

2004-2005 ANNUAL REPORT
Stormwater Management Program Annual Report # 2
June 1st, 2005

MS4 Name: Village of Lansing, Tompkins County
SPDES Number: NYR20A182

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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 is 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 MS4's 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 the 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 organizations that had 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 plans to begin work in 2005 on developing and implementing a local law to manage stormwater and has recently applied for state funding to help with the legal work this task will require. Whether funded or not, the Village will go forward with the law.

The Village is a member of the Stormwater Working Group, an intermunicipal partnership in Tompkins County that focuses specifically on stormwater management issues for the MS4s. 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 the 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.

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Stormwater Management Program Annual report
Six Minimum Measures Section
 March 10, 2004 – March 9, 2005

Municipality Name: Village of Lansing

SPDES Number: NYR20A182

Abbreviations Used

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

Chart Format (Column headings are abbreviated on future pages to save space)

B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
	YES	NO	
TECHNIQUES			ACHIEVEMENTS / EXPLANATIONS
			PLANS FOR NEXT YEAR AND CHANGES

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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 2005 to reach as many residents as possible on a wide variety of stormwater related topics. The ultimate goal is to effect the behavior of area residents and businesses to reduce the amount of stormwater pollution from entering the streams and lakes.

TECHNIQUES	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.

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TECHNIQUES	ACHIEVEMENTS / EXPLANATIONS	PLANS FOR NEXT YEAR AND CHANGES
Classroom education / school programs	<ul style="list-style-type: none"> • The IO is collaborating with CLWN and others to continue the Floating Classroom program for Cayuga Lake. 800-1000 young people have been out on the boat for education on water quality issues and water quality testing. • SWCD and City of Ithaca used “Enviroscape” models to reach over 500 young people in school classes throughout the county. • SWCD sponsored the annual “Envirothon” – a hands on environmental education contest for high school students. • The CLWN sponsored an essay contest for youth entitled: “The Rich History of the Cayuga Lake Watershed” • City of Ithaca and SWCD continue to use water quality test kits in educational hands-on presentation to area schools. • Tompkins County Environmental Appreciation Days: The CLWN provided lessons on non-point-source pollution and its relationship to stormwater. SWCD provided lessons on erosion and sediment control. • 4H established a water quality monitoring club. 	<ul style="list-style-type: none"> • With additional funding, the Floating Classroom program will continue development and offer programs for additional schools and other groups. EPF funding will assist the Floating Classroom in presenting programs on stormwater issues. • Similar educational programs accomplished this year are expected to continue.

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TECHNIQUES	ACHIEVEMENTS / EXPLANATIONS	PLANS FOR NEXT YEAR AND CHANGES
Outreach to commercial entities	<ul style="list-style-type: none"> • A draft of the Cayuga Lake Waterfront Plan has been completed and is intended to increase public access to the waterfront and improve waterfront parks, improve boating facilities and operation, and encourage appropriate economic development along the lake front. The plan includes an inventory and analysis of natural resources, cultural and land resources, and key issues and opportunities; waterfront revitalization policies; proposed land and water uses (land use changes, boating regulation changes, watershed management, and waterfront project and initiatives); and local implementation issues (zoning changes, enforcement of regulations, consistency review, and implementation schedule) • SWCD assists agricultural operations with emergency spill plans and environmental management. • CCE offered a Basic Pesticide Training class with a focus on Integrated Pest Management (IPM) and environmental protection for farmers, landscapers, and municipal workers. There were 46 attendees. 	<ul style="list-style-type: none"> • TC Hazard Mitigation Plan will be finalized and implemented. The Plan addresses prevention of hazardous waste spills at commercial sites.
Webpage	<ul style="list-style-type: none"> • Most municipalities have basic a stormwater web site with links to EPA and DEC sites. 	<ul style="list-style-type: none"> • SWG members will coordinate web resources to ensure that visitors to MS4 websites receive good stormwater information.

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TECHNIQUES	ACHIEVEMENTS / EXPLANATIONS	PLANS FOR NEXT YEAR AND CHANGES
Printed material	<ul style="list-style-type: none"> • The CLWN distributed <i>Issues in the Cayuga Lake Watershed</i>, which includes information on nonpoint source pollution prevention. • Several regular newsletters were distributed which include stormwater information produced by: CLWN, SWCD, EPA • EPA stormwater materials have been distributed at Water Week and Environmental Resource Fair (see events). • Publication called “Landscaping for Erosion Control” was produced by CCE. • A CD-Rom called “Protecting the Cayuga Lake Watershed” was completed and distributed. 	<ul style="list-style-type: none"> • The CLWN is producing “Living Wisely in Your Watershed.” • A stormwater management article will appear in the IO Newsletter in Spring 2005.
Media campaign	<ul style="list-style-type: none"> • The IO organized radio public service announcements about watershed issues. • Ulysses is producing a homeowner’s guide with topics including – Native Vegetation for Landscaping, Industry and Businesses. The are also identifying planting setbacks for new development. • CCE did a piece on Ithaca Journal’s home and garden page. • Tompkins County adopted the Tompkins County Comprehensive Plan, which identifies stormwater management as a critical resource management issue with regard to the future economic and environmental health of the County. • Articles relevant to stormwater management appeared in the <i>Ithaca Journal</i> on August 6, 2004 and September 6, 2004. 	<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. • Ulysses plans to finalize their Homeowner guide.
Library of educational materials	<ul style="list-style-type: none"> • Many MS4s have a library of stormwater materials for use by the general public. 	<ul style="list-style-type: none"> • SWG will continue to work toward improving the accessibility and awareness of library materials.

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TECHNIQUES	ACHIEVEMENTS / EXPLANATIONS	PLANS FOR NEXT YEAR AND CHANGES
Displays	<ul style="list-style-type: none"> The following organizations have portable displays, which they bring to events: SWCD, CLWN, TCP, WRC, CCE, IO, City of Ithaca, Fall Creek Watershed Committee, Caroline Watershed Committee, Community Science Institute, Trout Unlimited, Floating Classroom. 	
Speakers to community groups	<ul style="list-style-type: none"> The CLWN provided speakers to Cayuga Bird Club to discuss watershed issues including phosphorus and sediment loading. 	
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.

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MINIMUM MEASURE 2: Public Involvement/Participation

A. Narrative Overview:

The Village 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 16th to provide an opportunity for the public to offer comments and ask questions concerning the stormwater plan and the Annual Report.

As a member of the Stormwater Working Group, the Village 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.

B. Implementation of Best Management Practices, #2 Public Involvement / Participation				
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 (required)	✓		The report will be presented at the May 16 th Village Board meeting and comments incorporated into the final report.	
Public involvement/ participation program(required)	✓		<ul style="list-style-type: none"> • Ongoing MS4 participation in the IO. • CLWN has coordinated planting of 1000 willow whips provided by DEC for stream bank erosion control. Willows were planted by volunteers along lake tributaries that ran through Caroline and Dryden (Six Mile, Fall and Yellow Barn). • Execution of the County's Neighborhood Notification Law 	<ul style="list-style-type: none"> • The SWG has further plans to investigate catch basin labeling options. • Monitoring and Planting for Buffer Restoration projects. • Existing monitoring efforts will continue. • Continued implementation of the County's Neighborhood Notification Law
Contact person identified (required)	✓		The Village Code Enforcement Officer is the contact person for stormwater issues.	

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MINIMUM MEASURE 3: Illicit Discharge Detection and Elimination

A. Narrative Overview:

The Village did not identify any illicit discharges in 2004. To monitor and reduce pollutants better 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 local stormwater and sedimentation control law 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.

B. Implementation of Best Management Practices, # 3 Illicit Discharge Detection and Elimination				
ACTIVITIES	YES	NO	ACHIEVEMENTS / EXPLANATIONS	PLANS FOR NEXT YEAR AND CHANGES
Outfall mapping (required)		✓	<ul style="list-style-type: none"> The SWG has received funding from EPF to extend mapping efforts across all MS4s. TC, the Town of Ithaca, the City of Ithaca and SWCD are developing protocol to determine strategies involved. 	<ul style="list-style-type: none"> Once funding is received, SWCD, City of Ithaca, Town 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)	✓		<ul style="list-style-type: none"> Public outreach materials are distributed at Water Week Village employees watch for illicit discharges in the course of their regular duties. 	<ul style="list-style-type: none"> Public outreach materials will continue to be developed and distributed through the existing communication structure available. CLWN (newsletters, articles, websites, trainings, etc.)

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B. Implementation of Best Management Practices, # 3 Illicit Discharge Detection and Elimination				
ACTIVITIES	YES	NO	ACHIEVEMENTS / EXPLANATIONS	PLANS FOR NEXT YEAR AND CHANGES
Illicit discharges identified (required)	✓		<ul style="list-style-type: none"> • Ongoing highway dept. inspections and health department t response to complaints. • Ongoing investigation for flyover of Cayuga Lake as a collaborative effort with company called Landview. Currently Ulysses is pursuing a funding source. • Effort to address I & I and surcharging issues for wastewater treatment plants: Town & Village of Lansing, City of Ithaca, Town of Ithaca. Ongoing. • N. Triphammer Road rebuild project in process of replacing problem sewer and water lines. 	<ul style="list-style-type: none"> • Shoreline flyover could take place early next fall, pending funding. Potential to do the whole lake. • SWG will continue to identify other detection methods and support municipal efforts. • I & I efforts will continue. • Intermunicipal sewer agreement will enable new sewer hook-ups and phosphorous reduction. Distribution and system construction being decided.

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MINIMUM MEASURE 4: Construction Site Stormwater Runoff Control

A. Narrative Overview:

The Village’s codes and laws 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 that includes public hearings, erosion and sedimentation control plans, landscaping 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 has provided training materials and workshops for construction site operators. The completion of the Stormwater Management Law will bring the construction site requirements together and create the ability to enforce these protections.

There are two major subdivisions beginning construction in the Village that must comply with the new MS4 stormwater requirements. The developers’ construction engineering firms have already filed their Notices of Intent to the DEC. Four large single lot construction projects with stormwater runoff control were completed in 2004. The current reconstruction of North Triphammer Road, is in compliance with the Phase II regulations and a Stormwater Pollution Prevention Plan has been incorporated in the design documents.

B. Implementation of Best Management Practices, #4 Construction Site Stormwater Runoff Control				
REQUIREMENTS	YES	NO	ACHIEVEMENTS / EXPLANATIONS	PLANS FOR NEXT YEAR AND CHANGES
Require erosion and sedimentation controls through an ordinance or other regulatory mechanism (required)	x		<ul style="list-style-type: none"> Erosion and sediment control are existing requirements of site plan and subdivision review. Municipalities currently reviewing local law model created and distributed by TC. 	<ul style="list-style-type: none"> With input from the “Watershed Local Laws Project”, the SWG will continue to provide guidance to relate suggested language and make recommendations to MS4s.
Provide opportunity for public comment on construction plans (required)	x		<ul style="list-style-type: none"> The village 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 site plan review (required)	x		<ul style="list-style-type: none"> For review that is specific to stormwater management, local review boards need training. Deb Caraco provides. Village staff reviews plans. 	

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B. Implementation of Best Management Practices, #4 Construction Site Stormwater Runoff Control				
REQUIREMENTS	YES	NO	ACHIEVEMENTS / EXPLANATIONS	PLANS FOR NEXT YEAR AND CHANGES
Require overall construction site waste management (required)	✓		<ul style="list-style-type: none"> State Building Codes and County Health 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. See County Model Local Law
Site inspection and enforcement (required)		✓		<ul style="list-style-type: none"> This will be addressed in future years once ordinances are developed and staff receive training.
Education and training of construction site operators (required)	✓		<ul style="list-style-type: none"> Code enforcement officers provide training in their daily work. The April 4, 2004 SWCD newsletter had information on construction site education March 15, Erosion and Sediment Control Workshop for Contractors. Village code enforcement staff attended the training. 	<ul style="list-style-type: none"> The SWG acts as a conduit to distribute NYSDEC provided literature and brochures regarding construction regulations and erosion and sediment control.

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MINIMUM MEASURE 5: Post-Construction Stormwater Management

A. Narrative Overview:

The Village’s stormwater regulations 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 will be including this in any new local stormwater law. The SWG is helping with the development of a County-wide model ordinance, including regulations dealing with construction site control, post-construction controls, and construction site management.

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

B. Implementation of Best Management Practices, #5 Post-Construction Stormwater Management				
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)	x		<ul style="list-style-type: none"> SWCD provides technical assistance and interpretation of practices and standards. 	<ul style="list-style-type: none"> SWCD will continue to provide technical assistance and interpretation of practices and standards. SWCD will continue riparian buffer projects.
Regulate post-construction runoff from development through an ordinance or other regulatory mechanism (required)	x		The Village will begin working on developing a local erosion and sedimentation control law during 2005. A date for implementation is not known yet.	<ul style="list-style-type: none"> SWG will review and assist MS4s with proposed local laws and ordinances. Municipalities will review existing ordinances for concurrence with Phase II regulations.
Develop management practice inspection and maintenance program (required)		x	<ul style="list-style-type: none"> The Village will draw on information and experience of other municipal efforts in developing inspection and maintenance systems. 	<ul style="list-style-type: none"> SWG will review model language and assist MS4s. SWCD will provide technical assistance.

Comment [Ska1]: No watershed monitoring conference planned for 2005.

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MINIMUM MEASURE 6: Pollution Prevention/Good Housekeeping

A. Narrative Overview:

The Village has limited highway staff and most of its road maintenance projects are contractual, one of which is the annual street cleaning. Pollution prevention and good housekeeping will be addressed in all future contracts. The Village changed from a salt-sand mix for deicing this past winter to all salt to reduce the amount of fine sand that washes off into storm drains and waterways. This will reduce the cost of street sweeping as well.

B. Implementation of Best Management Practices, # 6 Pollution Prevention / Good Housekeeping				
REQUIREMENTS	YES	NO	ACHIEVEMENTS / EXPLANATIONS	PLANS FOR NEXT YEAR AND CHANGES
Prevent discharge of pollutants from municipal operations (required)	x		<ul style="list-style-type: none"> • Village cleans out catch basins on a seasonal basis. • Village salt stored in a designated barn. • 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. • Intermunicipal cooperation on catch basin maintenance via vacuuming etc. • Informal sharing agreement for municipal equipment. • County sponsored hazardous waste drop off. "Hazardous Waste Days." • County Hazard Mitigation Plan in final stages. • SWCD tire collection program. – 8,000 tires collected. 	<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. • All hazard mitigation plan finalization. • MS4s will continue to formalize equipment sharing agreement.
Follow DEC NPS management Practices catalog, or equivalent (required)	x		<ul style="list-style-type: none"> • The Village requires the use of these guidelines. 	

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B. Implementation of Best Management Practices, # 6 Pollution Prevention / Good Housekeeping				
REQUIREMENTS	YES	NO	ACHIEVEMENTS / EXPLANATIONS	PLANS FOR NEXT YEAR AND CHANGES
Conduct employee pollution prevention training (required)		x	<ul style="list-style-type: none"> • Every three years County and emergency responders have trainings – hazardous spill. Lee Shurtleiff, disaster management. • OSHA required in-house trainings. 	

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Parts VII

Working on this under the Six Mile Creek Management Strategy. Purpose is to identify a forum with which to discuss regional management strategy for existing data.

TC received FL-LOWPA Special Projects Grant that will look at data for bacteria comprehensively.

Efforts to put together a framework to monitor Cayuga Lake and Watershed so that we have buy-in from local land owners and municipality.

Parts VIII – List any funding or grants the municipality received from NYSDEC.

- Village of Lansing will receive EPF funding for the Kline Road bypass, which will send waste water from the Village of Cayuga Heights to the IAWTF.