



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

Checklist for a 319 Approved Watershed Management Plan

Watershed: _____

Submitted by: _____ Date Submitted: _____

A. Identification of the causes and sources of impairment or threats to the waterbody

Review Criteria	Page(s)	Comment
1. Water body use designations (from relevant Water Quality Standards) are listed for waters in the planning area		
2. Water quality criteria (from relevant Water Quality Standards) for the use designations are cited		
3. Impaired, partially impaired, and/or impacted uses (from state 303[d] or integrated report) are listed by water segment or area		
4. Specific causes and sources (303[d]) of impairments and/or impacts (if applicable) are listed by waterbody segment or area		
5. Causes of impairment (or impacts) are listed as loads, WQC exceedance amounts/ percentages, or via other quantifiable method		
6. Sources of impairments/impacts (if applicable) are mapped or identified by area, category/subcategory, facility type, etc.		
7. Contributions from each source location or category is quantified by load, percentage, priority, or other method		
8. Estimates, assumptions, or data used in the analysis is presented or cited and appears reasonable		

B. Estimate of the load reductions expected from the proposed management measures

Review Criteria	Page(s)	Comment
1. Load reductions needed to address each impairment and threat (if applicable) are listed, and are quantified by weight, concentration, percentage reduction needed, etc.		
2. Listed load reduction estimates are linked to each cause and source location or category		
3. Load reductions will achieve water quality criteria, address threats (if applicable), or achieve other goals		
4. Estimates, assumptions, or data used in the analysis are presented or cited and appear reasonable		

C. Description of the management measures needed to achieve the proposed load reductions

Review Criteria	Page(s)	Comment
1. Water quality and other watershed goals are listed for each water body segment in the planning area		
2. Management measures needed to address each cause and source of pollution or impairment (or threat) are listed, described, and prioritized		
3. Proposed management measures are applicable to causes and sources and are feasible		
4. Critical locations or high-priority sites for each management measure are mapped or described		
5. Load reductions linked to each management measure are listed and quantified via reasonable estimates		
6. Estimates, assumptions, or data used in the analysis is presented or cited and appear reasonable		

D. Estimate of the amount of technical, financial, and regulatory assistance needed

Review Criteria	Page(s)	Comment
1. General type and amount of technical assistance needed to implement the management measures are listed		
2. Actual or potential/possible sources of the needed technical assistance are identified		
3. Overall costs for implementing, operating, and maintaining the management measures are estimated and listed		
4. Possible/potential sources of financial assistance needed to implement the management measures are listed		
5. Regulatory or other authorities responsible for (or needed) to implement the management measures are listed; entities exercising the regulatory or other authorities are identified		

E. Public information, education, and participation

Review Criteria	Page(s)	Comment
1. Information, education, and public participation goals and objectives for the management program are listed		
2. An overall strategy or plan for the public information, education, and participation component is provided. This includes target audience(s), message(s), delivery mechanism(s), cost, evaluation criteria, and is tied to relevant pollutants identified in the plan.		

F. Reasonably expeditious schedule for implementation

Review Criteria	Page(s)	Comment
1. An overarching timeline or schedule showing projected dates for developing and implementing each management measure is presented		
2. The timeline or schedule indicates the actions, steps, or accomplishments associated with implementing the management measures in the plan		
3. The timeline or schedule follows a logical sequence for implementing the management measures		
4. The timeline or schedule lists short-term (up to 3 years) and long-term (up to 10 or more years) implementation steps		

G. Interim measurable milestones for implementing the management measures

Review Criteria	Page(s)	Comment
1. A list of reasonable and attainable interim milestones, benchmarks, phases, or steps for implementing each group of management measures or control actions is provided		
2. A logical sequence of dates for achieving the milestones, benchmarks, phases, or steps is listed		

H. Criteria to determine whether or not load reductions are being achieved

Review Criteria	Page(s)	Comment
1. Criteria are identified that are linked to the causes and/or sources of impairments/threats (if applicable)		
2. The listed criteria include numeric and/or narrative water quality criteria, instream physical habitat assessment criteria, or other criteria linked to the causes/sources		
3. Listed criteria include those incorporated into any TMDLs developed or to be developed for waterbodies addressed by the plan		
4. Provisions for reviewing progress and revising the plan or any TMDLs involved are addressed		

I. Monitoring component to evaluate the effectiveness of implementation

Review Criteria	Page(s)	Comment
1. An approach for establishing monitoring sites or procedures and relevant parameters is provided, or procedures for acquiring and reviewing other monitoring data is described		
2. Non-environmental monitoring parameters are clearly identified and provide a reasonable yardstick for measuring progress toward implementing the management measures		
3. Monitoring parameters include the criteria identified in (h) and the milestones, benchmarks, phases, or steps cited in (g) above		
4. Frequency of monitoring or schedules for assessing implementation progress is included in the plan		
5. Parties responsible for implementing the monitoring program are listed		
6. Quality Assurance Project Plans for water quality parameters are referenced or cited, if appropriate		

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