

Honeoye Lake Watershed Management Plan

Final Report – October 2007

APPENDIX L: ACTION ITEMS

High Priority Action Items

| Pollution Prevention Actions | Priority | Feasibility | Estimated Cost (\$) | Source of Funds | Responsible Agency |
|---|----------|---|---------------------|-----------------|-----------------------|
| 6.1.2: Riparian Zone Management | | | | | |
| <i>1. Conduct field survey to identify and prioritize the most severely eroding streambanks and shorelines.</i> | High | Utilize agency staff to conduct field survey. | ? | HLWTF | OCSWCD, HLWTF |
| <i>2. Where feasible, restore severely eroding streambanks and shorelines.</i> | High | Costly and difficult in many locations. Grants are possible. | ? | MUNI, OCDPW | OCSWCD |
| <i>3. Identify opportunities whereby stormwater management structures could be installed or stormwater biotreatment areas could be constructed.</i> | High | Grants are possible. | ? | MUNI, Grants | OCSWCD |
| 6.2.1: General Watershed Education | | | | | |
| <i>4. Educate residents on a “lake-friendly” lawn program to reduce nutrient input to the lake and perform survey of resident practices. Provide & promote use of zero phosphorus fertilizer.</i> | High | Cornell Cooperative Extension (CCE) and lawn care professionals may be willing to assist in this program. | \$1,000 | Grants, CCE | HVA, CCE, OCSWCD |
| <i>5. Educate riparian property owners about proper management of streambanks and shoreline to minimize erosion.</i> | High | Could be accomplished by volunteers. | \$500 | MUNI | OCSWCD, HVA |
| <i>6. Provide education for municipal officials on erosion control and stormwater management options.</i> | High | Use available OC SWCD and CCE programs. | <\$500 | Grants | OCSWCD, NYSDEC, HLWTF |

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| <i>7. Conduct training session for highway superintendents on recommended BMPs for road maintenance. Develop a written inspection and maintenance plan intended for use by highway department employees for the efficient management and maintenance of highway-related facilities.</i> | High | Use available OC SWCD program. | <\$500 | OCSWCD | OCSWCD |
| <i>8. Conduct training session for highway superintendents on recommended winter road de-icing practices.</i> | High | Use available OC SWCD program. | <\$500 | OCSWCD | OCSWCD |
| 6.3.1: Nutrients | | | | | |
| <i>9. Develop Macrophyte Management Plan according to DEC guidelines considering all forms of macrophyte management.</i> | High | Use NYS defined guidelines. | <\$1,000 | Towns of Canadice & Richmond, Grants | HLWTF, Consultant |
| <i>10. Manage excessive macrophytes with weed harvesting until the WMP is completed.</i> | High | Existing program to be enhanced. | \$75,000 per year | Towns of Canadice & Richmond, FL-LOWPA | Towns of Canadice & Richmond |
| <i>11. Expand the tributary sampling program to assess the actual contribution of streams and direct drainage areas to the lake's overall nutrient budget under baseline and storm conditions.</i> | High | This is a standard sampling program done on numerous Finger Lakes. | \$6,000 | HLWTF, Grants | HLWTF |
| <i>12. Evaluate nutrient sources from highways, shoreline and streambanks.</i> | High | The magnitude of nutrient loading from highways, shoreline, and streambanks is unknown and needs to be quantified. | \$1,500 | OC SWCD | OCSWCD, OCDPW, MUNI |

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| <i>13. Institute a monitoring program to evaluate the effectiveness and longevity of the alum treatment performed in 2006-2007.</i> | High | Use standard water quality testing. | \$1,000 per year for 5 years (\$5,000) | Towns of Canadice & Richmond, HLWTF | HLWTF |
| 6.3.3: Forestry | | | | | |
| <i>14. Adopt Timber Harvest Regulations at the town level. Require pre-harvest planning and project inspection by a trained inspector.</i> | High | Requires adoption of regulation by towns. | Time | MUNI | MUNI, HLWTF |
| 6.3.4: Streambank/Shoreline Erosion | | | | | |
| <i>15. Maintain lake outlet weir.</i> | High | Standard construction project | \$10,000 | Towns of Canadice & Richmond | Towns of Canadice & Richmond |
| <i>16. Adopt municipal land use regulations to minimize peak flows in watershed streams and avoid shoreline erosion.</i> | High | Time-consuming but lasting once in place. | ? | MUNI, Grants | MUNI |
| <i>17. Encourage development or maintenance of vegetative filter strips to protect stream corridors and shorelines.</i> | High | Costs to landowners involved but feasible. | ? | MUNI, OCDPW, Property Owner | MUNI, OCDPW |
| 6.3.5: Development | | | | | |
| <i>18. Municipalities recognize Phase II Stormwater Regulations within local laws and/or adopt the full NYS Sample Local Law to minimize erosion.</i> | High | NYS Model Local Law. | Time | MUNI | NYSDEC, G/FLRPC, OCSWCD |
| <i>19. Planning boards review of the adequacy of municipal land use regulations to minimize erosion.</i> | High | Requires action by towns in watershed. | Time | MUNI, Grants | MUNI, OCPD, HLWTF |
| <i>20. Municipalities evaluate current minimum setback and bulkhead/breakwall standards for new structures along the shoreline.</i> | High | Requires review of existing regulations by Planning Boards. | Time | MUNI | MUNI |

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| 6.3.6: Recreational Uses | | | | | |
| <i>21. Provide community education on need for a docking and mooring regulation.</i> | High | Could be used to control keyhole development and placement of docks. | Time | HLWTF | MUNI, HLWTF |

Medium Priority Action Items

| Pollution Prevention Actions | Priority | Feasibility | Estimated Cost (\$) | Source of Funds | Responsible Agency |
|--|----------|--|-----------------------------------|-----------------|--------------------|
| 6.1.1: Wetland Restoration | | | | | |
| <i>1. Inventory all wetlands in watershed to establish priorities. Restore degraded wetlands based on watershed-wide analysis of potential benefit to water quality, habitat, and hydrology.</i> | Medium | Requires technical expertise. | 20 acres per year at \$5,000/acre | OCSWCD, NYSDEC | OCSWCD |
| 6.2.1: General Watershed Education | | | | | |
| <i>2. Educate septic system owners and promote regular septic system maintenance.</i> | Medium | Direct mailing of CCE Septic System Maintenance Guide and provide periodic seminars. | \$1,000 | OCSWCD | OCSWCD, HLWTF |
| <i>3. Educate contractors, installers, and pumpers on NYS DOH design and construction standards.</i> | Medium | Through OC SWCD and Code Enforcement Association seminars. | <\$500 | OCSWCD | OCSWCD, NYSDOH |
| <i>4. Educate the public about the effect of development in floodplains.</i> | Medium | Basic information is available but needs to be distributed. | ? | ? | FLCC, SUNYESF |
| 6.2.2: Develop, Publish, and Distribute Materials | | | | | |
| <i>5. Develop and promote a “lake-friendly” lawn pesticide program.</i> | Medium | Educational materials are inexpensive and effective. | <\$500 | CCE | CCE, HVA |

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| 6.3.1: Nutrients | | | | | |
| <i>6. Investigate the condition of the 450 private wastewater (septic) treatment systems in the watershed and their role as a source of nutrients.</i> | Medium | A survey of septic system owners is required to determine type of action (educational/regulatory). | \$1,500 | OCSWCD | OCSWCD, HLWTF |
| 6.3.2: Onsite Wastewater Systems (Septic) | | | | | |
| <i>7. Develop a uniform and cooperative approach to septic system regulation and inspection in watershed municipalities.</i> | Medium | Encourage towns to adopt model “Uniform Onsite Wastewater Treatment Regulation.” | <\$500 | MUNI | MUNI, HLWTF |
| <i>24. Develop a schedule of septic system inspections for those systems within 200 feet of a lake or stream.</i> | Medium | Requires towns to adopt regulation. | Fee to owner | MUNI | MUNI, HLWTF |
| 6.3.3: Forestry | | | | | |
| <i>8. Promote participation in existing State and Federal Forest Stewardship Programs.</i> | Medium | Promotional costs only. | <\$500 | HLWTF | HLWTF |
| <i>9. Promote the use of Forest Harvest Best Management Practices (BMPs) by loggers.</i> | Medium | Cooperation with NYS DEC to promote their BMPs via training sessions. | <\$500 | NYSDEC | NYSDEC, OCSWCD |
| 6.3.4: Streambank/Shoreline Erosion | | | | | |
| <i>10. Investigate lake drainage hydrology including effects of outlet width, weir, wetlands, and other downstream issues.</i> | Medium | Will require hydrological study of the lake. | ? | ? | HLWTF, OCSWCD |

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| 6.3.5: Development | | | | | |
| <i>11. Address the congestion of development within 200 feet of the shoreline by requiring appropriate building standards.</i> | Medium | A difficult, time-consuming task without precedent in the Finger Lakes. Needs planning consultant. | \$7,500 | MUNI, OCPD | MUNI, OCPD |
| <i>12. Watershed towns should work together on an Open Space Inventory to identify environmentally sensitive and undeveloped lands requiring protection.</i> | Medium | Requires technical expertise. | \$5,000 | OCWRC, HLWTF | FLCC |
| <i>13. The Towns of Richmond and Canadice should review their Comprehensive Plans to coordinate land use zoning for the protection of water.</i> | Medium | Requires cooperation between towns. | \$15,000 | Grants, MUNI | MUNI, OCPD, HLWTF |
| <i>14. Provide consistent, uniform enforcement of existing land use regulations.</i> | Medium | Feasible, but training and educational needs are ongoing. | ? | MUNI | OCPD, MUNI |
| 6.3.6: Recreational Uses | | | | | |
| <i>15. Provide community education on need for a docking and mooring regulation.</i> | High | Could be used to control keyhole development and placement of docks. | Time | HLWTF | MUNI, HLWTF |
| <i>16. NYS OPRHP connect existing restrooms to the sewer and determine needs for other improvements at the public boat launch.</i> | Medium | Requires commitment from NYSOPRHD | ? | Grant, NYSOPRHP | NYSOPRHP |
| <i>17. Encourage use of fuel efficient low pollution boats.</i> | Medium | Educational effort. | <\$500 | HLWTF, HVA | HLWTF, HVA |
| <i>18. Promote increased enforcement of existing boating regulations.</i> | Medium | Patrols by OC Sheriff and NYDEC are on-going. | Existing Additional cost unknown | OC SHERIFF, NYDEC | OC SHERIFF, NYDEC |

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| 19. Examine boat speed regulations, especially near-shore, to diminish shoreline disturbance. | Medium | Investigate need for special Navigation Laws such as those on Canandaigua and Keuka Lakes. | Time | HLWTF, HVA | HLWTF, OCSWCD, HVA |
| 6.3.7: Agriculture | | | | | |
| 20. Encourage farmers to participate in federal, state and local programs that use the principles of AEM. | Medium | Requires public relations efforts by the pertinent officials, OC SWCD, or HLWTF. | \$50,000 | EPF | OCSWCD, HLWTF |
| 21. Use database of farmers in the watershed for contact on environmental issues. | Medium | Feasible with existing agency staff. | <\$500 | OCSWCD | OCSWCD |
| 6.3.8: Pesticides | | | | | |
| 22. Promote use of hazardous waste clean-up day, which already exists in Ontario County, for safe disposal pesticides and other toxic materials. | Medium | Expensive for the county but is an existing program. | <\$500 | OCDPW | OCDPW, HLWTF |
| 6.3.9: Salt Usage and Storage | | | | | |
| 23. Conduct annual survey of salt used in municipalities and publicize results. | Medium | Low cost and feasible but needs volunteer effort. | <\$500 | HLWTF | HVA, HLWTF, G/FLRPC |
| 24. Towns store and use deicing materials in an environmentally sound manner. | Medium | Potential savings to towns. | ? | MUNI | HLWTF, MUNI, OCDPW |
| 25. Purchase and install sensible salting highway signs. | Medium | Feasible, cost of signs \$50 each. | \$1,000 | Grants | MUNI, OCDPW, HLWTF |
| 26. Monitor salt concentrations in tributaries during stream sampling program. | Medium | Small additional cost. | ? | HLWTF | FLCC, HLWTF |
| 27. Promote sensible winter driving with less salt. | Medium | Promotional effort. | <\$500 | MUNI | HLWTF, MUNI, OCDPW |

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Long Term Priority Action Items

| Pollution Prevention Actions | Priority | Feasibility | Estimated Cost (\$) | Source of Funds | Responsible Agency |
|--|-----------|---|---------------------|-----------------|--------------------|
| 6.3.1: Nutrients | | | | | |
| <i>1. Investigate effect of zebra mussels and other invasive species on nutrient loading.</i> | Long Term | Technical expertise required. | \$1,000 | HLWTF | HLWTF |
| <i>2. Investigate potential point sources of nutrient discharge, such as SPDES permit holders and the perimeter sewer.</i> | Long Term | NYS DEC supervision of SPDES permits is inadequate and should be augmented by local action. | <\$500 | OCSWCD | OCSWCD |
| <i>3. Encourage farmers to participate in Agricultural Environment Management (AEM) programs.</i> | Long Term | Participation in AEM is best achieved by farmers talking to one another. | <\$500 | OCSWCD | OCSWCD |
| 6.3.2: Onsite Wastewater Systems (Septic) | | | | | |
| <i>4. Develop local database of SPDES permits with the assistance of the NYSDEC.</i> | Long Term | Feasible with volunteer effort. | <\$500 | HLWTF | HLWTF |
| <i>5. Arrange more frequent inspections of SPDES permitted facilities.</i> | Long Term | Work with the NYSDEC to enhance oversight efforts. | <\$500 | OCSWCD | NYSDEC, HLWTF |
| 6.3.6: Recreational Uses | | | | | |
| <i>6. Determine impact of prop wash on bottom sediments.</i> | Long Term | Feasible engineering study. | \$1,500 | HLWTF | FLCC, HLWTF |
| 6.3.7: Agriculture | | | | | |
| <i>7. Cooperate with nonprofit organizations such as the American Farmland Trust, Finger Lakes Land Trust and The Nature Conservancy on programs to ensure future agricultural uses.</i> | Long Term | Requires outreach to farmers in the watershed by municipal and county government. | <\$500 | MUNI | OCSWCD, MUNI |

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| 6.3.8: Pesticides | | | | | |
| <i>8. Promote the use of Integrated Pest Management (IPM) for agriculture, homeowners, and institutions to target appropriate pest species, choose proper pesticides, and apply chemicals safely.</i> | Long Term | Could develop appropriate standards. | <\$500 | CCE | CCE, OCSWCD, HLWTF |
| <i>9. Institute periodic testing for pesticides as part of the stream sampling.</i> | Long Term | Individual tests for very low levels of pesticides and their metabolites are expensive. | \$3,000 | Grant | HLWTF |
| <i>10. If necessary, develop independent IPM standards for the watershed.</i> | Long Term | The local CCE office can provide technical assistance. | <\$500 | Grant | HLWTF, CCE, MUNI |
| <i>11. Investigate Cornell Cooperative Extension Home-A-System program for developing less toxic households.</i> | Long Term | Has been used on Seneca Lake, with good results. | <\$500 | HVA | HLWTF, HVA |
| <i>12. Encourage watershed farmers to use the Agricultural Environmental Management (AEM) program that offers technical and financial assistance to farmers working to utilize pesticides properly.</i> | Long Term | Promote an already existing program. | <\$500 | OCSWCD | OCSWCD, HLWTF |
| 6.3.10: Spills | | | | | |
| <i>13. Purchase decals/magnets with Spills Reporting numbers listed and distribute to highway departments, truckers, and farmers.</i> | Long Term | Feasible and effective in promoting reporting. | <\$500 | HLWTF, HVA | HLWTF, MUNI |

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| <i>14. Map the types and contributing factors to spills recorded in NYSDEC databases to identify pertinent preventive measures.</i> | Long Term | Analysis of existing NYSDEC data | \$1,500 | Grants | NYSDEC, HLWTF |
| <i>15. Use the maps and analysis to educate actual and potential spillers about prevention.</i> | Long Term | Feasible, some costs for educational materials. | \$2,000 | ? | HVA, HLWTF |
| <i>16. Develop local notification procedure.</i> | Long Term | Determine who in the watershed should be notified. | <\$500 | ? | HLWTF, NYSDEC |
| <i>17. Develop local database of spills with assistance of NYSDEC.</i> | Long Term | Determine who would keep the database up to date. | \$500 | MUNI | HLWTF, NYSDEC |
| 6.3.11: Bulk Storage Facilities | | | | | |
| <i>18. Establish an inventory of bulk storage facilities by location, type and quantity of materials stored.</i> | Long Term | Inexpensive and could be handled by county agency staff. | <\$500 | ? | NYSDEC, OCPD |
| <i>19. Create a spills notification procedure for notification of the appropriate local responder.</i> | Long Term | Requires creating a procedure. | \$1,000 | ? | NYSDEC |
| <i>20. Determine the effect, if any, of natural gas storage wells.</i> | Long Term | Will need technical expertise. | ? | ? | NYSDEC |
| <i>21. Establish an inventory of bulk storage facilities by location, type, and quantity of materials stored.</i> | Long Term | Inexpensive and could be handled by county agency staff. | <\$500 | ? | NYSDEC, OCPD |
| 6.3.12: Landfills, Dumps and Inactive Hazardous Waste Sites | | | | | |
| <i>22. Survey landfill locations, dates of operation, types of material deposited, and vulnerability to water resources.</i> | Long Term | May require specialized consultant assistance. | \$10,000 | EPF Grant | HLWTF |
| <i>23. Investigate landfill leachate, if present, through an intensive engineering study.</i> | Long Term | Technically difficult and may be expensive. | ? | ? | HLWTF, NYSDEC |

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| <i>24. Develop an engineering study for proper landfill closure.</i> | Long Term | Technically difficult and would require an engineer experienced in landfill closures. | \$25,000 / site | ? | HLWTF |
| <i>25. Conduct water quality tests in vicinity of landfills as part of the stream monitoring program.</i> | Long Term | Requires chemical testing | \$500 | Grants | HLWTF |
| <i>26. Develop local database on landfill sites with NYS DEC assistance.</i> | Long Term | May require computer and software. | \$1,000 | ? | NYSDEC, HLWTF |
| 6.3.13: Mined Lands | | | | | |
| <i>27. Create an inventory of permitted and non-permitted mines in the watershed. Prioritize and rank mines for potential to pollute surface and groundwater and share information with regulatory officials.</i> | Long Term | Feasible and necessary first step. | <\$500 | ? | HLWTF, NYSDEC |
| <i>28. Share information on mines with regulatory officials (towns, NYS DEC).</i> | Long Term | Develop procedure. | <\$500 | ? | HLWTF |