

**Evaluation Charts for In-Depth Municipal Assessments
of Laws and Practices Affecting Water Quality**

Phase 1

Town of Tonawanda

City of Lackawanna

City of Niagara Falls

City of North Tonawanda

Town of Sheldon

Town of Elma

Town of Newstead

Town of Grand Island

Town of Colden

Village of Williamsville

Town of Batavia*

Town of Bethany*

Town of Orangeville*

Phase 2

Village of Springville

Town of Concord

Town of Holland

Town of Westfield

Town of Yorkshire

*Evaluation Charts are available through the Genesee Finger Lakes Regional Planning Council

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Town of Tonawanda Assessment Form

Completed May 2013

Section 1. Development: Existing Development

Existing Means of Implementation (Law, Regulation, Practice, etc.)

Best Management Practices (BMPs)

Score

Meeting Notes, Follow-Up Questions & Comments

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score	Meeting Notes, Follow-Up Questions & Comments
1-01	Identify retrofit opportunities	Practice: Implementing Green Infrastructure on town owned properties & facilities.	1	
1-02	Identify habitat and natural conveyance system restoration	Regulation (limited): Environmental Conservation Commission Powers & Duties §8-6, Advise Town Board, conduct studies. Practice: Conservation language is drafted into Comprehensive Plan. Separate Parks Comprehensive Plan.	1	
1-03	Establish retention/detention areas	Regulation: Approval of Site Plans §215-152, drainage plan, SWPPP required in W-MU, WB, RHC and WID Districts. Regulation: Stormwater Management §73-9, Performance and Design Criteria.	2	Tonawanda sees a need for more on-site detention, but aesthetics are a concern. Doesn't have ability for staff to inspect and enforce periodic maintenance (no fines set up for aesthetic maintenance).
1-04	Acquire additional land for locating treatment facilities		0	Not in the process of acquiring additional land for treatment facilities.
1-05	Encourage homeowners to place compost piles away from waterbodies and roadways		0	Educational Brochure recommends composting, but vague on locating compost piles.
1-06	Encourage proper use and disposal of lawn and other household chemicals	Regulation: Solid Waste Management §181. Practice: Educational brochure on website.	2	
1-07	Institute turf management practices on golf courses and parks and recreation areas	Practice: Turf Management Program for some parks (golf courses are considered part of the park system).	1	
1-08	Undertake storm drain stenciling	Practice: Participating in WNY Stormwater Coalitions Medallion Program	2	Not currently done by the Town itself.
1-09	Encourage volunteer programs, such as adopt-a-highways and adopt-a-stream, etc.	Practice: Erie County coordinates an Adopt-a-Highway Program.	1	Not currently in place locally.
1-10	Include high percentage of indigenous plants in new landscaping on privately-owned properties (excluding arboretums, horticultural gardens, and sites requiring turf grasses)	Practice: Encouraged through Site Plan Approval process.	1	Town encourages the use of indigenous plants, but doesn't have the "teeth" to require native plantings. Looking to give planning board more authority in that regard during code update process, where they are looking to give planning board site plan approval currently, most developers are receptive
1-11	Encourage water conservation		0	Not being done at this time.
1-12	Develop outreach programs targeted at specific problems related to water quality management & resource conservation	Practice: Educational brochures on Town website, WNY Stormwater Coalition, Erie County Water Quality Committee have programs.	2	
1-13	Encourage proper control of pet wastes	Regulation: Solid Waste Management §181-14, Dogs §71-5.	2	

1-14	Encourage continued operation of private storm water runoff control structures	Regulation: Stormwater Management §73. Practice: Town sends letters to property owners on up-keep and gives out fines for maintenance .	2	Limited ability to regulate at the moment, as there are no fines in place. No authority to issue citations in regards to dumping. There are a few properties that have garbage in retention ponds.
1-15	Discourage feeding of waterfowl		0	Dogs are used to chase away geese.
1-16	Discourage the introduction of exotic aquatic species (Eurasian water milfoil, zebra mussels, water chestnut, etc		0	Only 1 municipally owned Boat Launch facility. No signage provided currently.
1-17	Encourage continued (periodic) operation and maintenance of private septic disposal systems	n/a	n/a	No properties have onsite septic systems
1-18	Effective and consistent application and enforcement of stormwater regulations & requirements	Regulation: Stormwater Management §73. Practice: Stormwater Management Officer oversees sites and works with contractors on-site.	2	Good success so far.
1-19	Require certification of existing on-site septic systems for property transfers or building expansions.	n/a	n/a	
1-20	Require entire property (existing as well as proposed) to be included in stormwater analysis/calculation.	Regulation: Stormwater Management §73. Practice: Stormwater Management Officer oversees sites and works with contractors on-site.	2	Engineer's report required to calculate how much onsite retention will be needed. Most properties are rehab properties, which is why retention ponds are the only alternative.

Section 1. Development: New Development and Substantial Redevelopment

1-21	Minimize the amount of land disturbed and the duration of disturbance	Regulation: Stormwater Management §73.	2	There is basic lot coverage minimum in zoning code; just enacted in Delaware Business District.
1-22	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	Regulation: Subdivision §185-39, Stormwater Management §73-1, Zoning District Regulations §215-70.11, §215-70.24, §215-70.30 Preservation of significant existing vegetation as part of the design standards in the WID, WMU, WB, and River Road Overlay.	2	Viewsheds are protected. No real riparian protection, not much more than landscaped buffers for aesthetics. Building dept. relies on DEC permitting process in regards to wetlands.
1-23	Retain and protect trees and other natural vegetation on and near disturbed sites	Regulation: Stormwater Management §73-1, Zoning District Regulations §215-70.11, §215-70.24, §215-70.30 Preservation of significant existing vegetation as part of the design standards in the WID, WMU, WB, and River Road Overlay. No restrictions on Tree Cutting outside of ROW.	2	Zoning District Regulations were designed for aesthetics.
1-24	Account for topography and soil types in efforts to minimize erosion potential	Regulation: Stormwater Management §73, Subdivision §185, Approval of Site Plans §215-152.	2	Town has approximately 5-6 subdivisions/year and maybe 1 residential-housing subdivision that includes new roads every 30 years. Town is mostly built out, development potential still exists near Waterfront/River Road area.
1-25	Maintain run-off rates similar to pre-construction levels	Regulation: Stormwater Management §73, SWPPP approval process.	2	

1-26	Minimize the creation of impervious areas	Practice: Implementing green infrastructure, rain gardens at Golf Dome and parks buildings.	1	LWRP makes mention of maximum lot coverage, (ranging from 65%-75%) but only for waterfront mixed use district, and waterfront industrial district.	
1-27	Control increased run-off caused by changed surface conditions to minimize the danger of flooding, erosion, sedimentation and pollutants entering waterbodies prior to, during and after construction	Regulation: Stormwater Management §73, Excavation §179.	2		
1-28	Use temporary vegetation and mulching to protect exposed and critical areas during development	Regulation: Stormwater Management §73, Excavation §179, SWPPPs.	2		
1-29	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	Regulation: Stormwater Management §73, Excavation §179.	2		
1-30	Stabilize disturbed soils as soon as possible	Regulation: Stormwater Management §73, Excavation §179, SWPPPs.	2		
1-31	Minimize the use of cut & fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate run-off	Regulation: Subdivision §185, Stormwater Management §73-1, Approval of Site Plans §215-152, River Road Overlay.	2		
1-32	Use appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	Regulation: Solid Waste Management §181-14 Hazardous Waste.	2		
1-33	Encourage construction site management techniques which include the proper hanging and disposal of pesticides and petroleum products and containers	Regulation: Stormwater Management §73 , Solid Waste Management §181	2		
1-34	Ensure proper operation and maintenance of run-off management facilities	Regulation: Stormwater Management §73, Practice: Notice of Violation Letters sent to owner requesting maintenance.	2		Regulations enforce maintenance by property owners, however the Town only issues letters to maintain stormwater facilities. They currently have no means for enforcement (i.e. fines) associated with poor up-keep.
1-35	Target training for contractors, inspectors, zoning and planning officials	Practice: Town staff participate in WNY Stormwater Coalition trainings.	2		There are updates all the time through contractors & MS4 annual conferences
1-36	Require tree surveys and/or cutting plans	Practice: Permits for ROW tree removal only	1		
1-37	Develop priority list for BMP's - use of vegetative low areas for retention/infiltration	Practice: Town aims to use vegetation first, retention ponds only if necessary.	1		
1-38	Encourage cluster development	n/a	n/a		Town is almost entirely built out, and never sees multi-lot subdivision applications, would have limited benefit from this regulation anyway.
1-39	Require connection to and/or extension of existing water & sewer if project is within 500 feet of existing infrastructure	Regulation: Public Sewers §165	2		

1-40	Enact limits on driveway grades	n/a	n/a	No steep grades in town, follows NYSDOT Highway Design Manual anyway.
1-41	For redevelopment, employ regulations that provide for technologically advanced (on and off) site wastewater treatment systems to optimize efficiencies and address challenging sites	n/a	n/a	Town has no on-site waste water systems.
1-42	Implement Fed/State Stormwater (SPDES) Phase II requirements	Regulation: Stormwater Management §73, Solid Waste Management §181, Sewers §165. Practice: Educational brochures on Town website. Other outreach activities occurring through the WNY Stormwater Coalition.	2	Phase II Requirements includes 1) public edu & outreach 2) public participation & involvement 3) illicit discharge detection & elimination 4) construction site run-off 5) post construction run-off control and 6) pollution prevention & good housekeeping.

Final Score: 56 out of 74 Total Possible Points

56

Number of BMPs addressed (either fully or partially): 32 out of 37 BMPs (86%)

Section 2. Forestry & Agriculture: Forestry

Existing Means of Implementation (Law, Regulation, Practice, etc.)

Score

Best Management Practices (BMPs)

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score	
2-01	Consider potential water quality impacts when selecting silviculture system (yarding system, site preparation, pesticides employment, etc.)	n/a	n/a	
2-02	Consider harvesting practices	n/a	n/a	
2-03	Seasonal preference for logging operations	n/a	n/a	
2-04	Have specialists (Geologists, soil scientists, geotechnical engineers, wildland hydrologists) review plans in high erosion hazard areas	n/a	n/a	
2-05	Preplan harvest areas, skid trails, and access so as to be on stable soils, avoiding steep gradients, multiple stream crossings, poor drainage areas etc.	n/a	n/a	
2-06	Limit grades of access roads	n/a	n/a	
2-07	Require stabilization of roads/drives to forestry site	n/a	n/a	
2-08	Employ natural topography and contour for design of road network	n/a	n/a	
2-09	Require stormwater controls for increased runoff from ground cover modification	n/a	n/a	
2-10	Consider site restoration	n/a	n/a	

Section 2. Forestry & Agriculture: Agriculture

2-11	Use agricultural environmental management (AEM)	n/a	n/a
2-12	Require farms seeking agricultural value assessment to participate in AEM	n/a	n/a

Section 3. Waterways & Wetlands: Modified Waterways

Existing Means of Implementation (Law, Regulation, Practice, etc.)

Score

Best Management Practices (BMPs)

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score	
3-01	Develop an operation and maintenance program for existing modified streams that includes identification of opportunities and actions to restore habitat and the physical and chemical characteristics of these streams	Practice: Town maintains creeks' shorelines. Town identifies problem shorelines based on resident complaints and implements solutions, prioritizing vegetative solutions. Uses Rip Rap as a last resort.	1	Initiatives are mostly triggered by significant erosion, however the focus on vegetation as a primary mitigation method is a form of habitat restoration. There is an upcoming project on a ditch that channels water from Amherst to Ellicott Creek.
3-02	Improve stream quality by controlling instream sedimentation and selectively clearing debris	Regulation (limited): Local Waterfront Revitalization §129, LWRP Policy 17	1	Not actively doing, sedimentation issues are addressed mostly through complaints (See 3-01).
3-03	Establish or re-establish riparian buffers		0	LWRP mentions buffers many times, usually referring to the setback regulations in place. Suggests native vegetation, or landscaped open areas. Planning to address via setbacks, overlay in future code revisions.
3-04	Prevent animal wastes from entering waterbodies	Regulation: Solid Waste Management §181-14, Dogs §71-5.	2	
3-05	Attempt vegetative stabilization before undertaking structural measures	Regulation (limited): Local Waterfront Revitalization §129, LWRP: Policy 17 Practice: Town first utilizes vegetative stabilization before implementing more structural means (i.e. rip rap).	1	
3-06	Design and construct shore erosion control facilities in accordance with an erosion and sedimentation control plan, in areas where marsh creation and soil bioengineering are ineffective or where existing protection methods are being flanked or are failing	Regulation: Stormwater Management §73, SWMP 2010 Plan, NYS Erosion & Sediment Control Manual.	2	Town follows the NYS DEC Erosion and Sedimentation Control Manual for design of facilities.
3-07	Schedule the periodic maintenance of sediment control measures, and inspect and repair them as needed in conformance with established schedule	Practice: Town Stormwater Management Officer, Engineers, and conduct periodic inspections.	2	

3-08	Protect streambanks through direct nonstructural means, such as new vegetation or protection of existing vegetation; direct structural means, such as revetments and bulkheads; indirect nonstructural means, such as regulating irrigation near stream-banks or outing overbank drainage; or indirect structural means, such as deflecting channel flow away from streambanks with dikes, board fences and gabions	Regulation (limited): Local Waterfront Revitalization §129, LWRP Policy 17. Practice: Town first utilizes vegetative stabilization before implementing more structural means (i.e. rip rap).	1
3-09	Use setbacks to minimize disturbance of land adjacent to streambanks and shorelines	Regulation (limited): Setback regulations for water features are limited to certain areas of town, and include flexible language. WMU District §215-70.5 = minimum 50' Niagara River, all other districts treated as side/rear yard (25'), WB District §215-70.11 = 50' Buffers required along Two-Mile Creek and Rattlesnake Creek, River Road Overlay §215-70.30 and WMU allow for extension of setbacks to preserve vista, natural areas, unique characteristics of the shoreline (never used).	1
3-10	Prevent discharges to waterbodies in amounts that would adversely affect the taste, color or odor of the waters, or would impair the waters for their best usages	Regulation: Public Sewers §165-43, Stormwater Management §73 (Illicit Discharge Language), Local Waterfront Revitalization §129, LWRP Policy 30.	2

Mostly setbacks from the road side of property is considered, not the river side. Until Site Plan Approval, setbacks are just a recommendation. Docks are an issue in flood plains, Town may implement permitting for docks in the future.

Section 3. Waterways & Wetlands: Wetlands and Riparian Area Management and Restoration

FYI -These BMPs mostly address approaching wetlands as a non-point source pollution mitigation resource (as they currently exist) in MS4 communities.

3-11	Consider wetlands and riparian areas and their nps control potential on a watershed scale		0
3-12	Identify existing functions of those wetland and riparian areas with significant nps control potential when implementing nps management practices. Do not alter wetlands or riparian areas to improve their water quality at the expense of their other functions	Regulation (limited): Local Waterfront Revitalization §129.	1
3-13	Conduct permitting, licensing, certification and non-regulatory nps pollution activities in a manner that protects wetland functions	Regulation (limited): Subdivision of Land §185, Stormwater Management §73, Local Waterfront Revitalization §129.	1

LWRP Policy 7 & 7A talks at length about the implications of modifying wetlands and other habitats. While not specifically addressing nps controls, it talks about other wetland and habitat functions (esp. regarding Strawberry Island-Motor Island)

North Hammer commerce center project includes a total separation of wetlands and stormwater system (ACOE Project). Currently relocating wetlands because of this. Don't want to impact wetlands.

3-14	Special zoning considerations to protect wetland areas	Regulation (limited): Subdivision of Land §185, Stormwater Management §73, Local Waterfront Revitalization §129.	1
3-15	Use appropriate pretreatment practices such as vegetated systems or detention or retention basins to prevent adverse impacts to wetland functions that affect nps pollution abatement from hydrologic changes, hydrologic changes, sedimentation or contaminants	Regulation: Stormwater Management §73, SWPPP approval process.	2
3-16	All projects should require wetlands certification	Regulation: Local Waterfront Revitalization §129, Environmental Quality Review §76. Practice: All projects with designated State or Federal Wetlands are submitted to NYS DEC and ACOE for review.	1

Final Score: 19 out of 32 Total Possible Points

19

Number of BMPs addressed (either fully or partially): 14 out of 16 BMPs (87%)

Section 4. Marinas: Existing Marinas

Existing Means of Implementation (Law, Regulation, Practice, etc.)

11 - No municipally owned marinas, only four privately owned marinas (Wild River, Collin's, Dupont Boat Club, and Stingers), and one public boat launch (at Aqua Lane Park).

Best Management Practices (BMPs)		Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score
4-01	Clean maintenance areas regularly. Preferably by vacuuming to remove trash, sandings, paint chips etc.	Regulation (limited): Local Waterfront Revitalization §129, LWRP Policy 2 subtopic.	2
4-02	Prevent residue from being carried into surface waters by performing abrasive blasting within plastic tarp enclosures on windless days or withing spray booths	Regulation (limited): Local Waterfront Revitalization §129, LWRP Policy 2 subtopic.	2
4-03	Provide proper disposal/recycling facilities to marina patrons, preferably covered receptacles	Practice: Garbage totes are available at the public boat launch.	1
4-04	Establish fish cleaning areas, and implement rules governing the conduct of fish cleaning operations		0
4-05	Educate boaters on the importance of proper fish cleaning practices		0
4-06	Implement fish composting where appropriate		0
4-07	Store materials in areas impervious to the type of material stored. Build curbs, berms, or other barriers around the areas to contain spills	Regulation (limited): Solid Waste Management §181.	1

See excerpt below

"Boat maintenance activities, including washing, sanding, painting, draining bilge water and servicing motors shall not discharge waste water or other substances into any waterbody, nor shall any waste materials be disposed of in such a manner that they run overground and into a waterbody."

LWRP speaks of fishing areas, but no mention of disposal of caught fish.

Doesn't speak specifically on curbs or berms, but repeatedly talks about appropriate proper disposal and storage of different materials

4-08	Use separate, clearly labeled containers for the disposal of oil, gasoline, antifreeze, diesel, kerosene and mineral spirits	Regulation: Solid Waste Management §181.	2
4-09	Target outreach programs about proper disposal at marinas through the use of signs, mailings and other means		0
4-10	Promote the use in bilges of oil-absorbing materials, and replace them as necessary, preferably recycling, or disposing of them in accordance with petroleum disposal regulation.		0
4-11	Use a container under the air vent while refueling inboard tanks if the tank vents are not equipped with a fuel/air separator		0
4-12	Prohibit in-water hull scrapings or any underwater process to remove paint from boat hulls	Regulation (limited): Local Waterfront Revitalization §129, LWRP Policy 2 subtopic.	1
4-13	Wash the boat hull above the waterline by hand, using only necessary amounts of detergents and cleaning compounds that are phosphate free and bio-degradable		0
4-14	Prohibit the use of detergents and cleaning compounds containing ammonia, sodium hypochloride, chlorinated solvents, petroleum distillates, alcohol or lye	Regulation (limited): Local Waterfront Revitalization §129, LWRP Policy 2 subtopic.	1
4-15	Educate individuals about the importance of trash reduction and recycling through: interpretive and instructional signs placed at marinas and boat launching sites, pamphlets or flyers, newsletters, inserts in billings, meetings and presentations, workshops, and certification programs	Practice: Educational recycling mailer on Town website.	1
4-16	Inspect pumpout facilities regularly, and repair them if practical, under a maintenance contract with a competent contractor		0

LWRP repeatedly talks about avoiding contamination of the water, whether through cleaning practices or general marina functions. Doesn't mention solvents specifically.

4-17	Add language to slip lease agreements mandating the use of pumpout facilities and specifying penalties for failure to comply	Regulation (limited): Local Waterfront Revitalization §129, LWRP Policy 34.	2	With two exceptions: marinas that serve boats that are less than 26 ft. in length and are not equipped with marine sanitation devices, Marinas that provide less than 25 slips for boats over 26 ft in length and there are marina's near by that offer pumpout facilities.
4-18	Place dye tablets in holding tanks to identify and discourage illegal disposal		0	
4-19	Prohibit motorized vessels from areas (define areas) that contain important shallow-water habitats	Regulation (limited): Local Waterfront Revitalization §129, LWRP Policy.	2	Outlined in Strawberry Island & Motor Island Shallows Impact Assessment in LWRP. Motor Island Shallows identified as an important habitat that should not be disturbed by: "Dredging, filling, bulkheading, or development of boatlaunching facilities".
4-20	Establish and enforce no-wake zones to decrease turbidity and reduce erosion potential from boat wakes	Regulation (limited): Local Waterfront Revitalization §129, LWRP Policy.	2	

Section 4. Marinas: New Marinas

4-21	Design and site marinas to maximize exchange of marina basin water. Limit basins and channels with square corners that tend to trap flotsam, and place dock structures in a manner that promotes circulation	Regulation (limited): Waterfront Mixed Use District (WMU) §215-70.5, references marina design standards shall be governed by all applicable federal and state standards and regulations.	1	Facilities over a certain size are required to obtain a NYS DEC "Protection of Waters Permit". Many of the small docks in Tonawanda Creek and Ellicott Creek are exempt from this requirement.
4-22	Perform a preconstruction assessment, which includes a water quality monitoring and modeling methodology, to predict post-construction water quality conditions	Regulation: Stormwater Management §73, SWPPPs, LWRP Marina "Siting Standards".	2	
4-23	Monitor water quality during construction to protect ambient water quality to the maximum practicable extent	Regulation: Stormwater Management §73, SWPPPs. Practice: required SWPPPs for sites under 1 acre (selective cases).	2	LWRP Marina "Siting Standards".
4-24	Develop a marina siting policy to discourage development in areas containing important habitat designated by local, State, or federal agencies	Regulation: Local Waterfront Revitalization §129-8, LWRP Policy 2 Subtopic, Waterfront Mixed Use District (WMU) §215-70.5, references marina design standards shall be governed by all applicable federal and state standards and regulations.	2	
4-25	Conduct surveys and employ rapid bioassessment techniques to assess historic habitat function (e.g. spawning, nursery, and migration pathways) and potential impacts to these and other biological functions and resources	Regulation: Local Waterfront Revitalization §129, documents habitats.	2	

4-26	Encourage the redevelopment or expansion of existing marina facilities that have demonstrated minimal environmental impacts instead of developing new marina facilities		0
4-27	Consider alternative sites with minimal potential environmental impacts when the use of previously disturbed sites is not feasible		0
4-28	Minimize disturbance of indigenous vegetation in the riparian area	Regulation (limited): Zoning District Regulations §215-70.11, §215-70.24, §215-70.30 Preservation of significant existing vegetation as part of the design standards in the WID, WMU, WB, and River Road Overlay. Setback regs: WMU District §215-70.5 = minimum 50' Niagara River, WB District §215-70.11 = 50' Buffers required along Two-Mile Creek and Rattlesnake Creek, River Road Overlay §215-70.30 and WMU allow for extension of setbacks to preserve vista, natural areas, unique characteristics of the shoreline (never used).	1
4-29	Use soil bioengineering or plants, wherever conditions allow, to restore damaged habitat along shorelines and streambanks	Practice: Town maintains Creek shorelines. ID's problem shorelines based on resident complaints and implements solutions, prioritizing vegetative solutions. Uses Rip Rap as a last resort.	1
4-30	Use properly designed and constructed engineering practices that minimize shoreline disturbance in areas where soil bioengineering and plants are ineffective	Practice: Town first utilizes vegetative stabilization before implementing more structural means (i.e. rip rap).	1
4-31	Use appropriate shore erosion control methods, such as returns or return walls, in areas where existing protection methods are being flanked or are falling	Regulation (limited): Local Waterfront Revitalization, LWRP Policy 13A Practice: Conducted on a site-by-site basis where needed.	1
4-32	Plan and design all steambank, shoreline, and navigation structures so that they do not transfer erosion energy to or otherwise cause visible loss of surrounding streambanks or shorelines	Practice: Conducted on a site-by-site basis where needed.	1
4-33	Locate and design fuel stations so that spills can be contained in a limited area		0

LWRP Policy 13A talks about this in relation to Strawberry Island

4-34	Design and install underground fuel storage tanks according to State regulations, including the provision of detection systems and automatic fuel tank and pump leak shut-offs	Regulation: Building Code Administration §54, Part of the NYS Uniform Fire Prevention and Building Code.	2	Requires permits for all tank and pump installations, reviewed for compliance with NFPA regulations, regulates tank size and locations and oversee inspections.
4-35	Provide aboveground fuel tanks and fueling areas with a curbed or diked storage area to handle containment volumes meeting State (and local) codes and inspect regularly	Regulation: Building Code Administration §54, Part of the NYS Uniform Fire Prevention and Building Code.	2	Requires permits for all tank and pump installations, reviewed for compliance with NFPA regulations, regulates tank size and locations and oversee inspections.
4-36	Use preferred pumpout systems: fixed-point, portable, dedicated slipside, and pumpout boats		0	
4-37	Design onsite wastewater treatment systems to specifically handle waste from vessels	n/a	n/a	Town has no on-site wastewater treatment systems.
4-38	Post pumpout facility location and regulations at the marina. Charge fees that encourage rather than discourage facility use. Consider offsetting the cost of maintaining pumpout facilities by fuel sales where these facilities are conveniently located in close proximity to one another		0	

Section 4. Marinas: All Marinas (Existing & New)

4-39	Restrict boat repair and maintenance activities to clearly marked designated areas to prevent debris from falling into the water and preventing invasive species	Regulation (limited): Local Waterfront Revitalization §129, LWRP Policy 2 subtopic.	1	BMPs
4-40	Secure all fueling facilities and storage areas with appropriate shut-off devices and security locks and inspect regularly	Regulation: Zoning §215.41 & 215.71.	2	References OSHA requirements.
4-41	Design fueling stations with spill containment equipment that is stored in a clearly marked location, accessible to work and storage areas. Post emergency phone numbers in a prominent location	Regulation: Zoning §215.41 & 215.71.	2	References OSHA requirements.

4-42	Design a spill contingency plan		0	LWRP Policy 36: "Activities related to the shipment and storage of petroleum and other hazardous materials will be conducted in a manner that will prevent or at least minimize spills into coastal waters; all practicable efforts will be undertaken to expedite the cleanup of such discharges; and restitution for damages will be required when these spills occur". Does not specify a spill contingency plan is a required permitting condition.
4-43	Inspect and maintain all containment berms or devices in accordance with State regulations. Investigate immediately signs of leakage or spillage, and undertake cleanup in accordance with applicable best management practices	Regulation: Zoning §215.41 & 215.71.	2	References OSHA requirements and in accordance with National Fire Protection Association.
4-44	Have a trained operator present and prepared to respond to accidental spills	n/a	n/a	This is the responsibility of marina operator, not the Town (no town-owned marinas).
4-45	Maintain daily inventory records to identify abnormal loss or gain of liquid		0	
4-46	Prohibit the cleaning of hoses, fittings, pumps, and other accessory equipment on piers, docks or adjacent upland to prevent runoff into the marina basin or other surface or groundwater	Regulation (limited): Local Waterfront Revitalization §129, LWRP Policy 2 subtopic.	1	BMPs
4-47	Create and/or maintain a dedicated fund for maintenance in the case of government-owned facilities	n/a	n/a	No town-owned marinas.
4-48	Restrict the operation of pumpout facilities to trained marina personnel only		0	

Final Score: 43 out of 90 Total Possible Points

43

Number of BMPs addressed (either fully or partially): 28 out of 45 BMPs (62%)

Section 5. Roads and Bridges: Existing Roads & Bridges

Existing Means of Implementation (Law, Regulation, Practice, etc.)

Score

Town is not responsible for the bridges in town.

Best Management Practices (BMPs)

5-01	Conduct road and bridge maintenance (deicing material usage and storage, pot-hole repair, bridge washing, scraping and painting, etc) according to best management practices		0	No info given on Best Management Practices. Should be using the NYS Highway Superintendent Roads and Water Quality Handbook.
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5-02	Conduct right-of-way activities (mowing, brush removal, pesticide and fertilizer use, etc) according to best management practices		0
5-03	Include high percentage of indigenous plants in new landscaping on public-owned properties (excluding arboretums, horticultural gardens, and site requiring turf grasses)	Practice: Town policy to use native vegetation as much as possible.	1
5-04	Implement a regular inspection and maintenance plan of existing structures	Practice: Conducts visual inspection of streets to assess conditions & develop priority lists for maintenance and repairs.	1
5-05	Develop and identify erosion/sediment control areas (examples include steep slopes, easily erodible soils, and nearby sensitive areas) and retrofit opportunities		0
5-06	Require percentage of roads to be tested with non-ice and non-sand de-icing.		0

Not doing this

Section 5. Roads and Bridges: New Roads & Bridges

5-07	Minimize the amount of land disturbed and the duration of disturbance.	Regulation: Stormwater Management §73, SWPPP requirement. Practice: Town tries to stay within ROW.	2
5-08	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	Regulation: Subdivision §185, Stormwater Management §73, Approval of Site Plans §215-150, WB District Zoning §215-70.11, River Road Overlay §215-70.30. Practice: Avoid natural features first, then relocate (i.e. wetlands).	2
5-09	Retain and protect trees and other natural vegetation on and near disturbed sites	Regulation: Stormwater Management §73-1, Zoning District Regulations §215-70.11, §215-70.24, §215-70.30 Preservation of significant existing vegetation as part of the design standards in the WID, WMU, WB, and River Road Overlay. No restrictions on Tree Cutting outside of ROW.	2
5-10	Retain additional runoff sites	Regulation: Stormwater Management §73, SWPPP requirement, Town of Tonawanda Stormwater Prevention Plan (WNY Stormwater Coalition Model).	2
5-11	Minimize the creation of impervious areas	Regulation: Local MS4 Permit = Town of Tonawanda Stormwater Prevention Plan (WNY Stormwater Coalition Model), Practice: Implementing green infrastructure, rain gardens at Golf Dome and parks buildings.	1

There might be temporary storing of materials, but restoration after the fact. No new roads in the town in 30 years. Most are rebuilds About once every 10 years there is a new road.

Town tries to relocate wetlands if necessary

Not usually an issue.

Priority in Stormwater Management Plan.

5-12	Treat increased runoff caused by changed surface conditions to minimize the danger of flooding, erosion and pollutants entering waterbodies prior to, during and after construction	Regulation: Stormwater Management §73, SWPPP requirement, Town of Tonawanda Stormwater Prevention Plan (WNY Stormwater Coalition Model).	2
5-13	Use temporary vegetation and mulching to protect exposed and critical areas during development	Regulation: Stormwater Management §73, SWPPP requirement, Town of Tonawanda Stormwater Prevention Plan (WNY Stormwater Coalition Model).	2
5-14	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	Regulation: Stormwater Management §73, SWPPP requirement, Town of Tonawanda Stormwater Prevention Plan (WNY Stormwater Coalition Model).	2
5-15	Stabilize disturbed soils as soon as possible	Regulation: Stormwater Management §73, SWPPP requirement, Town of Tonawanda Stormwater Prevention Plan (WNY Stormwater Coalition Model).	2
5-16	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff	Regulation: Stormwater Management §73, SWPPP requirement, Town of Tonawanda Stormwater Prevention Plan (WNY Stormwater Coalition Model).	2
5-17	Control erosion and sedimentation prior to, during and after site preparation and construction	Regulation: Stormwater Management §73, SWPPP requirement, Town of Tonawanda Stormwater Prevention Plan (WNY Stormwater Coalition Model).	2
5-18	Require long term stormwater management plan.	Regulation: Stormwater Management §73, SWPPP requirement, Town of Tonawanda Stormwater Prevention Plan (WNY Stormwater Coalition Model).	2
5-19	Require long term sedimentation control & maintenance.	Regulation: Stormwater Management §73, SWPPP requirement, Town of Tonawanda Stormwater Prevention Plan (WNY Stormwater Coalition Model).	2

Stormwater Prevention Plan looks to reduce impervious surfaces. Most recently installed rain gardens at Golf Dome & Parks building. Rain gardens are designed for minimal maintenance and maintained by trained parks staff.

Section 5. Roads and Bridges: All Roads & Bridges (Existing & New)

5-20	Target existing public holdings, such as parks, for removing unnecessary impervious surfaces	Regulation: Local MS4 Permit = Town of Tonawanda Stormwater Prevention Plan (WNY Stormwater Coalition Model), Practice: Implementing green infrastructure, rain gardens at Golf Dome and parks buildings.	2
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5-21	Incorporate NYSDOT design and guidance documents, standard specifications, and procedural manuals (Highway Design Manual, Environmental Procedures Manual, Maintenance Guidelines, etc) into local laws and operating procedures	Practice: Both Town Highway Department. and Engineering Department follow NYS DOT Highway Design Manuals & Guidelines. Neither are incorporated into local laws or operating procedures.	1
5-22	Ensure application of appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	Regulation: Solid Waste Management §181.	2
5-23	Ensure proper operation and maintenance of runoff management facilities	Regulation: Stormwater Management §73, SWPPP requirement, Town of Tonawanda Stormwater Prevention Plan (WNY Stormwater Coalition Model).	2
5-24	Participate in Cornell Local Roads Program activities and training	Practice: Town staff regularly attends trainings.	2
5-25	Target training programs at highway officials, contractors, construction workers, inspectors, zoning and planning officials	Practice: Town staff regularly attends trainings.	2
5-26	Target training and outreach programs about the proper handling of materials, leakage and spill prevention and spill response procedures at maintenance staff and workers	Practice: Town staff is trained on Hazardous Waste Operations and Emergency Response (HAZWOPER).	2

Final Score: 40 out of 52 Total Possible Points

40

Number of BMPs addressed (either fully or partially): 22 out of 26 BMPs (77%)

Section 6: Onsite Wastewater Treatment Systems

Existing Means of Implementation (Law, Regulation, Practice, etc.)

Score

FYI- There are No on-site wastewater systems in town.

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score
6-01	Conduct regular inspections of OWTS at a frequency adequate to determine failure and undertake required maintenance	n/a	n/a
6-02	Institute setback guidelines	n/a	n/a
6-03	Promulgate plumbing codes that require practices that are compatible with OWTS	n/a	n/a
6-04	Target outreach programs at homeowners, contractors and developers	n/a	n/a

6-05	Inspection of all OWTS at property transfer or within 1 year prior to transfer	n/a	n/a
6-06	Require all properties within 500' of municipal service to connect.	Regulation: Public Sewers §165	2
6-07	Set goals for effluent limits (nitrogen, phosphorous, BOD, etc)	n/a	n/a

Final Score: 2 out of 2 Total Possible Points

2

Number of BMPs addressed (either fully or partially): 1 out of 1 (100%)

Overall Assessment Score: 160 out of 250 Total Possible Points

160

Number of BMPs addressed (either fully or partially): 97 out of 125 BMPs (78%)

City of Lackawanna Assessment Form

Section 1. Development: Existing Development

Best Management Practices (BMPs)		Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score	Meeting Notes, Follow-Up Questions & Comments
1-01	Identify retrofit opportunities	Regulation: Utilizing minimum lot coverage requirements as part of Zoning Districts to reduce impervious surfaces on a lot. Greenspace Performance Standards in Districts. Practice: Utilize SWPPPs process to ensure landscaping design absorbs some run-off.	2	Any time a business remodels, they have to install greenspace/flower beds. There are greenspace requirements. Water is not allowed to discharge into the street. The city doesn't want all asphalt but rather landscaping/greenspace. While existing buildings are not required to meet code, as soon as a building goes for a permit, they must comply with greenspace requirements. When building demos are done, everything must be restored to grass "shovel ready".
1-02	Identify habitat and natural conveyance system restoration	Regulation: §230.85 Wind Farm application, §230-28 Regulations Applicable to All Districts, §230-34 Landscaping	2	site restoration plan required for wind farms
1-03	Establish retention/detention areas	Regulation: §230.43 Stormwater Management	2	
1-04	Acquire additional land for locating treatment facilities	n/a		Sewer district issue. They are in the process of updating plants and system lines, but most likely not acquiring new land. Lines are consolidated and handled through ECSA
1-05	Encourage homeowners to place compost piles away from waterbodies and roadways	Regulation (limited): §95 deals with commercial composting (in some detail) Practice: The city has mailed educational materials to businesses, but not homeowners.	1	
1-06	Encourage proper use and disposal of lawn and other household chemicals	Regulation: Storm Drainage §185.34	2	
1-07	Institute turf management practices on golf courses and parks and recreation areas	Practice: City conducts Mowing only, no fertilizers or pesticides.	2	
1-08	Undertake storm drain stenciling	Regulation: Storm Drainage §185.46 Practice: Participation in WNY Stormwater Coalition.	2	Medaillion Program?
1-09	Encourage volunteer programs, such as adopt-a-highways and adopt-a-stream, etc.	Practice: Erie County Coordinates Adopt-a-Highway Programs	2	
1-10	Include high percentage of indigenous plants in new landscaping on privately-owned properties (excluding arboretums, horticultural gardens, and sites requiring turf grasses)	Regulation: §230.34 Landscaping	2	
1-11	Encourage water conservation	Practice: The city does what is required for MS4 municipalities.	1	They participated in a rain barrel contest. They are in the process of designing a water/rain garden between the front steps of city hall which would collect & utilize water harvested from the roof.

1-12	Develop outreach programs targeted at specific problems related to water quality management & resource conservation	Practice: Outreach Programs are managed/provided through City's participation in WNY Stormwater Coalition.	2	
1-13	Encourage proper control of pet wastes	Regulation: Dogs §66.19	2	
1-14	Encourage continued operation of private storm water runoff control structures	Regulation: Stormwater Management §230.93	2	
1-15	Discourage feeding of waterfowl			Not specifically. There is an easement along Smokes Creek which runs along people's yards. Waterfrontage doesn't have access to the waterfront currently.
1-16	Discourage the introduction of exotic aquatic species (Eurasian water milfoil, zebra mussels, water chestnut, etc	n/a		No Marina's in town, Ships along the Lake Erie waterfront are for shipping and do not come in or out.
1-17	Encourage continued (periodic) operation and maintenance of private septic disposal systems	n/a		Private Septic Prohibited
1-18	Effective and consistent application and enforcement of stormwater regulations & requirements	Regulation: §230.93 Stormwater Management. City Code Enforcement Officer is also the Stormwater Management Officer, has limited time to devote to enforcement.	2	Not always enough man power to check for violations. When do inspect, finding a very limited amount of violations. This doesn't seem to be an issue.
1-19	Require certification of existing on-site septic systems for property transfers or building expansions.	n/a		Private Septic Prohibited
1-20	Require entire property (existing as well as proposed) to be included in stormwater analysis/calculation.	Regulation: §230.94 Stormwater Management	2	Who's doing this work of the SMO & ZA was eliminated?

Newest Development is a 48 house subdivision, which required on-site stormwater, protection of wetland and open space requirements, and SWPPP for development. Most development occurring is in-fill and redevelopment of existing lots. City's priority for existing lots is to improve greenspace (undeveloped portion or urbanized lots) create more suburban atmosphere and reduce impervious surfaces.

Section 1. Development: New Development and Substantial Redevelopment

1-21	Minimize the amount of land disturbed and the duration of disturbance	Regulation: Stormwater Management §230.94, §230.91	2	
1-22	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	Regulation: §230.29 Cluster Development, §230.95 Stormwater Management, §230.34 Landscaping, Chp. 223 Waterfront Revitalization Program, LWRP,	2	At least 25% of the total development acreage is to be preserved and maintained for its scenic, recreation or conservation value via inclusion in the open space zone.
1-23	Retain and protect trees and other natural vegetation on and near disturbed sites	Regulation: §230.29 Cluster Development, §230.71 Site plan review, §230.34 Landscaping, §230-21 Smokes Creek Overlay.	2	At least 25% of the total development acreage is to be preserved and maintained for its scenic, recreation or conservation value via inclusion in the open space zone.
1-24	Account for topography and soil types in efforts to minimize erosion potential	Regulation: Stormwater management §230.94	2	

1-25	Maintain run-off rates similar to pre-construction levels	Regulation: §230.43 Stormwater Management, §230.94 Stormwater Management	2	
1-26	Minimize the creation of impervious areas	Regulation: §230.36 Parking, §230.21 (Smokes Creek Overlay District), Performance Standard = % Greenspace in District Zones.	2	Regulation §230.36 mentions shared parking, but only if owners can prove that they set up an official agreement to share.
1-27	Control increased run-off caused by changed surface conditions to minimize the danger of flooding, erosion, sedimentation and pollutants entering waterbodies prior to, during and after construction	Regulation: Stormwater Management §230.90	2	
1-28	Use temporary vegetation and mulching to protect exposed and critical areas during development	Regulation: §230.32 Erosion & Sediment, Stormwater Management §230.94	2	
1-29	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	Regulation: §230.32 Erosion & Sediment, §230.94 Stormwater Management	2	
1-30	Stabilize disturbed soils as soon as possible	Regulation: §230.32 Erosion & Sediment, §230.94 Stormwater Management	2	
1-31	Minimize the use of cut & fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate run-off	Regulation: §230.94 Stormwater Management	2	§230.32 (outlines grades for cut & fill)
1-32	Use appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	Regulation: §119 Hazardous Chemicals, §190 Garbage & Refuse	2	
1-33	Encourage construction site management techniques which include the proper handling and disposal of pesticides and petroleum products and containers	Regulation: §230.94 Stormwater Management	2	
1-34	Ensure proper operation and maintenance of run-off management facilities	Regulation: §230.96 Stormwater Management	2	
1-35	Target training for contractors, inspectors, zoning and planning officials	Practice: City participates in WNY Stormwater Coalition	2	
1-36	Require tree surveys and/or cutting plans	Practice: There is a tree service file. The city tries to prune & take out dead branches. When demolishing a building, the city evaluates existing trees & determines whether to keep or cut down. Preference is to keep as many healthy trees as possible.	2	Smoke Creek gets cleaned regularly of branches & debris. The city is working with DEC & Army Corps to expand project. Debris removal is part of on-going efforts to reduce erosion and flooding issues in Smokes Creek.
1-37	Develop priority list for BMP's - use of vegetative low areas for retention/infiltration	Regulation: §230.21 (Smoke Creek Overlay District), §230.43 Stormwater Management	2	Mentions buffer use for retention/detention - Are there ways they can strengthen this regulation?
1-38	Encourage cluster development	Regulation: §230.29 Cluster Development	2	

1-39	Require connection to and/or extension of existing water & sewer if project is within 500 feet of existing infrastructure	Regulation: §185.6 Sewers (connection required).	2
1-40	Enact limits on driveway grades	Regulation: §230.32 Erosion & Sedimentation	2
1-41	For redevelopment, employ regulations that provide for technologically advanced (on and off) site wastewater treatment systems to optimize efficiencies and address challenging sites	Practice: Code employs additional greenspace to reduce impervious surfaces during redevelopment, but overall City is not actively looking to employ new on-site and off-site treatment technologies. Wouldn't be opposed to such systems if drafted into SWPPPs.	2
1-42	Implement Fed/State Stormwater (SPDES) Phase II requirements	Regulation: Stormwater Management §230.94 Practice: Educational outreach activities occurring through the WNY Stormwater Coalition.	2

City in planning stages for rain garden at City Hall. Man-power is the main issue regarding this. City has good intension but limited personnel to execute changes in design and stormwater management.

Final Score: 72 out of 78 Total Possible Points

72

Number of BMPs addressed (either fully or partially): 37 out of 38 BMPs (97%)

Section 2. Forestry & Agriculture: Forestry

Existing Means of Implementation (Law, Regulation, Practice, etc.)

Score

Best Management Practices (BMPs)

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score
2-01	Consider potential water quality impacts when selecting silviculture system (yarding system, site preparation, pesticides employment, etc.)	n/a	
2-02	Consider harvesting practices	n/a	
2-03	Seasonal preference for logging operations	n/a	
2-04	Have specialists (Geologists, soil scientists, geotechnical engineers, wildland hydrologists) review plans in high erosion hazard areas	n/a	
2-05	Preplan harvest areas, skid trails, and access so as to be on stable soils, avoiding steep gradients, multiple stream crossings, poor drainage areas etc.	n/a	
2-06	Limit grades of access roads	n/a	
2-07	Require stabilization of roads/drives to forestry site	n/a	
2-08	Employ natural topography and contour for design of road network	n/a	
2-09	Require stormwater controls for increased runoff from ground cover modification	n/a	

2-10	Consider site restoration	n/a	
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Section 2. Forestry & Agriculture: Agriculture

2-11	Use agricultural environmental management (AEM)	n/a	
2-12	Require farms seeking agricultural value assessment to participate in AEM	n/a	

Section 3. Waterways & Wetlands: Modified Waterways

Score City has a LWRP from 1989, in which the goal of waterfront development for private sector use conflicts with efforts to provide public access to the waterfront. The main goals of the LWRP are to redevelop the former Bethlehem Steel Plant and to facilitate and maintain the water-dependent/enhanced uses on or alongside the waterfront. Concepts to balance both should be updated/flushed out further given the BOA process.

Best Management Practices (BMPs)		Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score
3-01	Develop an operation and maintenance program for existing modified streams that includes identification of opportunities and actions to restore habitat and the physical and chemical characteristics of these streams	Regulation: Chp. 223 (Waterfront Revitalization Program)	2
3-02	Improve stream quality by controlling instream sedimentation and selectively clearing debris	Regulation: §230.91 Stormwater Management Practice: City along with COE and DEC dredge Smokes Creek every couple of years.	2
3-03	Establish or re-establish riparian buffers	Regulation: §230.21 (Smokes Creek Overlay District) Practice: Actively working with ACOE & DEC to reduce erosion issues.	2
3-04	Prevent animal wastes from entering waterbodies	Regulation: §66 Dogs	2
3-05	Attempt vegetative stabilization before undertaking structural measures	Regulation: §230 Stormwater Management	2
3-06	Design and construct shore erosion control facilities in accordance with an erosion and sedimentation control plan, in areas where marsh creation and soil bioengineering are ineffective or where existing protection methods are being flanked or are failing	Regulation: Stormwater Management §230	2
3-07	Schedule the periodic maintenance of sediment control measures, and inspect and repair them as needed in conformance with established schedule	Practice: City is responsible in maintaining flood control projects associated with Smokes Creek.	2

City works extensively with (relies on) the ACOE and EC Soil & Water on the issues surrounding Smokes Creek.

Creek has major erosion issues and receives a lot of sedimentation. Again, ACOE and Soil & Water are trying to address the erosion situation with Smokes Creek.

Not actively establishing/ restoring actual buffers. Smokes Creek Regulations protects 50' of shoreline, vegetation required for 15' of shoreline (could be expanded).

ACOE & Soil & Water

ACOE & Soil & Water

Every few years prisoners cut vegetation & clear debris out of Smokes Creek.

3-08	Protect streambanks through direct nonstructural means, such as new vegetation or protection of existing vegetation; direct structural means, such as revetments and bulkheads; indirect nonstructural means, such as regulating irrigation near stream-banks or outing overbank drainage; or indirect structural means, such as deflecting channel flow away from streambanks with dikes, board fences and gabions	Regulation: Stormwater Management §230	2
3-09	Use setbacks to minimize disturbance of land adjacent to streambanks and shorelines	Regulation: §230.17 Smokes creek overlay (50 ft setback), BRA Zone adds another 50' buffer to Smokes Creek Overlay Zone, and 50' side and rear yards in waterfront (BRA Zone).	2
3-10	Prevent discharges to waterbodies in amounts that would adversely affect the taste, color or odor of the waters, or would impair the waters for their best usages	Regulation: §230.43 Stormwater Management (illicit discharge language).	2

Consider adding provisions that give bonuses, incentives to green infrastructure onsite.

Lake Erie buffer protections are limited to setbacks with in BRA Zones, and range from 25-50' with no provisions for riparian, vegetation protections.

Section 3. Waterways & Wetlands: Wetlands and Riparian Area Management and Restoration

FYI -These BMPs mostly address approaching wetlands as a non-point source pollution mitigation resource (as they currently exist) in MS4 communities.

3-11	Consider wetlands and riparian areas and their nps control potential on a watershed scale	Regulation: §230.94 SWPPP	2
3-12	Identify existing functions of those wetland and riparian areas with significant nps control potential when implementing nps management practices. Do not alter wetlands or riparian areas to improve their water quality at the expense of their other functions	Practice: Wetlands are evaluated before every new development as part of DEC requirements.	1
3-13	Conduct permitting, licensing, certification and non-regulatory nps pollution activities in a manner that protects wetland functions	Regulation: §230 Stormwater management	2
3-14	Special zoning considerations to protect wetland areas	Regulation (limited): §230 Stormwater management	1

Much of Lackawanna's wetlands have limited encroachment. Future development unlikely due to bounding properties (Catholic Church and Cemeteries).

Wetlands are mostly protected by default, in that they are almost entirely within or bordered by bordered the Catholic cemeteries.

3-15	Use appropriate pretreatment practices such as vegetated systems or detention or retention basins to prevent adverse impacts to wetland functions that affect nps pollution abatement from hydrologic changes, hydrologic changes, sedimentation or contaminants	Regulation: §230 Stormwater management	2
3-16	All projects should require wetlands certification	Practice: All projects with designated State or Federal Wetlands are submitted to NYS DEC and ACOE for review.	1

Check Environmental Quality Review...

There is no engineer on staff. City consults with DEC.

Final Score: 29 out of 32 Total Possible Points

29

Number of BMPs addressed (either fully or partially): 16 out of 16 BMPs (100%)

Section 4. Marinas: Existing Marinas

Existing Means of Implementation (Law, Regulation, Practice, etc.)

Best Management Practices (BMPs)

Score

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score
4-01	Clean maintenance areas regularly. Preferably by vacuuming to remove trash, sandings, paint chips etc.	n/a	
4-02	Prevent residue from being carried into surface waters by performing abrasive blasting within plastic tarp enclosures on windless days or withing spray booths	n/a	
4-03	Provide proper disposal/recycling facilities to marina patrons, preferably covered receptacles	n/a	
4-04	Establish fish cleaning areas, and implement rules governing the conduct of fish cleaning operations	n/a	
4-05	Educate boaters on the importance of proper fish cleaning practices	n/a	
4-06	Implement fish composting where appropriate	n/a	
4-07	Store materials in areas impervious to the type of material stored. Build curbs, berms, or other barriers around the areas to contain spills	n/a	
4-08	Use separate, clearly labeled containers for the disposal of oil, gasoline, antifreeze, diesel, kerosene and mineral spirits	n/a	

FYI - No publically held land on Waterfront. Marina's are a permitted use in Zoning at this time, however none exist. Entire waterfront is privately held and zoned Bethlehem Redevelopment Area. Future Marina development unlikely based on past shoreline fill, but allowable according to Zoning and LWRP.

4-09	Target outreach programs about proper disposal at marinas through the use of signs, mailings and other means	n/a	
4-10	Promote the use in bilges of oil-absorbing materials, and replace them as necessary, preferably recycling, or disposing of them in accordance with petroleum disposal regulation.	n/a	
4-11	Use a container under the air vent while refueling inboard tanks if the tank vents are not equipped with a fuel/air separator	n/a	
4-12	Prohibit in-water hull scrapings or any underwater process to remove paint from boat hulls	n/a	
4-13	Wash the boat hull above the waterline by hand, using only necessary amounts of detergents and cleaning compounds that are phosphate free and bio-degradable	n/a	
4-14	Prohibit the use of detergents and cleaning compounds containing ammonia, sodium hypochloride, chlorinated solvents, petroleum distillates, alcohol or lye	n/a	
4-15	Educate individuals about the importance of trash reduction and recycling through: interpretive and instructional signs placed at marinas and boat launching sites, pamphlets or flyers, newsletters, inserts in billings, meetings and presentations, workshops, and certification programs	n/a	
4-16	Inspect pumpout facilities regularly, and repair them if practical, under a maintenance contract with a competent contractor	n/a	
4-17	Add language to slip lease agreements mandating the use of pumpout facilities and specifying penalties for failure to comply	n/a	
4-18	Place dye tablets in holding tanks to identify and discourage illegal disposal	n/a	

4-19	Prohibit motorized vessels from areas (define areas) that contain important shallow-water habitats	n/a	
4-20	Establish and enforce no-wake zones to decrease turbidity and reduce erosion potential from boat wakes	n/a	

Section 4. Marinas: New Marinas

4-21	Design and site marinas to maximize exchange of marina basin water. Limit basins and channels with square corners that tend to trap flotsam, and place dock structures in a manner that promotes circulation		0
4-22	Perform a preconstruction assessment, which includes a water quality monitoring and modeling methodology, to predict post-construction water quality conditions		0
4-23	Monitor water quality during construction to protect ambient water quality to the maximum practicable extent	Regulation (limited): Stormwater Management §230, SWPPPs.	1
4-24	Develop a marina siting policy to discourage development in areas containing important habitat designated by local, State, or federal agencies	Regulation (limited): Chp. 223 Waterfront Revitalization Program, LWRP	1
4-25	Conduct surveys and employ rapid bioassessment techniques to assess historic habitat function (e.g. spawning, nursery, and migration pathways) and potential impacts to these and other biological functions and resources		0
4-26	Encourage the redevelopment or expansion of existing marina facilities that have demonstrated minimal environmental impacts instead of developing new marina facilities	n/a	n/a
4-27	Consider alternative sites with minimal potential environmental impacts when the use of previously disturbed sites is not feasible		0
4-28	Minimize disturbance of indigenous vegetation in the riparian area		0

Zoning Code allows marinas (Maritime Activities) as a Permitted use within the BRA district, but code does not include any other regulations on the design of such facilities.

Note: LWRP was developed in 1989. Dated and missing detail and relevance to BOA but still in effect.

4-29	Use soil bioengineering or plants, wherever conditions allow, to restore damaged habitat along shorelines and streambanks	Regulation (limited): Chp. 223 Waterfront Revitalization Program, LWRP	1
4-30	Use properly designed and constructed engineering practices that minimize shoreline disturbance in areas where soil bioengineering and plants are ineffective		0
4-31	Use appropriate shore erosion control methods, such as returns or return walls, in areas where existing protection methods are being flanked or are falling		0
4-32	Plan and design all steambank, shoreline, and navigation structures so that they do not transfer erosion energy to or otherwise cause visible loss of surrounding streambanks or shorelines	Regulation (limited): Chp. 223 Waterfront Revitalization Program, LWRP	1
4-33	Locate and design fuel stations so that spills can be contained in a limited area		0
4-34	Design and install underground fuel storage tanks according to State regulations, including the provision of detection systems and automatic fuel tank and pump leak shut-offs	Regulation: Building Code Administration Chp. 75, Part of the NYS Uniform Fire Prevention and Building Code.	2
4-35	Provide aboveground fuel tanks and fueling areas with a curbed or diked storage area to handle containment volumes meeting State (and local) codes and inspect regularly	Regulation: Building Code Administration Chp. 75-11, Part of the NYS Uniform Fire Prevention and Building Code.	2
4-36	Use preferred pumpout systems: fixed-point, portable, dedicated slipside, and pumpout boats		0
4-37	Design onsite wastewater treatment systems to specifically handle waste from vessels		0

Recommended in LWRP, not sure if practice is being employed.

Confirm with Steve

4-38	Post pumpout facility location and regulations at the marina. Charge fees that encourage rather than discourage facility use. Consider offsetting the cost of maintaining pumpout facilities by fuel sales where these facilities are conveniently located in close proximity to one another		0
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Section 4. Marinas: All Marinas (Existing & New)

4-39	Restrict boat repair and maintenance activities to clearly marked designated areas to prevent debris from falling into the water and preventing invasive species		0
4-40	Secure all fueling facilities and storage areas with appropriate shut-off devices and security locks and inspect regularly		0
4-41	Design fueling stations with spill containment equipment that is stored in a clearly marked location, accessible to work and storage areas. Post emergency phone numbers in a prominent location		0
4-42	Design a spill contingency plan		0
4-43	Inspect and maintain all containment berms or devices in accordance with State regulations. Investigate immediately signs of leakage or spillage, and undertake cleanup in accordance with applicable best management practices		0
4-44	Have a trained operator present and prepared to respond to accidental spills		0
4-45	Maintain daily inventory records to identify abnormal loss or gain of liquid		0
4-46	Prohibit the cleaning of hoses, fittings, pumps, and other accessory equipment on piers, docks or adjacent upland to prevent runoff into the marina basin or other surface or groundwater		0

4-47	Create and/or maintain a dedicated fund for maintenance in the case of government-owned facilities	n/a	n/a
4-48	Restrict the operation of pumpout facilities to trained marina personnel only		0

8
 Majorly lost points, but unlikely that a Marina would locate on the shoreline do to it's past use, extension of land based on steel industry slag and ecomically challenged area in general. Entire waterfront in the City needs major incentives to spur revitalization, but city is struggling financially.

Final Score: 8 out of 50 Total Possible Points

Number of BMPs addressed (either fully or partially): 6 out of 26 BMPs (23%)

Section 5. Roads and Bridges: Existing Roads & Bridges

Existing Means of Implementation (Law, Regulation, Practice, etc.)

Score

Best Management Practices (BMPs)

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score
5-01	Conduct road and bridge maintenance (deicing material usage and storage, pot-hole repair, bridge washing, scraping and painting, etc) according to best management practices	Practice: City follows BMPs in NYS Highway Superintendent's Roads and Water Quality Handbook.	2
5-02	Conduct right-of-way activities (mowing, brush removal, pesticide and fertilizer use, etc) according to best management practices	Practice: The city only mows. No fertilizer or pesticides.	2
5-03	Include high percentage of indigenous plants in new landscaping on public-owned properties (excluding arboretums, horticultural gardens, and site requiring turf grasses)	Regulation: §230.34 Landscaping	2
5-04	Implement a regular inspection and maintenance plan of existing structures	Practice: Inspections happen several times a year.	1
5-05	Develop and identify erosion/sediment control areas (examples include steep slopes, easily erodible soils, and nearby sensitive areas) and retrofit opportunities	Regulation: §230.32 Erosion & Sedimentation	1
5-06	Require percentage of roads to be tested with non-ice and non-sand de-icing.	Regulation (limited): Sidewalks §193.23 (use sand and other de-icing materials pre shoveling).	1

See Mary Rossi's MS4 Assessments for additional info.

Mostly, out of budget issues

Not actively conducting retrofit opportunities unless part of a scheduled road maintenance project?

Section 5. Roads and Bridges: New Roads & Bridges

5-07	Minimize the amount of land disturbed and the duration of disturbance.	Regulation: Stormwater Management §230	2
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5-08	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	Regulation: Stormwater Management §230.90, §230.1 Zoning Purpose, §230-28 Regulations Applicable to All Districts, §230-34 Landscaping.	2
5-09	Retain and protect trees and other natural vegetation on and near disturbed sites	Regulation: Stormwater Management §230.90, §230.1 Zoning Purpose, §230-28 Regulations Applicable to All Districts, §230-34 Landscaping.	2
5-10	Retain additional runoff sites	Regulation: §230 Stormwater Management	2
5-11	Minimize the creation of impervious areas	Regulation: §230.21 Smoke Creek Overlay, §230.36 Parking & Loading, Greenspace Performance Standards in Zoning District requirements.	2
5-12	Treat increased runoff caused by changed surface conditions to minimize the danger of flooding, erosion and pollutants entering waterbodies prior to, during and after construction	Regulation: §230 Stormwater Management	2
5-13	Use temporary vegetation and mulching to protect exposed and critical areas during development	Regulation: §230 Stormwater Management, §230.32 Erosion & Sedimentation, §230.34 Landscaping	2
5-14	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	Regulation: §230 Stormwater Management, §230.32 Erosion & Sedimentation, §230.34 Landscaping	2
5-15	Stabilize disturbed soils as soon as possible	Regulation: §230 Stormwater Management, §230.32 Erosion & Sedimentation, §230.34 Landscaping.	2
5-16	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff	Regulation: §230 Stormwater Management	2
5-17	Control erosion and sedimentation prior to, during and after site preparation and construction	Regulation: §230 Stormwater Management, §230.32 Erosion & Sedimentation, §230.34 Landscaping	2
5-18	Require long term stormwater management plan.	Regulation: §230 Stormwater Management	2
5-19	Require long term sedimentation control & maintenance.	Regulation: §230 Stormwater Management	2

Section 5. Roads and Bridges: All Roads & Bridges (Existing & New)

5-20	Target existing public holdings, such as parks, for removing unnecessary impervious surfaces	Regulation: §230-36 Parking, Art. III Zoning Districts - Lot Coverage requirements. Practice: Developing a Rain Garden for City Hall. There is a big push to increase permeability with new development.	2	Example: Pulled out old gas station and re-greened site.
5-21	Incorporate NYSDOT design and guidance documents, standard specifications, and procedural manuals (Highway Design Manual, Environmental Procedures Manual, Maintenance Guidelines, etc) into local laws and operating procedures	Practice: City's engineering firm always follows NYS specs.	2	Town does not have in-house engineering. Contracts out to TVGA.
5-22	Ensure application of appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	Regulation: §190 Solid Waste Practice: Educational outreach for recycling & instituting larger recycling totes.	2	
5-23	Ensure proper operation and maintenance of runoff management facilities	n/a	n/a	Discuss with Erie County Sewer District. There are no ditches in the city, only sewer.
5-24	Participate in Cornell Local Roads Program activities and training	Not currently	0	The city is having difficulty have people attend extra training, as they are short staffed.
5-25	Target training programs at highway officials, contractors, construction workers, inspectors, zoning and planning officials	Practice: Limited numbers of staff attend (when possible).	1	The city is having difficulty have people attend extra training, as they are short staffed. The Code enforcement/MS4 officer is up to date on all training
5-26	Target training and outreach programs about the proper handling of materials, leakage and spill prevention and spill response procedures at maintenance staff and workers	Practice: Town staff is trained on Hazardous Waste Operations and Emergency Response (HAZWOPER).	2	

Final Score: 44 out of 50 Total Possible Points

44

Number of BMPs addressed (either fully or partially): 24 out of 25 BMPs (96%)

Section 6: Onsite Wastewater Treatment Systems

Existing Means of Implementation (Law, Regulation, Practice, etc.)

Score

FYI- There are no on-site wastewater systems in town.

Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score
6-01 Conduct regular inspections of OWTS at a frequency adequate to determine failure and undertake required maintenance	n/a	n/a
6-02 Institute setback guidelines	n/a	n/a
6-03 Promulgate plumbing codes that require practices that are compatible with OWTS	n/a	n/a

6-04	Target outreach programs at homeowners, contractors and developers	n/a	n/a
6-05	Inspection of all OWTS at property transfer or within 1 year prior to transfer	n/a	n/a
6-06	Require all properties within 500' of municipal service to connect.	Regulation: Sewers §185	2
6-07	Set goals for effluent limits (nitrogen, phosphorous, BOD, etc)	n/a	n/a

Final Score: 2 out of 2 Total Possible Points 2

Number of BMPs addressed (either fully or partially): 2 out of 2 (100%)

Overall Assessment Score: 155 out of 212 Total Possible Points 155

Number of BMPs addressed (either fully or partially): 85 out of 107 BMPs (79%)

City of Niagara Falls Assessment Form

Completed November 2014

Section 1. Development: Existing Development

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score	Meeting Notes, Follow-Up Questions & Comments
1-01	Identify retrofit opportunities	Regulation: §1319.2.8 Zoning Ordinance	2	Gives guidelines for infill development
1-02	Identify habitat and natural conveyance system restoration	Regulation: §1316.1 Open Space District	2	
1-03	Establish retention/detention areas	Practice: New initiatives with Riverkeeper at Hyde Park Lake	1	Hyde park
1-04	Acquire additional land for locating treatment facilities	n/a		
1-05	Encourage homeowners to place compost piles away from waterbodies and roadways		0	
1-06	Encourage proper use and disposal of lawn and other household chemicals	Regulation: Waste Management Regulations	2	waste management
1-07	Institute turf management practices on golf courses and parks and recreation areas		0	
1-08	Undertake storm drain stenciling		0	
1-09	Encourage volunteer programs, such as adopt-a-highways and adopt-a-stream, etc.		0	The City tried but it wasn't sustainable.
1-10	Include high percentage of indigenous plants in new landscaping on privately-owned properties (excluding arboretums, horticultural gardens, and sites requiring turf grasses)	Regulation: §1322.4 Site Plan Approval (General Requirements)	2	
1-11	Encourage water conservation	Regulation: NYS Building Codes	2	
1-12	Develop outreach programs targeted at specific problems related to water quality management & resource conservation		0	tried but it didn't work
1-13	Encourage proper control of pet wastes	Regulation: Waste Management Regulations	2	
1-14	Encourage continued operation of private storm water runoff control structures	Practice: Stormwater is underground, only enforced if there is a known problem.	2	
1-15	Discourage feeding of waterfowl		0	
1-16	Discourage the introduction of exotic aquatic species (Eurasian water milfoil, zebra mussels, water chestnut, etc)		0	
1-17	Encourage continued (periodic) operation and maintenance of private septic disposal systems	N/A		
1-18	Effective and consistent application and enforcement of stormwater regulations & requirements	Regulation: Stormwater Management Ordinance	2	
1-19	Require certification of existing on site septic systems for property transfers or building expansions.	N/A		
1-20	Require entire property (existing as well as proposed) to be included in stormwater analysis/calculation.	Regulation: Stormwater Management Ordinance	2	

Section 1. Development: New Development and Substantial Redevelopment

1-21	Minimize the amount of land disturbed and the duration of disturbance	Regulation: §1322.4 Site Plan Approval (General Requirements)	2
1-22	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	Regulation: §1322.4 Site Plan Approval (General Requirements)	2
1-23	Retain and protect trees and other natural vegetation on and near disturbed sites	Regulation: §1322.4 Site Plan Approval (General Requirements)	2
1-24	Account for topography and soil types in efforts to minimize erosion potential	Limited Regulation: Stormwater Management Ordinance	1
1-25	Maintain run-off rates similar to pre-construction levels	Regulation: Stormwater Management Ordinance	2
1-26	Minimize the creation of impervious areas	Limited Regulation: Landscaping & Buffers (partial)	1
1-27	Control increased run-off caused by changed surface conditions to minimize the danger of flooding, erosion, sedimentation and pollutants entering waterbodies prior to, during and after construction		0
1-28	Use temporary vegetation and mulching to protect exposed and critical areas during development	Regulation: Stormwater Management Ordinance	2
1-29	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	Regulation: Stormwater Management Ordinance	2
1-30	Stabilize disturbed soils as soon as possible	Regulation: Stormwater Management Ordinance	2
1-31	Minimize the use of cut & fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate run-off	N/A	
1-32	Use appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	Regulation: §1328.11 Special permits, Light manufacturing	2
1-33	Encourage construction site management techniques which include the proper handling and disposal of pesticides and petroleum products and containers		0
1-34	Ensure proper operation and maintenance of run-off management facilities	Practice: Water Board Function	1
1-35	Target training for contractors, inspectors, zoning and planning officials		0
1-36	Require tree surveys and/or cutting plans	Practice: Mature trees are sometimes identified for protection in site plan review.	1
1-37	Develop priority list for BMP's - use of vegetative low areas for retention/infiltration		0
1-38	Encourage cluster development	Practice: Clustering is not applicable, but the City does have a density requirement.	1
1-39	Require connection to and/or extension of existing water & sewer if project is within 500 feet of existing infrastructure	Regulation: Sewer	2

Claims addressed in SEQRA Process

On city agenda

1-40	Enact limits on driveway grades	N/A	
1-41	For redevelopment, employ regulations that provide for technologically advanced (on and off) site wastewater treatment systems to optimize efficiencies and address challenging sites	Practice: Water Board function, allowed.	1
1-42	Implement Fed/State Stormwater (SPDES) Phase II requirements	Regulation: Stormwater Management Ordinance, WNY Stormwater Coalition Participation.	2

need fence around storm management ponds

Section 2. Forestry & Agriculture: Forestry

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

There is no forestry or agriculture in the City.

Section 2. Forestry & Agriculture: Agriculture

Section 3. Waterways & Wetlands: Modified Waterways

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

3-01	Develop an operation and maintenance program for existing modified streams that includes identification of opportunities and actions to restore habitat and the physical and chemical characteristics of these streams	Practice: Hyde Park Lake Restoration (also serves as stormwater facility), and regularly monitors streams for debris that would cause flooding.	1
3-02	Improve stream quality by controlling instream sedimentation and selectively clearing debris	Practice: See above.	1
3-03	Establish or reestablish riparian buffers		0
3-04	Prevent animal wastes from entering waterbodies	Regulation: Waste Management Ordinance	1
3-05	Attempt vegetative stabilization before undertaking structural measures		0
3-06	Design and construct shore erosion control facilities in accordance with an erosion and sedimentation control plan, in areas where marsh creation and soil bioengineering and ineffective or where existing protection methods are being flanked or are failing		0
3-07	Schedule the periodic maintenance of sediment control measures, and inspect and repair them as needed in conformance with established schedule		0

Monitor & report to DPW - Cayuga Creek

City relies on SEQRA for this.

3-08	Protect streambanks through direct nonstructural means, such as new vegetation or protection of existing vegetation; direct structural means, such as revetments and bulkheads; indirect nonstructural means, such as regulating irrigation near stream-banks or outing overbank drainage; or indirect structural means, such as deflecting channel flow away from streambanks with dikes, board fences and gabions		0
3-09	Use setbacks to minimize disturbance of land adjacent to streambanks and shorelines	Limited Regulation: Overlay for Cayuga Island (equal to front yard setbacks - 15 feet).	1
3-10	Prevent discharges to waterbodies in amounts that would adversely affect the taste, color or odor of the waters, or would impair the waters for their best usages	Regulation: §1328.11 Light Manufacturing	2

Confirm this

Section 3. Waterways & Wetlands: Wetlands and Riparian Area Management and Restoration

3-11	Consider wetlands and riparian areas and their nps control potential on a watershed scale		0
3-12	Identify existing functions of those wetland and riparian areas with significant nps control potential when implementing nps management practices. Do not alter wetlands or riparian areas to improve their water quality at the expense of their other functions		0
3-13	Conduct permitting, licensing, certification and non-regulatory nps pollution activities in a manner that protects wetland functions		1
3-14	Special zoning considerations to protect wetland areas	Limited Regulation: Scenic protections only	1
3-15	Use appropriate pretreatment practices such as vegetated systems or detention or retention basins to prevent adverse impacts to wetland functions that affect nps pollution abatement from hydrologic changes, hydrologic changes, sedimentation or contaminants		0
3-16	All projects should require wetlands certification		0

Check with Rick Roll

Check with Rick Roll

City uses SEQRA two track review system. There is no site plan review necessary for level 1.

Check with Rick Roll

City uses SEQRA

Section 4. Marinas: Existing Marinas

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

The City does not own or operate any marinas. There is one active marina and numerous docks

4-01	Clean maintenance areas regularly. Preferably by vacuuming to remove trash, sandings, paint chips etc.		0
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4-02	Prevent residue from being carried into surface waters by performing abrasive blasting within plastic tarp enclosures on windless days or within spray booths		0
4-03	Provide proper disposal/recycling facilities to marina patrons, preferably covered receptacles		0
4-04	Establish fish cleaning areas, and implement rules governing the conduct of fish cleaning operations		0
4-05	Educate boaters on the importance of proper fish cleaning practices		0
4-06	Implement fish composting where appropriate		0
4-07	Store materials in areas impervious to the type of material stored. Build curbs, berms, or other barriers around the areas to contain spills		0
4-08	Use separate, clearly labeled containers for the disposal of oil, gasoline, antifreeze, diesel, kerosene and mineral spirits		0
4-09	Target outreach programs about proper disposal at marinas through the use of signs, mailings and other means		0
4-10	Promote the use in bilges of oil-absorbing materials, and replace them as necessary, preferably recycling, or disposing of them in accordance with petroleum disposal regulation.		0
4-11	Use a container under the air vent while refueling inboard tanks if the tank vents are not equipped with a fuel/air separator		0
4-12	Prohibit in-water hull scrapings or any underwater process to remove paint from boat hulls		0
4-13	Wash the boat hull above the waterline by hand, using only necessary amounts of detergents and cleaning compounds that are phosphate free and bio-degradable		0
4-14	Prohibit the use of detergents and cleaning compounds containing ammonia, sodium hypochloride, chlorinated solvents, petroleum distillates, alcohol or lye		0
4-15	Educate individuals about the importance of trash reduction and recycling through: interpretive and instructional signs placed at marinas and boat launching sites, pamphlets or flyers, newsletters, inserts in billings, meetings and presentations, workshops, and certification programs		0
4-16	Inspect pumpout facilities regularly, and repair them if practical, under a maintenance contract with a competent contractor		0

Griffin Park has a boat launch, there's a private marina at Buffalo Avenue that is no longer in operation.

City falls back on Army Corp of Engineers and NYS DEC for regulations addressing waterfront and in-water docks and marinas.

4-17	Add language to slip lease agreements mandating the use of pumpout facilities and specifying penalties for failure to comply		0
4-18	Place dye tablets in holding tanks to identify and discourage illegal disposal		0
4-19	Prohibit motorized vessels from areas (define areas) that contain important shallow-water habitats		0
4-20	Establish and enforce no-wake zones to decrease turbidity and reduce erosion potential from boat wakes		0

Section 4. Marinas: New Marinas

4-21	Design and site marinas to maximize exchange of marina basin water. Limit basins and channels with square corners that tend to trap flotsam, and place dock structures in a manner that promotes circulation		0
4-22	Perform a preconstruction assessment, which includes a water quality monitoring and modeling methodology, to predict post-construction water quality conditions		0
4-23	Monitor water quality during construction to protect ambient water quality to the maximum practicable extent		0
4-24	Develop a marina siting policy to discourage development in areas containing important habitat designated by local, State, or federal agencies		0
4-25	Conduct surveys and employ rapid bioassessment techniques to assess historic habitat function (e.g. spawning, nursery, and migration pathways) and potential impacts to these and other biological functions and resources		0
4-26	Encourage the redevelopment or expansion of existing marina facilities that have demonstrated minimal environmental impacts instead of developing new marina facilities		0
4-27	Consider alternative sites with minimal potential environmental impacts when the use of previously disturbed sites is not feasible		0
4-28	Minimize disturbance of indigenous vegetation in the riparian area		0
4-29	Use soil bioengineering or plants, wherever conditions allow, to restore damaged habitat along shorelines and streambanks		0

4-30	Use properly designed and constructed engineering practices that minimize shoreline disturbance in areas where soil bioengineering and plants are ineffective		0
4-31	Use appropriate shore erosion control methods, such as returns or return walls, in areas where existing protection methods are being flanked or are falling		0
4-32	Plan and design all steambank, shoreline, and navigation structures so that they do not transfer erosion energy to or otherwise cause visible loss of surrounding streambanks or shorelines		0
4-33	Locate and design fuel stations so that spills can be contained in a limited area		0
4-34	Design and install underground fuel storage tanks according to State regulations, including the provision of detection systems and automatic fuel tank and pump leak shut-offs		0
4-35	Provide aboveground fuel tanks and fueling areas with a curbed or diked storage area to handle containment volumes meeting State (and local) codes and inspect regularly		0
4-36	Use preferred pumpout systems: fixed-point, portable, dedicated slipside, and pumpout boats		0
4-37	Design onsite wastewater treatment systems to specifically handle waste from vessels		0
4-38	Post pumpout facility location and regulations at the marina. Charge fees that encourage rather than discourage facility use. Consider offsetting the cost of maintaining pumpout facilities by fuel sales where these facilities are conveniently located in close proximity to one another		0

Section 4. Marinas: All Marinas (Existing & New)

4-39	Restrict boat repair and maintenance activities to clearly marked designated areas to prevent debris from falling into the water and preventing invasive species		0
4-40	Secure all fueling facilities and storage areas with appropriate shut-off devices and security locks and inspect regularly		0
4-41	Design fueling stations with spill containment equipment that is stored in a clearly marked location, accessible to work and storage areas. Post emergency phone numbers in a prominent location		0
4-42	Design a spill contingency plan		0

4-43	Inspect and maintain all containment berms or devices in accordance with State regulations. Investigate immediately signs of leakage or spillage, and undertake cleanup in accordance with applicable best management practices		0
4-44	Have a trained operator present and prepared to respond to accidental spills		0
4-45	Maintain daily inventory records to identify abnormal loss or gain of liquid		0
4-46	Prohibit the cleaning of hoses, fittings, pumps, and other accessory equipment on piers, docks or adjacent upland to prevent runoff into the marina basin or other surface or groundwater		0
4-47	Create and/or maintain a dedicated fund for maintenance in the case of government-owned facilities		0
4-48	Restrict the operation of pumpout facilities to trained marina personnel only		0

Section 5. Roads and Bridges: Existing Roads & Bridges

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

5-01	Conduct road and bridge maintenance (deicing material usage and storage, pot-hole repair, bridge washing, scraping and painting, etc) according to best management practices	Limited Practice: Follows DOT manual.	1
5-02	Conduct right-of-way activities (mowing, brush removal, pesticide and fertilizer use, etc) according to best management practices		0
5-03	Include high percentage of indigenous plants in new landscaping on public-owned properties (excluding arboretums, horticultural gardens, and site requiring turf grasses)	Practice: Yes, when Planning Department reviews Dept of Public Works projects native species are required. Otherwise DPW installs what they want.	1
5-04	Implement a regular inspection and maintenance plan of existing structures	There is a regular inspection of structures, especially in flood prone areas.	1
5-05	Develop and identify erosion/sediment control areas (examples include steep slopes, easily erodible soils, and nearby sensitive areas) and retrofit opportunities		0
5-06	Require percentage of roads to be tested with non-ice and non-sand de-icing.		0

Limited basis @ Lasalle waterfront park

Section 5. Roads and Bridges: New Roads & Bridges

New roads and redesigns are rare.

5-07	Minimize the amount of land disturbed and the duration of disturbance	N/A	
5-08	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	N/A	
5-09	Retain and protect trees and other natural vegetation on and near disturbed sites	Practice: Yes, when possible	1
5-10	Retain additional runoff sites	N/A	
5-11	Minimize the creation of impervious areas	Practice: Yes, when possible	1
5-12	Treat increased runoff caused by changed surface conditions to minimize the danger of flooding, erosion and pollutants entering waterbodies prior to, during and after construction		0
5-13	Use temporary vegetation and mulching to protect exposed and critical areas during development	Regulation: Stormwater Management Ordinance	2
5-14	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	Regulation: Stormwater Management Ordinance	2
5-15	Stabilize disturbed soils as soon as possible	Regulation: Stormwater Management Ordinance	2
5-16	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff	Regulation: Stormwater Management Ordinance	2
5-17	Control erosion and sedimentation prior to, during and after site preparation and construction	Regulation: Stormwater Management Ordinance	2
5-18	Require long term stormwater management plan.	Regulation: Stormwater Management Ordinance	2
5-19	Require long term sedimentation control & maintenance.	Regulation: Stormwater Management Ordinance	2

Section 5. Roads and Bridges: All Roads & Bridges (Existing & New)

5-20	Target existing public holdings, such as parks, for removing unnecessary impervious surfaces	Practice: Yes, Limited opportunities. Removed pavement at LaSalle waterfront park, replace with porous unlock.	1
5-21	Incorporate NYSDOT design and guidance documents, standard specifications, and procedural manuals (Highway Design Manual, Environmental Procedures Manual, Maintenance Guidelines, etc) into local laws and operating procedures	Practice: Yes	1
5-22	Ensure application of appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	Practice: Yes	1
5-23	Ensure proper operation and maintenance of runoff management facilities		0

5-24	Participate in Cornell Local Roads Program activities and training		0
5-25	Target training programs at highway officials, contractors, construction workers, inspectors, zoning and planning officials		0
5-26	Target training and outreach programs about the proper handling of materials, leakage and spill prevention and spill response procedures at maintenance staff and workers	Regulation: Hazwhoper & OSHA	2

Section 6: Onsite Wastewater Treatment Systems	
Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)

The City has no Onsite Wastewater Treatment Systems

Final Score: 77 out of 238 Total Possible Points

City of North Tonawanda Assessment Form

Completed December 2014

Section 1. Development: Existing Development

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score	Meeting Notes, Follow-Up Questions & Comments
1-01	Identify retrofit opportunities	Practice: City is actively identifying opportunities for green infrastructure on existing structures	2	Rain Gardens in parking lots, Webster Street Green Infrastructure
1-02	Identify habitat and natural conveyance system restoration	Limited Regulations: §48 Stormwater Management, Chp. 91 Trees	1	
1-03	Establish retention/detention areas	Regulation: §48 Stormwater Management. Practice: The city is against retention basins. They do have detention for quantity and quality, but don't want standing water with mosquitos and other liabilities. When it rains the city has invested a lot of money on storm sewers and storm infrastructure. Want to address water before flood conditions. There is not a lot of detention but city is meeting the quality needs.	2	
1-04	Acquire additional land for locating treatment facilities	City has limited ability to do this as they are primarily built out. Additional infrastructure should focus on limiting stormwater inflows into combined system.	2	There are few overflow events. All flows go into treatment facility (City sells about 3 million gallons per day and treats about 3 million gallons per day. The city stores storm events on the left side of the plant and then after the event, they run water through (acts as a holding faciilty). any storm overflows must be reported within 48 hours. Pumping events have gone down in number
1-05	Encourage homeowners to place compost piles away from waterbodies and roadways	Regulation: §48 Stormwater Management	2	
1-06	Encourage proper use and disposal of lawn and other household chemicals	Regulation: §45 Solid Waste	2	
1-07	Institute turf management practices on golf courses and parks and recreation areas	Yes. City follows proper procedures for fertilization & pesticide application.	1	
1-08	Undertake storm drain stenciling	Regulation: §75.34 Storm Sewers	2	
1-09	Encourage volunteer programs, such as adopt-a-highways and adopt-a-stream, etc.		0	
1-10	Include high percentage of indigenous plants in new landscaping on privately-owned properties (excluding arboretums, horticultural gardens, and sites requiring turf grasses)	Regulation: §103.26 Site Development	2	
1-11	Encourage water conservation	Stormwater coalition brochures are on display in city buildings as well as occasionally in the public library	1	
1-12	Develop outreach programs targeted at specific problems related to water quality management & resource conservation	Stormwater management info page on City website	1	
1-13	Encourage proper control of pet wastes	Regulation: §33 Dogs	2	
1-14	Encourage continued operation of private storm water runoff control structures	Regulation: §48 Stormwater Management	2	
1-15	Discourage feeding of waterfowl		0	Nothing official.

1-16	Discourage the introduction of exotic aquatic species (Eurasian water milfoil, zebra mussels, water chestnut, etc	Regulation: §103.26 Site Development	2
1-17	Encourage continued (periodic) operation and maintenance of private septic disposal systems	§69.10 Septic Tanks Public sewers required	2
1-18	Effective and consistent application and enforcement of stormwater regulations & requirements	Regulation: §48 Stormwater Management	2
1-19	Require certification of existing on site septic systems for property transfers or building expansions.	1 (known) onsite septic system in city. Any onsite septic systems grandfathered in, but if found, abated by the city	1
1-20	Require entire property (existing as well as proposed) to be included in stormwater analysis/calculation.	Regulation: §48 Stormwater Management	2

There are a few combined sewers in the historic part of the city, but mostly MS4

Yearly spring clean-ups

Section 1. Development: New Development and Substantial Redevelopment

Flooding is still a major issue

1-21	Minimize the amount of land disturbed and the duration of disturbance	Regulation: Stormwater Management §48 Regulation: §103.26 Site Development Regulations	2
1-22	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	Regulation: Stormwater Management §48 Regulation: §103.26 Site Development Regulations	2
1-23	Retain and protect trees and other natural vegetation on and near disturbed sites	Regulation: Stormwater Management §48 Regulation: §103.26 Site Development Regulations	2
1-24	Account for topography and soil types in efforts to minimize erosion potential	Regulation: Stormwater Management §48 Regulation: §103.26 Site Development Regulations	2
1-25	Maintain run-off rates similar to pre-construction levels	Regulation: §48 Stormwater Management	2
1-26	Minimize the creation of impervious areas	Only 25% of a yard can be covered by a building. Anything over that must be reviewed & approved	1
1-27	Control increased run-off caused by changed surface conditions to minimize the danger of flooding, erosion, sedimentation and pollutants entering waterbodies prior to, during and after construction	Regulation: Stormwater Management §48 Regulation: §73.23 Discharge Prohibitions Regulation: §103.26 Site Development Regulations	2
1-28	Use temporary vegetation and mulching to protect exposed and critical areas during development	Regulation: §48 Stormwater Management	2
1-29	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	Regulation: §48 Stormwater Management	2
1-30	Stabilize disturbed soils as soon as possible	Regulation: §48 Stormwater Management	2
1-31	Minimize the use of cut & fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate run-off	Regulation: §48 Stormwater Management	2
1-32	Use appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	Regulation: §45 Solid Waste	2
1-33	Encourage construction site management techniques which include the proper handling and disposal of pesticides and petroleum products and containers	Regulation: §48 Stormwater Management	2
1-34	Ensure proper operation and maintenance of run-off management facilities	Regulation: §48 Stormwater Management	2

Impervious Cover is difficult with extremely hydric soils.

1-35	Target training for contractors, inspectors, zoning and planning officials		0
1-36	Require tree surveys and/or cutting plans	Regulation: §91-3 Tree Welfare	2
1-37	Develop priority list for BMP's - use of vegetative low areas for retention/infiltration		0
1-38	Encourage cluster development	More of a focus in the waterfront district	2
1-39	Require connection to and/or extension of existing water & sewer if project is within 500 feet of existing infrastructure	Public sewers required	1
1-40	Enact limits on driveway grades	Yes.	2
1-41	For redevelopment, employ regulations that provide for technologically advanced (on and off) site wastewater treatment systems to optimize efficiencies and address challenging sites	Regulation: Public sewers required	2
1-42	Implement Fed/State Stormwater (SPDES) Phase II requirements	Regulation: §48 Stormwater Management	2

Grading ordinance enacted in the 70s

Section 2. Forestry & Agriculture: Forestry

There is no forestry or agriculture in North Tonawanda

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

Section 2. Forestry & Agriculture: Agriculture

Section 3. Waterways & Wetlands: Modified Waterways

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

Grading ordinance regulates based on two levels of land disturbance

3-01	Develop an operation and maintenance program for existing modified streams that includes identification of opportunities and actions to restore habitat and the physical and chemical characteristics of these streams	Regulation: Chapter 48 Grading and Stormwater Management	2
3-02	Improve stream quality by controlling instream sedimentation and selectively clearing debris	Regulation: Chapter 48 Grading and Stormwater Management	2
3-03	Establish or reestablish riparian buffers	Regulation: Chapter 48 Grading and Stormwater Management	2
3-04	Prevent animal wastes from entering waterbodies	Regulation: Chapter 48 Grading and Stormwater Management	2
3-05	Attempt vegetative stabilization before undertaking structural measures	Regulation: Chapter 48 Grading and Stormwater Management	2
3-06	Design and construct shore erosion control facilities in accordance with an erosion and sedimentation control plan, in areas where marsh creation and soil bioengineering and ineffective or where existing protection methods are being flanked or are failing	Regulation: Chapter 48 Grading and Stormwater Management	2
3-07	Schedule the periodic maintenance of sediment control measures, and inspect and repair them as needed in conformance with established schedule	Regulation: Chapter 48 Grading and Stormwater Management	2

3-08	Protect streambanks through direct nonstructural means, such as new vegetation or protection of existing vegetation; direct structural means, such as revetments and bulkheads; indirect nonstructural means, such as regulating irrigation near stream-banks or outing overbank drainage; or indirect structural means, such as deflecting channel flow away from streambanks with dikes, board fences and gabions	Regulation: Chapter 48 Grading and Stormwater Management	2
3-09	Use setbacks to minimize disturbance of land adjacent to streambanks and shorelines	Regulation: Chapter 48 Grading and Stormwater Management	2
3-10	Prevent discharges to waterbodies in amounts that would adversely affect the taste, color or odor of the waters, or would impair the waters for their best usages	Regulation: Chapter 48 Grading and Stormwater Management	2

Section 3. Waterways & Wetlands: Wetlands and Riparian Area Management and Restoration

3-11	Consider wetlands and riparian areas and their nps control potential on a watershed scale	Limited Regulation: §44-1 Freshwater Wetlands (Legislative Intent)	1	§44 freshwater wetlands chapter. Defines legislative authority, but with no regulation to follow (confusing)	
3-12	Identify existing functions of those wetland and riparian areas with significant nps control potential when implementing nps management practices. Do not alter wetlands or riparian areas to improve their water quality at the expense of their other functions	Limited Regulation: §44-1 Freshwater Wetlands (Legislative Intent)	1		Site development regulations include references but they are extremely limited in scope and guidance.
3-13	Conduct permitting, licensing, certification and non-regulatory nps pollution activities in a manner that protects wetland functions	Regulation: §48 Stormwater Management	2		
3-14	Special zoning considerations to protect wetland areas	Limited Regulation: §48 Stormwater Management	1		
3-15	Use appropriate pretreatment practices such as vegetated systems or detention or retention basins to prevent adverse impacts to wetland functions that affect nps pollution abatement from hydrologic changes, hydrologic changes, sedimentation or contaminants	Regulation: §103.26 Site Development Regulations (refer to federal & state standards)	2		
3-16	All projects should require wetlands certification	Defer to federal & state regulations	1		

Section 4. Marinas: Existing Marinas

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)		City owns 6 marinas
4-01	Clean maintenance areas regularly. Preferably by vacuuming to remove trash, sandings, paint chips etc.	§20 Boat Docks	2	
4-02	Prevent residue from being carried into surface waters by performing abrasive blasting within plastic tarp enclosures on windless days or withing spray booths		0	
4-03	Provide proper disposal/recycling facilities to marina patrons, preferably covered receptacles	§20 Boat Docks	2	
4-04	Establish fish cleaning areas, and implement rules governing the conduct of fish cleaning operations		0	Hoping to put in fish cleaning facilities in various marinas in the near future

4-05	Educate boaters on the importance of proper fish cleaning practices		0
4-06	Implement fish composting where appropriate		0
4-07	Store materials in areas impervious to the type of material stored. Build curbs, berms, or other barriers around the areas to contain spills		0
4-08	Use separate, clearly labeled containers for the disposal of oil, gasoline, antifreeze, diesel, kerosene and mineral spirits	§20 Boat Docks	2
4-09	Target outreach programs about proper disposal at marinas through the use of signs, mailings and other means	Limited Practice: Garbage signage uncertain, but there are waste receptacles	1
4-10	Promote the use in bilges of oil-absorbing materials, and replace them as necessary, preferably recycling, or disposing of them in accordance with petroleum disposal regulation.		0
4-11	Use a container under the air vent while refueling inboard tanks if the tank vents are not equipped with a fuel/air separator		0
4-12	Prohibit in-water hull scrapings or any underwater process to remove paint from boat hulls		0
4-13	Wash the boat hull above the waterline by hand, using only necessary amounts of detergents and cleaning compounds that are phosphate free and bio-degradable		0
4-14	Prohibit the use of detergents and cleaning compounds containing ammonia, sodium hypochloride, chlorinated solvents, petroleum distillates, alcohol or lye	§20 Boat Docks	2
4-15	Educate individuals about the importance of trash reduction and recycling through: interpretive and instructional signs placed at marinas and boat launching sites, pamphlets or flyers, newsletters, inserts in billings, meetings and presentations, workshops, and certification programs		0
4-16	Inspect pumpout facilities regularly, and repair them if practical, under a maintenance contract with a competent contractor		0
4-17	Add language to slip lease agreements mandating the use of pumpout facilities and specifying penalties for failure to comply		0
4-18	Place dye tablets in holding tanks to identify and discourage illegal disposal		0
4-19	Prohibit motorized vessels from areas (define areas) that contain important shallow-water habitats		0
4-20	Establish and enforce no-wake zones to decrease turbidity and reduce erosion potential from boat wakes		0

Section 4. Marinas: New Marinas

Marinas are permitted uses/DEC & Army Corp

4-21	Design and site marinas to maximize exchange of marina basin water. Limit basins and channels with square corners that tend to trap flotsam, and place dock structures in a manner that promotes circulation		0
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4-22	Perform a preconstruction assessment, which includes a water quality monitoring and modeling methodology, to predict post-construction water quality conditions	Regulation: Stormwater Management §48, SWPPPs	2
4-23	Monitor water quality during construction to protect ambient water quality to the maximum practicable extent		0
4-24	Develop a marina siting policy to discourage development in areas containing important habitat designated by local, State, or federal agencies		0
4-25	Conduct surveys and employ rapid bioassessment techniques to assess historic habitat function (e.g. spawning, nursery, and migration pathways) and potential impacts to these and other biological functions and resources		0
4-26	Encourage the redevelopment or expansion of existing marina facilities that have demonstrated minimal environmental impacts instead of developing new marina facilities		0
4-27	Consider alternative sites with minimal potential environmental impacts when the use of previously disturbed sites is not feasible		0
4-28	Minimize disturbance of indigenous vegetation in the riparian area		0
4-29	Use soil bioengineering or plants, wherever conditions allow, to restore damaged habitat along shorelines and streambanks		0
4-30	Use properly designed and constructed engineering practices that minimize shoreline disturbance in areas where soil bioengineering and plants are ineffective		0
4-31	Use appropriate shore erosion control methods, such as returns or return walls, in areas where existing protection methods are being flanked or are falling		0
4-32	Plan and design all steambank, shoreline, and navigation structures so that they do not transfer erosion energy to or otherwise cause visible loss of surrounding streambanks or shorelines		0
4-33	Locate and design fuel stations so that spills can be contained in a limited area		0
4-34	Design and install underground fuel storage tanks according to State regulations, including the provision of detection systems and automatic fuel tank and pump leak shut-offs		0
4-35	Provide aboveground fuel tanks and fueling areas with a curbed or diked storage area to handle containment volumes meeting State (and local) codes and inspect regularly		0
4-36	Use preferred pumpout systems: fixed-point, portable, dedicated slipside, and pumpout boats		0
4-37	Design onsite wastewater treatment systems to specifically handle waste from vessels	Regulation: §20.9 Boat Docks (Use proper receptacles for all waste)	2

(Tonawanda BOA?)

4-38	Post pumpout facility location and regulations at the marina. Charge fees that encourage rather than discourage facility use. Consider offsetting the cost of maintaining pumpout facilities by fuel sales where these facilities are conveniently located in close proximity to one another		0
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Section 4. Marinas: All Marinas (Existing & New)

4-39	Restrict boat repair and maintenance activities to clearly marked designated areas to prevent debris from falling into the water and preventing invasive species		0
4-40	Secure all fueling facilities and storage areas with appropriate shut-off devices and security locks and inspect regularly		0
4-41	Design fueling stations with spill containment equipment that is stored in a clearly marked location, accessible to work and storage areas. Post emergency phone numbers in a prominent location		0
4-42	Design a spill contingency plan		0
4-43	Inspect and maintain all containment berms or devices in accordance with State regulations. Investigate immediately signs of leakage or spillage, and undertake cleanup in accordance with applicable best management practices		0
4-44	Have a trained operator present and prepared to respond to accidental spills		0
4-45	Maintain daily inventory records to identify abnormal loss or gain of liquid		0
4-46	Prohibit the cleaning of hoses, fittings, pumps, and other accessory equipment on piers, docks or adjacent upland to prevent runoff into the marina basin or other surface or groundwater		0
4-47	Create and/or maintain a dedicated fund for maintenance in the case of government-owned facilities		0
4-48	Restrict the operation of pumpout facilities to trained marina personnel only		0

Section 5. Roads and Bridges: Existing Roads & Bridges

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

5-01	Conduct road and bridge maintenance (deicing material usage and storage, pot-hole repair, bridge washing, scraping and painting, etc) according to best management practices	Practice: Yes, City is doing this regularly	1
5-02	Conduct right-of-way activities (mowing, brush removal, pesticide and fertilizer use, etc) according to best management practices	Practice: City does not use pesticides or fertilizers	1

5-03	Include high percentage of indigenous plants in new landscaping on public-owned properties (excluding arboretums, horticultural gardens, and site requiring turf grasses)	Regulation: §103.26 Site Development Regulations	2
5-04	Implement a regular inspection and maintenance plan of existing structures	Practice: Yes, City is doing this regularly	1
5-05	Develop and identify erosion/sediment control areas (examples include steep slopes, easily erodible soils, and nearby sensitive areas) and retrofit opportunities	n/a no steep slopes, erosion issues are addressed in grading regulations	
5-06	Require percentage of roads to be tested with non-ice and non-sand de-icing.	Practice: The city does use alternatives to salt (specific solution)	1

Section 5. Roads and Bridges: New Roads & Bridges

5-07	Minimize the amount of land disturbed and the duration of disturbance	Regulation: §48 Grading & Stormwater Management	2
5-08	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	Regulation: §48 Grading & Stormwater Management	2
5-09	Retain and protect trees and other natural vegetation on and near disturbed sites	Regulation: §48 Grading & Stormwater Management	2
5-10	Retain additional runoff sites		0
5-11	Minimize the creation of impervious areas	Practice: Parking Lot Green Infrastructure and Webster Street project.	1
5-12	Treat increased runoff caused by changed surface conditions to minimize the danger of flooding, erosion and pollutants entering waterbodies prior to, during and after construction		0
5-13	Use temporary vegetation and mulching to protect exposed and critical areas during development	Regulation: §48 Grading & Stormwater Management	2
5-14	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	(§103.26 Site Development Regulations)	2
5-15	Stabilize disturbed soils as soon as possible	(§103.26 Site Development Regulations)	2
5-16	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff		0
5-17	Control erosion and sedimentation prior to, during and after site preparation and construction	yes	1
5-18	Require long term stormwater management plan.	yes	1
5-19	Require long term sedimentation control & maintenance.	Regulation: §48 Stormwater Management/Erosion & Sediment Control	2

Section 5. Roads and Bridges: All Roads & Bridges (Existing & New)

5-20	Target existing public holdings, such as parks, for removing unnecessary impervious surfaces	yes (implemented rain gardens on public streets)	1
5-21	Incorporate NYSDOT design and guidance documents, standard specifications, and procedural manuals (Highway Design Manual, Environmental Procedures Manual, Maintenance Guidelines, etc) into local laws and operating procedures	yes	1

5-22	Ensure application of appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	yes	1
5-23	Ensure proper operation and maintenance of runoff management facilities		
5-24	Participate in Cornell Local Roads Program activities and training	Superintendent (and possibly the two assistant superintendents)	1
5-25	Target training programs at highway officials, contractors, construction workers, inspectors, zoning and planning officials	yes	1
5-26	Target training and outreach programs about the proper handling of materials, leakage and spill prevention and spill response procedures at maintenance staff and workers	yes	1

Section 6: Onsite Wastewater Treatment Systems

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

6-01	Conduct regular inspections of OWTS at a frequency adequate to determine failure and undertake required maintenance	Septic systems are not allowed	2
6-02	Institute setback guidelines	Septic systems are not allowed	2
6-03	Promulgate plumbing codes that require practices that are compatible with OWTS	Septic systems are not allowed	2
6-04	Target outreach programs at homeowners, contractors and developers	Septic systems are not allowed	2
6-05	Inspection of all OWTS at property transfer or within 1 year prior to transfer	Septic systems are not allowed	2
6-06	Require all properties within 500' of municipal service to connect.	Septic systems are not allowed	2
6-07	Set goals for effluent limits (nitrogen, phosphorous, BOD, etc)	Septic systems are not allowed	2

153

Final Score: 153 out of 268 Total Possible Points

Town of Sheldon Assessment Form

Completed November 2014

Section 1. Development

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score	Meeting Notes, Follow-Up Questions & Comments
1-01	Identify retrofit opportunities for existing development - ex: retention/detention areas, stormwater ponds, construction of wastewater treatment systems to replace older septic systems...	Art. 7030 Site Plan Review (Grading & Drainage plan)	2	
1-02	Encourage homeowners to place compost piles away from waterbodies and roadways.		0	
1-03	Encourage proper use and disposal of lawn and other household chemicals (res., com., indus., rec., uses etc.).		0	
1-04	Storm drain/curb stenciling/labeling program.		0	
1-05	Encourage volunteer programs.		0	
1-06	Encourage the use of indigenous plants in landscaping.		0	
1-07	Develop outreach programs targeted at water quality management. Target training for contractors, developers, inspectors and zoning and planning officials.		0	
1-08	Encourage proper control of pet wastes.		0	
1-09	Written details regarding enforcement of stormwater regulations & requirements - ex: responsibility, penalties, etc.		0	
1-10	Use of drainage districts.		2	
1-11	Minimize the amount of land disturbed (including cut and fill) and the duration of disturbance durring construction.	Regulation: Art. 7 Site Plan Review	2	
1-12	Preserve natural features and conform with the natural boundaries and alignment of waterbodies durring development. Account for topography and soil type to minimize erosion. Limit grades of access roads.	Regulation: Art. 7 Site Plan Review	2	
1-13	Retain and protect trees and other natural vegetation on and near disturbed sites. Require tree surveys and/or cutting plans.	Regulation: Art. 7 Site Plan Review	2	
1-14	Minimize the creation of impervious areas / encourage permeable surfaces.		0	
1-15	Maintain runoff rates, or control increased runoff caused by changed surface conditions to minimize flooding, erosion, sedimentation and pollutants entering waterbodies prior to, during and after construction.		0	
1-16	Stabilize disturbed soils; redistribute topsoil for seeding and planting; use temporary vegetation, silt barriers, and mulching - to protect exposed and critical areas during development. Timeline for completion.	Regulation: Art. 6 Special Use Permit & Regulations	2	

1-17	Use appropriate solid and hazardous waste generation and disposal practices including source controls and recycling.	Local Law 1-2000: Solid Waste Disposal	2
1-18	Ensure proper operation and maintenance of runoff management facilities.		0
1-19	Encourage cluster development/conservation subdivisions.	Regulation: Art. 5 Regulations Applicable to Permitted Principle & Accessory Uses	2
1-20	Implement Federal/State Stormwater (SPDES) Phase II requirements including MS4 (when applicable) and Construction Permits as well as Municipal and Industrial Discharge Permits		0
1-21	Discourage development in flood plain and/or development below base flood elevation	Local Law 1-1987 Flood Damage Prevention	2

List of hazardous materials on town website

Section 2. Forestry & Agriculture: Forestry

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	
2-01	Site restoration practices for forestry sites. Consider potential water quality impacts when selecting silviculture system (yarding system, site preparation, pesticides employment, etc.)		0
2-02	Have specialists (geologist, soil scientist, geotechnical engineer, wildland hydrologist) review plans in high erosion hazard areas.		0
2-03	Consider Harvesting practices and preplan harvest areas - ex: operation season, skid trails/access on stable soils, avoiding-steep gradients/multiple stream crossings/poor drainage areas, etc.		0

Timber is allowed, but no apparent regulation online

Section 2. Forestry & Agriculture: Agriculture

2-04	Implementation of the Agricultural Environmental Management (AEM) program.		0
2-05	Ensure Concentrated Animal Feeding Operations (CAFO) regulations and permits are being followed and Comprehensive Nutrient Management Plans are being used.		0
2-06	Implement barnyard runoff controls.		0
2-07	Discourage grazing in environmentally sensitive areas (e.g. up to creek banks...)		0
2-08	Use of agricultural protection such as agricultural districts, agricultural preservation ordinances and practices, right to farm laws, and agricultural and farmland protection plans	Regulation: §46 Farming, Right to Farm Community	2

Section 3. Waterways & Wetlands: Modified Waterways

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

3-01	Control in stream sedimentation and/or clear debris. Schedule inspections of sediment control measures for maintenance/repair.	Regulation: Art. 9 Special Development	2
3-02	Establish riparian buffers.		1
3-03	Prevent animal wastes from entering waterbodies. Ex: animal control/animal waste disposal ordinances and/or practices.	Regulation: Art. 6 Special Permit & Regulations	2
3-04	Protect stream banks - vegetative stabilization-maintain/add vegetation(before using structural measures); indirect nonstructural-ex: regulate nearby irrigation, rerouting overbank drainage; direct structural-ex: revetments and bulkheads; indirect structural-ex: deflecting channel flow dikes.	Art. 6 Special Use Permit & Regulations (Excavation operations)	2
3-05	Use setbacks to minimize disturbance of land adjacent to stream banks and shorelines.		0
3-06	Prevent discharges to waterbodies in amounts that would adversely affect the taste, color or odor of the waters, or would impair the waters for their best usages.	Art. 6 Special Use Permit & Regulations (General Standards)	2

Buffers are encouraged for landscaping/visual purposes

Section 3. Waterways & Wetlands: Wetlands and Riparian Area Management and Restoration

3-07	Prioritize wetlands and riparian areas and their non-point source (nps) control potential.	Art. 6 Special Use Permit & Regulations Art. 4 zoning	2
3-08	Identify wetlands and riparian areas with significant nps control potential especially when implementing nps management practices.		0
3-09	Include considerations/regulations to protect wetlands, ex: permitting, licensing, wetlands certification and non-regulatory nps pollution activities. Prevent adverse impacts to wetland functions that affect nps pollution abatement from hydrologic changes, sedimentation, or contaminant, ex: pretreatment practices: vegetated systems, detention/retention basins...		0

Section 4. Marinas: Existing Marinas

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

Section 4. Marinas: New Marinas

Section 4. Marinas: All Marinas (Existing & New)

There are no navigable waterways or marinas in the Township.

Section 5. Roads, Bridges & Public Rights of Way

Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	
5-01	Conduct road, bridge, and drainage/stormwater structure inspection and maintenance and procedures (de-icing material usage and storage, pot-hole repair, bridge washing, scraping and painting, cleaning catch basins, etc.) according to best management practices.	0
5-02	Conduct right-of-way activities (mowing, brush removal, pesticide and fertilizer use, etc.) - according to best management practices.	0
5-03	Develop and identify erosion/sediment control areas (examples include steep slopes, easily erodible soils, and nearby sensitive areas) and retrofit opportunities.	Regulation: Art. 9 Special Development 2
5-04	Incorporate alternatives to traditional de-icing practices including adjusting mix rates, using non-salt and non-sand alternatives. Store in a enclosed areas with impervious floor.	0
5-05	Target existing public holdings, such as parks, for removing unnecessary impervious surfaces.	0
5-06	Incorporate New York State Department of Transportation design and guidance documents, standard specifications, and procedural manuals (<i>Highway Design Manual, Environmental Procedures Manual, Maintenance Guidelines, etc.</i>) into local laws and operating procedures.	0
5-07	Participate in Cornell Local Roads Program activities and training.	0
5-08	Target training programs at highway officials, contractors, construction workers, inspectors, zoning and planning officials.	0
5-09	Culvert maintenance: routinely inspected, maintained and resized when necessary so that they will remain unobstructed during storm events. Blockages resulting from sedimentation, debris, excessive vegetation and structural failure should be identified and mitigated.	0

Section 6: Onsite Wastewater Treatment Systems

Town is heavily dependent on private septic systems

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

6-01	Conduct regular inspections of septic/onsite wastewater treatment systems (OWTS), at minimum durring transfer of property or within 1 year prior to transfer.		0
6-02	Institute setback guidelines	Regulation: Art. 5 Regulations Applicable to Permitted Principle & Accessory Uses	2
6-04	Target OWTS outreach programs at homeowners, contractors and developers		0
6-05	Require all properties with access to municipal sewer service to connect.	Art. 6 Special Use Permit & Regulations	2

Town wishes to increase public connection (Master plan)

37

Final Score: 37 out of 100 Total Possible Points

Town of Elma Assessment Form

Completed December 2014

Section 1. Development

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score	Meeting Notes, Follow-Up Questions & Comments
1-01	Identify retrofit opportunities for existing development - ex: retention/detention areas, stormwater ponds, construction of wastewater treatment systems to replace older septic systems...		0	
1-02	Encourage homeowners to place compost piles away from waterbodies and roadways.		0	
1-03	Encourage proper use and disposal of lawn and other household chemicals (res., com., indus., rec., uses etc.).	Regulation: §115 (industrial users)	2	
1-04	Storm drain/curb stenciling/labeling program.	Local Law: §3-2007 (MS4 requirements)	2	
1-05	Encourage volunteer programs.		0	
1-06	Encourage the use of indigenous plants in landscaping.		0	
1-07	Develop outreach programs targeted at water quality management. Target training for contractors, developers, inspectors and zoning and planning officials.		0	
1-08	Encourage proper control of pet wastes.	Regulation: §65 (Dogs)	2	
1-09	Written details regarding enforcement of stormwater regulations & requirements - ex: responsibility, penalties, etc.	Local Law: §3-2007 (MS4 requirements)	2	
1-10	Use of drainage districts.	Regulation: §77 (grading & Filling)	2	
1-11	Minimize the amount of land disturbed (including cut and fill) and the duration of disturbance durring construction.	Local Law: §1-2012 (stormwater Management)	2	
1-12	Preserve natural features and conform with the natural boundaries and alignment of waterbodies durring development. Account for topography and soil type to minimize erosion. Limit grades of access roads.	Regulation: §82 (flood damage prevention)	2	
1-13	Retain and protect trees and other natural vegetation on and near disturbed sites. Require tree surveys and/or cutting plans.	Regulation: §144(zoning) Regulation: 123(Subdivision of Land)	2	
1-14	Minimize the creation of impervious areas / encourage permeable surfaces.	Local Law: §1-2012 (stormwater management)	2	
1-15	Maintain runoff rates, or control increased runoff caused by changed surface conditions to minimize flooding, erosion, sedimentation and pollutants entering waterbodies prior to, during and after construction.	Local Law: §1-2012 (stormwater Management)	2	

1-16	Stabilize disturbed soils; redistribute topsoil for seeding and planting; use temporary vegetation, silt barriers, and mulching - to protect exposed and critical areas during development. Timeline for completion.	Local Law: §1-2012 (Stormwater Management)	2
1-17	Use appropriate solid and hazardous waste generation and disposal practices including source controls and recycling.	Regulation: §119 (Solid Waste)	2
1-18	Ensure proper operation and maintenance of runoff management facilities.		0
1-19	Encourage cluster development/conservation subdivisions.	Regulation: §122 (subdivision regulations)	2
1-20	Implement Federal/State Stormwater (SPDES) Phase II requirements including MS4 (when applicable) and Construction Permits as well as Municipal and Industrial Discharge Permits		0
1-21	Discourage development in flood plain and/or development below base flood elevation	Regulation: §82 (flood damage prevention)	2

Section 2. Forestry & Agriculture: Forestry

There is no forestry in the Township

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

Section 2. Forestry & Agriculture: Agriculture

2-04	Implementation of the Agricultural Environmental Management (AEM) program.		0
2-05	Ensure Concentrated Animal Feeding Operations (CAFO) regulations and permits are being followed and Comprehensive Nutrient Management Plans are being used.		0
2-06	Implement barnyard runoff controls.		0
2-07	Discourage grazing in environmentally sensitive areas (e.g. up to creek banks...)		0
2-08	Use of agricultural protection such as agricultural districts, agricultural preservation ordinances and practices, right to farm laws, and agricultural and farmland protection plans		0

Section 3. Waterways & Wetlands: Modified Waterways

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

3-01	Control in stream sedimentation and/or clear debris. Schedule inspections of sediment control measures for maintenance/repair.		0
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3-02	Establish riparian buffers.		0
3-03	Prevent animal wastes from entering waterbodies. Ex: animal control/animal waste disposal ordinances and/or practices.		0
3-04	Protect stream banks - vegetative stabilization-maintain/add vegetation(before using structural measures); indirect nonstructural-ex: regulate nearby irrigation, rerouting overbank drainage; direct structural-ex: revetments and bulkheads; indirect structural-ex: deflecting channel flow dikes.	Local Law: §1-2012 (Stormwater Management)	2
3-05	Use setbacks to minimize disturbance of land adjacent to stream banks and shorelines.		0
3-06	Prevent discharges to waterbodies in amounts that would adversely affect the taste, color or odor of the waters, or would impair the waters for their best usages.	Local Law: §1-2012 (Stormwater Management)	2

Section 3. Waterways & Wetlands: Wetlands and Riparian Area Management and Restoration

3-07	Prioritize wetlands and riparian areas and their non-point source (nps) control potential.	Regulation: §7 (Conservation Board)	2
3-08	Identify wetlands and riparian areas with significant nps control potential especially when implementing nps management practices.	Local Law: §1-2012 (Stormwater Management)	2
3-09	Include considerations/regulations to protect wetlands, ex: permitting, licensing, wetlands certification and non-regulatory nps pollution activities. Prevent adverse impacts to wetland functions that affect nps pollution abatement from hydrologic changes, sedimentation, or contaminant, ex: pretreatment practices: vegetated systems, detention/retention basins...	Regulation: §7 (Conservation Board)	2

Section 4. Marinas: Existing Marinas

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

There are no navigable waterways or marinas in the Village.

Section 4. Marinas: New Marinas

Section 4. Marinas: All Marinas (Existing & New)

Section 5. Roads, Bridges & Public Rights of Way

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

5-01	Conduct road, bridge, and drainage/stormwater structure inspection and maintenance and procedures (de-icing material usage and storage, pot-hole repair, bridge washing, scraping and painting, cleaning catch basins, etc.) according to best management practices.		0
5-02	Conduct right-of-way activities (mowing, brush removal, pesticide and fertilizer use, etc.) - according to best management practices.		0
5-03	Develop and identify erosion/sediment control areas (examples include steep slopes, easily erodible soils, and nearby sensitive areas) and retrofit opportunities.		0
5-04	Incorporate alternatives to traditional de-icing practices including adjusting mix rates, using non-salt and non-sand alternatives. Store in a enclosed areas with impervious floor.		0
5-05	Target existing public holdings, such as parks, for removing unnecessary impervious surfaces.		0
5-06	Incorporate New York State Department of Transportation design and guidance documents, standard specifications, and procedural manuals (<i>Highway Design Manual</i> , <i>Environmental Procedures Manual</i> , <i>Maintenance Guidelines</i> , etc.) into local laws and operating procedures.		0
5-07	Participate in Cornell Local Roads Program activities and training.		0
5-08	Target training programs at highway officials, contractors, construction workers, inspectors, zoning and planning officials.		0
5-09	Culvert maintenance: routinely inspected, maintained and resized when necessary so that they will remain unobstructed during storm events. Blockages resulting from sedimentation, debris, excessive vegetation and structural failure should be identified and mitigated.		0

Section 6: Onsite Wastewater Treatment Systems

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

6-01	Conduct regular inspections of septic/onsite wastewater treatment systems (OWTS), at minimum during transfer of property or within 1 year prior to transfer.	Regulation: §115 Article IV (Private Wastewater Disposal)	2
6-02	Institute setback guidelines		0
6-04	Target OWTS outreach programs at homeowners, contractors and developers		0

6-05	Require all properties with access to municipal sewer service to connect.	Regulation: §115 Article IV (Private Wastewater disposal)	2
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42

Final Score: 42 out of 94 Total Possible Points

Town of Newstead Assessment Form

Completed December 2014

Section 1. Development

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score	Meeting Notes, Follow-Up Questions & Comments
1-01	Identify retrofit opportunities for existing development - ex: retention/detention areas, stormwater ponds, construction of wastewater treatment systems to replace older septic systems...	Regulation: Stormwater Management and Erosion Control Law §349,	2	
1-02	Encourage homeowners to place compost piles away from waterbodies and roadways.		0	
1-03	Encourage proper use and disposal of lawn and other household chemicals (res., com., indus., rec., uses etc.).	Regulation: Prohibitions on wastewater discharges §311.18,	2	
1-04	Storm drain/curb stenciling/labeling program.	n/a		
1-05	Encourage volunteer programs.		0	
1-06	Encourage the use of indigenous plants in landscaping.		0	
1-07	Develop outreach programs targeted at water quality management. Target training for contractors, developers, inspectors and zoning and planning officials.		0	
1-08	Encourage proper control of pet wastes.	Regulation: Prohibitions on wastewater discharges §311.18,	2	
1-09	Written details regarding enforcement of stormwater regulations & requirements - ex: responsibility, penalties, etc.	Regulation: Stormwater Management and Erosion Control Law §349-9 Enforcement and Penalties,	2	
1-10	Use of drainage districts.		0	
1-11	Minimize the amount of land disturbed (including cut and fill) and the duration of disturbance durring construction.	Regulation: Stormwater Management and Erosion Control Law §349	2	
1-12	Preserve natural features and conform with the natural boundaries and alignment of waterbodies durring development. Account for topography and soil type to minimize erosion. Limit grades of access roads.	Regulation: Subdivision §360	2	
1-13	Retain and protect trees and other natural vegetation on and near disturbed sites. Require tree surveys and/or cutting plans.		0	
1-14	Minimize the creation of impervious areas / encourage permeable surfaces.	Regulation: Subdivision §360	2	
1-15	Maintain runoff rates, or control increased runoff caused by changed surface conditions to minimize flooding, erosion, sedimentation and pollutants entering waterbodies prior to, during and after construction.	Regulation: Stormwater Management and Erosion Control Law §349,	2	

1-16	Stabilize disturbed soils; redistribute topsoil for seeding and planting; use temporary vegetation, silt barriers, and mulching - to protect exposed and critical areas during development. Timeline for completion.	Regulation: Stormwater Management and Erosion Control Law §349,	2
1-17	Use appropriate solid and hazardous waste generation and disposal practices including source controls and recycling.	Regulation: Solid Waste & Recycling §338	2
1-18	Ensure proper operation and maintenance of runoff management facilities.		
1-19	Encourage cluster development/conservation subdivisions.	Regulation: Subdivision §360 - Cluster & Common Open Space	2
1-20	Implement Federal/State Stormwater (SPDES) Phase II requirements including MS4 (when applicable) and Construction Permits as well as Municipal and Industrial Discharge Permits	n/a	
1-21	Discourage development in flood plain and/or development below base flood elevation	Regulation: Flood Damage Prevention §202	2

Newstead is not a MS4 community and not subject to these requirements

Section 2. Forestry & Agriculture: Forestry

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

2-01	Site restoration practices for forestry sites. Consider potential water quality impacts when selecting silviculture system (yarding system, site preparation, pesticides employment, etc.)		0
2-02	Have specialists (geologist, soil scientist, geotechnical engineer, wildland hydrologist) review plans in high erosion hazard areas.		0
2-03	Consider Harvesting practices and preplan harvest areas - ex: operation season, skid trails/access on stable soils, avoiding-steep gradients/multiple stream crossings/poor drainage areas, etc.		0

Timber is allowed, but no apparent regulation online

Section 2. Forestry & Agriculture: Agriculture

2-04	Implementation of the Agricultural Environmental Management (AEM) program.	Practice: Program is implemented through County Soil & Water.	1
2-05	Ensure Concentrated Animal Feeding Operations (CAFO) regulations and permits are being followed and Comprehensive Nutrient Management Plans are being used.	Practice: CAFOs are regulated by DEC and issues are identified by County Soil & Water, Newstead is not a MS4 community, and as such does not provide oversight to SPDES permitted facilities.	1
2-06	Implement barnyard runoff controls.		0

2-07	Discourage grazing in environmentally sensitive areas (e.g. up to creek banks...)		0
2-08	Use of agricultural protection such as agricultural districts, agricultural preservation ordinances and practices, right to farm laws, and agricultural and farmland protection plans	Regulation: Right to Farm Law §181, Rural Agricultural District Zoning §186.1.	2

Section 3. Waterways & Wetlands: Modified Waterways

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

3-01	Control in stream sedimentation and/or clear debris. Schedule inspections of sediment control measures for maintenance/repair.		0
3-02	Establish riparian buffers.	Limited Regulation: Suidivision §360	1
3-03	Prevent animal wastes from entering waterbodies. Ex: animal control/animal waste disposal ordinances and/or practices.		0
3-04	Protect stream banks - vegetative stabilization-maintain/add vegetation(before using structural measures); indirect nonstructural-ex: regulate nearby irrigation, rerouting overbank drainage; direct structural-ex: revetments and bulkheads; indirect structural-ex: deflecting channel flow dikes.		0
3-05	Use setbacks to minimize disturbance of land adjacent to stream banks and shorelines.		0
3-06	Prevent discharges to waterbodies in amounts that would adversely affect the taste, color or odor of the waters, or would impair the waters for their best usages.	Regulation: Protection from accidental discharge §311-27	2

Limited features identified in Subdivision regulation.

Section 3. Waterways & Wetlands: Wetlands and Riparian Area Management and Restoration

3-07	Prioritize wetlands and riparian areas and their non-point source (nps) control potential.		0
3-08	Identify wetlands and riparian areas with significant nps control potential especially when implementing nps management practices.		
3-09	Include considerations/regulations to protect wetlands, ex: permitting, licensing, wetlands certification and non-regulatory nps pollution activities. Prevent adverse impacts to wetland functions that affect nps pollution abatement from hydrologic changes, sedimentation, or contaminant, ex: pretreatment practices: vegetated systems, detention/retention basins...	Regulation: Subdivision §360 Practice: Notice on website to check for floodplain or wetland before planning any actions.	2

Section 5. Marinas

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

There are no navigable waterways or marinas in the Village.

Section 5. Roads, Bridges & Public Rights of Way

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

Much of these practices are not outlined in code. The Town may still be implementing them though.

5-01	Conduct road, bridge, and drainage/stormwater structure inspection and maintenance and procedures (de-icing material usage and storage, pot-hole repair, bridge washing, scraping and painting, cleaning catch basins, etc.) according to best management practices.		0
5-02	Conduct right-of-way activities (mowing, brush removal, pesticide and fertilizer use, etc.) - according to best management practices.		0
5-03	Develop and identify erosion/sediment control areas (examples include steep slopes, easily erodible soils, and nearby sensitive areas) and retrofit opportunities.		0
5-04	Incorporate alternatives to traditional de-icing practices including adjusting mix rates, using non-salt and non-sand alternatives. Store in a enclosed areas with impervious floor.		0
5-05	Target existing public holdings, such as parks, for removing unnecessary impervious surfaces.		0
5-06	Incorporate New York State Department of Transportation design and guidance documents, standard specifications, and procedural manuals (<i>Highway Design Manual</i> , <i>Environmental Procedures Manual</i> , <i>Maintenance Guidelines</i> , etc.) into local laws and operating procedures.		0
5-07	Participate in Cornell Local Roads Program activities and training.		0
5-08	Target training programs at highway officials, contractors, construction workers, inspectors, zoning and planning officials.		0
5-09	Culvert maintenance: routinely inspected, maintained and resized when necessary so that they will remain unobstructed during storm events. Blockages resulting from sedimentation, debris, excessive vegetation and structural failure should be identified and mitigated.	Practice: Notice on website to remind owners to keep ditched clean and clear.	1

Section 6: Onsite Wastewater Treatment Systems

Best Management Practices (BMPs)**Existing Means of Implementation (Law, Regulation, Practice, etc.)**

6-01	Conduct regular inspections of septic/onsite wastewater treatment systems (OWTS), at minimum during transfer of property or within 1 year prior to transfer.	Practice: Erie County Department of Health enforces inspections upon property transfer.	1
6-02	Institute setback guidelines		0
6-04	Target OWTS outreach programs at homeowners, contractors and developers		0
6-05	Require all properties with access to municipal sewer service to connect.	Regulation: Connection to public sewer required §311.6.	2

37

Final Score: 37 out of 98 Total Possible Points

Grand Island Assessment Form

Completed November 2014

Section 1. Development

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score	Meeting Notes, Follow-Up Questions & Comments
1-01	Identify retrofit opportunities for existing development - ex: retention/detention areas, stormwater ponds, construction of wastewater treatment systems to replace older septic systems...	Stormwater Management - § 407-199 Performance and design criteria for stormwater management and erosion and sediment control. § 407-198 Stormwater pollution prevention plans.	2	
1-02	Encourage homeowners to place compost piles away from waterbodies and roadways.	Supplemental Regulations - § 407-167.1 Community gardens	2	
1-03	Encourage proper use and disposal of lawn and other household chemicals (res., com., indus., rec., uses etc.).	Use of Public Sewers - § 267-17 Discharge of certain matter prohibited.	2	
1-04	Storm drain/curb stenciling/labeling program.	Storm Sewers - § 267-46 Alternative remedies.	2	
1-05	Encourage volunteer programs.		0	
1-06	Encourage the use of indigenous plants in landscaping.	Enhanced Environment Overlay District - § 407-92 Permitted uses. Landscaping Requirements - § 407-140 Landscaping plans. § 407-137 Purpose.	2	
1-07	Develop outreach programs targeted at water quality management. Target training for contractors, developers, inspectors and zoning and planning officials.	Practice: Participates in the WNY Stormwater Coalition & Building Inspectors are certified	1	
1-08	Encourage proper control of pet wastes.	Storm Sewers - § 267-37 Activities contaminating stormwater prohibited.	2	
1-09	Written details regarding enforcement of stormwater regulations & requirements - ex: responsibility, penalties, etc.	Stormwater Management - § 407-201 Administration and enforcement. § 407-198 Stormwater pollution prevention plans. § 267-41 Access and monitoring of discharges.	2	
1-10	Use of drainage districts.	§ 407-195 Stormwater Management - Findings; purpose.	2	Not really any established drainage districts in the town of Grand Island. Seem to be aware of individual stream sheds.
1-11	Minimize the amount of land disturbed (including cut and fill) and the duration of disturbance during construction.	Enhanced Environment Overlay District - § 407-93 Special requirements. Stormwater Management - § 407-198 Stormwater pollution prevention plans. Landscaping Requirements - § 407-137 Purpose.	2	Attempt is made and provisions exist, but development does occur where clear cutting occurs. Difficult to get full benefit from incentive zoning.

1-12	Preserve natural features and conform with the natural boundaries and alignment of waterbodies during development. Account for topography and soil type to minimize erosion. Limit grades of access roads.	Open Space District - § 407-88 Purpose. Site Plan Review - § 407-110 Criteria for review and recommendations. Stormwater Management - § 407-137 Purpose. Landscaping Requirements - § 407-137 Purpose.	2	Just gave authority to Conservation Commission to Review and comment on development.
1-13	Retain and protect trees and other natural vegetation on and near disturbed sites. Require tree surveys and/or cutting plans.	Stormwater Management - § 407-198 Stormwater pollution prevention plans. Landscaping Requirements - § 407-137 Purpose.	2	Lack of identified natural areas limits boards ability to protect natural features in town.
1-14	Minimize the creation of impervious areas / encourage permeable surfaces.	Enhanced Environment Overlay District - § 407-92 Permitted uses. Landscaping Requirements - § 407-137 Purpose.	1	porous pavement and other green infrastructure is difficult to do the clay soils. Limited ability to address infiltration.
1-15	Maintain runoff rates, or control increased runoff caused by changed surface conditions to minimize flooding, erosion, sedimentation and pollutants entering waterbodies prior to, during and after construction.	Stormwater Management - § 407-198 Stormwater pollution prevention plans. § 407-201 Administration and enforcement.	2	
1-16	Stabilize disturbed soils; redistribute topsoil for seeding and planting; use temporary vegetation, silt barriers, and mulching - to protect exposed and critical areas during development. Timeline for completion.	Stormwater Management - § 407-198 Stormwater pollution prevention plans.	2	
1-17	Use appropriate solid and hazardous waste generation and disposal practices including source controls and recycling.	Manufactured Homes and Manufactured Home Parks - § 225-16 Solid waste disposal. Solid Waste - § 309-8 Unlawful activities. Use of Public Sewers - § 267-3 Discharge of untreated wastes prohibited. § 267-17 Discharge of certain matter prohibited.	2	
1-18	Ensure proper operation and maintenance of runoff management facilities.	Stormwater Management - § 407-200 Maintenance, inspection and repair of stormwater facilities. § 407-198 Stormwater pollution prevention plans. Ch 407 407e Sched V Sample Stormwater Control Fac Main Agree	1	Inspected periodically if it is brought to their attention that there is a problem.
1-19	Encourage cluster development/conservation subdivisions.	Conservation Easements - § 121-6 Procedure for establishing conservation easements.	2	Have cluster zoning, ZA is skeptical if its effective and actually provides benefit. Right now it's up to the developer to take advantage of these regulations.

1-20	Implement Federal/State Stormwater (SPDES) Phase II requirements including MS4 (when applicable) and Construction Permits as well as Municipal and Industrial Discharge Permits	Sewers - § 267-40 Suspension of access to MS4. § 267-37 Activities contaminating stormwater prohibited. § 267-39 Industrial or construction activity discharges. § 267-36 Discharge prohibitions. § 267-38 Prevention, control, and reduction of stormwater pollutants by use of best management practices required. § 267-42 Notification of spills.	2
1-21	Discourage development in flood plain and/or development below base flood elevation	Regrading and Filling of Land - § 253-4 Requirements for issuance of permit. Supplemental Regulations - § 407-152 Drainage strips. Subdivision of Land - § 327-15 Land requirements. Flood Damage Prevention - § 155-3 Objectives. § 155-14 General standards.	2

Flood reg's raised development standard to 2 feet above base flood elevation.

Section 2. Forestry & Agriculture: Forestry

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

2-01	Site restoration practices for forestry sites. Consider potential water quality impacts when selecting silviculture system (yarding system, site preparation, pesticides employment, etc.)	N/A	
2-02	Have specialists (geologist, soil scientist, geotechnical engineer, wildland hydrologist) review plans in high erosion hazard areas.	Site Plan Review - § 407-110 Criteria for review and recommendations.	2
2-03	Consider Harvesting practices and preplan harvest areas - ex: operation season, skid trails/access on stable soils, avoiding-steep gradients/multiple stream crossings/poor drainage areas, etc.	Enhanced Environment Overlay District - § 407-92 Permitted uses.	2

Erosion Control Manual, Design Manual, USDA Natural Resources Conservation Service Engineering Field Manual, New York Guidelines for Urban Erosion and Sediment Control?

Section 2. Forestry & Agriculture: Agriculture

2-04	Implementation of the Agricultural Environmental Management (AEM) program.	N/A	
2-05	Ensure Concentrated Animal Feeding Operations (CAFO) regulations and permits are being followed and Comprehensive Nutrient Management Plans are being used.	N/A	
2-06	Implement barnyard runoff controls.	N/A	

Grand Island has no large farms.

2-07	Discourage grazing in environmentally sensitive areas (e.g. up to creek banks...)	N/A	
2-08	Use of agricultural protection such as agricultural districts, agricultural preservation ordinances and practices, right to farm laws, and agricultural and farmland protection plans	Farming - § 145-3 Right-to-farm declaration.	2

Section 3. Waterways & Wetlands: Modified Waterways

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

3-01	Control in stream sedimentation and/or clear debris. Schedule inspections of sediment control measures for maintenance/repair.	Stormwater Management - § 407-195 Findings; purpose.	2	clear debris regularly
3-02	Establish riparian buffers.	Cluster Development - § 407-125 Open space requirement, Site Plan Review & Subdivision	1	Protections are limited and not fully enforced.
3-03	Prevent animal wastes from entering waterbodies. Ex: animal control/animal waste disposal ordinances and/or practices.	Supplemental Regulations - § 407-144 Agricultural animals. §407-149 Commercial riding stables.	2	Does not specifically stipulate the entering of animal wastes into waterbodies.
3-04	Protect stream banks - vegetative stabilization-maintain/add vegetation(before using structural measures); indirect nonstructural-ex: regulate nearby irrigation, rerouting overbank drainage; direct structural-ex: revetments and bulkheads; indirect structural-ex: deflecting channel flow dikes.	Stormwater Management - § 407-198 Stormwater pollution prevention plans.	2	This is very limited. There is no specific details about what type of protection there is or that there is even a priority to protect stream banks using any of the techniques.
3-05	Use setbacks to minimize disturbance of land adjacent to stream banks and shorelines.	Riparian setbacks are based on stream classification	2	Largest of which is 80' (find in code)
3-06	Prevent discharges to waterbodies in amounts that would adversely affect the taste, color or odor of the waters, or would impair the waters for their best usages.	Stormwater Management - § 407-198 Stormwater pollution prevention plans. Sewer - § 267-36 Discharge prohibitions. § 267-37 Activities contaminating stormwater prohibited. § 267-38 Prevention, control, and reduction of stormwater pollutants by use of best management practices required.	2	

Section 3. Waterways & Wetlands: Wetlands and Riparian Area Management and Restoration

3-07	Prioritize wetlands and riparian areas and their non-point source (nps) control potential.	Design Standards and Required Improvements - § 327-22 Storm drainage. Parking, Stacking, and Loading Requirements - § 407-132 Exceptions. Stormwater Management - § 407-198 Stormwater pollution prevention plans. § 407-195 Findings; purpose. Sewers - § 267-38 Prevention, control, and reduction of stormwater pollutants by use of best management practices required.	2
3-08	Identify wetlands and riparian areas with significant nps control potential especially when implementing nps management practices.	Design Standards and Required Improvements - § 327-22 Storm drainage. Parking, Stacking, and Loading Requirements - § 407-132 Exceptions. Stormwater Management - § 407-198 Stormwater pollution prevention plans. § 407-195 Findings; purpose. Sewers - § 267-38 Prevention, control, and reduction of stormwater pollutants by use of best management practices required.	2
3-09	Include considerations/regulations to protect wetlands, ex: permitting, licensing, wetlands certification and non-regulatory nps pollution activities. Prevent adverse impacts to wetland functions that affect nps pollution abatement from hydrologic changes, sedimentation, or contaminant, ex: pretreatment practices: vegetated systems, detention/retention basins...	Open Space Requirement - § 407-125 Open space requirement. Enhanced Environment Overlay District - § 407-91 Purpose.	2

Wetlands are utilized as stormwater infrastructure, where they are large enough.

Documented in Town Engineering Department Maps, both State and Federal

Section 4. Marinas

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

Town doesn't regulate Marinas despite their fully surrounded by water and have a number of private marina's in town. Marinas are allow in the zoning code and currently only regulated in terms of storage/visibility of boats.

4-01	Clean maintenance areas regularly. Preferably by vacuuming to remove trash, sandings, paint chips etc.		0
4-02	Prevent residue from being carried into surface waters by performing abrasive blasting within plastic tarp enclosures on windless days or withing spray booths		0

Ditto to above on Docks.

4-03	Provide proper disposal/recycling facilities to marina patrons, preferably covered receptacles		0
4-04	Establish fish cleaning areas, and implement rules governing the conduct of fish cleaning operations		0
4-05	Educate boaters on the importance of proper fish cleaning practices		0
4-06	Implement fish composting where appropriate		0
4-07	Store materials in areas impervious to the type of material stored. Build curbs, berms, or other barriers around the areas to contain spills		0
4-08	Use separate, clearly labeled containers for the disposal of oil, gasoline, antifreeze, diesel, kerosene and mineral spirits		0
4-09	Target outreach programs about proper disposal at marinas through the use of signs, mailings and other means		0
4-10	Promote the use in bilges of oil-absorbing materials, and replace them as necessary, preferably recycling, or disposing of them in accordance with petroleum disposal regulation.		0
4-11	Use a container under the air vent while refueling inboard tanks if the tank vents are not equipped with a fuel/air separator		0
4-12	Prohibit in-water hull scrapings or any underwater process to remove paint from boat hulls		0
4-13	Wash the boat hull above the waterline by hand, using only necessary amounts of detergents and cleaning compounds that are phosphate free and bio-degradable		0
4-14	Prohibit the use of detergents and cleaning compounds containing ammonia, sodium hypochloride, chlorinated solvents, petroleum distillates, alcohol or lye		0
4-15	Educate individuals about the importance of trash reduction and recycling through: interpretive and instructional signs placed at marinas and boat launching sites, pamphlets or flyers, newsletters, inserts in billings, meetings and presentations, workshops, and certification programs		0

4-16	Inspect pumpout facilities regularly, and repair them if practical, under a maintenance contract with a competent contractor		0
4-17	Add language to slip lease agreements mandating the use of pumpout facilities and specifying penalties for failure to comply		0
4-18	Place dye tablets in holding tanks to identify and discourage illegal disposal		0
4-19	Prohibit motorized vessels from areas (define areas) that contain important shallow-water habitats		0
4-20	Establish and enforce no-wake zones to decrease turbidity and reduce erosion potential from boat wakes		0

Section 4. Marinas: New Marinas

4-21	Design and site marinas to maximize exchange of marina basin water. Limit basins and channels with square corners that tend to trap flotsam, and place dock structures in a manner that promotes circulation		0
4-22	Perform a preconstruction assessment, which includes a water quality monitoring and modeling methodology, to predict post-construction water quality conditions		0
4-23	Monitor water quality during construction to protect ambient water quality to the maximum practicable extent		0
4-24	Develop a marina siting policy to discourage development in areas containing important habitat designated by local, State, or federal agencies		0
4-25	Conduct surveys and employ rapid bioassessment techniques to assess historic habitat function (e.g. spawning, nursery, and migration pathways) and potential impacts to these and other biological functions and resources		0
4-26	Encourage the redevelopment or expansion of existing marina facilities that have demonstrated minimal environmental impacts instead of developing new marina facilities		0

4-27	Consider alternative sites with minimal potential environmental impacts when the use of previously disturbed sites is not feasible		0
4-28	Minimize disturbance of indigenous vegetation in the riparian area		0
4-29	Use soil bioengineering or plants, wherever conditions allow, to restore damaged habitat along shorelines and streambanks		0
4-30	Use properly designed and constructed engineering practices that minimize shoreline disturbance in areas where soil bioengineering and plants are ineffective		0
4-31	Use appropriate shore erosion control methods, such as returns or return walls, in areas where existing protection methods are being flanked or are falling		0
4-32	Plan and design all steambank, shoreline, and navigation structures so that they do not transfer erosion energy to or otherwise cause visible loss of surrounding streambanks or shorelines		0
4-33	Locate and design fuel stations so that spills can be contained in a limited area		0
4-34	Design and install underground fuel storage tanks according to State regulations, including the provision of detection systems and automatic fuel tank and pump leak shut-offs		1
4-35	Provide aboveground fuel tanks and fueling areas with a curbed or diked storage area to handle containment volumes meeting State (and local) codes and inspect regularly		0
4-36	Use preferred pumpout systems: fixed-point, portable, dedicated slipside, and pumpout boats		0
4-37	Design onsite wastewater treatment systems to specifically handle waste from vessels		0

The Town lets the State assume authority and that state regulations are being followed

4-38	Post pumpout facility location and regulations at the marina. Charge fees that encourage rather than discourage facility use. Consider offsetting the cost of maintaining pumpout facilities by fuel sales where these facilities are conveniently located in close proximity to one another		0
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Section 4. Marinas: All Marinas (Existing & New)

4-39	Restrict boat repair and maintenance activities to clearly marked designated areas to prevent debris from falling into the water and preventing invasive species		0
4-40	Secure all fueling facilities and storage areas with appropriate shut-off devices and security locks and inspect regularly		0
4-41	Design fueling stations with spill containment equipment that is stored in a clearly marked location, accessible to work and storage areas. Post emergency phone numbers in a prominent location		0
4-42	Design a spill contingency plan		0
4-43	Inspect and maintain all containment berms or devices in accordance with State regulations. Investigate immediately signs of leakage or spillage, and undertake cleanup in accordance with applicable best management practices		0
4-44	Have a trained operator present and prepared to respond to accidental spills		0
4-45	Maintain daily inventory records to identify abnormal loss or gain of liquid		0
4-46	Prohibit the cleaning of hoses, fittings, pumps, and other accessory equipment on piers, docks or adjacent upland to prevent runoff into the marina basin or other surface or groundwater		0
4-47	Create and/or maintain a dedicated fund for maintenance in the case of government-owned facilities		0
4-48	Restrict the operation of pumpout facilities to trained marina personnel only		0

Section 5. Roads, Bridges & Public Rights of Way

Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)		
5-01	Conduct road, bridge, and drainage/stormwater structure inspection and maintenance and procedures (de-icing material usage and storage, pot-hole repair, bridge washing, scraping and painting, cleaning catch basins, etc.) according to best management practices.	Stormwater Management - § 407-199 Performance and design criteria for stormwater management and erosion and sediment control. § 407-200 Maintenance, inspection and repair of stormwater facilities. Sewers - § 267-38 Prevention, control, and reduction of stormwater pollutants by use of best management practices required.	2
5-02	Conduct right-of-way activities (mowing, brush removal, pesticide and fertilizer use, etc.) - according to best management practices.	Practice: Town currently Mows, no fertilizers are used in ROWs.	1
5-03	Develop and identify erosion/sediment control areas (examples include steep slopes, easily erodible soils, and nearby sensitive areas) and retrofit opportunities.	Stormwater Management - § 407-198 Stormwater pollution prevention plans. Site Plan Review - § 407-110 Criteria for review and recommendations.	2
5-04	Incorporate alternatives to traditional de-icing practices including adjusting mix rates, using non-salt and non-sand alternatives. Store in a enclosed areas with impervious floor.	Waterfront Consistency Review - § 403-4 Review of actions. Practice: switched to ice-additive mixture to help salt stick to roadways, focus application on intersections of neighborhoods to reduce usage.	2
5-05	Target existing public holdings, such as parks, for removing unnecessary impervious surfaces.	Landscaping Requirements - § 407-137 Purpose. Practice: removed vacant buildings and infrastructure no longer in use.	2
5-06	Incorporate New York State Department of Transportation design and guidance documents, standard specifications, and procedural manuals (<i>Highway Design Manual, Environmental Procedures Manual, Maintenance Guidelines, etc.</i>) into local laws and operating procedures.	Streets and Sidewalks - § 323-7 Concrete sidewalk specifications.	2
5-07	Participate in Cornell Local Roads Program activities and training.	***Minutes — Town Board Meeting — 2013 — Regular Meeting Minutes 8/5/2013	1
5-08	Target training programs at highway officials, contractors, construction workers, inspectors, zoning and planning officials.	Minutes — Town Board Meeting — 2013 — 12-2-13 Regular Mtg #22 Minutes — Town Board Meeting — 2013 — Regular Meeting Minutes 8/5/2013	1
5-09	Culvert maintenance: routinely inspected, maintained and resized when necessary so that they will remain unobstructed during storm events. Blockages resulting from sedimentation, debris, excessive vegetation and structural failure should be identified and mitigated.	Design Standards and Required Improvements - § 327-22 Storm drainage. § 327-23 Drainage improvements.	2

Pesticides are used in certain locations within town properties and parks, not ROWs though.

Not very comprehensive or reliable action.

Removed vacant and underutilized structures.

Signed into Town Rule, Monday August 5th, 2013

Training of road Officials through the Cornell Local Roads Program, Toxic Release Training

Culverts are not regularly inspected. Culverts or other infrastructure issues are addressed when the Town becomes aware of an issue.

Section 6: Onsite Wastewater Treatment Systems

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

A larger portion of town relies on private septic, and many systems are sand-systems. Town officials can tell systems are failing because of the smell in the summer time.

6-01	Conduct regular inspections of septic/onsite wastewater treatment systems (OWTS), at minimum durring transfer of property or within 1 year prior to transfer.	Practice: Approves local permits once local certificate is provided from County Health Dept.	1
6-02	Institute setback guidelines		0
6-04	Target OWTS outreach programs at homeowners, contractors and developers		0
6-05	Require all properties with access to municipal sewer service to connect.	Sewers - § 267-7 Discontinuance of private system when public sewers become available. § 267-5 Connection to public sewer required where available.	2

Has cheater systems in town that drain right to the creeks/ditches.

Defers to County Health Department

79

Final Score: 79 out of 190 Total Possible Points

44 Total BMPs addressed of possible 95 (46%)

Town of Colden Assessment Form

Completed November 2014

Section 1. Development

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score	Meeting Notes, Follow-Up Questions & Comments
1-01	Identify retrofit opportunities for existing development - ex: retention/detention areas, stormwater ponds, construction of wastewater treatment systems to replace older septic systems...		0	
1-02	Encourage homeowners to place compost piles away from waterbodies and roadways.		0	
1-03	Encourage proper use and disposal of lawn and other household chemicals (res., com., indus., rec., uses etc.).		0	
1-04	Storm drain/curb stenciling/labeling program.		0	
1-05	Encourage volunteer programs.		0	
1-06	Encourage the use of indigenous plants in landscaping.		0	
1-07	Develop outreach programs targeted at water quality management. Target training for contractors, developers, inspectors and zoning and planning officials.		0	
1-08	Encourage proper control of pet wastes.		0	
1-09	Written details regarding enforcement of stormwater regulations & requirements - ex: responsibility, penalties, etc.		0	
1-10	Use of drainage districts.	Regulation: §52 Flood Damage Prevention	2	
1-11	Minimize the amount of land disturbed (including cut and fill) and the duration of disturbance during construction.	Regulation: §106 Wind Energy conversion systems	2	
1-12	Preserve natural features and conform with the natural boundaries and alignment of waterbodies during development. Account for topography and soil type to minimize erosion. Limit grades of access roads.	Regulation: §108-82: Preservation of Topsoil & Other Natural Features	2	
1-13	Retain and protect trees and other natural vegetation on and near disturbed sites. Require tree surveys and/or cutting plans.	Regulation: §108-82: Preservation of Topsoil & Other Natural Features	2	
1-14	Minimize the creation of impervious areas / encourage permeable surfaces.		0	

1-15	Maintain runoff rates, or control increased runoff caused by changed surface conditions to minimize flooding, erosion, sedimentation and pollutants entering waterbodies prior to, during and after construction.	Regulation: §52 Flood Damage Prevention	2
1-16	Stabilize disturbed soils; redistribute topsoil for seeding and planting; use temporary vegetation, silt barriers, and mulching - to protect exposed and critical areas during development. Timeline for completion.	Regulation: §108-82 Zoning (Preservation of Topsoil & Other Natural Features)	2
1-17	Use appropriate solid and hazardous waste generation and disposal practices including source controls and recycling.	Regulation: §102-7 Recycling (solid waste reduction)	2
1-18	Ensure proper operation and maintenance of runoff management facilities.		0
1-19	Encourage cluster development/conservation subdivisions.	Regulation: §108-93 Zoning (Cluster Housing)	2
1-20	Implement Federal/State Stormwater (SPDES) Phase II requirements including MS4 (when applicable) and Construction Permits as well as Municipal and Industrial Discharge Permits.		0
1-21	Discourage development in flood plain and/or development below base flood elevation	Regulation: §52 Flood Damage Prevention	2

List of hazardous materials on town website

Section 2. Forestry & Agriculture: Forestry

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	
2-01	Site restoration practices for forestry sites. Consider potential water quality impacts when selecting silviculture system (yarding system, site preparation, pesticides employment, etc.)		0
2-02	Have specialists (geologist, soil scientist, geotechnical engineer, wildland hydrologist) review plans in high erosion hazard areas.		0
2-03	Consider Harvesting practices and preplan harvest areas - ex: operation season, skid trails/access on stable soils, avoiding-steep gradients/multiple stream crossings/poor drainage areas, etc.		0

Timber is allowed, but no apparent regulation online

Section 2. Forestry & Agriculture: Agriculture

2-04	Implementation of the Agricultural Environmental Management (AEM) program.		0
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2-05	Ensure Concentrated Animal Feeding Operations (CAFO) regulations and permits are being followed and Comprehensive Nutrient Management Plans are being used.		0
2-06	Implement barnyard runoff controls.		0
2-07	Discourage grazing in environmentally sensitive areas (e.g. up to creek banks...)		0
2-08	Use of agricultural protection such as agricultural districts, agricultural preservation ordinances and practices, right to farm laws, and agricultural and farmland protection plans	Regulation: §46 Farming, Right to Farm Community	2

Section 3. Waterways & Wetlands: Modified Waterways

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

3-01	Control in stream sedimentation and/or clear debris. Schedule inspections of sediment control measures for maintenance/repair.		0
3-02	Establish riparian buffers.	Regulation: §108-22 Zoning (Special Permits)	2
3-03	Prevent animal wastes from entering waterbodies. Ex: animal control/animal waste disposal ordinances and/or practices.	Regulation: §46-1 Right to Farm	2
3-04	Protect stream banks - vegetative stabilization-maintain/add vegetation(before using structural measures); indirect nonstructural-ex: regulate nearby irrigation, rerouting overbank drainage; direct structural-ex: revetments and bulkheads; indirect structural-ex: deflecting channel flow dikes.		0
3-05	Use setbacks to minimize disturbance of land adjacent to stream banks and shorelines.		0
3-06	Prevent discharges to waterbodies in amounts that would adversely affect the taste, color or odor of the waters, or would impair the waters for their best usages.		0

Section 3. Waterways & Wetlands: Wetlands and Riparian Area Management and Restoration

3-07	Prioritize wetlands and riparian areas and their non-point source (nps) control potential.	Regulation: §108 Zoning	2
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3-08	Identify wetlands and riparian areas with significant nps control potential especially when implementing nps management practices.		0
3-09	Include considerations/regulations to protect wetlands, ex: permitting, licensing, wetlands certification and non-regulatory nps pollution activities. Prevent adverse impacts to wetland functions that affect nps pollution abatement from hydrologic changes, sedimentation, or contaminant, ex: pretreatment practices: vegetated systems, detention/retention basins...	Regulation: §108 Zoning	2

Section 4. Marinas

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

There are no navigable waterways or marinas in the Village.

Section 5. Roads, Bridges & Public Rights of Way

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

5-01	Conduct road, bridge, and drainage/stormwater structure inspection and maintenance and procedures (de-icing material usage and storage, pot-hole repair, bridge washing, scraping and painting, cleaning catch basins, etc.) according to best management practices.		0
5-02	Conduct right-of-way activities (mowing, brush removal, pesticide and fertilizer use, etc.) - according to best management practices.		0
5-03	Develop and identify erosion/sediment control areas (examples include steep slopes, easily erodible soils, and nearby sensitive areas) and retrofit opportunities.		0
5-04	Incorporate alternatives to traditional de-icing practices including adjusting mix rates, using non-salt and non-sand alternatives. Store in a enclosed areas with impervious floor.		0
5-05	Target existing public holdings, such as parks, for removing unnecessary impervious surfaces.		0
5-06	Incorporate New York State Department of Transportation design and guidance documents, standard specifications, and procedural manuals (<i>Highway Design Manual, Environmental Procedures Manual, Maintenance Guidelines, etc.</i>) into local laws and operating procedures.		0

5-07	Participate in Cornell Local Roads Program activities and training.		0
5-08	Target training programs at highway officials, contractors, construction workers, inspectors, zoning and planning officials.		0
5-09	Culvert maintenance: routinely inspected, maintained and resized when necessary so that they will remain unobstructed during storm events. Blockages resulting from sedimentation, debris, excessive vegetation and structural failure should be identified and mitigated.	Regulation: §89 Streets & Sidewalks	2

Section 6: Onsite Wastewater Treatment Systems

Town is heavily dependent on private septic systems

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

6-01	Conduct regular inspections of septic/onsite wastewater treatment systems (OWTS), at minimum during transfer of property or within 1 year prior to transfer.		0
6-02	Institute setback guidelines		0
6-04	Target OWTS outreach programs at homeowners, contractors and developers		0
6-05	Require all properties with access to municipal sewer service to connect.		0

Town wishes to increase public connection (Master plan)

30

Final Score: 30 out of 100 Total Possible Points

Village of Williamsville Assessment Form

Completed November 2014

Section 1. Development: Existing Development

	Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)	Score	Meeting Notes, Follow-Up Questions & Comments
1-01	Identify retrofit opportunities	Practice: Implementing Green Infrastructure on town owned properties & facilities.	1	
1-02	Identify habitat and natural conveyance system restoration	Mentioned in Comprehensive Plan Practice: Restoration of Lehigh walking path.	1	
1-03	Establish retention/detention areas	n/a		
1-04	Acquire additional land for locating treatment facilities	n/a		
1-05	Encourage homeowners to place compost piles away from waterbodies and roadways	Regulation: §39.6 Accumulation. Practice: Garbage guideline pamphlet and enforcement.	2	Any compost or mulch pile shall be maintained in such fashion as not to attract rodents or cause the development of any odor or other hazard to the public health and safety.
1-06	Encourage proper use and disposal of lawn and other household chemicals	Regulation: §39.8 Hazardous Waste Practice: Garbage guideline pamphlet and enforcement.	2	
1-07	Institute turf management practices on golf courses and parks and recreation areas	Practice: Village practices turf management in Parks, doesn't fertilize, reseeds as appropriate and does not mow to the edge of waterfront parks.	1	
1-08	Undertake storm drain stenciling	Practice: Participating in WNY Stormwater Coalitions Medallion Program	1	Not currently done by the Village itself.
1-09	Encourage volunteer programs, such as adopt-a-highways and adopt-a-stream, etc.	Practice: Village website has a volunteer page with links to get involved in various programs	1	
1-10	Include high percentage of indigenous plants in new landscaping on privately-owned properties (excluding arboretums, horticultural gardens, and sites requiring turf grasses)	Practice: Village does third itself and it is encouraged through Site Plan Approval process. Trees utilized in parks and ROW projects are certified by the state arborist as native species.	1	
1-11	Encourage water conservation	Practice: Encouraged in the Annual Water Quality Report. Village takes it's landscaping water from the creek	1	
1-12	Develop outreach programs targeted at specific problems related to water quality management & resource conservation	Practice: Educational brochures on Town website, WNY Stormwater Coalition, Erie County Water Quality Committee have programs.	1	
1-13	Encourage proper control of pet wastes	Regulation: §8.6 Animals. Practice: Encouraged in the Annual Water Quality Report.2	2	
1-14	Encourage continued operation of private storm water runoff control structures	Regulation: §112.28 Stormwater Management	2	
1-15	Discourage feeding of waterfowl	Practice: signs are various parks, Village also harrasses geese	1	
1-16	Discourage the introduction of exotic aquatic species (Eurasian water milfoil, zebra mussels, water chestnut, etc)	n/a	0	
1-17	Encourage continued (periodic) operation and maintenance of private septic disposal systems	Regulation: §81 Public Sewers - no illicit dumping	2	Citizens are to watch and report all hazardous spills.

1-18	Effective and consistent application and enforcement of stormwater regulations & requirements	Regulation: §112.28 Stormwater Management	2
1-19	Require certification of existing on site septic systems for property transfers or builing expansions.	Regulation: §81 Public Sewers	2
1-20	Require entire property (existing as well as proposed) to be included in stormwater analysis/calculation.	Regulation: §112.28 Stormwater Management	2

Notification from Public

Section 1. Development: New Development and Substantial Redevelopment

1-21	Minimize the amount of land disturbed and the duration of disturbance	Regulation: §112.28 Stormwater Management	2
1-22	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	Regulation: Site Plan review: (§112.23 F 2.a) §112.28 Stormwater Management	2
1-23	Retain and protect trees and other natural vegetation on and near disturbed sites	Regulation: Required to be outlined in SWPPP (112.28) Mentioned in Landscaping (§57.4)	2
1-24	Account for topography and soil types in efforts to minimize erosion potential	Regulation: §112.28 Stormwater Management	2
1-25	Maintain run-off rates similar to pre-construction levels	Regulation: Stormwater Management (§112.28 SWPPP C.5)	2
1-26	Minimize the creation of impervious areas	Practice: Encouraged in site plan review	1
1-27	Control increased run-off caused by changed surface conditions to minimize the danger of flooding, erosion, sedimentation and pollutants entering waterbodies prior to, during and after construction	Regulation: §112.28 Stormwater Management	2
1-28	Use temporary vegetation and mulching to protect exposed and critical areas during development	Regulation: Must be outlined in SWPPP (§112.28)	2
1-29	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	Regulation: §112.28 Stormwater Management	2
1-30	Stabilize distrubed soils as soon as possible	Regulation: §112.28 Stormwater Management	2
1-31	Minimize the use of cut & fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate run-off	Regulation: §112.28 Stormwater Management	2
1-32	Use appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	Regulation: Recycling (§74.7)	2
1-33	Encourage construction site manangement techniques which include the proper hanging and disposal of pesticides and petroleum products and containers	Regulation: §112.28 Stormwater Management	2
1-34	Ensure proper operation and maintenance of run-off manangement facilities	Regulation: Stormwater Management (112.28 G(1)(a))	2
1-35	Target training for contractors, inspectors, zoning and planning officials	Practice: Town staff participate in WNY Stormwater Coalition trainings.	2

Village owns and protects all creeks

There are updates all the time through contractors & MS4 annual conferences

1-36	Require tree surveys and/or cutting plans	Regulation: "Trees" §101	2
1-37	Develop priority list for BMP's - use of vegetative low areas for retention/infiltration	Practice: replacing right-of-way with green infrastructure	1
1-38	Encourage cluster development	n/a	
1-39	Require connection to and/or extension of existing water & sewer if project is within 500 feet of existing infrastructure	Regulation: §81 Public Sewers	2
1-40	Enact limits on driveway grades	n/a	
1-41	For redevelopment, employ regulations that provide for technologically advanced (on and off) site wastewater treatment systems to optimize efficiencies and address challenging sites	Regulation: §81 Public Sewers	2
1-42	Implement Fed/State Stormwater (SPDES) Phase II requirements	Regulation: §112.28 Stormwater Management	2

Village is almost entirely built out, and never sees multi-lot subdivision applications, would have limited benefit from this regulation anyway.

Building code limits driveway square footage

Section 2. Forestry & Agriculture: Forestry			
Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)		
	There is no forestry or agriculture in the Village.		

Section 2. Forestry & Agriculture: Agriculture

Section 3. Waterways & Wetlands: Modified Waterways			
Best Management Practices (BMPs)	Existing Means of Implementation (Law, Regulation, Practice, etc.)		
3-01	Develop an operation and maintenance program for existing modified streams that includes identification of opportunities and actions to restore habitat and the physical and chemical characteristics of these streams	Practice: Village owns all its creeks and is actively restoring habitat.	2
3-02	Improve stream quality by controlling instream sedimentation and selectively clearing debris	Regulation: Stormwater management (112.28 f.3)	2
3-03	Establish or reestablish riparian buffers	Practice: Village establishes riparian buffers on all its creeks	2
3-04	Prevent animal wastes from entering waterbodies	Regulation: §8.6 Animals	2
3-05	Attempt vegetative stabilization before undertaking structural measures	Regulation: §112.28 Stormwater Management	2
3-06	Design and construct shore erosion control facilities in accordance with an erosion and sedimentation control plan, in areas where marsh creation and soil bioengineering and ineffective or where existing protection methods are being flanked or are failing	Regulation: §112.28 Stormwater Management	2

Recent Glen Park repairs are an example

Town follows the NYS DEC Erosion and Sedimentation Control Manual for design of facilities.

3-07	Schedule the periodic maintenance of sediment control measures, and inspect and repair them as needed in conformance with established schedule	Practice: Villiage cleans the catch basin	2	Creek flows over hard bedrock
3-08	Protect streambanks through direct nonstructural means, such as new vegetation or protection of existing vegetation; direct structural means, such as revetments and bulkheads; indirect nonstructural means, such as regulating irrigation near stream-banks or outing overbank drainage; or indirect structural means, such as deflecting channel flow away from streambanks with dikes, board fences and gabions	Regulation: §112.28 Stormwater Management	2	
3-09	Use setbacks to minimize disturbance of land adjacent to streambanks and shorelines	n/a		Village owns the Creek and creekbanks
3-10	Prevent discharges to waterbodies in amounts that would adversely affect the taste, color or odor of the waters, or would impair the waters for their best usages	Regulation: Stormwater management (112,28/F.3)	2	

Section 3. Waterways & Wetlands: Wetlands and Riparian Area Management and Restoration

3-11	Consider wetlands and riparian areas and their nps control potential on a watershed scale	Practice: Village owns the waterway and is establishing a greenway.	1
3-12	Identify existing functions of those wetland and riparian areas with significant nps control potential when implementing nps management practices. Do not alter wetlands or riparian areas to improve their water quality at the expense of their other functions	Practice: Villiage worked with Army Corps of Engineers to keep more of the cooler water along the west branch of the creek along Island Park to improve and restore habitat.	2
3-13	Conduct permitting, licensing, certification and non-regulatory nps pollution activities in a manner that protects wetland functions	Regulation: §112.28 Stormwater Management	2
3-14	Special zoning considerations to protect wetland areas	Regulation: §112.28 Stormwater Management	2
3-15	Use appropriate pretreatment practices such as vegetated systems or detention or retention basins to prevent adverse impacts to wetland functions that affect nps pollution abatement from hydrologic changes, hydrologic changes, sedimentation or contaminants	Regulation: §112.28 Stormwater Management	2
3-16	All projects should require wetlands certification	Regulation: §112.28 Stormwater Management	2

Section 4. Marinas: Existing Marinas

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

There are no navigable waterways or marinas in the Village.

Section 4. Marinas: New Marinas

Section 4. Marinas: All Marinas (Existing & New)

Section 5. Roads and Bridges: Existing Roads & Bridges

Best Management Practices (BMPs)

Existing Means of Implementation (Law, Regulation, Practice, etc.)

5-01	Conduct road and bridge maintenance (deicing material usage and storage, pot-hole repair, bridge washing, scraping and painting, etc) according to best management practices	Practice: Village uses the NYS Highway Superintendent Roads and Water Quality Handbook.	2
5-02	Conduct right-of-way activities (mowing, brush removal, pesticide and fertilizer use, etc) according to best management practices	Practice: Village uses BMPs in all its parks and right-of-way activities	2
5-03	Include high percentage of indigenous plants in new landscaping on public-owned properties (excluding arboretums, horticultural gardens, and site requiring turf grasses)	Practice: Village uses plans developed by Landscape Architects to maximize indigenous plants.	2
5-04	Implement a regular inspection and maintenance plan of existing structures	Practice: Every spring the Village conducts visual inspection of streets for maintenance and repairs to be done that year.	2
5-05	Develop and identify erosion/sediment control areas (examples include steep slopes, easily erodible soils, and nearby sensitive areas) and retrofit opportunities	n/a	
5-06	Require percentage of roads to be tested with non-ice and non-sand de-icing.		0

Section 5. Roads and Bridges: New Roads & Bridges

5-07	Minimize the amount of land disturbed and the duration of disturbance	Regulation: §112.28 Stormwater Management	2
5-08	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	Regulation: §112.28 Stormwater Management	2
5-09	Retain and protect trees and other natural vegetation on and near disturbed sites	Regulation: §112.28 Stormwater Management	2
5-10	Retain additional runoff sites	Regulation: §112.28 Stormwater Management	2
5-11	Minimize the creation of impervious areas	Regulation: §112.28 Stormwater Management	2
5-12	Treat increased runoff caused by changed surface conditions to minimize the danger of flooding, erosion and pollutants entering waterbodies prior to, during and after construction	Regulation: §112.28 Stormwater Management	2

5-13	Use temporary vegetation and mulching to protect exposed and critical areas during development	Regulation: §112.28 Stormwater Management	2
5-14	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	Regulation: §112.28 Stormwater Management	2
5-15	Stabilize disturbed soils as soon as possible	Regulation: §112.28 Stormwater Management	2
5-16	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff	Regulation: §112.28 Stormwater Management	2
5-17	Control erosion and sedimentation prior to, during and after site preparation and construction	Regulation: §112.28 Stormwater Management	2
5-18	Require long term stormwater management plan.	Regulation: §112.28 Stormwater Management	2
5-19	Require long term sedimentation control & maintenance.	Regulation: §112.28 Stormwater Management	2

Section 5. Roads and Bridges: All Roads & Bridges (Existing & New)

5-20	Target existing public holdings, such as parks, for removing unnecessary impervious surfaces	Practice: Village is actively restoring right-of-way to green infrastructure.	2
5-21	Incorporate NYSDOT design and guidance documents, standard specifications, and procedural manuals (Highway Design Manual, Environmental Procedures Manual, Maintenance Guidelines, etc) into local laws and operating procedures	Practice: Village follows NYS DOT Highway Design Manuals & Guidelines. Neither are incorporated into local laws or operating procedures.	1
5-22	Ensure application of appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	Practice: All hazmat materials are recycled or returned.	2
5-23	Ensure proper operation and maintenance of runoff management facilities	Practice: Village properly maintains MS4 infrastructure	2
5-24	Participate in Cornell Local Roads Program activities and training	Practice: Town staff regularly attends trainings.	2
5-25	Target training programs at highway officials, contractors, construction workers, inspectors, zoning and planning officials	Practice: Town staff regularly attends trainings.	2
5-26	Target training and outreach programs about the proper handling of materials, leakage and spill prevention and spill response procedures at maintenance staff and workers	Practice: Town staff is trained on Hazardous Waste Operations and Emergency Response (HAZWOPER).	2

Section 6: Onsite Wastewater Treatment Systems

Best Management Practices (BMPs)**Existing Means of Implementation (Law, Regulation, Practice, etc.)**

Only a handful of properties within a small subdivision are connected to a septic system.

6-01	Conduct regular inspections of OWTS at a frequency adequate to determine failure and undertake required maintenance	Practice: There are occasional inspections.	1
6-02	Institute setback guidelines	n/a	
6-03	Promulgate plumbing codes that require practices that are compatible with OWTS	n/a	
6-04	Target outreach programs at homeowners, contractors and developers		0
6-05	Inspection of all OWTS at property transfer or within 1 year prior to transfer	Practice: This is according to Erie County Health Codes	2
6-06	Require all properties within 500' of municipal service to connect.	Regulation: §81.5 Public Sewers require properties within 150' to connect	2
6-07	Set goals for effluent limits (nitrogen, phosphorous, BOD, etc)		0

144

Final Score: 144 out of 156 Total Possible Points = 91%

PHASE 2

Village of Springville

Town of Concord

Town of Holland

Town of Westfield

Town of Yorkshire

**Village of Springville
Erie County, New York**

BMP	Best Management Practices (BMP)	Existing Means of Implementation (law, regulation, practice, etc)	Degree of Implementation
§ - #			(2-fully, 1-partially, 0-not at all, n/a-not applicable)
1: Development			
<i>1-a: Existing Development</i>			
1-01	Identify retrofit opportunities	Opportunities are identified for reducing illicit connections, but not for stormwater retrofit opportunities. Not sure if they retrofit buildings.	1
1-02	Identify habitat and natural conveyance system restoration opportunities	P: Rain gardens are used when possible.	2
1-03	Establish retention/detention areas	P: Stormwater regulations and Village law	2
1-04	Acquire additional land for locating treatment facilities	P: Anything bought by the Village will have rain gardens or GI in future. Sewer system at capacity	2
1-05	Encourage homeowners to place compost piles away from waterbodies and roadways	R: Illegal dumping laws on the books, but no mention of composting.	1
1-06	Encourage proper use and disposal of lawn and other household chemicals	R: Illegal dumping laws on the books, but no extra encouragement of attending HHW event for example.	1
1-07	Institute turf management practices on golf courses and parks and recreation areas	P: No chemicals in parks	2
1-08	Undertake storm drain stenciling	Mapped, but not labeled. No practice in place for stenciling.	0
1-09	Encourage volunteer programs, such as adopt-a-highways and adopt-a-stream, etc.	P: H.S. Seniors and Scouts clean up litter.	1
1-10	Include high percentage of indigenous plants in new landscaping on privately-owned properties (excluding arboretums, horticultural gardens, and sites requiring turf grasses)	Natural landscaping code needs work	0
1-11	Encourage water conservation	R: Nothing above New York Environmental Conservation Law § 15-0314	1
1-12	Develop outreach programs targeted at specific problems related to water quality management & resource conservation		0
1-13	Encourage proper control of pet wastes	Code §193-23 signs at parks	2
1-14	Encourage continued operation of private storm water runoff control structures	Code §205-3 (ch. 8 205-3 parking lots)	2

**Village of Springville
Erie County, New York**

1-15	Discourage feeding of waterfowl		0
1-16	Discourage the introduction of exotic aquatic species (Eurasian water milfoil, zebra mussels, water chestnut, etc		0
1-17	Encourage continued (periodic) operation and maintenance of private septic disposal systems	Code §193-55	2
1-18	Effective and consistent application and enforcement of stormwater regulations & requirements	Code §205-3	2
1-19	Require certification of existing on site septic systems for property transfers or building expansions.	Erie County Health Department handles this.	2
1-20	Require entire property (existing as well as proposed) to be included in stormwater analysis/calculation.	Code §205-3 If greater than 1 acre, NYS regs. followed. For under 1 acre, 10 % requirement for something?	2
<i>1-b: New Development and Substantial Redevelopment</i>			
1-21	Minimize the amount of land disturbed and the duration of disturbance	There is a Planning Board practice to require buffers.	2
1-22	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	Village is already built up.	NA
1-23	Retain and protect trees and other natural vegetation on and near disturbed sites	NYS standards followed	2
1-24	Account for topography and soil type in efforts to minimize erosion potential	NYS standards followed	2
1-25	Maintain runoff rates similar to pre-construction levels	NYS standards followed	2
1-26	Minimize the creation of impervious areas	No restrictions on parking lot size. This could be recommendation to reduce paved areas. There is a restriction that buildings must be 30% of lot size or less.	0
1-27	Control increased runoff caused by changed surface conditions to minimize the danger of flooding, erosion, sedimentation and pollutants entering waterbodies prior to, during and after construction	NYS standards followed	2

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1-28	Use temporary vegetation and mulching to protect exposed and critical areas during development	NYS standards followed	2
1-29	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	NYS standards followed, but they allow selling/shipping soil offsite.	2
1-30	Stabilize disturbed soils as soon as possible	NYS standards followed	2
1-31	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff		NA
1-32	Use appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	Code §193-52	2
1-33	Encourage construction site management techniques which include the proper handling and disposal of pesticides and petroleum products and containers	P:	2
1-34	Ensure proper operation and maintenance of runoff management facilities	P:	2
1-35	Target training for contractors, inspectors and zoning and planning officials.	P: Promote county and state trainings. Friday trainings with DPW workers.	2
1-36	Require tree surveys and/or cutting plans.	Recommend they conduct a tree survey and complete a tree maintenance plan. May use in practice depending on site.	0
1-37	Develop priority list for BMP's - use of vegetative low areas for retention/infiltration.		0
1-38	Encourage cluster development.	P: 14 units become 20 on same land	2
1-39	Require connection to and/or extension of existing water & sewer if project is within 500 feet of existing infrastructure	Code §193-26, 27, 30	2
1-40	Enact limits on driveway grades.	P: Possibly in ch. 8, 205-3; L: NYS	2

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1-41	For redevelopment, employ regulations that provide for technologically advanced (on and off) site wastewater treatment systems to optimize efficiencies and address "challenging" sites		0
1-42	Implement Federal/State Stormwater (SPDES) Phase II requirements	NYS standards	2
Final Score: 57 out of 80 Total Possible Points			57
Number of BMPs addressed (either fully or partially): 32 out of 40 BMPs (80%)			31

2: Forestry and Agriculture

2-a: Forestry

2-01	Consider potential water quality impacts when selecting silviculture system (yarding system, site preparation, pesticides employment, etc)	Tree Ordinance recommended in Comprehensive Plan. They discourage trees in the right-of-way. Only offer 3 choices from NYPA and will replant from right-of-way to private property in many cases.	1
2-02	Consider harvesting practices	N/A	NA
2-03	Seasonal preference for logging operations	N/A	NA
2-04	Have specialists (geologist, soil scientist, geotechnical engineer, wildland hydrologist) review plans in high erosion hazard areas	N/A	NA
2-05	Preplan harvest areas, skid trails, and access so as to be on stable soils, avoiding steep gradients, multiple stream crossings, poor drainage areas, etc.	N/A	NA
2-06	Limit grades of access roads.	N/A	NA
2-07	Require stabilization of roads/drives to forestry site.	N/A	NA
2-08	Employ natural topography and contour for design of road network	N/A	NA
2-09	Require stormwater controls for increased runoff from ground cover modification	N/A	NA
2-10	Consider site restoration	N/A	NA

2-b: Agriculture

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2-11	Use Agricultural Environmental Management (AEM)	No Ag. Districts. Only a hobby horse farm and Belscher Farm. Recommended requiring plan for farms within village limits	0
2-12	Require farms seeking agricultural value assessment to participate in AEM	They do not.	0
Final Score: 1 out of 2 Total Possible Points			1
Number of BMPs addressed (either fully or partially): 1 out of 1 BMPs (100%)			1

3: Waterways and Wetlands

3-a: Modified Waterways- Code §200-6(d)

3-01	Develop an operation and maintenance program for existing modified streams that includes identification of opportunities and actions to restore habitat and the physical and chemical characteristics of these streams.	P: Moving forward they will restore habitat as shown in Factory Street Park project	2
3-02	Improve stream quality by controlling instream sedimentation and selectively clearing debris	P:	2
3-03	Establish or reestablish riparian buffers	P:	2
3-04	Prevent animal wastes from entering waterbodies	Code §193-24 See pet waste question 1-13	2
3-05	Attempt vegetative stabilization before undertaking structural measures		0
3-06	Design and construct shore erosion control facilities, in accordance with an erosion and sedimentation control plan, in areas where marsh creation and soil bioengineering are ineffective or where existing protection methods are being flanked or are falling	NA	NA
3-07	Schedule the periodic maintenance of sediment control measures, and inspect and repair them as needed in conformance with established schedule.	P:	2

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3-08	Protect streambanks through direct nonstructural means, such as new vegetation or protection of existing vegetation; direct structural means, such as revetments and bulkheads; indirect nonstructural means, such as regulating irrigation near streambanks or	P:	2
3-09	Use setbacks to minimize disturbance of land adjacent to streambanks and shorelines	Only floodplain setbacks exist and refer only to sheds, etc.	0
3-10	Prevent discharges to waterbodies in amounts that would adversely affect the taste, color or odor of the waters, or would impair the waters for their best usages	Code §193-24	2
<i>3-b: Wetlands and Riparian Area Management and Restoration</i>			
3-11	Consider wetlands and riparian areas and their non-point source (nps) control potential on a watershed scale	This would be a good recommendation to enact riparian areas along streams within the Village where possible.	0
3-12	Identify existing functions of those wetland and riparian areas with significant nps control potential when implementing nps management practices. Do not alter wetlands or riparian areas to improve their water quality at the expense of their other functi		0
3-13	Conduct permitting, licensing, certification and nonregulatory nps pollution activities in a manner that protects wetland functions		0
3-14	Special zoning considerations to protect wetland areas		0

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3-15	Use appropriate pretreatment practices such as vegetated systems or detention or retention basins to prevent adverse impacts to wetland functions that affect nps pollution abatement from hydrologic changes, sedimentation, or contaminants		0
3-16	All projects should require wetlands certification.		0
Final Score: 14 out of 30 Total Possible Points			14
Number of BMPs addressed (either fully or partially): 7 out of 16 BMPs (47%)			7

4: Marinas

4-a: Existing Marinas

4-01	Clean maintenance areas regularly preferably by vacuuming to remove trash, sandings, paint chips, etc.	N/A	N/A
4-02	Prevent residue from being carried into surface waters by performing abrasive blasting within plastic tarp enclosures on windless days or within spray booths	N/A	N/A
4-03	Provide proper disposal/recycling facilities to marina patrons, preferably covered receptacles	N/A	N/A
4-04	Establish fish cleaning areas, and implement rules governing the conduct of fish cleaning operations	N/A	N/A
4-05	Educate boaters on the importance of proper fish cleaning practices	N/A	N/A
4-06	Implement fish composting where appropriate	N/A	N/A
4-07	Store materials in areas impervious to the type of material stored. Build curbs, berms, or other barriers around the areas to contain spills	N/A	N/A
4-08	Use separate, clearly labeled containers for the disposal of oil, gasoline, antifreeze, diesel, kerosene, and mineral spirits	N/A	N/A

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4-09	Target outreach programs about proper disposal at marina patrons through the use of signs, mailings, and other means	N/A	N/A
4-10	Promote the use in bilges of oil-absorbing materials, and replace them as necessary, preferably recycling, or disposing of them in accordance with petroleum disposal regulation	N/A	N/A
4-11	Use a container under the air vent while refueling inboard tanks if the tank vents are not equipped with a fuel/air separator	N/A	N/A
4-12	Prohibit in-water hull scraping or any underwater process to remove paint from boat hulls	N/A	N/A
4-13	Wash the boat hull above the waterline by hand, using only necessary amounts of detergents and cleaning compounds that are phosphate-free and biodegradable	N/A	N/A
4-14	Prohibit the use of detergents and cleaning compounds containing ammonia, sodium hypochloride, chlorinated solvents, petroleum distillates, alcohol, or lye	N/A	N/A
4-15	Educate individuals about the importance of trash reduction and recycling through: interpretive and instructional signs placed at marinas and boat-launching sites, pamphlets or flyers, newsletters, inserts in billings, meetings and presentations, workshop	N/A	N/A
4-16	Inspect pumpout facilities regularly, and repair them, if practical, under a maintenance contract with a competent contractor	N/A	N/A

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4-17	Add language to slip lease agreements mandating the use of pumpout facilities and specifying penalties for failure to comply	N/A	N/A
4-18	Place dye tablets in holding tanks to identify and discourage illegal disposal	N/A	N/A
4-19	Prohibit motorized vessels from areas (define areas) that contain important shallow-water habitats	N/A	N/A
4-20	Establish and enforce no-wake zones to decrease turbidity and reduce erosion potential from boat wakes	N/A	N/A
<i>4-b: New Marinas</i>			
4-21	Design and site marinas to maximize exchange of marina basin water. Limit basins and channels with square corners that tend to trap flotsam, and place dock structures in a manner that promotes circulation	N/A	N/A
4-22	Perform a preconstruction assessment, which includes a water quality monitoring and modeling methodology, to predict post-construction water quality conditions	N/A	N/A
4-23	Monitor water quality during construction to protect ambient water quality to the maximum practicable extent	N/A	N/A
4-24	Develop a marina siting policy to discourage development in areas containing important habitat designated by local, State, or federal agencies	N/A	N/A
4-25	Conduct surveys and employ rapid bioassessment techniques to assess historic habitat function (e.g. spawning, nursery, and migration pathways) and potential impacts to these and other biological functions and resources	N/A	N/A

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4-26	Encourage the redevelopment or expansion of existing marina facilities that have demonstrated minimal environmental impacts instead of developing new marina facilities	N/A	N/A
4-27	Consider alternative sites with minimal potential environmental impacts when the use of previously disturbed sites is not feasible	N/A	N/A
4-28	Minimize disturbance of indigenous vegetation in the riparian area	N/A	N/A
4-29	Use soil bioengineering or plants, wherever conditions allow, to restore damaged habitat along shorelines and streambanks	N/A	N/A
4-30	Use properly designed and constructed engineering practices that minimize shoreline disturbance in areas where soil bioengineering and plants are ineffective	N/A	N/A
4-31	Use appropriate shore erosion control methods, such as returns or return walls, in areas where existing protection methods are being flanked or are falling	N/A	N/A
4-32	Plan and design all steambank, shoreline, and navigation structures so that they do not transfer erosion energy to or otherwise cause visible loss of surrounding streambanks or shorelines	N/A	N/A
4-33	Locate and design fuel stations so that spills can be contained in a limited area	N/A	N/A
4-34	Design and install underground fuel storage tanks according to State regulations, including the provision of detection systems and automatic fuel tank and pump leak shut-offs	N/A	N/A

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4-35	Provide aboveground fuel tanks and fueling areas with a curbed or diked storage area to handle containment volumes meeting State (and local) codes and inspect regularly	N/A	N/A
4-36	Use preferred pumpout systems: fixed-point, portable, dedicated slipside, and pumpout boats	N/A	N/A
4-37	Design onsite wastewater treatment systems to specifically handle waste from vessels	N/A	N/A
4-38	Post pumpout facility location and regulations at the marina. Charge fees that encourage rather than discourage facility use. Consider offsetting the cost of maintaining pumpout facilities by fuel sales where these facilities are conveniently located in	N/A	N/A
<i>4-c: Marinas, Existing and New</i>			
4-39	Restrict boat repair and maintenance activities to clearly marked designated areas to prevent debris from falling into the water and preventing invasive species	N/A	N/A
4-40	Secure all fueling facilities and storage areas with appropriate shut-off devices and security locks and inspect regularly	N/A	N/A
4-41	Design fueling stations with spill containment equipment that is stored in a clearly marked location, accessible to work and storage areas. Post emergency phone numbers in a prominent location	N/A	N/A
4-42	Design a spill contingency plan	N/A	N/A

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4-43	Inspect and maintain all containment berms or devices in accordance with State regulations. Investigate immediately signs of leakage or spillage, and undertake cleanup in accordance with applicable best management practices	N/A	N/A
4-44	Have a trained operator present and prepared to respond to accidental spills	N/A	N/A
4-45	Maintain daily inventory records to identify abnormal loss or gain of liquid	N/A	N/A
4-46	Prohibit the cleaning of hoses, fittings, pumps, and other accessory equipment on piers, docks or adjacent upland to prevent runoff into the marina basin or other surface or groundwater	N/A	N/A
4-47	Create and/or maintain a dedicated fund for maintenance in the case of government-owned facilities	N/A	N/A
4-48	Restrict the operation of pumpout facilities to trained marina personnel only	N/A	N/A
Final Score: 0 out of 0 Total Possible Points			0
Number of BMPs addressed (either fully or partially): 0 out of 0 BMPs (0%)			0

5: Roads and Bridges

5-a: New Roads and Bridges

5-01	Conduct road and bridge maintenance (de-icing material usage and storage, pothole repair, bridge washing, scraping and painting, etc) according to best management practices	P: Regular training	2
5-02	Conduct right-of-way activities (mowing, brush removal, pesticide and fertilizer use, etc) - according to best management practices	P: Regular training	2

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5-03	Include high percentage of indigenous plants in new landscaping on public-owned properties (excluding arboretums, horticultural gardens, and site requiring turf grasses)	This could be a recommendation	0
5-04	Implement a regular inspection and maintenance plan of existing structures	P: Storm sewers cleaned twice/year	2
5-05	Develop and identify erosion/sediment control areas (examples include steep slopes, easily erodible soils, and nearby sensitive areas) and retrofit opportunities	P:	2
5-06	Require percentage of roads to be tested with non-salt and non-sand de-icing.		0
<i>5-b: Existing Roads and Bridges</i>			
5-07	Minimize the amount of land disturbed and the duration of disturbance	P:	2
5-08	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	Village already built up along waterways	NA
5-09	Retain and protect trees and other natural vegetation on and near disturbed sites	P: They take out right-of way trees, but follow NYS standards	0
5-10	Retain additional runoff sites	NYS Standards	2
5-11	Minimize the creation of impervious areas	No restrictions on parking lot size. This could be recommendation to reduce paved areas. There is a restriction that buildings must be 30% of lot size or less.	0
5-12	Treat increased runoff caused by changed surface conditions to minimize the danger of flooding, erosion and pollutants entering waterbodies prior to, during and after construction	NYS standards followed	2
5-13	Use temporary vegetation and mulching to protect exposed and critical areas during development	NYS standards followed	2

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5-14	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	NYS standards followed, but they allow selling/shipping soil offsite.	2
5-15	Stabilize disturbed soils as soon as possible	NYS standards followed	2
5-16	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff		NA
5-17	Control erosion and sedimentation prior to, during and after site preparation and construction	P	1
5-18	Require long term stormwater management plan.	P	1
5-19	Require long term sedimentation control & maintenance.	P	1
<i>5-c: Existing and New Roads and Bridges</i>			
5-20	Target existing public holdings, such as parks, for removing unnecessary impervious surfaces	P: Factory Street Park is example and Zoning code encourages shared driveways to reduce impervious surface.	2
5-21	Incorporate New York State Department of Transportation design and guidance documents, standard specifications, and procedural manuals (Highway Design Manual, Environmental Procedures Manual, Maintenance Guidelines, etc) into local laws and operating proc	P; Ch 200	2
5-22	Ensure application of appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	NYS standards followed	2
5-23	Ensure proper operation and maintenance of runoff management facilities	P:	2
5-24	Participate in Cornell Local Roads Program activities and training	P:	2

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5-25	Target training programs at highway officials, contractors, construction workers, inspectors, zoning and planning officials	P:	1
5-26	Target training and outreach programs about the proper handling of materials, leakage and spill prevention and spill response procedures at maintenance staff and workers	P: Watch videos on Fridays; PESH	2
Final Score: 36 out of 48 Total Possible Points			36
Number of BMPs addressed (either fully or partially): 20 out of 24 BMPs (83%)			20

6: Onsite Wastewater Treatment Systems

6-01	Conduct regular inspections of OWTS at a frequency adequate to determine failure and undertake required maintenance	NYS standards as regulated by DEC	2
6-02	Institute setback guidelines	NYS standards as regulated by DEC	2
6-03	Promulgate plumbing codes that require practices that are compatible with OWTS	NYS standards as regulated by DEC	2
6-04	Target outreach programs at homeowners, contractors and developers	NYS standards as regulated by DEC	2
6-05	Inspection of all OWTS at property transfer or within 1 year prior to transfer	NYS standards as regulated by DEC	2
6-06	Require all properties within 500' of municipal service to connect.	Code §193-26,27,30 NYS standards as regulated by DEC	2
6-07	Set goals for effluent limits (nitrogen, phosphorous, BOD, etc)	NYS standards as regulated by DEC	2
Final Score: 14 out of 14 Total Possible Points			14
Number of BMPs addressed (either fully or partially): 7 out of 7 BMPs (100%)			7

Overall Assessment Score: 122 out of 178 Total Possible Points			122
Number of BMPs addressed (either fully or partially): 66 out of 87 BMPs (76%)			66

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BMP	Best Management Practices (BMP)	Existing Means of Implementation (law, regulation, practice, etc)	Degree of Implementation
§ - #			(2-fully, 1-partially, 0-not at all, n/a-not applicable)
1: Development			
<i>1-a: Existing Development</i>			
1-01	Identify retrofit opportunities	P: 1999 Joint Comprehensive Plan encourages and identifies potential retrofitting options.	2
1-02	Identify habitat and natural conveyance system restoration opportunities		0
1-03	Establish retention/detention areas	P: Required on commercial property	1
1-04	Acquire additional land for locating treatment facilities	JCP: Sewer systems appear to be at capacity; expansion planned. 2 small areas: Kissing Bridge & Crane Ridge Subdivision. Only for new subdivisions; most of the town uses septic systems	1
1-05	Encourage homeowners to place compost piles away from waterbodies and roadways		0
1-06	Encourage proper use and disposal of lawn and other household chemicals	P; Advocate for southtowns HHW events by county.	1
1-07	Institute turf management practices on golf courses and parks and recreation areas	private courses only	0
1-08	Undertake storm drain stenciling	N/A	
1-09	Encourage volunteer programs, such as adopt-a-highways and adopt-a-stream, etc.	Some state and private programs operate in the Town, but the Town does not directly manage any	0
1-10	Include high percentage of indigenous plants in new landscaping on privately-owned properties (excluding arboretums, horticultural gardens, and sites requiring turf grasses)		0
1-11	Encourage water conservation		0
1-12	Develop outreach programs targeted at specific problems related to water quality management & resource conservation		0
1-13	Encourage proper control of pet wastes		0
1-14	Encourage continued operation of private storm water runoff control structures		0
1-15	Discourage feeding of waterfowl		0
1-16	Discourage the introduction of exotic aquatic species (Eurasian water milfoil, zebra mussels, water chestnut, etc		0
1-17	Encourage continued (periodic) operation and maintenance of private septic disposal systems	L: ECDOH, §114-21	2

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1-18	Effective and consistent application and enforcement of stormwater regulations & requirements	R: §114-9 Prohibits sewer to stormwater connections	2
1-19	Require certification of existing on site septic systems for property transfers or building expansions.	L: Erie County Health Department	2
1-20	Require entire property (existing as well as proposed) to be included in stormwater analysis/calculation.	R: DEC regulation (for developments affecting more than 1 acre)	2
<i>1-b: New Development and Substantial Redevelopment</i>			
1-21	Minimize the amount of land disturbed and the duration of disturbance	No	0
1-22	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	R: §129-12 B(5)(c)	2
1-23	Retain and protect trees and other natural vegetation on and near disturbed sites	R: §129-12 B(5)(b); §129-13; JCP p.35 mentions maintaining street trees	2
1-24	Account for topography and soil type in efforts to minimize erosion potential	JCP: p. 17; P	1
1-25	Maintain runoff rates similar to pre-construction levels		0
1-26	Minimize the creation of impervious areas	P: parking	1
1-27	Control increased runoff caused by changed surface conditions to minimize the danger of flooding, erosion, sedimentation and pollutants entering waterbodies prior to, during and after construction	L: NYS	1
1-28	Use temporary vegetation and mulching to protect exposed and critical areas during development	L: NYS	1
1-29	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	§129-12B(5)(a)	1
1-30	Stabilize disturbed soils as soon as possible	L: NYS	1
1-31	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff	L: NYS	1
1-32	Use appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	§109-2: recycling mandatory	2
1-33	Encourage construction site management techniques which include the proper handling and disposal of pesticides and petroleum products and containers	L: NYS	1
1-34	Ensure proper operation and maintenance of runoff management facilities	L: NYS	2
1-35	Target training for contractors, inspectors and zoning and planning officials.	DOS/EC Local Government Training for municipal officials, but not contractors working in the town.	2
1-36	Require tree surveys and/or cutting plans.	P; Not required in the past.	1

Recommend as part of site plan review

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1-37	Develop priority list for BMP's - use of vegetative low areas for retention/infiltration.		0
1-38	Encourage cluster development.	§150-61 (allowed, not necessarily encouraged)	1
1-39	Require connection to and/or extension of existing water & sewer if project is within 500 feet of existing infrastructure	L: Erie County, if system capacity allows. Required within 100' of property if there are sewers	2
1-40	Enact limits on driveway grades.	L: NYS for state roads	1
1-41	For redevelopment, employ regulations that provide for technologically advanced (on and off) site wastewater treatment systems to optimize efficiencies and address "challenging" sites	§114-23	1
1-42	Implement Federal/State Stormwater (SPDES) Phase II requirements		2
Final Score: 39 out of 82 Total Possible Points			39
Number of BMPs addressed (either fully or partially): 27 out of 41 BMPs (66%)			27

2: Forestry and Agriculture			
<i>2-a: Forestry</i>			
2-01	Consider potential water quality impacts when selecting silviculture system (yarding system, site preparation, pesticides employment, etc)		0
2-02	Consider harvesting practices		0
2-03	Seasonal preference for logging operations		0
2-04	Have specialists (geologist, soil scientist, geotechnical engineer, wildland hydrologist) review plans in high erosion hazard areas		0
2-05	Preplan harvest areas, skid trails, and access so as to be on stable soils, avoiding steep gradients, multiple stream crossings, poor drainage areas, etc.		0
2-06	Limit grades of access roads.		0
2-07	Require stabilization of roads/drives to forestry site.		0
2-08	Employ natural topography and contour for design of road network		0
2-09	Require stormwater controls for increased runoff from ground cover modification		0
2-10	Consider site restoration		0
<i>2-b: Agriculture</i>			
2-11	Use Agricultural Environmental Management (AEM)	No	0

Stormwater channeling is required in developments

Restoring disturbed sites is limited to grading, loaming and seeding (grass fields)

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2-12	Require farms seeking agricultural value assessment to participate in AEM	No	0
Final Score: 0 out of 4 Total Possible Points			0
Number of BMPs addressed (either fully or partially): 0 out of 2 BMPs (0%)			0

RECOMMEND

3: Waterways and Wetlands

3-a: Modified Waterways- None

3-01	Develop an operation and maintenance program for existing modified streams that includes identification of opportunities and actions to restore habitat and the physical and chemical characteristics of these streams.	N/A	N/A
3-02	Improve stream quality by controlling instream sedimentation and selectively clearing debris	Town clears streams only when necessary. No sedimentation control	1
3-03	Establish or reestablish riparian buffers	No	0
3-04	Prevent animal wastes from entering waterbodies	No	0
3-05	Attempt vegetative stabilization before undertaking structural measures	No	0
3-06	Design and construct shore erosion control facilities, in accordance with an erosion and sedimentation control plan, in areas where marsh creation and soil bioengineering are ineffective or where existing protection methods are being flanked or are falling	Town engineer or Soil & Water Conservation District assists with this when needed.	2
3-07	Schedule the periodic maintenance of sediment control measures, and inspect and repair them as needed in conformance with established schedule.	P: Ditches	1
3-08	Protect streambanks through direct nonstructural means, such as new vegetation or protection of existing vegetation; direct structural means, such as revetments and bulkheads; indirect nonstructural means, such as regulating irrigation near streambanks.	No	0
3-09	Use setbacks to minimize disturbance of land adjacent to streambanks and shorelines	P: Site Plan review by Planning Board	1
3-10	Prevent discharges to waterbodies in amounts that would adversely affect the taste, color or odor of the waters, or would impair the waters for their best usages	§114-11	2
3-b: Wetlands and Riparian Area Management and Restoration			
3-11	Consider wetlands and riparian areas and their non-point source (nps) control potential on a watershed scale	L: NYS; P: Such as headwaters of Spring Brook	1

Could recommend that ditches are vegetated to reduce flow velocity and erosion

Recommend requiring 100' setback from stream and riparian buffer.

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3-12	Identify existing functions of those wetland and riparian areas with significant nps control potential when implementing nps management practices. Do not alter wetlands or riparian areas to improve their water quality at the expense of their other function	No	0
3-13	Conduct permitting, licensing, certification and nonregulatory nps pollution activities in a manner that protects wetland functions	L: NYS, DEC	2
3-14	Special zoning considerations to protect wetland areas	No	0
3-15	Use appropriate pretreatment practices such as vegetated systems or detention or retention basins to prevent adverse impacts to wetland functions that affect nps pollution abatement from hydrologic changes, sedimentation, or contaminants	No	0
3-16	All projects should require wetlands certification.	No	0
Final Score: 9 out of 30 Total Possible Points			10
Number of BMPs addressed (either fully or partially): 7 out of 15 BMPs (47%)			7

4: Marinas

4-a: Existing Marinas

4-01	Clean maintenance areas regularly preferably by vacuuming to remove trash, sandings, paint chips, etc.	N/A	N/A
4-02	Prevent residue from being carried into surface waters by performing abrasive blasting within plastic tarp enclosures on windless days or within spray booths	N/A	N/A
4-03	Provide proper disposal/recycling facilities to marina patrons, preferably covered receptacles	N/A	N/A
4-04	Establish fish cleaning areas, and implement rules governing the conduct of fish cleaning operations	N/A	N/A
4-05	Educate boaters on the importance of proper fish cleaning practices	N/A	N/A
4-06	Implement fish composting where appropriate	N/A	N/A
4-07	Store materials in areas impervious to the type of material stored. Build curbs, berms, or other barriers around the areas to contain spills	N/A	N/A
4-08	Use separate, clearly labeled containers for the disposal of oil, gasoline, antifreeze, diesel, kerosene, and mineral spirits	N/A	N/A

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4-09	Target outreach programs about proper disposal at marina patrons through the use of signs, mailings, and other means	N/A	N/A
4-10	Promote the use in bilges of oil-absorbing materials, and replace them as necessary, preferably recycling, or disposing of them in accordance with petroleum disposal regulation	N/A	N/A
4-11	Use a container under the air vent while refueling inboard tanks if the tank vents are not equipped with a fuel/air separator	N/A	N/A
4-12	Prohibit in-water hull scraping or any underwater process to remove paint from boat hulls	N/A	N/A
4-13	Wash the boat hull above the waterline by hand, using only necessary amounts of detergents and cleaning compounds that are phosphate-free and biodegradable	N/A	N/A
4-14	Prohibit the use of detergents and cleaning compounds containing ammonia, sodium hypochloride, chlorinated solvents, petroleum distillates, alcohol, or lye	N/A	N/A
4-15	Educate individuals about the importance of trash reduction and recycling through: interpretive and instructional signs placed at marinas and boat-launching sites, pamphlets or flyers, newsletters, inserts in billings, meetings and presentations, workshop	N/A	N/A
4-16	Inspect pumpout facilities regularly, and repair them, if practical, under a maintenance contract with a competent contractor	N/A	N/A
4-17	Add language to slip lease agreements mandating the use of pumpout facilities and specifying penalties for failure to comply	N/A	N/A
4-18	Place dye tablets in holding tanks to identify and discourage illegal disposal	N/A	N/A
4-19	Prohibit motorized vessels from areas (define areas) that contain important shallow-water habitats	N/A	N/A
4-20	Establish and enforce no-wake zones to decrease turbidity and reduce erosion potential from boat wakes	N/A	N/A
4-b: New Marinas			

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4-21	Design and site marinas to maximize exchange of marina basin water. Limit basins and channels with square corners that tend to trap flotsam, and place dock structures in a manner that promotes circulation	N/A	N/A
4-22	Perform a preconstruction assessment, which includes a water quality monitoring and modeling methodology, to predict post-construction water quality conditions	N/A	N/A
4-23	Monitor water quality during construction to protect ambient water quality to the maximum practicable extent	N/A	N/A
4-24	Develop a marina siting policy to discourage development in areas containing important habitat designated by local, State, or federal agencies	N/A	N/A
4-25	Conduct surveys and employ rapid bioassessment techniques to assess historic habitat function (e.g. spawning, nursery, and migration pathways) and potential impacts to these and other biological functions and resources	N/A	N/A
4-26	Encourage the redevelopment or expansion of existing marina facilities that have demonstrated minimal environmental impacts instead of developing new marina facilities	N/A	N/A
4-27	Consider alternative sites with minimal potential environmental impacts when the use of previously disturbed sites is not feasible	N/A	N/A
4-28	Minimize disturbance of indigenous vegetation in the riparian area	N/A	N/A
4-29	Use soil bioengineering or plants, wherever conditions allow, to restore damaged habitat along shorelines and streambanks	N/A	N/A
4-30	Use properly designed and constructed engineering practices that minimize shoreline disturbance in areas where soil bioengineering and plants are ineffective	N/A	N/A
4-31	Use appropriate shore erosion control methods, such as returns or return walls, in areas where existing protection methods are being flanked or are falling	N/A	N/A
4-32	Plan and design all steambank, shoreline, and navigation structures so that they do not transfer erosion energy to or otherwise cause visible loss of surrounding streambanks or shorelines	N/A	N/A
4-33	Locate and design fuel stations so that spills can be contained in a limited area	N/A	N/A

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4-34	Design and install underground fuel storage tanks according to State regulations, including the provision of detection systems and automatic fuel tank and pump leak shut-offs	N/A	N/A
4-35	Provide aboveground fuel tanks and fueling areas with a curbed or diked storage area to handle containment volumes meeting State (and local) codes and inspect regularly	N/A	N/A
4-36	Use preferred pumpout systems: fixed-point, portable, dedicated slipside, and pumpout boats	N/A	N/A
4-37	Design onsite wastewater treatment systems to specifically handle waste from vessels	N/A	N/A
4-38	Post pumpout facility location and regulations at the marina. Charge fees that encourage rather than discourage facility use. Consider offsetting the cost of maintaining pumpout facilities by fuel sales where these facilities are conveniently located in	N/A	N/A
<i>4-c: Marinas, Existing and New</i>			
4-39	Restrict boat repair and maintenance activities to clearly marked designated areas to prevent debris from falling into the water and preventing invasive species	N/A	N/A
4-40	Secure all fueling facilities and storage areas with appropriate shut-off devices and security locks and inspect regularly	N/A	N/A
4-41	Design fueling stations with spill containment equipment that is stored in a clearly marked location, accessible to work and storage areas. Post emergency phone numbers in a prominent location	N/A	N/A
4-42	Design a spill contingency plan	N/A	N/A
4-43	Inspect and maintain all containment berms or devices in accordance with State regulations. Investigate immediately signs of leakage or spillage, and undertake cleanup in accordance with applicable best management practices	N/A	N/A
4-44	Have a trained operator present and prepared to respond to accidental spills	N/A	N/A
4-45	Maintain daily inventory records to identify abnormal loss or gain of liquid	N/A	N/A

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4-46	Prohibit the cleaning of hoses, fittings, pumps, and other accessory equipment on piers, docks or adjacent upland to prevent runoff into the marina basin or other surface or groundwater	N/A	N/A
4-47	Create and/or maintain a dedicated fund for maintenance in the case of government-owned facilities	N/A	N/A
4-48	Restrict the operation of pumpout facilities to trained marina personnel only	N/A	N/A
Final Score: 0 out of 0 Total Possible Points			0
Number of BMPs addressed (either fully or partially): # out of # BMPs (#%)			0

5: Roads and Bridges

5-a: New Roads and Bridges

5-01	Conduct road and bridge maintenance (de-icing material usage and storage, pot-hole repair, bridge washing, scraping and painting, etc) according to best management practices	P	2
5-02	Conduct right-of-way activities (mowing, brush removal, pesticide and fertilizer use, etc) - according to best management practices	P	2
5-03	Include high percentage of indigenous plants in new landscaping on public-owned properties (excluding arboretums, horticultural gardens, and site requiring turf grasses)	No	0
5-04	Implement a regular inspection and maintenance plan of existing structures	P	2
5-05	Develop and identify erosion/sediment control areas (examples include steep slopes, easily erodible soils, and nearby sensitive areas) and retrofit opportunities	P	2
5-06	Require percentage of roads to be tested with non-salt and non-sand de-icing.	No, not feasible in climate	0

5-b: Existing Roads and Bridges

5-07	Minimize the amount of land disturbed and the duration of disturbance	P	2
5-08	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	P	2
5-09	Retain and protect trees and other natural vegetation on and near disturbed sites	JCP: p.35 mentions maintaining street trees. P	2
5-10	Retain additional runoff sites	P	2

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5-11	Minimize the creation of impervious areas	P	2
5-12	Treat increased runoff caused by changed surface conditions to minimize the danger of flooding, erosion and pollutants entering waterbodies prior to, during and after construction	No	0
5-13	Use temporary vegetation and mulching to protect exposed and critical areas during development	P	2
5-14	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	P	2
5-15	Stabilize disturbed soils as soon as possible	P	2
5-16	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff	P	2
5-17	Control erosion and sedimentation prior to, during and after site preparation and construction	P	2
5-18	Require long term stormwater management plan.	No	0
5-19	Require long term sedimentation control & maintenance.	P: Daily log sheet	1
5-c: Existing and New Roads and Bridges			
5-20	Target existing public holdings, such as parks, for removing unnecessary impervious surfaces	P	2
5-21	Incorporate New York State Department of Transportation design and guidance documents, standard specifications, and procedural manuals (Highway Design Manual, Environmental Procedures Manual, Maintenance Guidelines, etc) into local laws and operating proc	CH 125; HWY	2
5-22	Ensure application of appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	P	2
5-23	Ensure proper operation and maintenance of runoff management facilities	P	2
5-24	Participate in Cornell Local Roads Program activities and training	P	2
5-25	Target training programs at highway officials, contractors, construction workers, inspectors, zoning and planning officials	P	2
5-26	Target training and outreach programs about the proper handling of materials, leakage and spill prevention and spill response procedures at maintenance staff and workers	L: PESH	2
Final Score: 43 out of 52 Total Possible Points			43
Number of BMPs addressed (either fully or partially): 22 out of 26 BMPs (85%)			22

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6: Onsite Wastewater Treatment Systems

6-01	Conduct regular inspections of OWTS at a frequency adequate to determine failure and undertake required maintenance	P: for Town-owned facilities	2
6-02	Institute setback guidelines	R: EC	2
6-03	Promulgate plumbing codes that require practices that are compatible with OWTS	No	0
6-04	Target outreach programs at homeowners, contractors and developers	No	0
6-05	Inspection of all OWTS at property transfer or within 1 year prior to transfer	R: EC	2
6-06	Require all properties within 500' of municipal service to connect.	R: ECDOH	2
6-07	Set goals for effluent limits (nitrogen, phosphorous, BOD, etc)	R: EC	2
Final Score: 10 out of 14 Total Possible Points			10
Number of BMPs addressed (either fully or partially): 6 out of 7 BMPs (85.7%)			6
Overall Assessment Score: 102 out of 182 Total Possible Points			102
Number of BMPs addressed (either fully or partially): 61 out of 91 BMPs (67%)			61

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BMP			Degree of Implementation
§ - #	Best Management Practices (BMP)	Existing Means of Implementation (law, regulation, practice, etc)	(2-fully, 1-partially, 0-not at all, n/a-not applicable)
1: Development			
<i>1-a: Existing Development</i>			
1-01	Identify retrofit opportunities	P:	2
1-02	Identify habitat and natural conveyance system restoration opportunities	P:	2
1-03	Establish retention/detention areas	P:	2
1-04	Acquire additional land for locating treatment facilities	No; Sewer district in place, septic systems used in new development	1
1-05	Encourage homeowners to place compost piles away from waterbodies and roadways	Compost piles require a Special Use Permit	0
1-06	Encourage proper use and disposal of lawn and other household chemicals	High participation in Hazardous Waste Recycling events	1
1-07	Institute turf management practices on golf courses and parks and recreation areas	P: on parks and recreational land (no public golf courses)	2
1-08	Undertake storm drain stenciling	No	0
1-09	Encourage volunteer programs, such as adopt-a-highways and adopt-a-stream, etc.	No	0
1-10	Include high percentage of indigenous plants in new landscaping on privately-owned properties (excluding arboretums, horticultural gardens, and sites requiring turf grasses)	P: reviewed during Special Use Permit process	1
1-11	Encourage water conservation	P: reactionary	1
1-12	Develop outreach programs targeted at specific problems related to water quality management & resource conservation	No	0
1-13	Encourage proper control of pet wastes	§64-15 (only dog wastes specified); based on DEC and Special Use Permits	2
1-14	Encourage continued operation of private storm water runoff control structures	§104-8; stormwater runoff system required for new developments. §83: Mobile Homes also required	1
1-15	Discourage feeding of waterfowl	No	N/A
1-16	Discourage the introduction of exotic aquatic species (Eurasian water milfoil, zebra mussels, water chestnut, etc	No	0
1-17	Encourage continued (periodic) operation and maintenance of private septic disposal systems	R: ECDOH	2
1-18	Effective and consistent application and enforcement of stormwater regulations & requirements	No	0
1-19	Require certification of existing on site septic systems for property transfers or building expansions.	R: ECDOH	2

build into the code

build into the code

Could suggest rain barrel projects to reduce water consumption in summer. And for number 1-14.

add for significant redevelopment

recommend outreach on proper septic tank maintenance. ECDOH only inspects on transfer of property.

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1-20	Require entire property (existing as well as proposed) to be included in stormwater analysis/calculation.	R: §104: Subdivision Law; §83-21: Mobile Homes, Stormwater Drainage. §69-13: Flood Damage Prevention, General Construction Standards. §77-9 ODA, Drainage plan required. Specifying entire property in analysis	2	adding to new code
1-b: New Development and Substantial Redevelopment				
1-21	Minimize the amount of land disturbed and the duration of disturbance	No	0	May consider spelling this out in ordinance or regulation.
1-22	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	§120-12: Preservation of top soil and other natural features; §104.13: Subdivision Law, Development standards	2	
1-23	Retain and protect trees and other natural vegetation on and near disturbed sites	§120-12: Preservation of top soil and other natural features; §111-9: Standards for Tree Preservation Plan	2	Only ones with this
1-24	Account for topography and soil type in efforts to minimize erosion potential	P: Board of Appeals makes considerations based on slope of topography.	1	
1-25	Maintain runoff rates similar to pre-construction levels	§69: Flood Damage Prevention	2	
1-26	Minimize the creation of impervious areas	max lot coverage: 120: Zoning - 5 to 35 (?)%	2	Only ones with this
1-27	Control increased runoff caused by changed surface conditions to minimize the danger of flooding, erosion, sedimentation and pollutants entering waterbodies prior to, during and after construction	§111-9 - Tree Preservation	1	not in subdivision law and could be included there as a recommendation.
1-28	Use temporary vegetation and mulching to protect exposed and critical areas during development	§104-8 Subdivision Law, Required Improvements and agreements	2	Could recommend requiring erosion control on sites smaller than 1 acre (which is current state regulation)
1-29	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	§104-13 Subdivision Law	2	
1-30	Stabilize disturbed soils as soon as possible	§104-13 Subdivision Law	2	
1-31	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff	No	0	
1-32	Use appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	§100; P: HHW/Electronics recycling	2	improving totes in coming years; all munis should specify construction waste/haz waste is to comply with standards
1-33	Encourage construction site management techniques which include the proper handling and disposal of pesticides and petroleum products and containers	Handled through Special Use permit. DEC.	2	build into construction standards along with waste removal
1-34	Ensure proper operation and maintenance of runoff management facilities	No	0	

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1-35	Target training for contractors, inspectors and zoning and planning officials.	EC/DOS	2	towns not aware of their own regs
1-36	Require tree surveys and/or cutting plans.	§120-77: Zoning, Enforcement and Administration, Application information	2	few do this
1-37	Develop priority list for BMP's - use of vegetative low areas for retention/infiltration.	No	0	
1-38	Encourage cluster development.	§120-45 Cluster Residential developments	2	(updated since regional plan?)
1-39	Require connection to and/or extension of existing water & sewer if project is within 500 feet of existing infrastructure	County Sewers. They survey people in the area of request in case of extension, but it's not a requirement.	2	Feasible with limited public water/sewer infrastructure?
1-40	Enact limits on driveway grades.	L: NYS for state roads	1	grades limited for streets and sidewalks
1-41	For redevelopment, employ regulations that provide for technologically advanced (on and off) site wastewater treatment systems to optimize efficiencies and address "challenging" sites	No	0	
1-42	Implement Federal/State Stormwater (SPDES) Phase II requirements	N/A	N/A	
Final Score: 50 out of 84 Total Possible Points			50	
Number of BMPs addressed (either fully or partially): 29 out of 42 BMPs (69%)			29	

2: Forestry and Agriculture

2-a: Forestry

2-01	Consider potential water quality impacts when selecting silviculture system (yarding system, site preparation, pesticides employment, etc)	No	0	
2-02	Consider harvesting practices	No	0	
2-03	Seasonal preference for logging operations	No	0	
2-04	Have specialists (geologist, soil scientist, geotechnical engineer, wildland hydrologist) review plans in high erosion hazard areas	No	0	
2-05	Preplan harvest areas, skid trails, and access so as to be on stable soils, avoiding steep gradients, multiple stream crossings, poor drainage areas, etc.	No	0	
2-06	Limit grades of access roads.	§101-14	2	
2-07	Require stabilization of roads/drives to forestry site.	No	0	
2-08	Employ natural topography and contour for design of road network	No	0	
2-09	Require stormwater controls for increased runoff from ground cover modification	No	0	
2-10	Consider site restoration	No	0	

2-b: Agriculture

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2-11	Use Agricultural Environmental Management (AEM)	No	0
2-12	Require farms seeking agricultural value assessment to participate in AEM	No	0
Final Score: 2 out of 24 Total Possible Points			2
Number of BMPs addressed (either fully or partially): 1 out of 12 BMPs (8%)			1
3: Waterways and Wetlands			
<i>3-a: Modified Waterways</i>			
3-01	Develop an operation and maintenance program for existing modified streams that includes identification of opportunities and actions to restore habitat and the physical and chemical characteristics of these streams.	No. All waterways are natural.	0
3-02	Improve stream quality by controlling instream sedimentation and selectively clearing debris	Do not control sedimentation, but have cleared debris with a permit when necessary.	1
3-03	Establish or reestablish riparian buffers	No	0
3-04	Prevent animal wastes from entering waterbodies	§64-15 (only dog wastes specified)	1
3-05	Attempt vegetative stabilization before undertaking structural measures	No	0
3-06	Design and construct shore erosion control facilities, in accordance with an erosion and sedimentation control plan, in areas where marsh creation and soil bioengineering are ineffective or where existing protection methods are being flanked or are failing	No	0
3-07	Schedule the periodic maintenance of sediment control measures, and inspect and repair them as needed in conformance with established schedule.	No	0
3-08	Protect streambanks through direct nonstructural means, such as new vegetation or protection of existing vegetation; direct structural means, such as revetments and bulkheads; indirect nonstructural means, such as regulating irrigation near streambanks or	No	0
3-09	Use setbacks to minimize disturbance of land adjacent to streambanks and shorelines	No	0
3-10	Prevent discharges to waterbodies in amounts that would adversely affect the taste, color or odor of the waters, or would impair the waters for their best usages	§120-56	2

recommend
recommend fences for livestock

Only have floodplain setbacks. Could consider waterway setbacks for buffers.

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<i>3-b: Wetlands and Riparian Area Management and Restoration</i>			
3-11	Consider wetlands and riparian areas and their non-point source (nps) control potential on a watershed scale	§120-77(B)(9)	2
3-12	Identify existing functions of those wetland and riparian areas with significant nps control potential when implementing nps management practices. Do not alter wetlands or riparian areas to improve their water quality at the expense of their other function	No	0
3-13	Conduct permitting, licensing, certification and nonregulatory nps pollution activities in a manner that protects wetland functions	L: NYS, DEC	2
3-14	Special zoning considerations to protect wetland areas	P:	1
3-15	Use appropriate pretreatment practices such as vegetated systems or detention or retention basins to prevent adverse impacts to wetland functions that affect nps pollution abatement from hydrologic changes, sedimentation, or contaminants	No	0
3-16	All projects should require wetlands certification.	No	0
Final Score: 9 out of 32 Total Possible Points			9
Number of BMPs addressed (either fully or partially): 5 out of 16 BMPs (31%)			6

4: Marinas			
<i>4-a: Existing Marinas</i>			
4-01	Clean maintenance areas regularly preferably by vacuuming to remove trash, sandings, paint chips, etc.	N/A	N/A
4-02	Prevent residue from being carried into surface waters by performing abrasive blasting within plastic tarp enclosures on windless days or within spray booths	N/A	N/A
4-03	Provide proper disposal/recycling facilities to marina patrons, preferably covered receptacles	N/A	N/A
4-04	Establish fish cleaning areas, and implement rules governing the conduct of fish cleaning operations	N/A	N/A
4-05	Educate boaters on the importance of proper fish cleaning practices	N/A	N/A
4-06	Implement fish composting where appropriate	N/A	N/A

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4-07	Store materials in areas impervious to the type of material stored. Build curbs, berms, or other barriers around the areas to contain spills	N/A	N/A
4-08	Use separate, clearly labeled containers for the disposal of oil, gasoline, antifreeze, diesel, kerosene, and mineral spirits	N/A	N/A
4-09	Target outreach programs about proper disposal at marina patrons through the use of signs, mailings, and other means	N/A	N/A
4-10	Promote the use in bilges of oil-absorbing materials, and replace them as necessary, preferably recycling, or disposing of them in accordance with petroleum disposal regulation	N/A	N/A
4-11	Use a container under the air vent while refueling inboard tanks if the tank vents are not equipped with a fuel/air separator	N/A	N/A
4-12	Prohibit in-water hull scraping or any underwater process to remove paint from boat hulls	N/A	N/A
4-13	Wash the boat hull above the waterline by hand, using only necessary amounts of detergents and cleaning compounds that are phosphate-free and biodegradable	N/A	N/A
4-14	Prohibit the use of detergents and cleaning compounds containing ammonia, sodium hypochloride, chlorinated solvents, petroleum distillates, alcohol, or lye	N/A	N/A
4-15	Educate individuals about the importance of trash reduction and recycling through: interpretive and instructional signs placed at marinas and boat-launching sites, pamphlets or flyers, newsletters, inserts in billings, meetings and presentations, workshop	N/A	N/A
4-16	Inspect pumpout facilities regularly, and repair them, if practical, under a maintenance contract with a competent contractor	N/A	N/A
4-17	Add language to slip lease agreements mandating the use of pumpout facilities and specifying penalties for failure to comply	N/A	N/A
4-18	Place dye tablets in holding tanks to identify and discourage illegal disposal	N/A	N/A
4-19	Prohibit motorized vessels from areas (define areas) that contain important shallow-water habitats	N/A	N/A

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4-20	Establish and enforce no-wake zones to decrease turbidity and reduce erosion potential from boat wakes	N/A	N/A
<i>4-b: New Marinas</i>			
4-21	Design and site marinas to maximize exchange of marina basin water. Limit basins and channels with square corners that tend to trap flotsam, and place dock structures in a manner that promotes circulation	N/A	N/A
4-22	Perform a preconstruction assessment, which includes a water quality monitoring and modeling methodology, to predict post-construction water quality conditions	N/A	N/A
4-23	Monitor water quality during construction to protect ambient water quality to the maximum practicable extent	N/A	N/A
4-24	Develop a marina siting policy to discourage development in areas containing important habitat designated by local, State, or federal agencies	N/A	N/A
4-25	Conduct surveys and employ rapid bioassessment techniques to assess historic habitat function (e.g. spawning, nursery, and migration pathways) and potential impacts to these and other biological functions and resources	N/A	N/A
4-26	Encourage the redevelopment or expansion of existing marina facilities that have demonstrated minimal environmental impacts instead of developing new marina facilities	N/A	N/A
4-27	Consider alternative sites with minimal potential environmental impacts when the use of previously disturbed sites is not feasible	N/A	N/A
4-28	Minimize disturbance of indigenous vegetation in the riparian area	N/A	N/A
4-29	Use soil bioengineering or plants, wherever conditions allow, to restore damaged habitat along shorelines and streambanks	N/A	N/A
4-30	Use properly designed and constructed engineering practices that minimize shoreline disturbance in areas where soil bioengineering and plants are ineffective	N/A	N/A

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4-31	Use appropriate shore erosion control methods, such as returns or return walls, in areas where existing protection methods are being flanked or are falling	N/A	N/A
4-32	Plan and design all steambank, shoreline, and navigation structures so that they do not transfer erosion energy to or otherwise cause visible loss of surrounding streambanks or shorelines	N/A	N/A
4-33	Locate and design fuel stations so that spills can be contained in a limited area	N/A	N/A
4-34	Design and install underground fuel storage tanks according to State regulations, including the provision of detection systems and automatic fuel tank and pump leak shut-offs	N/A	N/A
4-35	Provide aboveground fuel tanks and fueling areas with a curbed or diked storage area to handle containment volumes meeting State (and local) codes and inspect regularly	N/A	N/A
4-36	Use preferred pumpout systems: fixed-point, portable, dedicated slipside, and pumpout boats	N/A	N/A
4-37	Design onsite wastewater treatment systems to specifically handle waste from vessels	N/A	N/A
4-38	Post pumpout facility location and regulations at the marina. Charge fees that encourage rather than discourage facility use. Consider offsetting the cost of maintaining pumpout facilities by fuel sales where these facilities are conveniently located in	N/A	N/A
<i>4-c: Marinas, Existing and New</i>			
4-39	Restrict boat repair and maintenance activities to clearly marked designated areas to prevent debris from falling into the water and preventing invasive species	N/A	N/A
4-40	Secure all fueling facilities and storage areas with appropriate shut-off devices and security locks and inspect regularly	N/A	N/A
4-41	Design fueling stations with spill containment equipment that is stored in a clearly marked location, accessible to work and storage areas. Post emergency phone numbers in a prominent location	N/A	N/A
4-42	Design a spill contingency plan	N/A	N/A

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4-43	Inspect and maintain all containment berms or devices in accordance with State regulations. Investigate immediately signs of leakage or spillage, and undertake cleanup in accordance with applicable best management practices	N/A	N/A
4-44	Have a trained operator present and prepared to respond to accidental spills	N/A	N/A
4-45	Maintain daily inventory records to identify abnormal loss or gain of liquid	N/A	N/A
4-46	Prohibit the cleaning of hoses, fittings, pumps, and other accessory equipment on piers, docks or adjacent upland to prevent runoff into the marina basin or other surface or groundwater	N/A	N/A
4-47	Create and/or maintain a dedicated fund for maintenance in the case of government-owned facilities	N/A	N/A
4-48	Restrict the operation of pumpout facilities to trained marina personnel only	N/A	N/A
Final Score: 0 out of 0 Total Possible Points			0
Number of BMPs addressed (either fully or partially): 0 out of 0 BMPs			0

5: Roads and Bridges

5-a: New Roads and Bridges

5-01	Conduct road and bridge maintenance (de-icing material usage and storage, pot-hole repair, bridge washing, scraping and painting, etc) according to best management practices	P	2
5-02	Conduct right-of-way activities (mowing, brush removal, pesticide and fertilizer use, etc) - according to best management practices	P	2
5-03	Include high percentage of indigenous plants in new landscaping on public-owned properties (excluding arboretums, horticultural gardens, and site requiring turf grasses)	No	0
5-04	Implement a regular inspection and maintenance plan of existing structures	P	2
5-05	Develop and identify erosion/sediment control areas (examples include steep slopes, easily erodible soils, and nearby sensitive areas) and retrofit opportunities	No	0
5-06	Require percentage of roads to be tested with non-salt and non-sand de-icing.	No, due to climate	0

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<i>5-b: Existing Roads and Bridges</i>			
5-07	Minimize the amount of land disturbed and the duration of disturbance	P	2
5-08	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	P	2
5-09	Retain and protect trees and other natural vegetation on and near disturbed sites	§120-12	2
5-10	Retain additional runoff sites	P	2
5-11	Minimize the creation of impervious areas	P	2
5-12	Treat increased runoff caused by changed surface conditions to minimize the danger of flooding, erosion and pollutants entering waterbodies prior to, during and after construction	P	2
5-13	Use temporary vegetation and mulching to protect exposed and critical areas during development	P	2
5-14	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	P	2
5-15	Stabilize disturbed soils as soon as possible	P	2
5-16	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff	P	2
5-17	Control erosion and sedimentation prior to, during and after site preparation and construction	P	2
5-18	Require long term stormwater management plan.	No. except over 1 acre according to State law.	1
5-19	Require long term sedimentation control & maintenance.	§118-5C(1)(d): Application for utility scale systems; not related to roads	0
<i>5-c: Existing and New Roads and Bridges</i>			
5-20	Target existing public holdings, such as parks, for removing unnecessary impervious surfaces	P	2
5-21	Incorporate New York State Department of Transportation design and guidance documents, standard specifications, and procedural manuals (Highway Design Manual, Environmental Procedures Manual, Maintenance Guidelines, etc) into local laws and operating procedures	No	0

apply to code throughout

Town of Holland
Erie County, New York

5-22	Ensure application of appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	P	2
5-23	Ensure proper operation and maintenance of runoff management facilities	P	2
5-24	Participate in Cornell Local Roads Program activities and training	P	2
5-25	Target training programs at highway officials, contractors, construction workers, inspectors, zoning and planning officials	No	0
5-26	Target training and outreach programs about the proper handling of materials, leakage and spill prevention and spill response procedures at maintenance staff and workers	DEC stormwater program	1
Final Score: 38 out of 52 Total Possible Points			38
Number of BMPs addressed (either fully or partially): 20 out of 26 BMPs (77%)			20
6: Onsite Wastewater Treatment Systems			
6-01	Conduct regular inspections of OWTS at a frequency adequate to determine failure and undertake required maintenance	No	0
6-02	Institute setback guidelines	P	1
6-03	Promulgate plumbing codes that require practices that are compatible with OWTS	P	2
6-04	Target outreach programs at homeowners, contractors and developers	No	0
6-05	Inspection of all OWTS at property transfer or within 1 year prior to transfer	ECDOH	2
6-06	Require all properties within 500' of municipal service to connect.	EC	2
6-07	Set goals for effluent limits (nitrogen, phosphorous, BOD, etc)	EC	2
Final Score: 9 out of 14 Total Possible Points			9
Number of BMPs addressed (either fully or partially): 5 out of 7 BMPs (71%)			5
Overall Assessment Score: 108 out of 206 Total Possible Points			108
Number of BMPs addressed (either fully or partially): 61 out of 103 BMPs (59%)			61

recommend

**Town of Westfield
Chautauqua County, New York**

BMP § - #	Best Management Practices (BMP)	Existing Means of Implementation (law, regulation, practice, etc)	Degree of Implementation (2-fully, 1-partially, 0-not at all, n/a-not applicable)
1: Development			
<i>1-a: Existing Development</i>			
1-01	Identify retrofit opportunities	P: Westfield Dev. Corp., private individual, county IDA, Chatauqua Landmark Society	2
1-02	Identify habitat and natural conveyance system restoration opportunities	P: Chatauqua greenway trail, Chatauqua Lake to Lake Erie; Retain trees; greenway/trail development	2
1-03	Establish retention/detention areas	L: DEC rules open ditches	0
1-04	Acquire additional land for locating treatment facilities	no	0
1-05	Encourage homeowners to place compost piles away from water bodies and roadways	132-7 Waste disposal unlawful. Code does not address compost specifically	1
1-06	Encourage proper use and disposal of lawn and other household chemicals	P: Information provided through County program. 132-8 Wastewater disposal unlawful. Comp plan, Chap.2.3, Goal #4.5: Encourages proper disposal of Household waste	2
1-07	Institute turf management practices on golf courses and parks and recreation areas	P: new parcel (park) town properties	1
1-08	Undertake storm drain stenciling	N/A: Storm drains in Village only	n/a
1-09	Encourage volunteer programs, such as adopt-a-highways and adopt-a-stream, etc.	Chautauqua Cnty Greenway Plan Chapter 1: Community surveys were conducted and proper care of trails, natural, and recreational environments was a top priority. Survey concluded that participants would be willing to volunteer up to 9hrs a month. P: RT 394 State adoption and encouragement of cleanup efforts. Encourage shoreline and highway cleanups.	2
1-10	Include high percentage of indigenous plants in new landscaping on privately-owned properties (excluding arboretums, horticultural gardens, and sites requiring turf grasses)	Not done	0
1-11	Encourage water conservation	P: (Village systems), information materials	1
1-12	Develop outreach programs targeted at specific problems related to water quality management & resource conservation	Comp. plan list various recreational / educational initiatives relating to civic history, but is limited when it comes to environmental awareness. Environmental education programs are not instilled in town law. P: Chatauqua County Soil and Water district	0

Suggestion

**Town of Westfield
Chautauqua County, New York**

1-13	Encourage proper control of pet wastes	P: signage 132-7 & 56-5 (c)	2	suggestion: additional measures must be taken for owners to realize the impacts of letting pet wastes enter water bodies, signage along waterways and educational to homeowners with wells may go a long way, since few will read the code
1-14	Encourage continued operation of private storm water runoff control structures	drainage stream, not specific	0	
1-15	Discourage feeding of waterfowl	not an issue	0	Suggest proactive signage/practices
1-16	Discourage the introduction of exotic aquatic species (Eurasian water milfoil, zebra mussels, water chestnut, etc	P: County; Lake Erie Management Commission, Chautauqua Management Commission	2	
1-17	Encourage continued (periodic) operation and maintenance of private septic disposal systems	R: § 132 - 22: Inspection of private septic systems completed by the Superintendent, but is not a scheduled on-going process. § 132-23: Septage removal	1	
1-18	Effective and consistent application and enforcement of stormwater regulations & requirements	R: § 132-16: Prohibits the the connection of private sewage into stormwater drain. DEC Regs.	2	suggest information
1-19	Require certification of existing on site septic systems for property transfers or building expansions.	R: § 132-18,19, & 20: Certification of existing on site septic systems are required and are subject to the inspection of the superintendent. Regulated by Chatauqua County DOH	2	
1-20	Require entire property (existing as well as proposed) to be included in stormwater analysis/calculation.	No. P: follow SEQR	1	suggest specifying since otherwise developer may use only disturbed area or only impervious surfaces
<i>1-b: New Development and Substantial Redevelopment</i>				
1-21	Minimize the amount of land disturbed and the duration of disturbance	P:	1	

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1-22	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	R: 132-32(B) retain trees (listed in sewer pipe installation regulation); §151-13(g) redrawing of lines due to natural features; §151-13B(3) easement for natural drainage channel, stream.	2	suggest use similar language throughout code
1-23	Retain and protect trees and other natural vegetation on and near disturbed sites	R: 151-13B(5)(c); §132-32(B) sewer pipe installation; §151-13B(4)(b)	2	
1-24	Account for topography and soil type in efforts to minimize erosion potential	R: 151-13B(5)(d); Preserved if possible. Issue along the bluff; coastal management	0	suggest: add language explicitly addressing soil types and typography (not just interesting rock outcroppings)
1-25	Maintain runoff rates similar to pre-construction levels	P: not explicit	0	suggest: make explicit; consider collective/compuonding development impact
1-26	Minimize the creation of impervious areas	P: gravel	1	
1-27	Control increased runoff caused by changed surface conditions to minimize the danger of flooding, erosion, sedimentation and pollutants entering waterbodies prior to, during and after construction	R: §132-32E: Erosion control during sewer pipe instalation. Use throughout. Condition on permits -> practice. Stricter requirments in coastal areas.	1	suggestion: use language throughout
1-28	Use temporary vegetation and mulching to protect exposed and critical areas during development	P: Condition on permits, with stricter requirements in coastal areas	2	suggestion: include language regarding protecting exposed and critical areas during development
1-29	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	§151-13(B)(5)(a)	2	
1-30	Stabilize disturbed soils as soon as possible	§151-13B(5)(f): surfaces shall be restored within six months of the time of the completion to the pertinent section of the subdivision.	1	suggest use this language throughout
1-31	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff	P: used for safety to prevent erosion.	1	suggest use this language throughout

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1-32	Use appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	R: §132-32B-Debris hauled not burned; §143 - Solid waste recycling mandatory. Collection station transfer for glass, cardboard, plastic, tins	2
1-33	Encourage construction site management techniques which include the proper handling and disposal of pesticides and petroleum products and containers	L: DEC	2
1-34	Ensure proper operation and maintenance of runoff management facilities	R: §151-13(B)(3)- Maintenance easement for natural drainage way. Ditch Program; Hydroseeding from Chautauqua County	2
1-35	Target training for contractors, inspectors and zoning and planning officials.	P: DOS, Southern Tier West; new code training for employees	2
1-36	Require tree surveys and/or cutting plans.	§151-16A(5): Trees over 8" diameter	2
1-37	Develop priority list for BMP's - use of vegetative low areas for retention/infiltration.	not explicit	0
1-38	Encourage cluster development.	§ 151-10: the Planning Board may approve a cluster development simultaneously with the approval of a plat or plats. (the subdivider shall (in addition to any sketch plan submitted for a regular subdivision) submit a sketch plan for a cluster development, which shall include the information required in § 151-16 but otherwise comply with the design standards for cluster developments found in § 151-13C. After review of the sketch plan, the Planning Board may require the subdivider to pursue a cluster development if, in the Board's judgment, such a development would be in the public interest as compared to a regular subdivision.)	2
1-39	Require connection to and/or extension of existing water & sewer if project is within 500 feet of existing infrastructure	R: §132-11- Connection required within 100' of property line;	2
1-40	Enact limits on driveway grades.	L: NYS DOT	1

requires survey but no cutting plan

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Chautauqua County, New York

1-41	For redevelopment, employ regulations that provide for technologically advanced (on and off) site wastewater treatment systems to optimize efficiencies and address "challenging" sites	R: CCDOT	2
1-42	Implement Federal/State Stormwater (SPDES) Phase II requirements	P:	1
Final Score: 52 out of 82 Total Possible Points			52
Number of BMPs addressed (either fully or partially): 32 out of 41 BMPs (78%)			32

recommended but not actually required?

2: Forestry and Agriculture

2-a: Forestry

2-01	Consider potential water quality impacts when selecting silviculture system (yarding system, site preparation, pesticides employment, etc)	P:	1
2-02	Consider harvesting practices	P:	1
2-03	Seasonal preference for logging operations	P:	1
2-04	Have specialists (geologist, soil scientist, geotechnical engineer, wildland hydrologist) review plans in high erosion hazard areas	P:	1
2-05	Preplan harvest areas, skid trails, and access so as to be on stable soils, avoiding steep gradients, multiple stream crossings, poor drainage areas, etc.	P:	1
2-06	Limit grades of access roads.	R: § 148-6G: Roadway grade less than or equal to 10%	1
2-07	Require stabilization of roads/drives to forestry site.	P:	1
2-08	Employ natural topography and contour for design of road network	P:	1
2-09	Require stormwater controls for increased runoff from ground cover modification	P:	1
2-10	Consider site restoration	P:	1

While this may be put into practice, it may be beneficial for long term success to require these

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<i>2-b: Agriculture</i>			
2-11	Use Agricultural Environmental Management (AEM)	Not required	0
2-12	Require farms seeking agricultural value assessment to participate in AEM		0
Final Score: 10 out of 24 Total Possible Points			10
Number of BMPs addressed (either fully or partially): 10 out of 12 BMPs (83%)			10

3: Waterways and Wetlands			
<i>3-a: Modified Waterways</i>			
3-01	Develop an operation and maintenance program for existing modified streams that includes identification of opportunities and actions to restore habitat and the physical and chemical characteristics of these streams.	P: Work with Soil & Water Conservation district and USACOE on Fish ladder and stabilized stream bank maintenance.	1
3-02	Improve stream quality by controlling instream sedimentation and selectively clearing debris	P: Selectively clear debris	1
3-03	Establish or reestablish riparian buffers	§151-13B(3) maintenance easement state buffers / DEC along Chautauqua Creek.	2
3-04	Prevent animal wastes from entering waterbodies	§132-7 & §56-5(c)	2
3-05	Attempt vegetative stabilization before undertaking structural measures	no	0
3-06	Design and construct shore erosion control facilities, in accordance with an erosion and sedimentation control plan, in areas where marsh creation and soil bioengineering are ineffective or where existing protection methods are being flanked or are falling	P; Work with Soil & Water Conservation District.	1
3-07	Schedule the periodic maintenance of sediment control measures, and inspect and repair them as needed in conformance with established schedule.	no	0

responsibility of the flood
admin

**Town of Westfield
Chautauqua County, New York**

3-08	Protect streambanks through direct nonstructural means, such as new vegetation or protection of existing vegetation; direct structural means, such as revetments and bulkheads; indirect nonstructural means, such as regulating irrigation near streambanks	no	0
3-09	Use setbacks to minimize disturbance of land adjacent to streambanks and shorelines	Comp. Plan Chapter 4.4 section 2: State regulations require a 100ft setback be maintained to protect areas from adverse impacts of development. Some grandfathered locations	2
3-10	Prevent discharges to waterbodies in amounts that would adversely affect the taste, color or odor of the waters, or would impair the waters for their best usages	R: § 132-8. P: from comp town and village purchases land to protect.	2
<i>3-b: Wetlands and Riparian Area Management and Restoration</i>			
3-11	Consider wetlands and riparian areas and their non-point source (nps) control potential on a watershed scale	Required federal conservation easements to protect.	1
3-12	Identify existing functions of those wetland and riparian areas with significant nps control potential when implementing nps management practices. Do not alter wetlands or riparian areas to improve their water quality at the expense of their other functions		0
3-13	Conduct permitting, licensing, certification and nonregulatory nps pollution activities in a manner that protects wetland functions	practice as needed	0
3-14	Special zoning considerations to protect wetland areas	Chautauqua Greenway Plan Chapter 3, Fig. 27, CNR-4 Emphasize the use of conservation easements to landowners.	0

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3-15	Use appropriate pretreatment practices such as vegetated systems or detention or retention basins to prevent adverse impacts to wetland functions that affect nps pollution abatement from hydrologic changes, sedimentation, or contaminants		0	recommend regulated setbacks and vegetated buffers, especially near solar arrays and creeks.
3-16	All projects should require wetlands certification.	No (only larger projects, and wind turbines)	0	
Final Score: 12 out of 32 Total Possible Points			12	
Number of BMPs addressed (either fully or partially): 8 out of 16 BMPs (50%)			8	

4: Marinas

4-a: Existing Marinas -Privately owned, but Town has beach and pier

4-01	Clean maintenance areas regularly preferably by vacuuming to remove trash, sandings, paint chips, etc.	P: Beach cleaned with machine, and not with a vaccum.	1	
4-02	Prevent residue from being carried into surface waters by performing abrasive blasting within plastic tarp enclosures on windless days or within spray booths	N/A		
4-03	Provide proper disposal/recycling facilities to marina patrons, preferably covered receptacles	P: Town provides receptacles in Town-operated areas.	2	
4-04	Establish fish cleaning areas, and implement rules governing the conduct of fish cleaning operations	§ 121-6: specifies no fish parts to be disposed	1	recommend addition of fish cleaning facilities
4-05	Educate boaters on the importance of proper fish cleaning practices		0	recommend education as well
4-06	Implement fish composting where appropriate		0	consider
4-07	Store materials in areas impervious to the type of material stored. Build curbs, berms, or other barriers around the areas to contain spills	N/A		

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4-08	Use separate, clearly labeled containers for the disposal of oil, gasoline, antifreeze, diesel, kerosene, and mineral spirits	N/A	
4-09	Target outreach programs about proper disposal at marina patrons through the use of signs, mailings, and other means	Signage regarding pet wastes at beach and parking	1
4-10	Promote the use in bilges of oil-absorbing materials, and replace them as necessary, preferably recycling, or disposing of them in accordance with petroleum disposal regulation	N/A	
4-11	Use a container under the air vent while refueling inboard tanks if the tank vents are not equipped with a fuel/air separator	N/A	
4-12	Prohibit in-water hull scraping or any underwater process to remove paint from boat hulls	N/A	
4-13	Wash the boat hull above the waterline by hand, using only necessary amounts of detergents and cleaning compounds that are phosphate-free and biodegradable	N/A	
4-14	Prohibit the use of detergents and cleaning compounds containing ammonia, sodium hypochloride, chlorinated solvents, petroleum distillates, alcohol, or lye	N/A	
4-15	Educate individuals about the importance of trash reduction and recycling through: interpretive and instructional signs placed at marinas and boat-launching sites, pamphlets or flyers, newsletters, inserts in billings, meetings and presentations, workshop	Signage regarding pet wastes and invasive species at beach and parking	1

**Town of Westfield
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4-16	Inspect pumpout facilities regularly, and repair them, if practical, under a maintenance contract with a competent contractor	N/A	
4-17	Add language to slip lease agreements mandating the use of pumpout facilities and specifying penalties for failure to comply	N/A	
4-18	Place dye tablets in holding tanks to identify and discourage illegal disposal	N/A	
4-19	Prohibit motorized vessels from areas (define areas) that contain important shallow-water habitats	entire area too shallow already for motor vehicles, but not prohibited.	0
4-20	Establish and enforce no-wake zones to decrease turbidity and reduce erosion potential from boat wakes	P: Low speed limit	1
<i>4-b: New Marinas</i>			
4-21	Design and site marinas to maximize exchange of marina basin water. Limit basins and channels with square corners that tend to trap flotsam, and place dock structures in a manner that promotes circulation	N/A	
4-22	Perform a preconstruction assessment, which includes a water quality monitoring and modeling methodology, to predict post-construction water quality conditions	N/A	
4-23	Monitor water quality during construction to protect ambient water quality to the maximum practicable extent	N/A	
4-24	Develop a marina siting policy to discourage development in areas containing important habitat designated by local, State, or federal agencies	N/A	

POSTED?

**Town of Westfield
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4-25	Conduct surveys and employ rapid bioassessment techniques to assess historic habitat function (e.g. spawning, nursery, and migration pathways) and potential impacts to these and other biological functions and resources	N/A	
4-26	Encourage the redevelopment or expansion of existing marina facilities that have demonstrated minimal environmental impacts instead of developing new marina facilities	N/A	
4-27	Consider alternative sites with minimal potential environmental impacts when the use of previously disturbed sites is not feasible	N/A	
4-28	Minimize disturbance of indigenous vegetation in the riparian area	N/A	
4-29	Use soil bioengineering or plants, wherever conditions allow, to restore damaged habitat along shorelines and streambanks	N/A	
4-30	Use properly designed and constructed engineering practices that minimize shoreline disturbance in areas where soil bioengineering and plants are ineffective	N/A	
4-31	Use appropriate shore erosion control methods, such as returns or return walls, in areas where existing protection methods are being flanked or are falling	N/A	
4-32	Plan and design all steambank, shoreline, and navigation structures so that they do not transfer erosion energy to or otherwise cause visible loss of surrounding streambanks or shorelines	N/A	

**Town of Westfield
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4-33	Locate and design fuel stations so that spills can be contained in a limited area	N/A	
4-34	Design and install underground fuel storage tanks according to State regulations, including the provision of detection systems and automatic fuel tank and pump leak shut-offs	N/A	
4-35	Provide aboveground fuel tanks and fueling areas with a curbed or diked storage area to handle containment volumes meeting State (and local) codes and inspect regularly	N/A	
4-36	Use preferred pumpout systems: fixed-point, portable, dedicated slipside, and pumpout boats	N/A	
4-37	Design onsite wastewater treatment systems to specifically handle waste from vessels	N/A	
4-38	Post pumpout facility location and regulations at the marina. Charge fees that encourage rather than discourage facility use. Consider offsetting the cost of maintaining pumpout facilities by fuel sales where these facilities are conveniently located in	N/A	
<i>4-c: Marinas, Existing and New</i>			
4-39	Restrict boat repair and maintenance activities to clearly marked designated areas to prevent debris from falling into the water and preventing invasive species	N/A	
4-40	Secure all fueling facilities and storage areas with appropriate shut-off devices and security locks and inspect regularly	N/A. No fueling.	

Recommend standards and signage

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4-41	Design fueling stations with spill containment equipment that is stored in a clearly marked location, accessible to work and storage areas. Post emergency phone numbers in a prominent location	N/A. No fueling.		
4-42	Design a spill contingency plan	Do not have one	0	recommend that private marina have one in place as well.
4-43	Inspect and maintain all containment berms or devices in accordance with State regulations. Investigate immediately signs of leakage or spillage, and undertake cleanup in accordance with applicable best management practices	N/A. No containment berms or devices		? Recommend?
4-44	Have a trained operator present and prepared to respond to accidental spills	Harbormaster	1	
4-45	Maintain daily inventory records to identify abnormal loss or gain of liquid	N/A. No fuel storage		
4-46	Prohibit the cleaning of hoses, fittings, pumps, and other accessory equipment on piers, docks or adjacent upland to prevent runoff into the marina basin or other surface or groundwater	doesn't happen	0	Recommend standards and signage
4-47	Create and/or maintain a dedicated fund for maintenance in the case of government-owned facilities	P: Harbor and Pier maintenance fund	2	
4-48	Restrict the operation of pumpout facilities to trained marina personnel only	N/A. No pumping facilities		
Final Score: 10 out of 26 Total Possible Points			10	
Number of BMPs addressed (either fully or partially): 8 out of 13 BMPs (62%)			8	

5: Roads and Bridges

5-a: New Roads and Bridges

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5-01	Conduct road and bridge maintenance (de-icing material usage and storage, pothole repair, bridge washing, scraping and painting, etc) according to best management practices	P:	2
5-02	Conduct right-of-way activities (mowing, brush removal, pesticide and fertilizer use, etc) - according to best management practices	P: Yearly / Monthly	2
5-03	Include high percentage of indigenous plants in new landscaping on public-owned properties (excluding arboretums, horticultural gardens, and site requiring turf grasses)	P: Planning Board considers	1
5-04	Implement a regular inspection and maintenance plan of existing structures	P: Board Approved	2
5-05	Develop and identify erosion/sediment control areas (examples include steep slopes, easily erodible soils, and nearby sensitive areas) and retrofit opportunities	P: working to identify and eliminate danger areas as part of the Hazard Mitigation Plan.	2
5-06	Require percentage of roads to be tested with non-salt and non-sand de-icing.	P: Minimize salt use. Combination 7:1 Salt & Sand. Need to combat public fear of beet juice or other alternatives.	1
5-b: Existing Roads and Bridges			
5-07	Minimize the amount of land disturbed and the duration of disturbance	P: Only maintain existing blacktop	2
5-08	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	P: No widening of roads	2
5-09	Retain and protect trees and other natural vegetation on and near disturbed sites	P: Only remove dead trees	2
5-10	Retain additional runoff sites	P: ditches	2

add to code. Recommend planting native plants along harbor improvements.

have wording added to standards

**Town of Westfield
Chautauqua County, New York**

5-11	Minimize the creation of impervious areas	P: Need written policy	1
5-12	Treat increased runoff caused by changed surface conditions to minimize the danger of flooding, erosion and pollutants entering waterbodies prior to, during and after construction	P: only ditches. No additional green infrastructure	0
5-13	Use temporary vegetation and mulching to protect exposed and critical areas during development	P: hydroseeding	2
5-14	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	P:	2
5-15	Stabilize disturbed soils as soon as possible	P:	2
5-16	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff	P: already minimized	2
5-17	Control erosion and sedimentation prior to, during and after site preparation and construction	P:	2
5-18	Require long term stormwater management plan.	No plan	0
5-19	Require long term sedimentation control & maintenance.	P: Yes. Ditches are stepped to slow water and are maintained.	2
<i>5-c: Existing and New Roads and Bridges</i>			
5-20	Target existing public holdings, such as parks, for removing unnecessary impervious surfaces	P: Harbor Parking most recent example	2

INCLUDE FOR FUTURE

**Town of Westfield
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5-21	Incorporate New York State Department of Transportation design and guidance documents, standard specifications, and procedural manuals (Highway Design Manual, Environmental Procedures Manual, Maintenance Guidelines, etc) into local laws and operating proc	§148: AASHTO standards included	2
5-22	Ensure application of appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	P: Salt building, oil separator	2
5-23	Ensure proper operation and maintenance of runoff management facilities	§148-6	2
5-24	Participate in Cornell Local Roads Program activities and training	P: Yes	2
5-25	Target training programs at highway officials, contractors, construction workers, inspectors, zoning and planning officials	P: Yes for employees	2
5-26	Target training and outreach programs about the proper handling of materials, leakage and spill prevention and spill response procedures at maintenance staff and workers	P: Yes	2
Final Score: 45 out of 52 Total Possible Points			45
Number of BMPs addressed (either fully or partially): 24 out of 26 BMPs (92%)			24
6: Onsite Wastewater Treatment Systems			
6-01	Conduct regular inspections of OWTS at a frequency adequate to determine failure and undertake required maintenance	§132-23 & CCDOH	2
6-02	Institute setback guidelines	P: & R: CCDOH	2

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6-03	Promulgate plumbing codes that require practices that are compatible with OWTS	L: NYS Building Code	2
6-04	Target outreach programs at homeowners, contractors and developers	P: Chautauqua County DOH conduct outreach to homewoners along Lake Erie shoreline	2
6-05	Inspection of all OWTS at property transfer or within 1 year prior to transfer	R: CCDOH	2
6-06	Require all properties within 500' of municipal service to connect.	§151-10D	2
6-07	Set goals for effluent limits (nitrogen, phosphorous, BOD, etc)	R: CCDOH	2
Final Score: 14 out of 14 Total Possible Points			14
Number of BMPs addressed (either fully or partially): 7 out of 7 BMPs (100%)			7
Overall Assessment Score: 143 out of 230 Total Possible Points			143
Number of BMPs addressed (either fully or partially): 89 out of 115 BMPs (77%)			89

**Town of Yorkshire
Cattaraugus County, New York**

BMP			Degree of Implementation
§ - #	Best Management Practices (BMP)	Existing Means of Implementation (law, regulation, practice, etc)	(2-fully, 1-partially, 0-not at all, n/a-not applicable)
1: Development			
<i>1-a: Existing Development</i>			
1-01	Identify retrofit opportunities		
1-02	Identify habitat and natural conveyance system restoration opportunities		
1-03	Establish retention/detention areas		
1-04	Acquire additional land for locating treatment facilities		
1-05	Encourage homeowners to place compost piles away from water bodies and roadways	Zoning Law: animals in hamlet: Manure, hay or other products can not be stored closer than 75 feet from any adjacent property line. Manure piles must be completely disposed of each spring by April 15th.	1
1-06	Encourage proper use and disposal of lawn and other household chemicals	§3-5(C) : Solid Waste Law; Hazardous Waste Prohibition Law §3: Minor quantities of five (5) pounds or less of hazardous wastes resulting from local agricultural, commercial or residential sources are excluded from this Law, provided these wastes are managed in an environmentally safe manner, consistent with Federal and state Regulations dealing with hazardous wastes.	2
1-07	Institute turf management practices on golf courses and parks and recreation areas		
1-08	Undertake storm drain stenciling		
1-09	Encourage volunteer programs, such as adopt-a-highways and adopt-a-stream, etc.		
1-10	Include high percentage of indigenous plants in new landscaping on privately-owned properties (excluding arboretums, horticultural gardens, and sites requiring turf grasses)		
1-11	Encourage water conservation		
1-12	Develop outreach programs targeted at specific problems related to water quality management & resource conservation		

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1-13	Encourage proper control of pet wastes	§ 77-10 (C)	2
1-14	Encourage continued operation of private storm water runoff control structures		
1-15	Discourage feeding of waterfowl		
1-16	Discourage the introduction of exotic aquatic species (Eurasian water milfoil, zebra mussels, water chestnut, etc		
1-17	Encourage continued (periodic) operation and maintenance of private septic disposal systems		
1-18	Effective and consistent application and enforcement of stormwater regulations & requirements		
1-19	Require certification of existing on site septic systems for property transfers or building expansions.		
1-20	Require entire property (existing as well as proposed) to be included in stormwater analysis/calculation.		
<i>1-b: New Development and Substantial Redevelopment</i>			
1-21	Minimize the amount of land disturbed and the duration of disturbance		
1-22	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	Subdivision Law: 3.1A(1)Land subject to flooding cannot be platted for subdivision. Zoning Law-Site Plan review: Compatibility of the proposed development with the natural features of the site.	2
1-23	Retain and protect trees and other natural vegetation on and near disturbed sites	MPD: utilize topography and site features to best advantage, protects resident uses, inhabitants, employees and adjacent properties from the harmful effects of its own land use operations, and encourages the maintenance of high environmental quality throughout the MPD District. (a) - Area may be reduced by 25% if a public water supply is available and by 50% if both a public water supply and a public sewage disposal system are available.	2
1-24	Account for topography and soil type in efforts to minimize erosion potential		

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1-25	Maintain runoff rates similar to pre-construction levels	Zoning Law-Stormwater Management Erosion Control: The design shall assure that the runoff after development does not exceed that existing at the time of plan submission.	2
1-26	Minimize the creation of impervious areas		
1-27	Control increased runoff caused by changed surface conditions to minimize the danger of flooding, erosion, sedimentation and pollutants entering waterbodies prior to, during and after construction		
1-28	Use temporary vegetation and mulching to protect exposed and critical areas during development		
1-29	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting		
1-30	Stabilize disturbed soils as soon as possible	Zoning Law-Stormwater Management Erosion Control:	1
1-31	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff		
1-32	Use appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	Solid Waste Law. Hazardous Waste Law: No person shall construct, operate and/or establish a facility for the internment, storage, temporary storage, recycling and/or processing of hazardous waste within the Town of Yorkshire.	1
1-33	Encourage construction site management techniques which include the proper handling and disposal of pesticides and petroleum products and containers		
1-34	Ensure proper operation and maintenance of runoff management facilities		

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1-35	Target training for contractors, inspectors and zoning and planning officials.		
1-36	Require tree surveys and/or cutting plans.		
1-37	Develop priority list for BMP's - use of vegetative low areas for retention/infiltration.		
1-38	Encourage cluster development.	Zoning Law : Master Planned District	2
1-39	Require connection to and/or extension of existing water & sewer if project is within 500 feet of existing infrastructure		
1-40	Enact limits on driveway grades.	Subdivision Law: 3.1A(10) 13%	2
1-41	For redevelopment, employ regulations that provide for technologically advanced (on and off) site wastewater treatment systems to optimize efficiencies and address "challenging" sites		
1-42	Implement Federal/State Stormwater (SPDES) Phase II requirements		
Final Score: 17 out of 82 Total Possible Points			17
Number of BMPs addressed (either fully or partially): 10 out of 41 BMPs (24%)			10

2: Forestry and Agriculture

2-a: Forestry

2-01	Consider potential water quality impacts when selecting silviculture system (yarding system, site preparation, pesticides employment, etc)		
2-02	Consider harvesting practices		
2-03	Seasonal preference for logging operations		
2-04	Have specialists (geologist, soil scientist, geotechnical engineer, wildland hydrologist) review plans in high erosion hazard areas		

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2-05	Preplan harvest areas, skid trails, and access so as to be on stable soils, avoiding steep gradients, multiple stream crossings, poor drainage areas, etc.		
2-06	Limit grades of access roads.		
2-07	Require stabilization of roads/drives to forestry site.		
2-08	Employ natural topography and contour for design of road network		
2-09	Require stormwater controls for increased runoff from ground cover modification		
2-10	Consider site restoration		
<i>2-b: Agriculture</i>			
2-11	Use Agricultural Environmental Management (AEM)		
2-12	Require farms seeking agricultural value assessment to participate in AEM		
Final Score: 0 out of 24 Total Possible Points			0
Number of BMPs addressed (either fully or partially): 0 out of 12 BMPs (0%)			0

3: Waterways and Wetlands

3-a: Modified Waterways

3-01	Develop an operation and maintenance program for existing modified streams that includes identification of opportunities and actions to restore habitat and the physical and chemical characteristics of these streams.		
3-02	Improve stream quality by controlling instream sedimentation and selectively clearing debris	Flood Damage Prevention Law-4.3-4(2): Require that maintenance is provided within the altered or relocated portion of said watercourse so that the flood carrying capacity is not diminished	2
3-03	Establish or reestablish riparian buffers		

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3-04	Prevent animal wastes from entering waterbodies		
3-05	Attempt vegetative stablization before undertaking structural measures		
3-06	Design and construct shore erosion control facilities, in accordance with an erosion and sedimentation control plan, in areas where marsh creation and soil bioengineering are ineffective or where existing protection methods are being flanked or are falling		
3-07	Schedule the periodic maintenance of sediment control measures, and inspect and repair them as needed in conformance with established schedule.		
3-08	Protect streambanks through direct nonstructural means, such as new vegetation or protection of existing vegetation; direct structural means, such as revetments and bulkheads; indirect nonstructural means, such as regulating irrigation near streambanks		
3-09	Use setbacks to minimize disturbance of land adjacent to streambanks and shorelines		
3-10	Prevent discharges to waterbodies in amounts that would adversely affect the taste, color or odor of the waters, or would impair the waters for their best usages	Solid Waste Law (not specific)	1
<i>3-b: Wetlands and Riparian Area Management and Restoration</i>			
3-11	Consider wetlands and riparian areas and their non-point source (nps) control potential on a watershed scale		

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3-12	Identify existing functions of those wetland and riparian areas with significant nps control potential when implementing nps management practices. Do not alter wetlands or riparian areas to improve their water quality at the expense of their other functions		
3-13	Conduct permitting, licensing, certification and nonregulatory nps pollution activities in a manner that protects wetland functions		
3-14	Special zoning considerations to protect wetland areas		
3-15	Use appropriate pretreatment practices such as vegetated systems or detention or retention basins to prevent adverse impacts to wetland functions that affect nps pollution abatement from hydrologic changes, sedimentation, or contaminants		
3-16	All projects should require wetlands certification.		
Final Score: 3 out of 32 Total Possible Points			3
Number of BMPs addressed (either fully or partially): 2 out of 16 BMPs (12.5%)			2

4: Marinas

4-a: Existing Marinas -Privately owned, but Town has beach and pier

4-01	Clean maintenance areas regularly preferably by vacuuming to remove trash, sandings, paint chips, etc.	N/A	
4-02	Prevent residue from being carried into surface waters by performing abrasive blasting within plastic tarp enclosures on windless days or within spray booths	N/A	
4-03	Provide proper disposal/recycling facilities to marina patrons, preferably covered receptacles	N/A	

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4-04	Establish fish cleaning areas, and implement rules governing the conduct of fish cleaning operations	N/A	
4-05	Educate boaters on the importance of proper fish cleaning practices	N/A	
4-06	Implement fish composting where appropriate	N/A	
4-07	Store materials in areas impervious to the type of material stored. Build curbs, berms, or other barriers around the areas to contain spills	N/A	
4-08	Use separate, clearly labeled containers for the disposal of oil, gasoline, antifreeze, diesel, kerosene, and mineral spirits	N/A	
4-09	Target outreach programs about proper disposal at marina patrons through the use of signs, mailings, and other means	N/A	
4-10	Promote the use in bilges of oil-absorbing materials, and replace them as necessary, preferably recycling, or disposing of them in accordance with petroleum disposal regulation	N/A	
4-11	Use a container under the air vent while refueling inboard tanks if the tank vents are not equipped with a fuel/air separator	N/A	
4-12	Prohibit in-water hull scraping or any underwater process to remove paint from boat hulls	N/A	
4-13	Wash the boat hull above the waterline by hand, using only necessary amounts of detergents and cleaning compounds that are phosphate-free and biodegradable	N/A	

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4-14	Prohibit the use of detergents and cleaning compounds containing ammonia, sodium hypochloride, chlorinated solvents, petroleum distillates, alcohol, or lye	N/A	
4-15	Educate individuals about the importance of trash reduction and recycling through: interpretive and instructional signs placed at marinas and boat-launching sites, pamphlets or flyers, newsletters, inserts in billings, meetings and presentations, workshop	N/A	
4-16	Inspect pumpout facilities regularly, and repair them, if practical, under a maintenance contract with a competent contractor	N/A	
4-17	Add language to slip lease agreements mandating the use of pumpout facilities and specifying penalties for failure to comply	N/A	
4-18	Place dye tablets in holding tanks to identify and discourage illegal disposal	N/A	
4-19	Prohibit motorized vessels from areas (define areas) that contain important shallow-water habitats	N/A	
4-20	Establish and enforce no-wake zones to decrease turbidity and reduce erosion potential from boat wakes	N/A	
4-b: New Marinas			
4-21	Design and site marinas to maximize exchange of marina basin water. Limit basins and channels with square corners that tend to trap flotsam, and place dock structures in a manner that promotes circulation	N/A	

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4-22	Perform a preconstruction assessment, which includes a water quality monitoring and modeling methodology, to predict post-construction water quality conditions	N/A	
4-23	Monitor water quality during construction to protect ambient water quality to the maximum practicable extent	N/A	
4-24	Develop a marina siting policy to discourage development in areas containing important habitat designated by local, State, or federal agencies	N/A	
4-25	Conduct surveys and employ rapid bioassessment techniques to assess historic habitat function (e.g. spawning, nursery, and migration pathways) and potential impacts to these and other biological functions and resources	N/A	
4-26	Encourage the redevelopment or expansion of existing marina facilities that have demonstrated minimal environmental impacts instead of developing new marina facilities	N/A	
4-27	Consider alternative sites with minimal potential environmental impacts when the use of previously disturbed sites is not feasible	N/A	
4-28	Minimize disturbance of indigenous vegetation in the riparian area	N/A	
4-29	Use soil bioengineering or plants, wherever conditions allow, to restore damaged habitat along shorelines and streambanks	N/A	

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4-30	Use properly designed and constructed engineering practices that minimize shoreline disturbance in areas where soil bioengineering and plants are ineffective	N/A	
4-31	Use appropriate shore erosion control methods, such as returns or return walls, in areas where existing protection methods are being flanked or are falling	N/A	
4-32	Plan and design all steambank, shoreline, and navigation structures so that they do not transfer erosion energy to or otherwise cause visible loss of surrounding streambanks or shorelines	N/A	
4-33	Locate and design fuel stations so that spills can be contained in a limited area	N/A	
4-34	Design and install underground fuel storage tanks according to State regulations, including the provision of detection systems and automatic fuel tank and pump leak shut-offs	N/A	
4-35	Provide aboveground fuel tanks and fueling areas with a curbed or diked storage area to handle containment volumes meeting State (and local) codes and inspect regularly	N/A	
4-36	Use preferred pumpout systems: fixed-point, portable, dedicated slipside, and pumpout boats	N/A	
4-37	Design onsite wastewater treatment systems to specifically handle waste from vessels	N/A	

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4-38	Post pumpout facility location and regulations at the marina. Charge fees that encourage rather than discourage facility use. Consider offsetting the cost of maintaining pumpout facilities by fuel sales where these facilities are conveniently located in	N/A	
<i>4-c: Marinas, Existing and New</i>			
4-39	Restrict boat repair and maintenance activities to clearly marked designated areas to prevent debris from falling into the water and preventing invasive species	N/A	
4-40	Secure all fueling facilities and storage areas with appropriate shut-off devices and security locks and inspect regularly	N/A	
4-41	Design fueling stations with spill containment equipment that is stored in a clearly marked location, accessible to work and storage areas. Post emergency phone numbers in a prominent location	N/A	
4-42	Design a spill contingency plan	N/A	
4-43	Inspect and maintain all containment berms or devices in accordance with State regulations. Investigate immediately signs of leakage or spillage, and undertake cleanup in accordance with applicable best management practices	N/A	
4-44	Have a trained operator present and prepared to respond to accidental spills	N/A	
4-45	Maintain daily inventory records to identify abnormal loss or gain of liquid	N/A	

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4-46	Prohibit the cleaning of hoses, fittings, pumps, and other accessory equipment on piers, docks or adjacent upland to prevent runoff into the marina basin or other surface or groundwater	N/A	
4-47	Create and/or maintain a dedicated fund for maintenance in the case of government-owned facilities	N/A	
4-48	Restrict the operation of pumpout facilities to trained marina personnel only	N/A	
Final Score: 0 out of 0 Total Possible Points			0
Number of BMPs addressed (either fully or partially): 0 out of 0 BMPs (0%)			0

5: Roads and Bridges

5-a: New Roads and Bridges

5-01	Conduct road and bridge maintenance (de-icing material usage and storage, pothole repair, bridge washing, scraping and painting, etc) according to best management practices		
5-02	Conduct right-of-way activities (mowing, brush removal, pesticide and fertilizer use, etc) - according to best management practices		
5-03	Include high percentage of indigenous plants in new landscaping on public-owned properties (excluding arboretums, horticultural gardens, and site requiring turf grasses)		
5-04	Implement a regular inspection and maintenance plan of existing structures		
5-05	Develop and identify erosion/sediment control areas (examples include steep slopes, easily erodible soils, and nearby sensitive areas) and retrofit opportunities		

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5-06	Require percentage of roads to be tested with non-salt and non-sand de-icing.		
<i>5-b: Existing Roads and Bridges</i>			
5-07	Minimize the amount of land disturbed and the duration of disturbance		
5-08	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies		
5-09	Retain and protect trees and other natural vegetation on and near disturbed sites		
5-10	Retain additional runoff sites		
5-11	Minimize the creation of impervious areas		
5-12	Treat increased runoff caused by changed surface conditions to minimize the danger of flooding, erosion and pollutants entering waterbodies prior to, during and after construction		
5-13	Use temporary vegetation and mulching to protect exposed and critical areas during development		
5-14	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting		
5-15	Stabilize disturbed soils as soon as possible		
5-16	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff		
5-17	Control erosion and sedimentation prior to, during and after site preparation and construction		

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5-18	Require long term stormwater management plan.		
5-19	Require long term sedimentation control & maintenance.		
<i>5-c: Existing and New Roads and Bridges</i>			
5-20	Target existing public holdings, such as parks, for removing unnecessary impervious surfaces		
5-21	Incorporate New York State Department of Transportation design and guidance documents, standard specifications, and procedural manuals (Highway Design Manual, Environmental Procedures Manual, Maintenance Guidelines, etc) into local laws and operating proc		
5-22	Ensure application of appropriate solid and hazardous waste generation and disposal practices including source controls and recycling		
5-23	Ensure proper operation and maintenance of runoff management facilities		
5-24	Participate in Cornell Local Roads Program activities and training		
5-25	Target training programs at highway officials, contractors, construction workers, inspectors, zoning and planning officials		
5-26	Target training and outreach programs about the proper handling of materials, leakage and spill prevention and spill response procedures at maintenance staff and workers		
Final Score: 0 out of 52 Total Possible Points			0
Number of BMPs addressed (either fully or partially): 0 out of 26 BMPs (0%)			0

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6: Onsite Wastewater Treatment Systems

6-01	Conduct regular inspections of OWTS at a frequency adequate to determine failure and undertake required maintenance		
6-02	Institute setback guidelines		
6-03	Promulgate plumbing codes that require practices that are compatible with OWTS		
6-04	Target outreach programs at homeowners, contractors and developers		
6-05	Inspection of all OWTS at property transfer or within 1 year prior to transfer		
6-06	Require all properties within 500' of municipal service to connect.	N/A	
6-07	Set goals for effluent limits (nitrogen, phosphorous, BOD, etc)		
Final Score: 0 out of 12 Total Possible Points			0
Number of BMPs addressed (either fully or partially): 0 out of 6 BMPs (0%)			0
Overall Assessment Score: 20 out of 202 Total Possible Points			20
Number of BMPs addressed (either fully or partially): 12 out of 101 BMPs (12%)			12