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## CHAPTER NINE: EPA NINE REQUIRED ELEMENTS

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Beginning with FY03 grants, the United States Environmental Protection Agency (EPA) requires all implementation, demonstration, and outreach-education projects funded under Section 319 of the federal Clean Water Act to be supported by a Watershed Plan which includes the following nine listed elements. To be eligible for Section 319 funding watershed plans must address all nine elements. The nine EPA required elements, and the location of the plan component addressing these elements are listed below.

### EPA Nine Required Elements

- A. An identification of the causes and sources or groups of similar sources that will need to be controlled to achieve the load reductions estimated in this watershed-based plan (and to achieve any other watershed goals identified in the watershed-based plan), as discussed in item (b) immediately below. Sources that need to be controlled should be identified at the significant subcategory level with estimates of the extent to which they are present in the watershed (e.g., X numbers of dairy cattle feedlots needing upgrading, including a rough estimate of the number of cattle per facility; Y acres of row crops needing improved nutrient management or sediment control; or Z linear miles of eroded streambank needing remediation).**
- Tables showing the causes of pollution in the watershed that will need to be controlled are found in Appendix I of the completed watershed plan.
- B. An estimate of the load reductions expected for the management measures described under paragraph (c) below (recognizing the natural variability and the difficulty in precisely predicting the performance of management measures over time). Estimates should be provided at the same level as in item (a) above (e.g., the total load reduction expected for dairy cattle feedlots; row crops; or eroded streambanks).**
- Estimates of the load reductions expected for the management measures recommended for implementation are found in Appendix I of the completed watershed plan.
- C. A description of the NPS management measures that will need to be implemented to achieve the load reductions estimated under paragraph (b) above (as well as to achieve other watershed goals identified in this watershed-based plan), and an identification (using a map or a description) of the critical areas in which those measures will be needed to implement this plan.**
- A description of the measures that are recommended for implementation to achieve the estimated load reductions can be found in the *Support Document: Thunder Bay River Watershed Initiative: Phase Two*, *Phase Two* beginning on each of the following pages:
- |                                       |    |
|---------------------------------------|----|
| Streambank recommendations:           | 1  |
| Shoreline recommendations:            | 34 |
| Road/stream crossing recommendations: | 67 |

Agricultural recommendations: 319

Maps displaying streambank erosion and road/stream crossing sites are found on pages 8-11 of the Watershed Plan. The Support Document also contains maps of areas in which load reduction measures will need to be implemented. These maps can be found on the following pages:

Hubbard Lake Erosion Sites	64
Alcona Road/stream Crossing Sites	314
Alpena Road/stream Crossing Sites	315
Montmorency Road/stream Crossing Sites	316
Oscoda Road/stream Crossing Sites	317
Presque Isle Road/stream Crossing Sites	318
Alcona Agriculture Sites	359
Alpena Agriculture Sites	360
Montmorency Agriculture Sites	361
Presque Isle Agriculture Sites	362

Measures recommended to achieve other watershed goals can be found in the *Thunder Bay River Watershed Initiative: Phase Two Watershed Plan*, Chapter 7: Goals, Objectives and Recommendations. Recommendations are listed on the following pages of the plan:

Shoreline Protection:	Page 76
Land Use Recommendations:	Page 81
Voluntary Land Protection Projects:	Page 82
General Education Recommendations:	Page 83

**D. An estimate of the amounts of technical and financial assistance needed, associated costs, and/or the sources and authorities that will be relied upon, to implement this plan. As sources of funding, States should consider the use of their Section 319 programs, State Revolving Funds, USDA's Environmental Quality Incentives Program and Conservation Reserve Program, and other relevant Federal, State, local and private funds that may be available to assist in implementing this plan.**

- Estimates of the amounts of technical and financial assistance needed and associated costs for implementation of this plan can be found in **Table 35** on page 75 of the *Thunder Bay River Watershed Initiative: Phase Two*, Chapter 7: Goals, Objectives and Recommendations.

**E. An information/education component that will be used to enhance public understanding of the project and encourage their early and continued participation**

**in selecting, designing, and implementing the NPS management measures that will be implemented.**

- The Information and Education component of the watershed management plan can be found on pages 82-85 in *Thunder Bay River Watershed Initiative: Phase Two*, Chapter 7: Goals, Objectives and Recommendations

**F. A schedule for implementing the NPS management measures identified in this plan that is reasonably expeditious.**

- A schedule for implementing the NPS management measures identified in this plan can be found in Appendix J of the watershed management plan *Thunder Bay River Watershed Initiative: Phase Two*.

**G. A description of interim, measurable milestones for determining whether NPS management measures or other control actions are being implemented.**

- Shown as bulleted items, a description of interim, measurable milestones for the implementation phase of the watershed plan can be found in Appendix J: Implementation Timeline.

**H. A set of criteria that can be used to determine whether loading reductions are being achieved over time and substantial progress is being made towards attaining water quality standards and, if not, the criteria for determining whether this watershed-based plan needs to be revised or, if a NPS TMDL has been established, whether the NPS TMDL needs to be revised.**

- Appendix K: Project Summary contains the required set of criteria.

**I. A monitoring component to evaluate the effectiveness of the implementation efforts over time, measured against the criteria established under item (h) immediately above.**

- The required monitoring component for the watershed plan can be found in *Thunder Bay River Watershed Initiative: Phase Two*, Chapter 7: Goals, Objectives and Recommendations (Table 44, page 86)