions that can be taken to protect aquifer recharge for delivery by the municipality.</u></p>				<p><u>MON-4</u></p>