



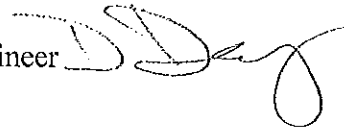
CITY OF UTICA

1 KENNEDY PLAZA, UTICA, NEW YORK 13502
DEPARTMENT OF ENGINEERING
315-792-0152 FAX: 315-792-0236

ROBERT M. PALMIERI
Mayor

GORAN SMILJIC **FRANCIS P GERACE, P.E**
Deputy City Engineer Consulting Engineer
gsmiljic@cityofutica.com fgerace@cityofutica.com

MEMO TO: City Clerk
Common Council

FROM: Deborah Day, Senior Engineer 

DATE: May 10, 2012

RE: 2011 MS4 Annual Report

Attached please find the City of Utica 2011 MS4 Annual Report respectfully submitted for review and comment. Comments can be sent via e-mail to dday@cityofutica.com. Thanks in advance for your cooperation.

Attachment

MS4 Annual Report Cover Page

MCC form for period ending March 9,

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Provide SPDES ID of each permitted MS4 included in this report.

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MS4 Municipal Compliance Certification(MCC) Form

MCC form for period ending March 9, 2012

Name of MS4

SPDES ID
N Y R 2 0 A 3 6 1

Section 2 - Contact Information

Important Instructions - Please Read

Contact information must be provided for *each* of the following positions as indicated below:

1. Principal Executive Officer, Chief Elected Official or other qualified individual (per GP-0-08-002 Part VI.J).
2. Duly Authorized Representative (Information for this contact must only be submitted if a Duly Authorized Representative is signing this form)
3. The Local Stormwater Public Contact (required per GP-0-08-002 Part VII.A.2.c & Part VIII.A.2.c).
4. The Stormwater Management Program (SWMP) Coordinator (Individual responsible for coordination/implementation of SWMP).
5. Report Preparer (Consultants may provide company name in the space provided).

A separate sheet must be submitted for each position listed above unless more than one position is filled by the same individual. If one individual fills multiple roles, provide the contact information once and check all positions that apply to that individual.

If a new Duly Authorized Representative is signing this report, their contact information must be provided and a signature authorization form, signed by the Principal Executive Officer or Chief Elected Official must be attached.

For each contact, select all that apply:

- Principal Executive Officer/Chief Elected Official
- Duly Authorized Representative
- Local Stormwater Public Contact
- Stormwater Management Program (SWMP) Coordinator
- Report Preparer

First Name MI Last Name

Title

Address

City State Zip

eMail

Phone County

MS4 Municipal Compliance Certification(MCC) Form

MCC form for period ending March 9, 2012

Name of MS4

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- Duly Authorized Representative
- Local Stormwater Public Contact
- Stormwater Management Program (SWMP) Coordinator
- Report Preparer

First Name MI Last Name

Title

Address

City State Zip

eMail

Phone County

MS4 Municipal Compliance Certification (MCC) Form

MCC form for period ending March 9, 2012

Name of MS4

SPDES ID
N Y R 2 0 A 3 6 1

Section 3 - Partner Information

Did your MS4 work with partners/coalition to complete some or all permit requirements during this reporting period? Yes No

If Yes, complete information below.

Submit a separate sheet for each partner. Information provided in other formats will not be accepted. If your MS4 cooperated with a coalition, submit one sheet with the name of the coalition. It is not necessary to include a separate sheet for each MS4 in the coalition.

If No, proceed to Section 4 - Certification Statement.

Partner/Coalition Name

R u s t T o G r e e n

Partner/Coalition Name (con't.)

SPDES Partner ID - If applicable
N Y R 2 0

Address

4 4 0 K e n n e d y H a l l

City

I t h a c a

State

N Y

Zip

1 4 8 5 3 -

eMail

Phone

(6 0 7) 3 9 8 - 0 7 2 4

Legally Binding Agreement in accordance with GP-0-08-002 Part IV.G.? Yes No

What tasks/responsibilities are shared with this partner (e.g. MM1 School Programs or Multiple Tasks)?

● MM1 p u b l i c o u t r e a c h o n G I

● MM2 p u b l i c p a r t i c i p a t i o n o n G I

○ MM3

○ MM4

○ MM5

○ MM6

Additional tasks/responsibilities

○ Watershed Improvement Strategy Best Management Practices required for MS4s in impaired watersheds included in GP-0-08-002 Part IX.

MS4 Municipal Compliance Certification (MCC) Form

MCC form for period ending March 9, 2012

Name of MS4 City of Utica

SPDES ID

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Section 3 - Partner Information

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If No, proceed to Section 4 - Certification Statement.

Partner/Coalition Name

OneidaHerkSolidWasteAuthOrity

Partner/Coalition Name (con't.)

SPDES Partner ID - If applicable

NYR20

Address

1600GeneseeStreet

City

Utica

State

NY

Zip

13502-

eMail

Phone

(315) 733 - 1224

Legally Binding Agreement in accordance with GP-0-08-002 Part IV.G? Yes No

What tasks/responsibilities are shared with this partner (e.g. MM1 School Programs or Multiple Tasks)?

- MM1 recycling & haz waste outreach
- MM2
- MM3
- MM4
- MM5
- MM6 solid waste mgmt & recycling

Additional tasks/responsibilities

- Watershed Improvement Strategy Best Management Practices* required for MS4s in impaired watersheds included in GP-0-08-002 Part IX.

MS4 Municipal Compliance Certification (MCC) Form

MCC form for period ending March 9, 2012

Name of MS4

SPDES ID

Section 3 - Partner Information

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Partner/Coalition Name

Partner/Coalition Name (con't.)

SPDES Partner ID - If applicable

Address

City

State

Zip

-

eMail

Phone

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Legally Binding Agreement in accordance with GP-0-08-002 Part IV.G.? Yes No

What tasks/responsibilities are shared with this partner (e.g. MM1 School Programs or Multiple Tasks)?

- MM1
- MM2
- MM3
- MM4
- MM5
- MM6

Additional tasks/responsibilities

- Watershed Improvement Strategy Best Management Practices required for MS4s in impaired watersheds included in GP-0-08-002 Part IX.

MS4 Municipal Compliance Certification (MCC) Form

MCC form for period ending March 9, 2012

Name of MS4

SPDES ID

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Submit a separate sheet for each partner. Information provided in other formats will not be accepted. If your MS4 cooperated with a coalition, submit one sheet with the name of the coalition. It is not necessary to include a separate sheet for each MS4 in the coalition.

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Partner/Coalition Name

Partner/Coalition Name (con't.)

SPDES Partner ID - If applicable

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Address

City

State

Zip

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Phone

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What tasks/responsibilities are shared with this partner (e.g. MM1 School Programs or Multiple Tasks)?

- MM1
- MM2
- MM3
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- MM6

Additional tasks/responsibilities

- Watershed Improvement Strategy Best Management Practices* required for MS4s in impaired watersheds included in GP-0-08-002 Part IX.

MS4 Municipal Compliance Certification(MCC) Form

MCC form for period ending March 9, 2012

Name of MS4

SPDES ID

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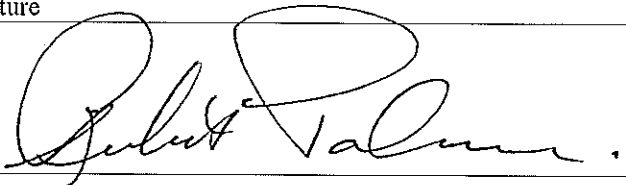
Section 4 - Certification Statement

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

This form must be signed by either a principal executive officer or ranking elected official, or duly authorized representative of that person as described in GP-0-08-002 Part VI.J.

First Name MI Last Name

Title (Clearly print title of individual signing report)

Signature 

Date

Send completed form and any attachments to the DEC Central Office at:

MS4 Permit Coordinator
Division of Water
4th Floor
625 Broadway
Albany, New York 12233-3505

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

City of Utica

SPDES ID

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3. What strategies did your MS4/Coalition use to achieve education and outreach goals during this reporting period? Check all that apply:

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|--|---------------------|---|---|---|---|---|---|
| <input checked="" type="radio"/> Construction Site Operators Trained | # Trained | <table border="1" style="display: inline-table;"><tr><td></td><td></td><td>1</td><td>4</td><td>8</td></tr></table> | | | 1 | 4 | 8 |
| | | 1 | 4 | 8 | | | |
| <input type="radio"/> Direct Mailings | # Mailings | <table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | | | | | |
| | | | | | | | |
| <input checked="" type="radio"/> Kiosks or Other Displays | # Locations | <table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td>4</td></tr></table> | | | | | 4 |
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| <input type="radio"/> List-Serves | # In List | <table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | | | | | |
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| <input checked="" type="radio"/> Mailing List | # In List | <table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | | | | | |
| | | | | | | | |
| <input type="radio"/> Newspaper Ads or Articles | # Days Run | <table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | | | | | |
| | | | | | | | |
| <input checked="" type="radio"/> Public Events/Presentations | # Attendees | <table border="1" style="display: inline-table;"><tr><td></td><td>1</td><td>0</td><td>0</td><td>0</td></tr></table> | | 1 | 0 | 0 | 0 |
| | 1 | 0 | 0 | 0 | | | |
| <input type="radio"/> School Program | # Attendees | <table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | | | | | |
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| <input type="radio"/> TV Spot/Program | # Days Run | <table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | | | | | |
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| <input checked="" type="radio"/> Printed Materials: | Total # Distributed | <table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | | | | | |
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Locations (e.g. libraries, town offices, kiosks)

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Other:

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Web Page: Provide specific web addresses - not home page. Continue on next page if additional space is needed.

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MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

City of Utica

SPDES ID

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4. Evaluating Progress Toward Measurable Goals MCM 1

Use this page to report on your progress and project plans toward achieving measurable goals identified in your Stormwater Management Program Plan (SWMPP), including requirements in Part III.C.1. Submit additional pages as needed.

A. Briefly summarize the Measurable Goal identified in the SWMPP in this reporting period.

Provide residents and businesses within the MS4 with ample opportunities to learn about stormwater management within the MS4. One method of accomplishing this is via our grants for Green Infrastructure and our partnership with Rust 2 Green and Cornell Cooperative Extension. The City has received funding from the Environmental Facilities Corporation to implement GI practices that serve to manage excess stormwater and educate the public about stormwater best management

B. Briefly summarize the observations that indicated the overall effectiveness of this Measurable Goal.

SWCD Newsletter articles are provided. Topics included construction site runoff control, trash/recycling issues, Smart Growth, Green Infrastructure, Pesticide/Fertilizer application, pet waste, vehicle washing, water conservation, wetland conservation and riparian buffer preservation. SWCD presented stormwater quality issues to approximately 900 students at the County Conservation Education Days in September. HOCCPP produced 5 videos on stormwater

C. How many times was this observation measured or evaluated in this reporting period?

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(ex.: samples/participants/events)

D. Has your MS4 made progress toward this Measurable Goal during this reporting period?
 Yes No
E. Is your MS4 on schedule to meet the deadline set forth in the SWMPP?
 Yes No
F. Briefly summarize the stormwater activities planned to meet the goals of this MCM during the next reporting cycle (including an implementation schedule).

Update the Stormwater Management portion of our website. Pass along pertinent stormwater information to residents and business owners via implementation projects, public meetings and our website.

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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Name of MS4/Coalition

City of Utica																			
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Minimum Control Measure 2. Public Involvement/Participation

The information in this section is being reported (check one):

- On behalf of an individual MS4
- On behalf of a coalition

How many MS4s contributed to this report?

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1. What opportunities were provided for public participation in implementation, development, evaluation and improvement of the Stormwater Management Program (SWMP) Plan during this reporting period? Check all that apply:

<input checked="" type="radio"/> Cleanup Events	# Events	<table border="1" style="display: inline-table;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px; text-align: center;">2</td></tr></table>					2																																		
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<input checked="" type="radio"/> Comments on SWMP Received	# Comments	<table border="1" style="display: inline-table;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px; text-align: center;">0</td></tr></table>					0																																		
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<input checked="" type="radio"/> Community Hotlines	Phone #	<table border="1" style="display: inline-table;"><tr><td style="width: 20px; text-align: center;">3</td><td style="width: 20px; text-align: center;">1</td><td style="width: 20px; text-align: center;">5</td></tr></table>) <table border="1" style="display: inline-table;"><tr><td style="width: 20px; text-align: center;">7</td><td style="width: 20px; text-align: center;">9</td><td style="width: 20px; text-align: center;">2</td></tr></table> - <table border="1" style="display: inline-table;"><tr><td style="width: 20px; text-align: center;">0</td><td style="width: 20px; text-align: center;">1</td><td style="width: 20px; text-align: center;">5</td><td style="width: 20px; text-align: center;">2</td></tr></table>	3	1	5	7	9	2	0	1	5	2																													
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2. Was public notice of availability of this annual report and Stormwater Management Program (SWMP) Plan provided? Yes No

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Web Page URL: Enter URL(s) on the following two pages.

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9, 2012

If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

SPDES ID
N Y R 2 0 A 3 6 1

2. URL(s) con't.:

Please provide specific address(es) where notice(s) can be accessed - not home page.

URL

h t t p : / / w w w . o c g o v . n e t / o n e i d a / p l a n
n i n g / e n v i r o n m e n t w a t e r / S t o r m w a t e r
V i d e o 5

URL

h t t p : / / o n e i d a s w c d . o r g / c o m m u n i t y -
e n v i r o n m e n t a l - m a n a g e m e n t /

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MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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 If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

City of Utica

SPDES ID											
N	Y	R	2	0	A	3	6	1			

2. URL(s) con't.:

Please provide specific address(es) where notices can be accessed - not home page.

URL

URL

URL

URL

URL

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URL

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9, 2012

If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

SPDES ID

3. Where can the public access copies of this annual report, Stormwater Management Program SWMP) Plan and submit comments on those documents?

Enter address/contact info and select radio button to indicate which document is available and whether comments may be submitted at that location. Submit additional pages as needed.

- MS4/Coalition Office Annual Report SWMP Plan Comments

Department

Address

City

Zip

-

Phone

() -

- Library Annual Report SWMP Plan Comments

Address

City

Zip

-

Phone

() -

- Other Annual Report SWMP Plan Comments

Address

City

Zip

-

Phone

() -

- Web Page URL: Annual Report SWMP Plan Comments

Please provide specific address of page where report can be accessed - not home page.

- eMail Comments

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

City of Utica									
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SPDES ID

N	Y	R	2	0	A	3	6	1
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4.a. If this report was made available on the internet, what date was it posted?

Leave blank if this report was not posted on the internet.

0	6
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 /

0	1
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 /

2	0	1	1
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4.b. For how many days was/will this report be posted?

3	6	5
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If submitting a report for single MS4, answer 5.a.. If submitting a joint report, answer 5.b..

5.a. Was an Annual Report public meeting held in this reporting period?

Yes No

If Yes, what was the date of the meeting?

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If No, is one planned?

Yes No

5.b. Was an Annual Report public meeting held for all MS4s contributing to this report during this reporting period?

Yes No

If No, is one planned for each?

Yes No

6. Were comments received during this reporting period?

Yes No

If Yes, attach comments, responses and changes made to SWMP in response to comments to this report.

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

City of Utica

SPDES ID

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7. Evaluating Progress Toward Measurable Goals MCM 2

Use this page to report on your progress and project plans toward achieving measurable goals identified in your Stormwater Management Program Plan (SWMPP), including requirements in Part III.C.1. Submit additional pages as needed.

A. Briefly summarize the Measurable Goal identified in the SWMPP in this reporting period.

Reach out to residents, business owners and contractors as well as municipal employees to ensure that they are aware of the activities within the MS4 and that they are aware of local stormwater regulations. With the devastation caused by the series of storms from April 2011 to September 2011, the City has been focusing large scale stormwater management efforts. Our engineering department staff has made several public presentations and spoken repeatedly to the media about stormwater management and the Green Infrastructure Initiative throughout the City.

B. Briefly summarize the observations that indicated the overall effectiveness of this Measurable Goal.

SWCD and HOCCPP provide information for our website which is under construction. Stream cleanups and roadside cleanups were hosted during the reporting period. HOCCPP provided 5 power point presentations on the topics of Basic Stormwater Planning, SWPPP Review, Sewershed Mapping, Green Infrastructure and Runoff Reduction Stormwater Design.

C. How many times was this observation measured or evaluated in this reporting period?

		1		0
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(ex.: samples/participants/events)

D. Has your MS4 made progress toward this measurable goal during this reporting period?

Yes No

E. Is your MS4 on schedule to meet the deadline set forth in the SWMPP?

Yes No

F. Briefly summarize the stormwater activities planned to meet the goals of this MCM during the next reporting cycle (including an implementation schedule).

Continue to update our website and reach out to the public.

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

City of Utica

SPDES ID

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12. Evaluating Progress Toward Measurable Goals MCM 3

Use this page to report on your progress and project plans toward achieving measurable goals identified in your Stormwater Management Program Plan (SWMPP), including requirements in Part III.C.1. Submit additional pages as needed.

A. Briefly summarize the Measurable Goal identified in the SWMPP in this reporting period.

Work with Codes and Public Works to identify and eliminate illicit discharges in the City's MS4 system.

B. Briefly summarize the observations that indicated the overall effectiveness of this Measurable Goal.

An incident occurred in July 2011 whereby a Walmart employee was hosing down a truck/garbage bay and the runoff was directed to a drain that outletted to the facility's stormwater system and ultimately to the Mohawk River. Our codes officer worked with the SWCD to identify and eliminate the problem through education of corporate staff.

C. How many times was this observation measured or evaluated in this reporting period?

			1
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(ex.: samples/participants/events)

D. Has your MS4 made progress toward this measurable goal during this reporting period?

Yes No

E. Is your MS4 on schedule to meet the deadline set forth in the SWMPP?

Yes No

F. Briefly summarize the stormwater activities planned to meet the goals of this MCM during the next reporting cycle (including an implementation schedule).

Continue to educate the public and businesses about the need to eliminate illicit discharges into the City's stormwater system.

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

City of Utica

SPDES ID

N	Y	R	2	0	A	3	6	1
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Minimum Control Measures 4 and 5.
Construction Site and Post-Construction Control

The information in this section is being reported (check one):

- On behalf of an individual MS4
- On behalf of a coalition

How many MS4s contributed to this report?

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1a. Has each MS4 contributing to this report adopted a law, ordinance or other regulatory mechanism that provides equivalent protection to the NYS SPDES General Permit for Stormwater Discharges from Construction Activities? Yes No

1b. Has each Town, City and/or Village contributing to this report documented that the law is equivalent to a NYSDEC Sample Local Law for Stormwater Management and Erosion and Sediment Control through either an attorney certification or using the NYSDEC Gap Analysis Workbook? Yes No NT

If Yes, Towns, Cities and Villages provide date of equivalent NYS Sample Local Law.
 09/2004 03/2006 NT

2. Does your MS4/Coalition have a SWPPP review procedure in place? Yes No

3. How many Construction Stormwater Pollution Prevention Plans (SWPPPs) have been reviewed in this reporting period?

		0
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4. Does your MS4/Coalition have a mechanism for receipt and consideration of public comments related to construction SWPPPs? Yes No NT

If Yes, how many public comments were received during this reporting period?

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5. Does your MS4/Coalition provide education and training for contractors about the local SWPPP process? Yes No

6. Identify which of the following types of enforcement actions you used during the reporting period for construction activities, indicate the number of actions, or note those for which you do not have authority:

- Notices of Violation #

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 No Authority
- Stop Work Orders #

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 No Authority
- Criminal Actions #

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 No Authority
- Termination of Contracts #

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 No Authority
- Administrative Fines #

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 No Authority
- Civil Penalties #

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 No Authority
- Administrative Orders #

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 No Authority
- Enforcement Actions or Sanctions #

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- Other #

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 No Authority

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

City of Utica

SPDES ID

N	Y	R	2	0	A	3	6	1
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Minimum Control Measure 4. Construction Site Stormwater Runoff Control

The information in this section is being reported (check one):

- On behalf of an individual MS4
- On behalf of a coalition

How many MS4s contributed to this report?

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1. How many construction projects have been authorized for disturbances of one acre or more during this reporting period?

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 2. How many construction projects disturbing at least one acre were active in your jurisdiction during this reporting period?

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 3. What percent of active construction sites were inspected during this reporting period? NT

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 %

 4. What percent of active construction sites were inspected more than once? NT

--	--	--

 %

 5. Do all inspectors working on behalf of the MS4s contributing to this report use the NYS Construction Stormwater Inspection Manual? Yes No NT

 6. Does your MS4/Coalition provide public access to Stormwater Pollution Prevention Plans (SWPPPs) of construction projects that are subject to MS4 review and approval? Yes No NT
- If your MS4 is Non-Traditional, are SWPPPs of construction projects made available for public review? Yes No

If Yes, use the following page to identify location(s) where SWPPPs can be accessed.

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9, 2012

If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

SPDES ID

N	Y	R	2	0	A	3	6	1
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6. con't.:

Submit additional pages as needed.

● MS4/Coalition Office

Department

Address

City

Zip

-

Phone

() -

○ Library

Address

City

Zip

-

Phone

() -

○ Other

Address

City

Zip

-

Phone

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○ Web Page URL(s): Please provide specific address where SWPPPs can be accessed - not home page.

URL

URL

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

City of Utica

SPDES ID

N	Y	R	2	0	A	3	6	1
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7. Evaluating Progress Toward Measurable Goals MCM 4

Use this page to report on your progress and project plans toward achieving measurable goals identified in your Stormwater Management Program Plan (SWMPP), including requirements in Part III.C.1. Submit additional pages as needed.

A. Briefly summarize the Measurable Goal identified in the SWMPP in this reporting period.

Review all SWPPPs presented within the municipality. Review all site plans to ensure that those that need SWPPPs have them. Inspect sites to determine compliance with our local laws. Train contractors to ensure that they are aware of and practicing sound erosion and sediment control techniques on site.

B. Briefly summarize the observations that indicated the overall effectiveness of this Measurable Goal.

SWCD provides training to local contractors on Erosion and Sediment control techniques. SWCD reviews SWPPPs on behalf of MS4 and signs off on the SWPPP Acceptance Forms. The HOCCPP worked with MS4s this year to develop written procedures for SWPPP review and to provide training to Planning Board personnel. SWCD works with Codes Officer and/or Highway Supervisor to inspect sites and provide follow up where problems are noted. Training is provided from SWCD

C. How many times was this observation measured or evaluated in this reporting period?

			5
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(ex.: samples/participants/events)

D. Has your MS4 made progress toward this measurable goal during this reporting period?

Yes No

E. Is your MS4 on schedule to meet the deadline set forth in the SWMPP?

Yes No

F. Briefly summarize the stormwater activities planned to meet the goals of this MCM during the next reporting cycle (including an implementation schedule).

Continue to coordinate with planning board officials, contractors and codes officer to ensure that all parties affected by the regulation are aware of it and know their responsibilities.

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

City of Utica

SPDES ID

N	Y	R	2	0	A	3	6	1
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4a. Are the MS4s contributing to this report involved in a regional/watershed wide planning effort?

Yes No

4b. Does the MS4 have a banking and credit system for stormwater management practices?

Yes No

4c. Do the SWMP Plans for each MS4 contributing to this report include a protocol for evaluation and approval of banking and credit of alternative siting of a stormwater management practice?

Yes No

4d. How many stormwater management practices have been implemented as part of this system in this reporting period?

		0
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5. What percent of municipal officials/MS4 staff responsible for program implementation attended training on Low Impace Development (LID), Better Site Design (BSD) and other Green Infrastructure principles in this reporting period?

	5	0
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MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

2	0	1	2
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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition:

City of Utica

SPDES ID

N	Y	R	2	0	A	3	6	1
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6. Evaluating Progress Toward Measurable Goals MCM 5

Use this page to report on your progress and project plans toward achieving measurable goals identified in your Stormwater Management Program Plan (SWMPP), including requirements in Part III.C.1. Submit additional pages as needed.

A. Briefly summarize the Measurable Goal identified in the SWMPP in this reporting period.

Ensure maintenance of stormwater management facilities within the MS4 regulated area. Encourage use of green infrastructure. Apply for funding to manage stormwater from perspectives of both quality and quantity

B. Briefly summarize the observations that indicated the overall effectiveness of this Measurable Goal.

All SWPPPs where permanent stormwater management is proposed are reviewed to ensure that proposals meet requirements outlined in DEC regulatory documents. In addition, SWPPP content is checked to ensure that Green Infrastructure practices are being considered during the planning phase. Construction inspections are performed on all sites where at least 1 acre of ground is disturbed to ensure that permanent stormwater structures are being installed in accordance with DEC design

C. How many times was this observation measured or evaluated in this reporting period?

			6
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(ex.: samples/participants/events)

D. Has your MS4 made progress toward this measurable goal during this reporting period?

Yes No

E. Is your MS4 on schedule to meet the deadline set forth in the SWMPP?

Yes No

F. Briefly summarize the stormwater activities planned to meet the goals of this MCM during the next reporting cycle (including an implementation schedule).

Per DEC's recommendation, our MS4 will work with SWCD to inspect all stormwater management basins and determine the level of maintenance required. Maintenance needs will be communicated to the appropriate party for further action.

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

2	0	1	2
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Name of MS4/Coalition

City of Utica

SPDES ID

N	Y	R	2	0	A	3	6	1
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Minimum Control Measure 6. Stormwater Management for Municipal Operations

The information in this section is being reported (check one):

- On behalf of an individual MS4
- On behalf of a coalition

How many MS4s contributed to this report?

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1. Choose/list each municipal operation/facility that contributes or may potentially contribute Pollutants of Concern to the MS4 system. For each operation/facility indicate whether the operation/facility has been addressed in the MS4's/Coalition's Stormwater Management Program(SWMP) Plan and whether a self-assessment has been performed during the reporting period. A self-assessment is performed to: 1) determine the sources of pollutants potentially generated by the permittee's operations and facilities; 2) evaluate the effectiveness of existing programs and 3) identify the municipal operations and facilities that will be addressed by the pollution prevention and good housekeeping program, if it's not done already.

<u>Operation/Activity/Facility</u>	<u>Addressed in SWMP?</u>	<u>Self-Assessment Operation/Activity/Facility performed within the past 3 years?</u>
Street Maintenance.....	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
Bridge Maintenance.....	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
Winter Road Maintenance.....	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
Salt Storage.....	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
Solid Waste Management.....	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
New Municipal Construction and Land Disturbance..	<input type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
Right of Way Maintenance.....	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
Marine Operations.....	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No
Hydrologic Habitat Modification.....	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
Parks and Open Space.....	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
Municipal Building.....	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
Stormwater System Maintenance.....	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
Vehicle and Fleet Maintenance.....	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
Other.....	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

2	0	1	2
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If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition

City of Utica

SPDES ID

N	Y	R	2	0	A	3	6	1
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2. Provide the following information about municipal operations good housekeeping programs:

- Parking Lots Swept (Number of acres X Number of times swept) # Acres

			1	4
--	--	--	---	---
- Streets Swept (Number of miles X Number of times swept) # Miles

1	1	3	8	8
---	---	---	---	---
- Catch Basins Inspected and Cleaned Where Necessary #

		2	9	0
--	--	---	---	---
- Post Construction Control Stormwater Management Practices Inspected and Cleaned Where Necessary #

			1	2
--	--	--	---	---
- Phosphorus Applied In Chemical Fertilizer # Lbs.

--	--	--	--	--
- Nitrogen Applied In Chemical Fertilizer # Lbs.

--	--	--	--	--
- Pesticide/Herbicide Applied # Acres

					.	
--	--	--	--	--	---	--

(Number of acres to which pesticide/herbicide was applied X Number of times applied to the nearest tenth.)

3. How many stormwater management trainings have been provided to municipal employees during this reporting period?

				3
--	--	--	--	---

4. What was the date of the last training?

0	2
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 /

1	4
---	---

 /

2	0	1	2
---	---	---	---

5. How many municipal employees have been trained in this reporting period?

	1	2
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6. What percent of municipal employees in relevant positions and departments receive stormwater management training?

	5	0
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 %

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9,

2	0	1	2
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Name of MS4/Coalition

City of Utica

SPDES ID

N	Y	R	2	0	A	3	6	1
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7. Evaluating Progress Toward Measurable Goals MCM 6

Use this page to report on your progress and project plans toward achieving measurable goals identified in your Stormwater Management Program Plan (SWMPP), including requirements in Part III.C.1. Submit additional pages as needed.

A. Briefly summarize the Measurable Goal identified in the SWMPP in this reporting period.

Ensure that employees are trained in Good Housekeeping methods in order to ensure proper management of our stormwater facilities and infrastructure. Specifically, ensure that employees are made aware of spill response techniques, erosion and sediment control on construction sites, and pollution prevention techniques.

B. Briefly summarize the observations that indicated the overall effectiveness of this Measurable Goal.

Employees received training on spill prevention (OSHA & SWCD) and municipal facilities maintenance (DEC Region 6 staff). Training is also available to address salt/sand storage and application, ditch stabilization and drainage.

C. How many times was this observation measured or evaluated in this reporting period?

			5
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(ex.: samples/participants/events)

D. Has your MS4 made progress toward this measurable goal during this reporting period?
 Yes No
E. Is your MS4 on schedule to meet the deadline set forth in the SWMPP?
 Yes No
F. Briefly summarize the stormwater activities planned to meet the goals of this MCM during the next reporting cycle (including an implementation schedule).

Continue to pursue training opportunities for municipal staff.

MS4 Annual Report Form

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Name of MS4/Coalition

SPDES ID

N	Y	R	2	0	A	3	6	1
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Additional Watershed Improvement Strategy Best Management Practices

The information in this section is being reported (check one):

- On behalf of an individual MS4
- On behalf of a coalition

How many MS4s contributed to this report?

MS4s must answer the questions or check NA as indicated in the table below.

MS4 Description	Answer	Check NA	(POC)
NYC EOH Watershed	-	-	-
Traditional Land Use	1,2,3,4,5,6,7a-d,8a,8b,9	10,11,12	Phosphorus
Traditional Non-Land Use	1,2,3,4,7a-d,8a,8b,9	5,10,11,12	Phosphorus
Non-Traditional	1,2,77a-d,8a,8b,9	3,4,5,10,11,12	Phosphorus
Onondaga Lake Watershed	-	-	-
Traditional Land Use	1,6,7a-d,8a,9	2,3,4,5,8b,10,11,12	Phosphorus
Traditional Non-Land Use	1,6,7a-d,8a,9	2,3,4,5,8b,10,11,12	Phosphorus
Non-Traditional	1,6,7a-d,8a,9	2,3,4,5,8b,10,11,12	Phosphorus
Greenwood Lake Watershed	-	-	-
Traditional Land Use	1,4,6,7a-d,8a,9	2,3,5,8b,10,11,12	Phosphorus
Traditional Non-Land Use	1,4,6,7a-d,8a,9	2,3,5,8b,10,11,12	Phosphorus
Non-Traditional	1,4,6,7a-d,8a,9	2,3,5,8b,10,11,12	Phosphorus
Oyster Bay	-	-	-
Traditional Land Use	1,4,7a-d,9,10,11,12	2,3,5,6,8a,8b	Pathogens
Traditional Non-Land Use	1,4,7a-d,9,10,11,12	2,3,5,6,8a,8b	Pathogens
Non-Traditional	1,4,7a-d,9	2,3,4,5,8a,8b,10,11,12	Pathogens
Peconic Estuary	-	-	-
Traditional Land Use	1,4,7a-d,8a,9,10,11,12	2,3,5,6,8b	Pathogens and Nitrogen
Traditional Non-Land Use	1,4,7a-d,8a,9,10,11,12	2,3,5,6,8b	Pathogens and Nitrogen
Non-Traditional	1,4,7a-d,8a,9	2,3,4,5,8b,10,11,12	Pathogens and Nitrogen
Oscawana Lake Watershed	-	-	-
Traditional Land Use	1,4,6,7a-d,8a,9	2,3,5,8b,10,11,12	Phosphorus
Traditional Non-Land Use	1,4,6,7a-d,8a,9	2,3,5,8b,10,11,12	Phosphorus
Non-Traditional	1,4,6,7a-d,8a,9	2,3,5,8b,10,11,12	Phosphorus
LI 27 Embayments	-	-	-
Traditional Land Use	1,2,3,4,7a-d,9,10,11,12	5,6,8a,8b	Pathogens
Traditional Non-Land Use	1,2,3,4,7a-d,9,10,11,12	5,6,8a,8b	Pathogens
Non-Traditional	1,2,3,4,7a-d,9	5,6,8a,8b,10,11,12	Pathogens

1. Does your MS4/Coalition have an education program addressing impacts of phosphorus/nitrogen/pathogens on waterbodies? Yes No N/A

2. Has 100% of the MS4/Coalition conveyance system been mapped in GIS? Yes No N/A

If N/A, go to question 3.

If No, estimate what percentage of the conveyance system has been mapped so far. %

Estimate what percentage was mapped in this reporting period. %

MS4 Annual Report Form

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Name of MS4/Coalition

SPDES ID

N	Y	R	2	0					
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3. Does your MS4/Coalition have a Stormwater Conveyance System (infrastructure) Inspection and Maintenance Plan Program? Yes No N/A

4. Estimate the percentage of on-site wastewater treatment systems that have been inspected and maintained or rehabilitated as necessary in this reporting period? %

5. Has your MS4/Coalition developed a program that provides protection equivalent to the NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activities (GP-0-08-001) to reduce pollutants in stormwater runoff from construction activities that disturb five thousand square feet or more? Yes No N/A

6. Has your MS4/Coalition developed a program to address post-construction stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre that provides equivalent protection to the NYS DEC SPDES General Permit for Stormwater Discharges from Construction Activities (GP-0-08-001), including the New York State Stormwater Design Manual Enhanced Phosphorus Removal Standards? Yes No N/A

7a. Does your MS4/Coalition have a retrofitting program to reduce erosion or phosphorus/nitrogen/pathogen loading? Yes No N/A

7b. How many projects have been sited in this reporting period?

7c. What percent of the projects included in 7b have been completed in this reporting period? %

7d. What percent of projects planned in previous years have been completed? %
 No Projects Planned

8a. Has your MS4/Coalition developed and implemented a turf management practices and procedures policy that addresses proper fertilizer application on municipally owned lands? Yes No N/A

8b. Has your MS4/Coalition developed and implemented a turf management practices and procedures policy that addresses proper disposal of grass clippings and leaves from municipally owned lands? Yes No N/A

MS4 Annual Report Form

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Name of MS4/Coalition

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SPDES ID

N	Y	R	2	0					
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- 9. Has your MS4/Coalition developed and implemented a program of native planting?
 Yes No N/A

- 10. Has your MS4/Coalition enacted a local law prohibiting pet waste on municipal properties and prohibiting goose feeding?
 Yes No N/A

- 11. Does your MS4/Coalition have a pet waste bag program?
 Yes No N/A

- 12. Does your MS4/Coalition have a program to manage goose populations?
 Yes No N/A

Nail Creek Watershed Preliminary Drainage Report
Oneida County SWCD
October, 2011

Background:

Calvary Cemetery is located in the Town of New Hartford near the Town's border with the City of Utica. It is situated upslope of the City of Utica overlooking the Mohawk Valley. The Cemetery contains the headwaters of Nail Creek, a Class C stream in this area that is a tributary to the Mohawk River. Nail Creek's watershed covers approximately 800 acres in the Town of New Hartford and the City of Utica. The watershed area is nearly evenly broken up between both municipalities. Based on Oneida County's tax parcel data, there are approximately 851 occupied homes in the watershed (7% of these are multi-family homes) 6 apartment complexes, up to 22 businesses (including private offices for doctors, attorneys, etc), one school, one hospital, and a water supply utility for the Town of New Hartford. The population in the watershed is estimated to be just under 3000 people based on 2010 Census Data.

Nail Creek's watershed is highly urbanized. Nearly 70% of the watershed area has been developed with pavement, homes, businesses and other structures. Nail Creek was included on the NYSDEC's 2010 Priority Waterbodies List for the Mohawk Basin. The stream was co-listed with Ballou Creek, a neighboring urbanized stream within the City limits. DEC's PWL for Nail Creek indicates that aquatic life and recreation on the stream are precluded, fish consumption and aesthetics are stressed and habitat/hydrology is impaired as a result of Combined Sewer Overflows, Habitat Modification and Urbanization. In 2007, the City of Utica and neighboring municipalities in Oneida County were issued a Consent Order by the DEC ordering them to address the CSO issues. Therefore, the long-term effects of this remediation effort are yet to be seen. Nevertheless, Nail Creek's quality has been undermined by extensive urbanization. Of the 800 acres in the watershed, over 2/3 is urbanized. There is a 225 acre portion that is largely undeveloped forest and brushland. In addition there are a few fragmented areas of greenspace remaining in the watershed. One of these is the Nail Creek corridor between Oneida Street and Genesee Street known locally as Halleck's Ravine.

In addition to the numerous water quality issues documented in Nail Creek, Utica residents have been plagued by flooding and debris management in the stream. This is particularly evident in the Halleck's Ravine portion of Nail Creek. A shale-lined, wooded gorge, Halleck's Ravine is an anomaly in the urban environs of Utica. Although its official boundaries don't appear on any USGS maps, this report will refer Halleck's Ravine as the portion of Nail Creek located between Oneida Street and the Genesee Street box culvert. This box culvert is located approximately 230 feet east southeast of Genesee Street between Beverly Place and Proctor Boulevard. According to the 1895 USGS topo of the area (Rome-Oriskany Sheet), the stream was an open channel from its headwaters near Forest Hill Cemetery (formerly Devereaux Hill) to the abandoned Chenango Canal. This would be the modern day North South Arterial Highway between the French Road and Burrstone interchanges. The flow then would have proceeded along the Canal to approximately the modern Noyes Street/Lincoln Ave intersection. Then, the channel appears to have taken a turn to the north and flowed as an open stream between Stark Street and Sunset Ave until its outlet in the Mohawk River. Currently, much of this area is paved and much of the channel is enclosed in box culverts and piping. The stream does daylight near the mouth as evidenced by 2010 complaints voiced by residents of Haak Ave. Residents expressed concerns about the conditions in Nail Creek specifically about stagnant water, garbage, mosquitoes and signage regarding pathogens related to CSOs.

Nail Creek and the Halleck's Ravine area have flooded on numerous occasions, however, it was the storm on April 28, 2011 that caused the most serious damage to residents. On the heels of heavy snowfall followed by rains that melted the thick snowpack, the April storm contributed to one of the wettest springs on record in Oneida County. County Executive Picente declared a State of Emergency as communities in the southern portion of the county struggled to clean up after the devastating event. While damage was widespread and included evidence of tornados, the residents of Roosevelt Drive in Utica suffered perhaps the most personal damage. One resident was awakened in the early morning hours by a concerned neighbor who informed her that floodwaters were rising and she needed to evacuate. As floodwater had shifted her home in its foundation, her doors were jammed and she was unable to exit except through a window. Her cellar was filled to the rafters with floodwater and all possessions in the cellar including appliances, furnace, hot water heater, clothing, spare tires and personal items were a total loss. Worse than the loss of items however, was the fact that her foundation wall caved in and a second wall was deemed unsafe and had to be replaced. This resident was unable to return home for a month after the storm as the home was unsafe for occupancy. Others on the street suffered through similar losses of appliances, furnaces, and household necessities. Cars were inundated by floodwater and subsequently totaled. We will discuss the details of the damage further in the report but it is important to acknowledge that Roosevelt Drive is not in a mapped floodzone and has never flooded to this degree in the past.

In order to understand the source of the devastation that occurred on Roosevelt Drive, it is necessary to describe the existing conditions in Nail Creek. The headwaters of the stream are located in the City of Utica south of the Forest Hill Cemetery and west of the highest portions of the Valley View Golf Course. The stream appears to collect at least 2 small tributaries before it flows through a wooded wetland for approximately 1100 feet in the upper portion of Calvary Cemetery. Nail Creek enters a concrete box culvert (5x3) at an un-named access road in the cemetery and is somewhat channelized through a mowed cemetery area for another 950 feet. At this point, the stream enters a wooded ravine where elevation drops 55 feet in 1550 feet. The ravine opens up to the Cemetery's office which has been flooded on numerous occasions by overflows from the channel. In response to continued erosion and flooding, the Cemetery contracted with Grever and Ward Engineers to design a wier system in the channel comprised of gabion baskets. The structure was installed approximately 3 years ago and is now in need of maintenance as the gabions have filled in with debris. In addition, the cemetery's office flooded in the April event. Currently, Nail Creek is within 10 feet of the southern wall of the office.

The stream is directed in a channelized fashion to a 70x44 corrugated metal pipe arch. This structure conveys the flow across an access road to a channelized section of stream that extends for 170 feet to a concrete 5x5 box culvert. Upon first inspection, the culvert appears to be substantially blocked by debris at the entrance. However, the box culvert actually drops down another ~3 feet for the remainder of the length across Oneida Street. The box culvert has approximately 5 feet of head but it should be noted that twin PVC 12 inch pipes drain to the channel from the south side. Therefore, when high flow events occur, it is likely that any flow in the pipes is backed up by rising water in the channel. The 170 foot long channel is approximately 20 feet wide and 6-7 feet deep on both banks. Streambank erosion is evident as are attempts made to correct the problem with rock rip rap and gabion baskets. The stream is very incised and lacks connection to its floodplain. This setup appears to have been in place for decades based on historical aerial photography dating from 1938. There is no longer adequate space available for floodplain connection on the south side due to the presence of grave sites. However, the northern side adjacent to the stream does not appear to be developed at all so floodplain reconnection should be considered. Downstream of Oneida Street, the stream is directed toward an engineered outlet with extensive gabion baskets lining the banks and the streambed for approximately 40 feet.

After the gabion basket section, the stream becomes Halleck's with steep side slopes and a bedrock bed. Several small waterfalls occur along the length of the ravine and elevation drops steadily progressing downstream.

Downstream of Oneida Street but several hundred feet upstream of the Genesee Street, the channel is approximately 15 feet wide at the shale base. The top width is approximately 75 feet. The height of the banks are easily over 20 feet. The woods in the section between Oneida Street and Genesee Street are in poor condition with little to no understory. In addition, the slopes are sliding which is evident by the bending tree trunks. Streambank erosion is evident along the channel.

Continuing to progress downstream toward Genesee Street, the channel begins to lose energy and elevation change at an aging concrete dam structure equipped with steel posts acting as trash guards. This dam is approximately 220 feet upstream of the Genesee Street Box Culvert. The dam is not in good condition and several areas of failure are evident. DEC dam safety personnel do not have any information about the dam, its age, ownership or maintenance. Several feet of shale fragments accumulate on the upstream side of the dam and the stream appears to be aggrading. The EPA defines this process as follows: "Aggradation involves the raising of the streambed elevation, an increase in width/depth ratio, and a corresponding decrease in channel capacity. Over-bank flows occur more frequently with less-than-high-water events. Excess sediment deposition in the channel and on floodplains is characteristic of the aggrading river. Often, the cause of aggradation is an increase in upstream sediment load and/or size of sediment exceeding the transport capacity of the channel. Aggradation can be a result of instability caused by over-widening of the channel with a resultant decrease in stream power and shear stress."

(<http://water.epa.gov/scitech/datait/tools/warsss/aggrad.cfm>). The SWCD has consulted with the NYSDEC dam safety personnel to determine if the dam is helping or hurting the ongoing flood and debris accumulation issues in Nail Creek.

The 220 foot length of channel between the dam and the Genesee Street Box Culvert shows extensive evidence of erosion. Large tree roots are being undermined which will cause them to fail in the near future. This condition is evident on both sides of the channelized stream. The bed in this section of the stream is visibly shale and is several feet lower in elevation than the portion just upstream of the dam where shale fragments continue to accumulate.

The ravine ends at a 5 x 6 concrete box culvert whose top steel grate has sustained damage from being pounded by large debris. This culvert is located approximately 225 feet southeast of Genesee Street on the south side of #2305 which is the Mohawk Valley Endocrinology office. It should be noted that neither the ravine nor the box culvert are currently visible from Genesee Street. The box culvert is located adjacent to the southern corner of the existing white garage in the southeastern corner of property #2305 Genesee Street.

From a hydrologic management standpoint, the two main issues of concern in Halleck's Ravine are high flows and debris. The debris can be divided into 2 categories: shale fragments and woody debris. The issue of high flows is relatively straightforward. Highly urbanized areas contain more pavement than green space. Pavement and other impervious surfaces enable stormwater runoff to flow over hardened surfaces rather than infiltrate into the soil. Therefore, more water is able to get into Halleck's Ravine as a result of urbanization. This also results in higher peak flows. For example, the portion of the Nail Creek Watershed upstream of Oneida Street is approximately 528 acres. This is the area that directly flows from the cemetery into Halleck's Ravine. Looking at the pre-developed conditions based on 1938

aerial photography, the watershed's land use can be divided between approximately 150 acres of open space in good condition (cemetery) and approximately 380 acres of woods. The resulting runoff curve number was 73 and the Time of Concentration was 1.07 hours. This translated into a peak discharge of 358 cfs for the 10 year storm event. In that case, if 3.8 inches of rain would fall, 1.39 inches were runoff. Comparing this to the existing conditions in the same watershed area, the runoff curve number is 76 which takes into account the reduction in wooded areas and the increase in impervious areas. The time of concentration is reduced to .98 hours. This means that the water takes less time to travel from the most distant point in the watershed to the design point. To compare to the pre-developed conditions, the 10 year storm event where 3.8 inches of rain fell now results in 1.59 inches of runoff. More pronounced however, is the difference in peak flows. In the existing condition, the peak discharge for the 10 year storm in the same watershed area is 445 cfs. This is an increase of 1.2 times in the peak flow rate in a matter of 73 years of watershed alteration.

High peak flows can affect the sediment load carried and deposited in a stream. Streams are intended to have floodplains. In a natural setting, a stream will overtop its banks a few times each year into the established floodplain. When a stream is incised such as the situation in Halleck's Ravine, the stream has become disconnected from its floodplain and there is no place for high flows to spill over. The USACE publication "Re-connection of Floodplains with Incised Channels" by Craig Fischenich and James V. Morrow, Jr. , offers a concise description of the floodplains, incised channels and the influence of urbanization on stream balance. (<http://el.erdc.usace.army.mil/elpubs/pdf/sr09.pdf>) . The authors describe how a healthy stream is in a state of dynamic equilibrium. They explain how a stream's morphology is a function of two main variables, runoff and sediment yield. The report states the following: "When long- term erosion exceeds sedimentation, channel incision occurs. Channel modification, usually enlargement or straightening for flood control, is probably the most common cause of incision and also results in the most severe cases. Other causes of channel incision include reduced sediment load due to upstream dams and increased peak flows caused by urbanization of the watershed."

This report seems to clearly indicate that high peak flows in the ravine can cause further erosion in the streambed and on the streambanks. It appears likely that the high peak flows are closely related to the erosion of the shale fragments from the bed and banks of the stream. These shale fragments are a major contributing factor in the frequent blockages upstream of and on the Genesee Street Box Culvert.

The ravine has extremely steep, unstable side slopes. Residences on Beverly Place East are perched atop the slopes and appear precariously close to failure. It should be noted that streambank stabilization can be structural (ie, rip rap or retaining walls), vegetative or a combination of both. Adequately stabilizing the streambanks in Halleck's Ravine may not be possible given limitations with access, space for keying in structural measures and lack of soil for vegetative growth. In addition, methods such as vanes and hooks that seek to divert the thalweg of the stream from the eroding bank will only send the flow to the opposite bank of the ravine and cause more scour. The control of erosion and, therefore, shale fragment deposition needs further study.

The other side of the debris problem in Halleck's Ravine is woody debris. Banks on the downstream side of Oneida Street are strewn with loose woody debris from trees that have fallen or brush that has been deposited as refuse. It's evident that high flows can dislodge these loose trunks and limbs, transporting them to a deposition area like the dam. Once deposited, it does not take long for a significant blockage to occur. Removal of the loose debris during dry weather from these upper banks would not be difficult, would not require permits from DEC and would not likely require heavy equipment - just

several capable chainsaw operators. We recommend this action in order to reduce the available material for deposition in the stream during high flows. Woody debris is also likely coming from the wooded section of channel upstream of the Calvary office. Again, we recommend removal of the loose debris in the areas where high waters can collect it and transport it into the channel.

Damages:

During the April storm event as well as during Irene and Lee (August 28, 2011 and September 7, 2011 respectively), high flows and debris contributed to problems in the Halleck's Ravine area. However, the damage from the April 28th storm was, by far, the most devastating. Blockage occurred at the dam initially but the volume of debris was so large that the channel downstream of the dam also became choked with several feet of shale fragments and woody debris. Debris also blocked the trash rack on the Genesee Street Box Culvert. When the debris blocks the 5x6 concrete box culvert as it did in the April storm, Nail Creek overflows the culvert and inundates Genesee Street, creating a flow path that terminates on Roosevelt Drive. Along the way, homes, businesses roads and a school are also flooded. By far, however, the worst damage was evident on Roosevelt Drive. The actual flooding began at approximately 4:30 am and endured until approximately 9 am. However, the damages caused by the April storm and subsequent flooding damaged furnaces, hot water heaters, cars, garages, equipment stored in garages endured for days after each event. The flooding affects 18 single family homes and 1 apartment building. During the April 2011 event, damages were so extensive to the properties on Roosevelt Drive that a Red Cross relief center was dispatched to the area. The local Home Depot personnel arrived to provide free cleanup materials and assist in the work. Residents lost thousands of dollars in personal possessions and valuables and had to incur the cost of replacement and repair themselves. Many of the residents have filed claims against the City of Utica. There has been no decision made by the City about how to handle the claims. The Mayor has been working with Senator Schumer's office to try to obtain low cost flood insurance for the homeowners should a similar event recur. The City estimates that they have spent tens of thousands of dollars dredging Halleck's Ravine since April of 2011. In an effort to better manage the debris load, the City has recently acquired the garage adjacent to the 5x6 culvert. The City Engineering Department is in the process of designing a new structure for the ravine that will facilitate easier cleanout.

During flooding events, the City closes Genesee Street to enable response from emergency crews. The City's Fire Department provided assistance and cleanup to the Roosevelt residents as well as others in the path of the flood.

Landowner reports:

Please see attached.

Solutions:

It is unrealistic to attempt to convert the existing urbanized watershed back into it's pre-developed form. However, there are stormwater management alternatives that can be applicable. The SWCD, County Emergency Service, the Town of New Hartford, Calvary Cemetery managers and the City's Engineering Department are collaborating on stormwater detention in the Calvary Cemetery's upper reaches near the streams headwaters. While a final design has not been completed, preliminary watershed calculations indicate that a constructed wetland capable of containing 14 acre feet of water would approach control of the 50 year event. We feel that this will result in lower peaks reaching Halleck's Ravine and may result in the reduction of bank erosion. However, given the current condition of the streambanks, it is not likely that they will stabilize anytime soon and shale will continue to be a problem. The constructed wetland will be located upstream of the existing 5x3 concrete box culvert.

We will need permits from the USACE to pursue this project. We will likely also be required to develop a Stormwater Pollution Prevention Plan in order to comply with the NYSDEC's General Permit for Construction Activities. The design is intended to conform with specifications laid out in the NYS Stormwater Management Design Manual.

Regarding woody debris management, the County, City and Town need to reach out to landowners and inform them that the disposal of loose woody debris in their stream exacerbates the flooding conditions downstream.