GENERAL INSTRUCTIONS FOR EXCEL TEMPLATE:

- 1. Do not leave blank rows above or between comments.
- 2. Do not modify or delete the instructions or the column headings (i.e. the grey areas).
- 3. Each comment must have an associated topic and recommendation.
- 4. All formatting (i.e. bullets) will be lost when this file is uploaded to the Online Comment Table.
- 5. If necessary, adjust the cell width and height in order to view all text.
- 6. Cutting and pasting comments from WORD documents cannot include hard returns (spaces between paragraphs).
- 7. If you would like to create paragraphs within a single cell, please use a proper carriage return (ALT & ENTER).

TOPIC	COMMENT	RECOMMENDATION
Be as specific as you think is appropriate; for example a section or page of the document, a recommendation #, general comment, etc.	Comments should contain all the information needed for the proponent and the Board to understand the rationale for the accompanying recommendation.	Recommendations can be for the proponent or for the Board. Recommendations should be as specific as possible, relating the issues raised in the "comment" column to an action that you believe is necessary.

Item Number	Topic	Comment	Recommendation
1	Biota Reporting	Reporting of effects on phytoplankton,	DDEC should continue to report its AEMP
		zooplankton and benthic communities	biological sampling and analyses in a
		have been merged into a single biology	single section for each watershed.
		section for each watershed under the	
		AEMP to provide a better discussion on	
		linkages between water quality and	
		quantity and potential biotic effects.	
		The Agency believes this is a positive	
		change to biota reporting in the AEMP.	

Item Number	Topic	Comment	Recommendation
2	Zooplankton community	The Agency has been tracking a decline	The WLWB should direct DDEC to conduct
	changes	in cladocera , a formerly abundant class	a special study to: (a) determine the
		of zooplankton, in Moose Lake. This	causes of the changes in zooplankton
		trend continues, but stretches into the	communities; and (b) determine how
		next downstream water body, Nema	these changes in zooplankton community
		Lake. For the first time another major	structure may affect fish abundance and
		zooplankton taxa, rotifers, seems to be	fish health.
		disappearing from the zooplankton	
		community. Both cladocera and rotifers	
		are being replaced by copepods as the	
		dominant taxa (see 2014 AEMP p. 3-	
		129 to 3-130). Now that a second	
		taxonomic group of zooplankton has	
		declined in impacted lakes, a special	
		study is warranted to determine cause	
		of the decline of two important	
		components of the zooplankton	
		community — rotifers and cladocera —	
		as well as potential effects up the food	
		chain to fish. The AEMP report authors	
		point to nutrification and its effects on	
		competitive advantage to various	
		zooplankton taxa (2014 AEMP p.3-166).	
		The Agency wonders whether	
		increasing levels of major ions,	
		particularly potassium, may also play	
		an equal or larger role (see 2014 AEMP	
		p. 3-95). A more scientifically rigorous	
		approach to determine the likely	
		drivers of this zooplankton community	
		change is needed.	

Item Number	Topic	Comment	Recommendation
3	Potassium Response Plan	Potassium has now above Site-Specific Water Quality Objectives (SSWQO) in parts of the Koala watershed. AEMP reports have shown declines in Cladocera in lakes downstream of LLCF for a number of years. These changes are attributable to significant declines in <i>Holopedium</i> rather than <i>Daphnia</i> which is the species generally used for toxicity testing. DDEC conducts toxicity testing as part of its Potassium Response Plan. Toxicity tests would be more relevant to Ekati if <i>Holopedium</i> were used as the test Cladocera species alongside the more commonly tested <i>Daphnia</i> .	DDEC should consider using Holopedium in addition to Daphnia in its toxicity testing under the Potassium Response Plan.
4	Additional AEMP stations in Lac de Gras	Seven water quality parameters at Lac de Gras north arm stations S2 and S3 have now become slightly elevated. It is important that discharges from the Koala watershed be tracked along the total length of the north arm before it enters the main body of Lac de Gras. There appears to be a need to incorporate temporary stations S5 and S6 into the annual AEMP so that mine-influenced water quality changes can be properly monitored into Lac de Gras.	The WLWB should direct DDEC to establish and operate AEMP stations S5 and S6 to monitor water and sediment quality and report on the results in the annual AEMP reports beginning as soon as possible.