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Abbreviations

SWG	Tompkins County Stormwater Working Group
CCE	Cornell Cooperative Extension of Tompkins County
Network	Cayuga Lake Watershed Network
SWCD	Tompkins County Soil and Water Conservation District
IO	Cayuga Lake Watershed Intermunicipal Organization
WRC	Tompkins County Water Resources Council
TCP	Tompkins County Planning
TC	Tompkins County

Executive Summary

This Annual Report has been prepared in compliance with the NYS Department of Environmental Conservation (NYSDEC) permitting requirements for small municipal separate storm sewer systems (MS4). The Village of Lansing has been designated a regulated MS4, along with several other Tompkins County municipalities, based on population and residential densities. Under Phase II SPDES (State Pollution Discharge Elimination System) requirements MS4s must apply for a general permit in order to be authorized to discharge stormwater into “waters of the United States”. This permit requires the development, implementation, and enforcement of a stormwater management program designed to reduce the discharge of pollutants from the storm sewer system to the maximum extent practicable over a five year period. The incremental progress toward the goals of the program must be reported to the NYSDEC by June 1st of each year. This document has been prepared to satisfy this requirement.

As mandated, the Village of Lansing submitted a Notice of Intent, including a SPDES permit application and the proposed stormwater management program in March 2003. This stormwater management program was drafted in cooperation with Village staff and the staff from surrounding municipalities.

Over the past year the Village has continued its involvement with several organizations which had several public education programs underway prior to the implementation of the mandated MS4 program, such as the Cayuga Lake Watershed Intermunicipal Organization. A large number of the other required activities were already standard practices for the Village. They include public involvement through subdivision and site plan review, regular spring street cleaning, construction site erosion and sediment control and the installation of stormwater facilities to treat runoff from newly developed areas.

The Village recently became an active member in a new Intermunicipal partnership known as the Stormwater Working Group, which was initiated in Tompkins County to focus specifically on stormwater management issues. In addition to the Village, the SWG is composed of MS4 representatives from Tompkins County, City of Ithaca, Village of Cayuga Heights, the Towns of Lansing, Dryden, Caroline, and Ulysses, and other local groups having an interest in water resource protection including the Soil and Water Conservation District, Cornell Cooperative Extension, Cornell University, and the Watershed Network. The mission of this group is to provide a central resource to help the MS4 communities fulfill the mandated requirements.

The Village will continue to comply with the Phase II SPDES requirements, and will actively insure implementation of the stormwater management plan. This effort will, however, require significant staff time and monetary expenditures, and the strict requirements of this unfunded mandate will impose a burden on the Village's limited resources.

I. MINIMUM MEASURE 1: Public Education and Outreach in Stormwater Impacts

A. Narrative Overview:

The Village of Lansing is a member of several Intermunicipal organizations that have carried out educational and outreach programs related to stormwater issues on behalf of all area residents. The programs listed in part B. have provided a way to raise the level of awareness about stormwater pollution and motivate residents and business owners to change their behavior to avoid polluting our water bodies. These educational and outreach programs will be continued in 2004 in hope of reaching as many residents as possible on a wide variety of stormwater related topics. The ultimate goal is to affect the behavior of area residents and business to reduce the amount of stormwater pollution from entering the streams and lakes.

B. Implementation of Best Management Practices			<u>C. Activities Planned for Upcoming Year</u>
Type in the management practices selected in your NOI and any additional	Any done in the past year?	If YES, describe what measurable goals were achieved and other accomplishments.	Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.

ones that you worked on.			If NO, and the item was checked off on your NOI, describe why the task was not accomplished and, if still a measurable goal, list in column C.	
TECHNIQUES	YES	NO	ACHIEVEMENTS / EXPLANATIONS	PLANS FOR NEXT YEAR AND CHANGES

Only the first and third lines of the table heading are repeated for the remainder of the document to conserve paper.

B. Implementation of Best Management Practices, Public Education and Outreach in Stormwater Impacts				
TECHNIQUES	YES	NO	ACHIEVEMENTS / EXPLANATIONS	PLANS FOR NEXT YEAR AND CHANGES
Plan and conduct an ongoing public education and outreach program (required)	√		<ul style="list-style-type: none"> This broad goal encompasses the specific activities described below. 	<ul style="list-style-type: none"> SWG will coordinate distribution of outreach materials and event notifications to all MS4s.
Classroom education / school programs	√		<ul style="list-style-type: none"> The IO is collaborating with Network and others to continue the Floating Classroom program for Cayuga Lake. 265 young people have been out on the boat for education on water quality issues. SWCD and City of Ithaca used “Enviroscape” models to deliver programs to school classes throughout the county reaching over 500 young people. SWCD sponsors annual Envirothon – a hands-on environmental education contest for high school students. Network sponsored an essay contest for youth: “How the Cayuga Lake Watershed affects my life.” City of Ithaca and SWCD purchased water quality test 	<ul style="list-style-type: none"> With additional funding, the Floating Classroom program will continue development and offer programs for more school groups.

		<p>kits, which have been used by area schools.</p> <ul style="list-style-type: none"> • Tompkins County Environmental Appreciation Days: Network provided lessons on non-point-source pollution and stormwater and SWCD provided lessons on erosion and sediment control. 	
<p>Outreach to commercial entities</p>	<p>√</p>	<ul style="list-style-type: none"> • The Tompkins County All-Hazard Mitigation Plan addresses prevention of hazardous waste spills at commercial sites. • The Intermunicipal Sewer Agreement involved the County Chamber of Commerce in addressing wastewater management issues. • The Cayuga Lake Waterfront Revitalization Plan addresses pollution issues. A draft has been completed. • CCE and Network organized a workshop on “Providing Safe Drinking Water” for businesses and organization that provide well water to customers / public. • SWCD assists agricultural operations with emergency spill plans and environmental management. • CCE sponsored meetings for Turf Industry and Garden Center Managers on Integrated Pest Management; pesticide use reduction and Neighbor Notification Law (40 attendees). • CCE offered Basic Pesticide Training class with a focus on IPM and environmental protection for farmers, 	<ul style="list-style-type: none"> • TC All-Hazard Mitigation Plan will be finalized and implemented. • Workbooks from “Providing Safe Drinking Water” workshop will be distributed.

			landscapers, and municipal workers. 46 attendees.	
Webpage	√		<ul style="list-style-type: none"> • Web site with links to IO, EPA and DEC sites. 	<ul style="list-style-type: none"> • SWG members will coordinate web resources to ensure that visitors to their websites receive good stormwater information.
Printed material	√		<ul style="list-style-type: none"> • Network distributed “Issues in the Cayuga Lake Watershed” • Several regular newsletters, which include stormwater information, produced by: Network, SWCD, and IO. • EPA stormwater materials have been distributed at Water Week and Stormwater Resources Fair (see events). • Publication called “Landscaping for Erosion Control.” 	<ul style="list-style-type: none"> • “Issues in the Cayuga Lake Watershed” is being reprinted for additional distribution. • Network is producing “Living Wisely in Your Watershed.” • A CD-ROM called “Protecting the Cayuga Lake Watershed” will be completed and distributed.
Media campaign	√		<ul style="list-style-type: none"> • IO organized radio public service announcements about watershed issues. • Network had an Op-Ed piece in the Ithaca Journal about Six Mile Creek watershed. 	<ul style="list-style-type: none"> • Pending funding from EPF Assistance to Regulated MS4’s, the SWG has plans for a multi-faceted media campaign, including printed materials, utility bill stuffers, radio spots, news articles, and local television. • CCE has an upcoming piece on Ithaca Journal’s home and garden page. • TC Planning will provide an Op-Ed series about the County Comprehensive Plan, with reference to stormwater issues.
Library of educational materials	√		<ul style="list-style-type: none"> • TCP has a library of stormwater materials. 	<ul style="list-style-type: none"> • SWG will work together to improve accessibility to and awareness of library materials.
Events and programs	√		<ul style="list-style-type: none"> • Network has organized several trainings on LEAPE (Locally led Education and Action for Protecting the 	<ul style="list-style-type: none"> • TCP is conducting multiple community presentations on the County’s Draft Comprehensive Plan and

		<p>Environment) - an educational program for local governments interested in protecting water resources in their communities.</p> <ul style="list-style-type: none"> • Safe Drinking Water Workshop (above). • Stormwater resources fair. • Water Week. • Earth Day. • Homeowner well education programs. • Farm City Day. • Agricultural day at the mall. • TC Health Dept offers Source Water Assessment Program – identifying potential sources of contamination for all drinking water systems. • CCE environmental resources fair. • Lake Fest. • CCE composting program (encourages use of compost in place of commercial fertilizer). • Network hosted a Satellite conference produced by the DEC on stormwater management for MS4’s and contractors. • Sixmile Creek Watershed resident survey – results will be used to further refine outreach. • SWCD tire collection program. 	<p>stormwater information will be included.</p> <ul style="list-style-type: none"> • April 15th workshop on new construction requirements of Phase II for local review boards, engineers, and contractors. • “Creekside plantings” – Network this summer. • “Gardening in the watershed” – future CCE project. • SWCD is developing CEM Program – Community Environmental Management, which will provide municipal officials with worksheets on stormwater, septic systems, etc.
Displays	√	<ul style="list-style-type: none"> • The following organizations have portable displays, which they bring to events: SWCD, Network, TCP, WRC, CCE, IO, City of Ithaca, Fall Creek Watershed Committee, Caroline Watershed Committee, Community Science Institute, Trout 	

			Unlimited.	
Speakers to community groups	√		<ul style="list-style-type: none"> Network provided speakers to Rotary, Kiwanis and Kendall on watershed issues including phosphorus and sediment loading. 	<ul style="list-style-type: none"> This spring, CCE offered classes for Master Gardeners, general public, and Kiwanis Club on alternatives to pesticides and Neighbor Notification Law. 45 attendees.
Other	√		<ul style="list-style-type: none"> Integrated Pest Management Demo Project: Town of Ithaca, City of Ithaca, and Cornell University put together a proposal for a demonstration site for pesticide free plantings. The effort was not funded. 	<ul style="list-style-type: none"> Interest remains to move forward on this effort for the future.

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II. MINIMUM MEASURE 2: Public Involvement/Participation

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A. Narrative Overview:

The Village of Lansing regularly published notices for public hearings in the local newspaper for site plan and subdivision review, as well as with other important actions taken by the Village. The Village board has scheduled a public information meeting for May 17th to provide an opportunity for the public to offer comments and ask questions concerning the stormwater plan and the Annual Report.

The Village as a member of the Stormwater Working Group will continue to seek ways to involve the public or provide opportunities for citizen volunteer programs in the County. The Village will continue involvement with other regulated MS4s and coordinating agencies and organizations to find ways to increase public involvement and participation.

<u>B. Implementation of Best Management Practices, #2 Public Involvement / Participation</u>				
TECHNIQUES	YES	NO	ACHIEVEMENTS / EXPLANATIONS	PLANS FOR NEXT YEAR AND CHANGES
Public notice and access to documents and information (required)	√		Notice was placed in the Ithaca Journal informing the public of the annual report, where it can be reviewed and the date of the public meeting.	
Public presentation and comments received on SWMP and annual report	√		The report will be presented at the May 17 th Village Board meeting and comments incorporated into	

and annual report (required)		the final report.	
Public involvement/ participation program(required)	√	<ul style="list-style-type: none"> • Storm drain stenciling currently reviewing different methods/ costs. Town of Caroline tried it with spray paint. City of Ithaca also did some. Now investigating purchase of plastic labels. • Although most of the following programs are not within the Village, the Village supports the efforts with its membership and agreements. • Volunteer monitoring of Fall Creek, Cayuga Lake, and Taughannock Creek. Supported with funds from the WRC and FL-LOWPA. • Fall Creek Watershed Committee – stream cleanups and creek walks. • Riparian Buffer Restoration: City of Ithaca, Network, and Town of Caroline working on grants to involve public in planting, stream surveys, and monitoring. • Sixmile Creek volunteer monitoring partnership developed between Town of Caroline, Town of Ithaca, City of Ithaca, Town of Dryden, SWCD, CCE, and Community Science Institute. Supported with funds from the WRC and FL-LOWPA. • Volunteers with the IO. • Network has coordinated volunteer planting of 1500 willow whips provided by DEC for stream bank erosion control. 	<ul style="list-style-type: none"> • Purchase and installation of Storm Drain labels • Monitoring and Planting for Buffer Restoration projects. • Existing monitoring efforts will continue. • Sixmile Creek Volunteer monitoring program begins. • Willow whip program will continue.
Contact person identified (required)	√	The Village has identified Ben Curtis, Code Enforcement Officer as the contact person	

III MINIMUM MEASURE 3: Illicit Discharge Detection and Elimination

A. Narrative Overview:

The Village of Lansing did not identify any illicit discharges in 2003. To better monitor and reduce pollutants from entering the storm sewer system the Village will use the outfall mapping that Tompkins County will develop when funded.

Future activities will include developing and enacting an ordinance to prohibit illicit discharges and connections in the Village, develop outreach material for the public and training materials for the staff concerning illicit discharges with the goal of eliminating the illicit discharges to the maximum extent practicable.

<u>B. Implementation of Best Management Practices, # 3 Illicit Discharge Detection and Elimination</u>				
ACTIVITIES	YES	NO	ACHIEVEMENTS / EXPLANATIONS	PLANS FOR NEXT YEAR AND CHANGES
Outfall mapping (required)			<ul style="list-style-type: none"> SWG has developed a protocol and is waiting funding to extend efforts across all MS4s. 	<ul style="list-style-type: none"> Once funding is received, City of Ithaca and Tompkins County GIS programs will assist MS4s with mapping efforts.
Illicit discharges prohibited (required)		√		<ul style="list-style-type: none"> Will be developed in conjunction with the new sedimentation and erosion control ordinance.
Public, employees, businesses informed of hazards from illicit discharges (required)	√		In the course of their regular duties Village employees look for illicit discharges.	<ul style="list-style-type: none"> Public outreach materials will be identified / designed and distributed through our existing communication Network (newsletters, articles, websites, trainings, etc.)
Illicit discharges identified (required)	√		<ul style="list-style-type: none"> Ongoing highway dept. inspections and health dept response to complaints. Investigating flyover of Cayuga Lake as a collaborative effort with company called Landview. The Village has an ongoing aggressive sanitary I and I elimination program. Several 	<ul style="list-style-type: none"> Shoreline flyover could take place early next spring, pending funding. Potential to do the whole lake. SWG will identify other detection methods and support municipal efforts. I and I efforts will continue. Intermunicipal sewer agreement will enable new

			<p>elimination program. Several large sources were identified and corrected.</p>	<p>agreement will enable new sewer hook-ups and phosphorous reduction.</p> <ul style="list-style-type: none"> • The N. Triphammer Road reconstruction project will replace 1,800 feet of problem sewer.

IV MINIMUM MEASURE 4: Construction Site Stormwater Runoff Control

A. Narrative Overview:

The Village’s stormwater regulations have been able to address many requirements of part IV.C.4 of the permit through existing regulations and practices such as site plan and subdivision review including public hearings, erosion and sedimentation control plans, stormwater retention. The Village inspects construction sites to ensure the plans are being followed. Many of the other requirements will be developed over the next few years to meet complete construction site control requirements. The SWG is developing training materials and workshops for construction site operators. The completion of the Stormwater Management Ordinance will bring the construction site requirements together and create the ability to enforce these protections.

There are two major subdivisions in the planning / public review stages in the Village that will comply with the new MS4 stormwater requirements. Four large single lot construction projects with stormwater runoff control were completed in 2003.

<u>B. Implementation of Best Management Practices, #4 Construction Site Stormwater Runoff Control</u>				
REQUIREMENTS	YES	NO	ACHIEVEMENTS / EXPLANATIONS	PLANS FOR NEXT YEAR AND CHANGES
Require erosion and sedimentation controls through an ordinance or other regulatory mechanism (required)	√		<ul style="list-style-type: none"> • Erosion and sediment control are existing requirements of site plan and subdivision review. 	<ul style="list-style-type: none"> • With input from the “Watershed Local Laws Project”, the SWG will review suggested language and make recommendations to MS4s.
Provide opportunity for public comment on construction plans (required)	√		<ul style="list-style-type: none"> • Site plan review / subdivision review process requires a public hearing. 	<ul style="list-style-type: none"> • MS4s should make sure that there is a process for public comment on any construction plans that would be subject to the Phase II regulations but might not be subject to public comment under existing local reviews.
Require construction	√		<ul style="list-style-type: none"> • For review that is specific to 	<ul style="list-style-type: none"> • SWG is organizing a

site plan review (required)			<p>stormwater management, local review boards need training. Village staff also reviews plans.</p> <ul style="list-style-type: none"> In February of 2003, Network hosted satellite broadcast by DEC on stormwater management for MS4's. This was followed by a question and answer session with Steve Eidt of DEC. 	<p>workshop on April 15th for local review boards, engineers, and contractors. Over 60 have already registered.</p>
Require overall construction site waste management (required)	√		<ul style="list-style-type: none"> State Building Codes and County Sanitary Code regulate waste, but more work is needed, especially for education and enforcement. 	<ul style="list-style-type: none"> Details on construction site waste management will be incorporated into ordinances and outreach efforts.
Site inspection and enforcement (required)		√		<ul style="list-style-type: none"> This will be addressed in future years once ordinances are developed and staff receives trainings.
Education and training of construction site operators (required)	√		<ul style="list-style-type: none"> In February of 2003, Network hosted satellite broadcast by DEC on stormwater management requirements for construction activities. Code enforcement officers provide training in their daily work. SWCD newsletters have provided information. 	<ul style="list-style-type: none"> SWG is organizing a workshop on April 15th for local review boards, engineers, and contractors. SWG is developing a brochure with details on Phase II regulations to be distributed by municipalities to project applicants.

V MINIMUM MEASURE 5: Post-Construction Stormwater Management

A. Narrative Overview:

The Village's stormwater regulations have been able to address many requirements of part IV.C.5 of the permit through existing regulations and practices such as site plan and subdivision review including public hearings, erosion and sedimentation control plans, stormwater retention. The existing regulations do not address post-construction and the Village is starting to investigate methods of addressing this in any new ordinances developed. The SWG will investigate the development of a County wide model ordinance,

including regulations dealing with construction site control, post-construction controls, and construction site management.

All project completed in the Village in the past year have used existing storm water facilities without modifications. As part of developing the Stormwater Ordinance the Village will decide accept ownership or maintenance of the permanent stormwater facilities.

<u>B. Implementation of Best Management Practices, #5 Post-Construction Stormwater Management</u>				
REQUIREMENTS	YES	NO	ACHIEVEMENTS / EXPLANATIONS	PLANS FOR NEXT YEAR AND CHANGES
Assess existing conditions throughout the MS4 and identify appropriate management practices to reduce pollutant discharge to the maximum extent practicable (required)	√		<ul style="list-style-type: none"> • TCP has organized a watershed assessment for Sixmile Creek, which takes a close look at sediment issues. • Several volunteer monitoring programs are in place, on Fall Creek and Taugannock Creek. USGS gauging stations on Sixmile Creek also monitor sediment loads. • Several municipalities have stream buffer projects. SWCD has supported a number of riparian buffer projects and willow planting efforts. • Hydroseeding programs. • Highway maintenance programs. • SWCD provides technical assistance and interpretation of practices and standards. 	<ul style="list-style-type: none"> • TCP will support watershed assessments for Fall Creek, the Cayuga Inlet, and Salmon Creek. • Volunteer monitoring program on Sixmile Creek. • SWCD will continue to provide technical assistance and interpretation of practices and standards. • Network organizes monitoring conferences to facilitate coordination of efforts across the Cayuga Lake Watershed. • SWCD will continue riparian buffer projects.
Regulate post-construction runoff from development through an ordinance or other regulatory mechanism (required)	√		<ul style="list-style-type: none"> • Town of Ithaca has been researching ordinance development with special attention to maintenance issues. They will share results. • The Village's existing laws regulate post construction runoff and continue to be enforced until a new law can be developed. 	<ul style="list-style-type: none"> • SWG will review model language and assist MS4s. • The Village will review existing ordinances for concurrence with Phase II regulations. • Will review the law developed by the Genesee/Finger Lakes Regional Planning Council on the "Watershed Local Laws Project" and most likely adopt for Village

				likely adapt for village uses.
Develop management practice inspection and maintenance program (required)		√	<ul style="list-style-type: none"> Town of Ithaca has been addressing this project by project. Insights will be incorporated into ordinance language, which can be shared. 	<ul style="list-style-type: none"> SWG will review model language and assist MS4s. SWCD will provide technical assistance.

VI MINIMUM MEASURE 6: Pollution Prevention/Good Housekeeping

A. Narrative Overview:

The Village has a limited staff and most of its road maintenance projects are by contract, one of which is the annual street cleaning. Pollution prevention and good housekeeping will be addressed in all future contracts. The planned reconstruction of North Triphammer Road, scheduled to be bid later this year, is in compliance with the Phase II regulations and a Stormwater Pollution Prevention Plan has been incorporated in the design and bidding documents.

<u>B. Implementation of Best Management Practices, # 6 Pollution Prevention / Good Housekeeping</u>				
REQUIREMENTS	YES	NO	ACHIEVEMENTS / EXPLANATIONS	PLANS FOR NEXT YEAR AND CHANGES
Prevent discharge of pollutants from municipal operations (required)	√		<ul style="list-style-type: none"> SWCD, Town of Ithaca, and Village of Cayuga Heights have hydroseeders which they have been sharing with other MS4s. Hydroseeding is supported by funding from the WRC and FL-LOWPA. The Village has a regular street sweeping program in the spring to remove the roadside sand build up from the winter. Informal sharing agreement for municipal equipment. County hazardous waste collection program. County Hazard Mitigation Plan. Effort to relocate DOT facility away from Cayuga shore. 	<ul style="list-style-type: none"> IO received grant to address streambank erosion and road management in several municipalities. Project includes production of educational materials and outreach. Hazard mitigation plan finalization.

			<ul style="list-style-type: none"> • SWCD tire collection program. • SWCD Agricultural Chemical Clean-Sweep. (Drop off of containers). • Network supported an erosion control project on Cayuga Inlet at the Farmers Market. 	
Follow DEC NPS management Practices catalog, or equivalent (required)	√		<ul style="list-style-type: none"> • The Village requires the use of the guideline. 	
Conduct employee pollution prevention training (required)			<ul style="list-style-type: none"> • Every three years County and emergency responders have trainings – hazardous spill. Lee Shurtleff, Disaster Management Director. • OSHA-required in house trainings. 	

VII Monitoring and Modeling Results

No monitoring or modeling results to report.

VIII Summary of funding and Use of Grant Money

The Village has not received any funding or grant money from the NYSDEC.