

MS4 Annual Report Cover Page

MCC form for period ending March 9, 2018

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

SPDES ID
N Y R 2 0 A

MS4 Annual Report Form

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

2	0	1	8
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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

Town of Riverhead

SPDES ID

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Minimum Control Measure 1. Public Education and Outreach

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. Targeted Public Education and Outreach Best Management Practices

Check all topics that were included in Education and Outreach during this reporting period:

- | | |
|---|---|
| <input checked="" type="radio"/> Construction Sites | <input checked="" type="radio"/> Pesticide and Fertilizer Application |
| <input checked="" type="radio"/> General Stormwater Management Information | <input checked="" type="radio"/> Pet Waste Management |
| <input checked="" type="radio"/> Household Hazardous Waste Disposal | <input checked="" type="radio"/> Recycling |
| <input checked="" type="radio"/> Illicit Discharge Detection and Elimination | <input checked="" type="radio"/> Riparian Corridor Protection/Restoration |
| <input type="radio"/> Infrastructure Maintenance | <input type="radio"/> Trash Management |
| <input type="radio"/> Smart Growth | <input checked="" type="radio"/> Vehicle Washing |
| <input type="radio"/> Storm Drain Marking | <input type="radio"/> Water Conservation |
| <input checked="" type="radio"/> Green Infrastructure/Better Site Design/Low Impact Development | <input type="radio"/> Wetland Protection |
| <input checked="" type="radio"/> Other: | <input type="radio"/> None |

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Other

2. Specific audiences targeted during this reporting period:

- | | |
|---|---|
| <input checked="" type="radio"/> Public Employees | <input checked="" type="radio"/> Contractors |
| <input checked="" type="radio"/> Residential | <input checked="" type="radio"/> Developers |
| <input checked="" type="radio"/> Businesses | <input checked="" type="radio"/> General Public |
| <input type="radio"/> Restaurants | <input type="radio"/> Industries |
| <input checked="" type="radio"/> Other: | <input checked="" type="radio"/> Agricultural |

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Other

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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:

- | | | | | | | | |
|--|---------------------|--|---|---|---|---|---|
| <input type="radio"/> Construction Site Operators Trained | # Trained | <table border="1" style="width: 100%; height: 20px;"><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table> | | | | | |
| | | | | | | | |
| <input type="radio"/> Direct Mailings | # Mailings | <table border="1" style="width: 100%; height: 20px;"><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table> | | | | | |
| | | | | | | | |
| <input type="radio"/> Kiosks or Other Displays | # Locations | <table border="1" style="width: 100%; height: 20px;"><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table> | | | | | |
| | | | | | | | |
| <input checked="" type="radio"/> List-Serves | # In List | <table border="1" style="width: 100%; height: 20px;"><tr><td> </td><td> </td><td>1</td><td>9</td><td>2</td></tr></table> | | | 1 | 9 | 2 |
| | | 1 | 9 | 2 | | | |
| <input type="radio"/> Mailing List | # In List | <table border="1" style="width: 100%; height: 20px;"><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table> | | | | | |
| | | | | | | | |
| <input checked="" type="radio"/> Newspaper Ads or Articles | # Days Run | <table border="1" style="width: 100%; height: 20px;"><tr><td> </td><td> </td><td> </td><td> </td><td>1</td></tr></table> | | | | | 1 |
| | | | | 1 | | | |
| <input checked="" type="radio"/> Public Events/Presentations | # Attendees | <table border="1" style="width: 100%; height: 20px;"><tr><td> </td><td> </td><td>1</td><td>5</td><td> </td></tr></table> | | | 1 | 5 | |
| | | 1 | 5 | | | | |
| <input checked="" type="radio"/> School Program | # Attendees | <table border="1" style="width: 100%; height: 20px;"><tr><td> </td><td> </td><td>8</td><td>0</td><td> </td></tr></table> | | | 8 | 0 | |
| | | 8 | 0 | | | | |
| <input checked="" type="radio"/> TV Spot/Program | # Days Run | <table border="1" style="width: 100%; height: 20px;"><tr><td> </td><td> </td><td>3</td><td>6</td><td>5</td></tr></table> | | | 3 | 6 | 5 |
| | | 3 | 6 | 5 | | | |
| <input checked="" type="radio"/> Printed Materials: | Total # Distributed | <table border="1" style="width: 100%; height: 20px;"><tr><td> </td><td> </td><td>1</td><td>8</td><td>0</td></tr></table> | | | 1 | 8 | 0 |
| | | 1 | 8 | 0 | | | |

Locations (e.g. libraries, town offices, kiosks)

S	T	O	P		D	a	y	,		T	o	w	n		H	a	l	l		
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e	i	v	e	r	,		H	w	y		D	e	p	t						

Other:

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MS4 Annual Report Form

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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

SPDES ID
N Y R 2 0 A 0 2 0

3. Web Page cont.: Provide specific web addresses - not home page.

URL

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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.

PEPC to continue to invite regional water quality stakeholders to participate in monthly PEPC meetings to share experiences and lessons learned and take those messages back to the community. PEPC Coordinator, Chairs and members to continue to attend public outreach events to educate the public on the mission and projects of the PEPC and discuss how the community can become further involved. The Coordinator and the PEPC will oversee completion of the QAPP by a contractor and work with NYSDEC and EPA to seek approval of the QAPP. Coordinator and PEPC will seek additional funding for implementation of the program upon QAPP approval. Conduct a sw pollution presentation in front of Roanoke Elementary School Second Grade on Apr 28, 2017. Stage a contest for best rain garden and award kindle for first place and garden buckets with tools donated by local businesses for 2-4 place. Town Supervisor will distribute awards on June 8, 2017.

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

The PEPC has launched a website to host materials for the general public on stormwater management and water quality in the Estuary and provide members with an e-library of educational resources and training tools. Materials produced by members or others and collated to-date include brochures on stormwater management, landscaping best management practices and youth outreach, as well as training materials for municipal staff on illicit discharge detection, stormwater pollution prevent plans and goose management. The Committee agreed to focus on MCM 4 and 5 in 2018, including outreach to the landscaping and architectural community on stormwater BMP design, fertilizer use, irrigation and vegetation maintenance. Events include: Suffolk County Turf and Fertilizer Management Course for the landscape industry; Perfect Earth Project Non-Toxic Landscaping Seminar; and American Institute of Architects (AIA) Peconic Chapter General Meeting. The Coordinator attended events as appropriate Three S.T.O.P. days on May 13-August 26- October 21, 2017

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).

Member meetings open to the public for sharing experiences. Committee members convene bi-monthly in a public forum to share lessons learned on stormwater best management practices. Meeting Summaries are publicly posted on the Committee website. Recent meeting sub-topics have included:

a. Presentation at the February 7, 2018 Meeting by USEPA regarding development of the Water Quality Monitoring Quality Assurance Program Plan (QAPP).

b. Presentation at the March 28, 2018 Meeting by Eileen Keenan regarding the significant new requirements that may be included as part of the revised NYSDEC MS4 Permit.

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2. URL(s) con't.:

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

URL

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N	Y	R	2	0	A	0	2	0
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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	5
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 /

3	1
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 /

2	0	1	8
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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?

0	5
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 /

2	5
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 /

2	0	1	7
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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.

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Name of MS4/Coalition

Town Of Riverhead

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N	Y	R	2	0	A	0	2	0
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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.

PEPC to continue to invite regional water quality stakeholders to participate in bi-monthly PEPC meetings to share experiences and lessons learned and take those messages back to the community. PEPC Coordinator, Chairs and members to continue to attend public outreach events to educate the public on the mission and projects of the PEPC and discuss how the community can become further involved. The Coordinator and the PEPC will oversee completion of the QAPP by a contractor and work with NYSDEC and EPA to seek approval of the QAPP. Coordinator and PEPC will seek additional funding for implementation of the program upon QAPP approval. Conduct a sw pollution presentation in front of Roanoke Elementary School Second Grade on Apr 28, 2017. Stage a contest for best rain garden and award kindle for first place and garden buckets with tools donated by local businesses for 2-4 place. Town Supervisor will distribute awards on June 8, 2017.

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

WATER QUALITY MONITORING QAPP DEVELOPMENT. After an RFP solicitation and proposal review process, a contractor was selected in August 2017 to develop a Water Quality Monitoring Program Quality Assurance Program Plan (QAPP). These are the first steps in developing a water quality monitoring program that can be implemented by citizen science volunteers and municipal staff. The QAPP and the collected data will enable the general public to be involved in stewarding the waters. The Coordinator is currently facilitating the creation of a technical subcommittee and will commence collaboration with the contractor once Suffolk County Procurement has completed the hiring process. NEIGHBORHOOD ASSOCIATION OUTREACH. The Coordinator conducted educational outreach to the Riverhead Polish neighborhood association (Riverhead) and the Riverhead Estates Civic Association (Southampton) to educate on stormwater and solicit input from members on water quality concerns. The Coordinator will continue to schedule events with neighborhood associations in 2018.

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).

PEPC to continue to invite regional water quality stakeholders to participate in Bi-monthly PEPC meetings to share experiences and lessons learned and take those messages back to the community. PEPC Coordinator, Chairs and members to continue to attend public outreach events to educate the public on the mission and projects of the PEPC and discuss how the community can become further involved. The Coordinator and the PEPC will oversee completion of the QAPP by the selected contractor and work with NYSDEC and EPA to seek approval of the QAPP. Coordinator and PEPC will seek additional funding for implementation of the program upon QAPP approval. Conduct a sw pollution presentation in front of Roanoke Elementary School fourth Grade during March 2019.

MS4 Annual Report Form

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N	Y	R	2	0	A	0	2	0
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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.

PEPC to annually update the Peconic Estuary GIS database on land use and storm- and wastewater infrastructure with updated data on outfalls. PEPC members to further explore Southold's methodology on comprehensive wastewater mapping and consider replicating it across all municipalities as a PEPC-wide project, so there is a comprehensive Peconic Estuary septic map using same methodology and most up to date municipal data. The PEPC should consult w/SCDHS on the status of any comprehensive inventory of like kind in progress. The project would be an effective use of funds to address what is a public health and environmental health issue. P

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

The Coordinator and select members of the Committee attended a GIS technical work session on March 30th 2017 with Suffolk and the Environment and Department of Health Services. Participants discussed coordinating future land use and outfall data exchange and on data coding methodology across municipalities and the County for consistency in nitrogen modeling under the Long Island Nitrogen Action Plan The Coordinator will distribute the meeting summary for the March 30th 2017 meeting and the summary to the mid-March conference call with same parties and revisit County progress made in 2017 on the above goal. The Coordinator and Committee GIS Working Group Chair Ross Baldwin in December 2017 strategized the potential for hosting a workshop on inter-municipal data sharing and consistent coding methodology. Baldwin suggested the March 2018 Long Island GIS Conference. The Coordinator will follow up on this with Baldwin in early 2018 The Coordinator worked with Ross Baldwin and members in December 2017 to update the Geographic Information Systems (GIS) data on Peconic Estuary Watershed Land Use and Outfalls. Sag Harbor had new outfall maps produced by D&B Engineers which the Coordinator and John Shaka helped to procure. The current data, publicly available on the Suffolk County GIS Open Data website, are from 2016. <http://data.suffolkgis.opendata.arcgis.com/>.

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).

Continue to Coordinate the updates of GIS Land use coding with the county & other members of PEPC. Meet with other Town GIS departments as necessary.

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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?

		5
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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?

		0
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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:

<input checked="" type="radio"/> Notices of Violation	#	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px; text-align: center;">0</td></tr></table>						0	<input type="radio"/> No Authority
					0				
<input checked="" type="radio"/> Stop Work Orders	#	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px; text-align: center;">0</td></tr></table>						0	<input type="radio"/> No Authority
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<input type="radio"/> Criminal Actions	#	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>							<input checked="" type="radio"/> No Authority
<input type="radio"/> Termination of Contracts	#	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>							<input checked="" type="radio"/> No Authority
<input type="radio"/> Administrative Fines	#	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>							<input checked="" type="radio"/> No Authority
<input type="radio"/> Civil Penalties	#	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>							<input checked="" type="radio"/> No Authority
<input type="radio"/> Administrative Orders	#	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>							<input checked="" type="radio"/> No Authority
<input type="radio"/> Enforcement Actions or Sanctions	#	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>							
<input checked="" type="radio"/> Other	#	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>							<input checked="" type="radio"/> No Authority

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Name of MS4/Coalition

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N	Y	R	2	0	A	0	2	0
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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?

		3
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 2. How many construction projects disturbing at least one acre were active in your jurisdiction during this reporting period?

		2
--	--	---
 3. What percent of active construction sites were inspected during this reporting period? NT

	5	0
--	---	---

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

	5	0
--	---	---

 %
 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.

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6. con't.:

Submit additional pages as needed.

● MS4/Coalition Office

Department

Address

City

Zip

Phone

() -

○ Library

Address

City

Zip

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Phone

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○ Other

Address

City

Zip

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Phone

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

URL

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Town Of Riverhead

SPDES ID

N	Y	R	2	0	A	0	2	0
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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.

Continue to track the number of SWPPPs received and compare the number of resubmittals to previous years. Track the number of annual inspections and determine the % of sites in compliance. Track the number of contractors with ESC training and the % of field personnel with training per company.

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

Tracked the # of SWPPs received on 2017-2018 & compared the number of resubmittals to those received in 2016-2017. The number of resubmittals per project has not declined which can be attributed to the inexperience associated with the newest design manual and consultants new to Riverhead who are not familiar with the general permit. Tracked the # of total inspections annually & determined the % of sites in compliance. Four inspections were conducted with 40% of sites in compliance.

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

		1	2
--	--	---	---

*(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).

The Committee agreed to focus on MCM 4 and 5 in 2018, including outreach to the landscaping and architectural community on stormwater BMP design, fertilizer use, irrigation and vegetation maintenance. Events include: Suffolk County Turf and Fertilizer Management Course for the landscape industry; Perfect Earth Project Non-Toxic Landscaping Seminar; and American Institute of Architects (AIA) Peconic Chapter General Meeting.

MS4 Annual Report Form

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

2	0	1	8
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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

Town of Riverhead

SPDES ID

N	Y	R	2	0				
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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
--	--	---

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?

		0
--	--	---

 %

MS4 Annual Report Form

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

2	0	1	8
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Name of MS4/Coalition

Town Of Riverhead

SPDES ID

N	Y	R	2	0	A	0	2	0
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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.

Monitor a property located directly beside a wetland & ground water is present in puddles on top of the ground most of the time. Make recommendations regarding feasibility of building. Maintain Peconic Riverfront rain garden. Begin meeting with HOAs regarding BMPs for SW abatement. Track number of meetings & attendance annually. Continue to progress through priority drainage issues & clean at least two recharge basins annually. Add sediment forebays when appropriate & feasible. Track whether flooding is reduced in these areas. Add swales along farms which historically have flooding issues. Track areas for reduction of flooding once swales are installed. Improve flood protection measures where coastal and/or low lying neighborhoods border creeks or wetlands. Implement annual cleaning events to remove debris & identify eroded areas & restore. Track effectiveness in flood reduction.

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

Cleaned three recharge basins and 222 drainage structures. Designed a recharge basin to collect the 100 yr storm from 35 acres of sod field. Runoff from this farm has been flooding out the adjacent resident for over 15 years and previously installed BMPs have failed from lack of maintenance. The original controls will be restored to provide some protection to the homeowner while the County makes a decision on whether to allow installation of the basin. The restored controls will be maintained regularly to prevent deterioration & failure. Continue to maintain Peconic Riverfront rain Garden.

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

		1	2
--	--	---	---

(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).

Begin meeting with HOAs regarding BMPs for sw abatement. Track number of meetings and attendance annually. Continue to progress through priority drainage issues and clean at least two recharge basins annually. Add sediment forebays when appropriate and feasible. Track whether flooding is reduced in these areas. Add swales along farms which historically have flooding issues. Track areas for reduction of flooding once swale are installed. Improve flood protection measures where coastal and/or low lying neighborhoods border creeks or wetlands. Implement annual cleaning events to remove debris and identify eroded areas & restore. Track effectiveness in flood reduction.

MS4 Annual Report Form

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

2	0	1	8
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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

Town of Riverhead

SPDES ID

N	Y	R	2	0	A	0	2	0
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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>Self-Assessment</u> <u>Operation/Activity/Facility</u> <u>performed within the past 3</u>			
	<u>Addressed in SWMP?</u>		<u>years?</u>	
	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
Street Maintenance.....	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Bridge Maintenance.....	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Winter Road Maintenance.....	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Salt Storage.....	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Solid Waste Management.....	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No
New Municipal Construction and Land Disturbance..	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Right of Way Maintenance.....	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Marine Operations.....	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Hydrologic Habitat Modification.....	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Parks and Open Space.....	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Municipal Building.....	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Stormwater System Maintenance.....	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Vehicle and Fleet Maintenance.....	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Other.....	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No

MS4 Annual Report Form

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

2	0	1	8
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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

Town Of Riverhead

SPDES ID

N	Y	R	2	0	A	0	2	0
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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

			3	0
--	--	--	---	---
- Streets Swept (Number of miles X Number of times swept) # Miles

		2	1	2
--	--	---	---	---
- Catch Basins Inspected and Cleaned Where Necessary #

		1	0	2
--	--	---	---	---
- Post Construction Control Stormwater Management Practices Inspected and Cleaned Where Necessary #

		1	5	8
--	--	---	---	---
- Phosphorus Applied In Chemical Fertilizer # Lbs.

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

		3	8	4
--	--	---	---	---
- Pesticide/Herbicide Applied # Acres

		2	6	.	
--	--	---	---	---	--

 (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?

				0
--	--	--	--	---

4. What was the date of the last training?

0	4	/	2	8	/	2	0	1	7
---	---	---	---	---	---	---	---	---	---

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

		0
--	--	---

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

		3	%
--	--	---	---

MS4 Annual Report Form

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

2	0	1	8
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Name of MS4/Coalition

Town of Riverhead

SPDES ID

N	Y	R	2	0	A	0	2	0
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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.

PEPC to host joint training sessions for municipal staff. PEPC to explore creating a joint vehicle wash facility. Continue to track miles of road and acres of parking lots swept and pounds cleaned from CBs&LPs. Track volume of debris and sediment cleaned from recharge basins. Create database of Town facilities that are unmanned. Create a method of informing new employees of stormwater issues prior to commencing work. Establish policies and procedures for operations including graffiti removal and simple in-house construction activities.

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

The PEPC has been sharing data and information with the NYSDEC and providing feedback on draft regulations so that municipalities can best achieve MCM targets and general water quality goals. PEPC members submitted public comments on February 3rd to the NYSDEC on the draft State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from MS4s. Three sets of comments were submitted: i. Individual letters from PEPC members including Brookhaven, East Hampton, Riverhead, Shelter Island and Southampton; ii. A letter from the PEPC signed by the Coordinator on behalf of all members; and iii. A joint letter from the Peconic Estuary, Oyster Bay/Cold Spring Harbor, Hempstead Harbor, and Manhasset Bay Protection Committees, Setauket Harbor Task Force, Peconic Estuary Program, Friends of the Bay and the Town of Islip. The signatories represented 42 local govts and one agency focused on improving WQ & restoring watereays around LI

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

			5
--	--	--	---

(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).

Develop a MCM 6 Good Housekeeping training schedule of events on LI and in the region; and follow up with members to ensure staff is provided training at regular time intervals. Distribute existing training materials from other coalitions and partners, and identify areas where new training materials must be developed. Continue to share information on EPA GI seminars and other similar online training sessions to advance water quality protection and the implementation of sw BMPs. PEPC to continue to share with each other their efforts in capacity building and comprehensive mapping so that all members have up-to-date public data of similar quality to make comprehensive planning decisions. PEPC to issue RFP and select a contractor to develop the QAPP. Committee to oversee completion of the QAPP by a contractor, and work with NYSDEC to seek approval of the QAPP in 2017. PEPC to seek additional funding for implementation of the water quality mon prog.

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9, 2 0 1 8

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

Name of MS4/Coalition Toen of Riverhead

SPDES ID
N Y R 2 0 A 0 2 0

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

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

2	0	1	8
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Name of MS4/Coalition

Town of Riverhead

SPDES ID

N	Y	R	2	0	A	0	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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2	0	1	8
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Name of MS4/Coalition

Town of Riverhead

SPDES ID

N	Y	R	2	0	A	0	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

Progress Report for Part IX.C Pathogen Impaired Watershed Improvement Strategy Areas

PERMIT #

Waterbody Name

MS4 Name

Reporting Period Ending (mm/dd/yyyy) / /

Reaffirmation for No Discharge

- The Municipal Separate Storm Sewer System as defined in 40 CFR 122.26(b)(8) and (16) including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains that the owns or operates does not have any outfalls that discharge directly or indirectly through another MS4, into the Waterbody Name**

Watershed Status

Please describe what your stormwater management program is doing to address the source of pathogens to the impaired waterbody

Educating the public through the PEPC by issuing press releases launching a website to host materials for the gen public on SWM and WQ in the Estuary The site is held in tandem with the PEP Develop a brochure on environmentally responsible boating practices in the PE for Harbor Masters to distribute to boaters The PEPC has engaged the DEC on several occasions to share data and info and communicate on the regulatory process so that municipalities can best achieve MCM Targets and gen WQ Clean and maintain the sole outfall in the Flanders Bay watershed Sweep streets regularly which drain to outfall Deleoping a WQ Mon QAPP for Future Monitoring

If you suspect the sources of pathogens that contribute a load to this watershed through the MS4 are something other than the sources listed in the TMDL, please state what you believe to be the suspected sources and how they were determined.

The Riverhead POTW Please see attached correspondence and reports

Public Education & Outreach of Pathogens as the Pollutant of Concern

1. Description of the education program.

Presented the water cycle to 80 3rd graders at Roanoke Elementary School Presentation included impacts of pathogens on the PE The Committee prioritized the General Public Homeowners and Youth as the target audiences for this period and the Coordinator conducted outreach via street fairs festivals and community events including Riverhead Alive on 25 Street Fair Shelter Island Green Expo Sag Harbor Harbor Fest Street Festival Riverhead Polish Association Festival Moustache Brewery Marine Nature Talks with the Cornell Cooperative Extension Marine Program and East Hampton Springs Accabonac Harbor Farmers Market

2. Who are the target audiences and what is the message delivered to each target audience?

Target audience is PEPC members and associated town boards and elementary schools as well The message is that stormwater will enable pollution of the PE if not managed and viewed correctly And will move from one location to another rather quickly to another pollution will continue to impact the PE unless the general public is educated as to the significance of storm water on impacts to the PE

3. How are behavior changes being measured?

Towns and villages represented by PEPC are becoming more proactive in their ed programs by sponsoring public events Public outreach can be measured by an increase in the number of pamphlets distributed each yr and an increase in the number of vehicles participating in STOP Day Public outreach can also be measured by the number of hits on our website compared monthly Also if the PEPC receives mre interest from cvc groups and environmental groups to present a topic or to attend bimonthly meetings

Permit #

4. What are the education plans and goals for the next 6 months?

Maintain and update website for PEPC Continue to share exp and lessens learned with PEPC members and Joint LIPC members Continue press coverage PEPC to develop new ed mtls and activities incl envi resp boating in estuary and GI and SWBMPs Continue pamphlet distribution

Illicit Discharge Detection and Elimination

5. What has been done to actively look in these watersheds for Illicit discharges? Describe procedures and staff that are involved in this reconnaissance.

Other departments which travel throughout the Town and work outdoors on a daily basis ie Building and Grounds Recreation Highway and Street Lighting as well as any complaints from residents will result in an inspection by the SMO If the report is valid the new outfall will be evaluated for any associated impacts and placed in GIS

Answer Either 6a. or 6b.

6a. No Illicit Discharges were discovered during this reporting period Explain how the determination for No Illicit Discharges was made

No complaints from residents and no notifications from Town employees who frequently travel and conduct outdoor activities throughout the Town

6b. Illicit Discharges were discovered during this reporting period What has the municipality determined from the illicit discharges that have been found?

Complete Either 7a. (Map) or 7b. (Written Response)

7a. Attach a map showing where IDDE outfall inspections have occurred this reporting period, which outfalls have illicit discharges, and if the discharge has been removed, where the illicit connection is in the system and how it is entering the system (i.e. Direct connection to the MS4, overland connection, structural failure of the MS4 piping network)

7b. Give the number of inspections performed during this reporting period. # Inspections
(Provide municipal identification #s for all outfalls inspected)

State which outfalls have illicit discharges and whether or not the illicit discharge has been removed. Also describe where the illicit discharge is in the system and how it is entering the system (i.e. Direct connection to the MS4, overland connection, structural failure of the MS4 piping network)

There are no known illicit discharges to Flanders Bay and Tributaries

PERMIT #

10d. What measurable indicators are being used to help determine the effectiveness of these strategies?

11a. Is the goose population an issue in the MS4 areas? If the goose population is not an issue please describe, in the box below, the reasoning behind this viewpoint.

11b. If the geese are a problem, where has it been found to be a problem? Provide a description of the location or a map showing the areas of high population density of geese.

11c. What strategies are in place to manage the population of geese on municipal properties?

11d. What measurable indicators are being used to help determine the effectiveness of these strategies?

Whether resident goose population in the Flanders Bay Watershed is maintained or reduced

Progress Report for Part IX.D

Permit #

Watershed Name

MS4 Name

Reporting Period Ending
(mm/dd/yyyy)

Watershed Improvement Strategy

Describe the strategy to reduce the discharge of nitrogen to this waterbody. Include new sources that may have been identified and any modifications to the strategy to better address new sources.

The historical operation of duck farms is the apparent major nitrogen source from stormwater to Meetinghouse Creek Tidal flushing through MHC which is previously the site of a duck farm serves as a continuous source of nitrogen Monitoring the single Town outfall in MHC should remove this waterbody with tribs from the TMDL list
The Town will vie for mon grants either on its own or with the Peconic Estuary Protection Committee
The PEPC consists of Suffolk CO Brookhaven Town East Hampton Town ToR Shelter Island Town Southampton Town Southold Town Gpt VIlg North Haven Village Sag Harbor Village and NYSDOT

Public Education & Outreach

1. Description of the education program

Sharing experiences lessons learned educational resources comprehensive planning methodologies and information from topical seminars and conferences with other members of the PEPC Public tv weekly for the next year The ToR hosts two Stop Throwing Out Pollutant days annually when the public can properly dispose of household chemicals Lunched a PEPC website PEPC developed a brochure on environmentally responsible boating practices in the PEPC agenda to protect WQ Presents SW pollution to 3rd graders at Roanoke Elementary School

2. Who is the target audience and what is the message delivered to each target audience?

Target audience is the general public and public schl system in the ToR Public tv airs PEPC information weekly Documents short videos PSAs CAC meetings and PEPC conferences are broadcast STOP Days provide public education activites on the proper disposal of household chemicals pharmaceutical products electronics automotive products lawn and garden products Monthly PEPC meetings serve to inform the public about comprehensive planning projects and methodologies for water quality protection and Bi Monthly PEPC meetings serve to inform the public about comprehensive planning projects and methodologies for water quality protection and improvement in the MHC PEPC also shares info from seminars and conferences with the public at Bi monthly meetings

3. Identify how many educational materials have been developed and distributed 1 8 0

4. Identify how many educational materials have been developed and distributed that focus on:

a. understanding the Nitrogen issues 0

b. Septic systems as a source of Nitrogen 5
Non-Traditional MS4

c. Nitrogen concerns with fertilizer use 5

d. Nitrogen concerns with grass clippings and leaves entering the MS4 5

Permit #

5. Education plan and goals for the next 6 months

The PEPC will continue to share with the gen pulic and other LI municipalities lessons learned educational materials comprehensive planning methodologies and information from topical seminarsand conferences The PEPC website has been launched with a restricted accesslibrary of materials and activities to assist municipalities to comply with MCMs 1 thru 6 PEPC members to develop new educational materials and activities on fertilizer and turf mgmt envi respboating in the PE and green infrastructure and stormwater best management practices PEPC to continue issuing press releases to demonstrate regional commitment to wq protection

Illicit Discharge Detection and Elimination

6. Number of Illicit Discharges detected within sewershed of listed waterbody in this reporting period. _____0

a. Number reported in 6 that have been eliminated _____

b. List of Illicit Discharge locations that have not been eliminated in this reporting period and the target date for elimination

Location	Target Date (mm/dd/yyyy)
<input style="width: 100%;" type="text"/>	___/___/_____

Post Construction Stormwater Management

7. Number of Stormwater Management Practices (SMPs) located in sewersheds that drain to the listed waterbody _____10

a. Number reported in 7 that have been inspected in this reporting period _____10

b. Number of SMPs in need of maintenance or rehabilitation _____10

c. Number of SMPs where maintenance or rehabilitation has been performed in this reporting period. _____0

d. Number of SMPs where Nitrogen pollutant problems have been identified. _____0

e. Number reported in 11d where the pollutant problem has been addressed. _____0

f. Who is responsible for performing SMP inspections?

SMPs located within ToR street ROW are maintained by the HWY DEPT SMPs located on ToR property other than streets is maintained by Building and Grounds

Permit #

- g. Is the criteria in Chapter 5 and 6 of the NYS Stormwater Management Design Manual being applied? (If no, please describe any deviations) Y N

- h. State procedures to identify sites with Post Construction Controls that are not functioning as designed (ie, rill erosion, pollutant bypass, outlet structure failure)

Sites not properly functioning are identified through resident complaints or by employees of hwy sanitation or Building and Grounds who continuously travel and work outdoors throughout the town

- 8. Describe the retrofit program. Include the funding sources and design description of retrofits. Identify all retrofits that have been constructed and maintained during this reporting period.

The current retrofit program is based on a programmatic approach by focusing on MCMs 1 2 and 6 There are currently no funding sources and retrofit construction is not applicable to the current program The PEPC is working to obtain a QAPP for all towns to use Riverhead could use the QAPP to characterize nitrogen in MHC

- 9. Post-Construction Stormwater Management plan and goals for the next 6 months

Continue to develop QAPP for MHC watershed monitoring

Municipal Operations Pollution Prevention/Good Housekeeping

- 10. Amount by weight in pounds of turf fertilizer containing Nitrogen that was applied on municipally owned lands in this reporting period. 1 7 5 0

- 11. Describe turf management practices implemented during this reporting period. Include strategies implemented to introduce native plants to reduce fertilization and mowing

1750 pounds of fertilizer containing nitrogen were broadcast on ToR grounds

- 12. Who supervises the application of Turf fertilizer containing Nitrogen?

Steve McKay Landscape Supervisor Building and Grounds Division ToR

Progress Report for Part IX.D

Permit #

Watershed Name

MS4 Name

Reporting Period Ending
(mm/dd/yyyy)

Watershed Improvement Strategy

Describe the strategy to reduce the discharge of nitrogen to this waterbody. Include new sources that may have been identified and any modifications to the strategy to better address new sources.

The historical operation of duck farms is the apparent major nitrogen source from stormwater to Meetinghouse Creek Tidal flushing through MHC which is previously the site of a duck farm serves as a continuous source of nitrogen Monitoring the single Town outfall in MHC should remove this waterbody with tribs from the TMDL list
The Town will vie for mon grants either on its own or with the Peconic Estuary Protection Committee
The PEPC consists of Suffolk CO Brookhaven Town East Hampton Town ToR Shelter Island Town Southampton Town Southold Town Gpt Vilg North Haven Village Sag Harbor Village and NYSDOT

Public Education & Outreach

1. Description of the education program

Sharing experiences lessons learned educational resources comprehensive planning methodologies and information from topical seminars and conferences with other members of the PEPC Public tv weekly for the next year The ToR hosts two Stop Throwing Out Pollutant days annually when the public can properly dispose of household chemicals Lunched a PEPC website PEPC developed a brochure on environmentally responsible boating practices in the PEPC agenda to protect WQ Presents SW pollution to 3rd graders at Roanoke Elementary School

2. Who is the target audience and what is the message delivered to each target audience?

Target audience is the general public and public schl system in the ToR Public tv airs PEPC information weekly Documents short videos PSAs CAC meetings and PEPC conferences are broadcast STOP Days provide public education activites on the proper disposal of household chemicals pharmaceutical products electronics automotive products lawn and garden products Monthly PEPC meetings serve to inform the public about comprehensive planning projects and methodologies for water quality protection and Bi Monthly PEPC meetings serve to inform the public about comprehensive planning projects and methodologies for water quality protection and improvement in the MHC PEPC also shares info from seminars and conferences with the public at Bi monthly meetings

3. Identify how many educational materials have been developed and distributed 1 8 0

4. Identify how many educational materials have been developed and distributed that focus on:

a. understanding the Nitrogen issues 0

b. Septic systems as a source of Nitrogen 5
Non-Traditional MS4

c. Nitrogen concerns with fertilizer use 5

d. Nitrogen concerns with grass clippings and leaves entering the MS4 5

Permit #

5. Education plan and goals for the next 6 months

The PEPC will continue to share with the gen pulic and other LI municipalities lessons learned educational materials comprehensive planning methodologies and information from topical seminarsand conferences The PEPC website has been launched with a restricted accesslibrary of materials and activities to assist municipalities to comply with MCMs 1 thru 6 PEPC members to develop new educational materials and activities on fertilizer and turf mgmt envi respboating in the PE and green infrastructure and stormwater best management practices PEPC to continue issuing press releases to demonstrate regional commitment to wq protection

Illicit Discharge Detection and Elimination

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Location	Target Date (mm/dd/yyyy)
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e. Number reported in 11d where the pollutant problem has been addressed. _____0

f. Who is responsible for performing SMP inspections?

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Steve McKay Landscape Supervisor Building and Grounds Division ToR

Progress Report for Part IX.D

Permit #

Watershed Name

MS4 Name

Reporting Period Ending
(mm/dd/yyyy)

Watershed Improvement Strategy

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Permit #

5. Education plan and goals for the next 6 months

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Progress Report for Part IX.D

Permit #

Watershed Name

MS4 Name

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Steve McKay Landscape Supervisor Building and Grounds Division ToR

Peconic Estuary Protection Committee
Progress Report: April - December 2017
Prepared by Committee Coordinator Rachel Gruzen

December 31, 2017

Listed below are activities of the Peconic Estuary Protection Committee during the period April through December 2017 for tracking Committee and Coordinator Work Plan progress. The list of activities is organized by the six "Minimum Control Measure (MCM)" activities required by the New York State Department Environmental Conservation (NYSDEC) General Permit for Municipal Separate Storm Sewer Systems (MS4s) to facilitate reporting, and includes a section, "Other Committee Activities".

This document succeeds the following previously issued reports:

- *Progress Report: April 2015 – December 2016*; and
- *Progress Report: January – March 2017*.

This Report is complemented by the recently issued report:

- *Report on the Education and Outreach Program Plan: March 9 – December 31, 2017*.

MCM 1: Public Education and Outreach

1. PUBLIC EDUCATION: COMMUNITY EVENTS. See the report titled, *Report on the Education and Outreach Program Plan: Period: March 9 – December 31, 2017*, for a description of education and outreach activities on water quality including both nitrogen and pathogen pollutants. The Committee prioritized the General Public, Homeowners and Youth as the target audiences for this period and the Coordinator conducted outreach via street fairs, festivals and community events including: Riverhead "Alive on 25" Street Fair, Shelter Island "Green Expo", Sag Harbor "Harbor Fest" Street Festival, Riverhead "Polish Association Festival", Moustache Brewery Marine Nature Talks with the Cornell Cooperative Extension Marine Program and East Hampton Springs/Accabonac Harbor Farmer's Market. See the report for estimated quantities of visitors and materials distributed.
2. PUBLIC EDUCATION: S.T.O.P. DAYS. On behalf of all Committee members, the Coordinator attended the "Stop Throwing Out Pollutants (S.T.O.P.) Day" in several towns and distributed educational material to visitors as they registered as well as thanked them on behalf of the municipalities within the Peconic Estuary watershed for recycling and keeping pollutants out of our harbors and bays. The Coordinator attended the Southampton S.T.O.P. Day on October 21st, Shelter Island S.T.O.P. Day on November 4th and the Southold event on November 18th.
3. PUBLIC EDUCATION: SCHOOL EVENTS. The Coordinator participated in local school field trips addressing water quality and spoke to students on stormwater and pollution prevention. Events include: *A Day in the Life of the Peconic Estuary* educational program, October 20th with the Hampton Bays Middle School classes at Squire Pond, including water quality sampling activities and discussion (170 students); and a presentation and poster design event with the Amagansett (East Hampton) elementary and middle schools.
4. EDUCATIONAL MATERIALS. The Coordinator coordinated distribution of the spring 2017 Association Marine Industries Boater's Guide containing information on boater BMPs drafted by the Committee. The Coordinator will coordinate with AMI in January 2018 on any updates for the 2018 Boater's Guide. The Coordinator will produce for spring 2018 use Committee-wide educational materials including a handout with a land use map (per public demand) and information on various stormwater best management practices (BMPs) for the home and community; and a Committee-wide S.T.O.P. Day brochure.
5. PRESS. The Coordinator wrote a guest feature in the South Fork publication, *The Independent*, to be published November 8th. The article was titled, "A Watershed Approach to Restoring the Peconic Estuary".
6. WEBSITE DEVELOPMENT. The Coordinator and the PEP launched the Committee website on the PEP server in September and made various additions throughout the fall. The site has educational resources for the general public on stormwater management and an e-library (under development) for members of educational resources and training tools. Materials collated to-date include information on stormwater management, landscaping best management practices and youth outreach, as well as training materials for municipal staff on illicit discharge detection, stormwater pollution prevent plans and goose management.

MCM 2: Public Involvement and Participation

1. **MEMBER MEETINGS OPEN to the PUBLIC for SHARING EXPERIENCES.** Committee members convened monthly April through September and bi-monthly after that in a public forum to share lessons learned on stormwater best management practices. Meeting Summaries are publicly posted on the Committee website. Recent meeting sub-topics have included:
 - a. Presentation on May 3rd by Suffolk County's Justin Jobin and Ken Zegel, Department of Health Services, on its Septic Improvement Program, Innovative/Alternative Onsite Wastewater Treatment Systems (IA OWTS) and Subwatershed Wastewater Plan;
 - b. NYSDEC Pending Withdrawal of the Pathogen TMDLs for Select Waterbodies;
 - c. Progress made on the twelve Peconic Estuary Program (PEP) Subwatershed Plans produced by Horsley-Whitten 2006-2014 that focus on practices to reduce pollutant loadings and runoff volume; and
 - d. Suffolk County Harmful Algal Bloom (HAB) Action Plan and procedures for reporting HABs to Suffolk County, NYSDEC and Stony Brook University.
2. **NEIGHBORHOOD ASSOCIATION OUTREACH.** The Coordinator conducted educational outreach to the Riverhead Polish neighborhood association (Riverhead) and the Riverhead Estates Civic Association (Southampton) to educate on stormwater and solicit input from members on water quality concerns. The Coordinator will continue to schedule events with neighborhood associations in 2018.
3. **WATER QUALITY MONITORING QAPP DEVELOPMENT.** After an RFP solicitation and proposal review process, a contractor was selected in August to develop a Water Quality Monitoring Program Quality Assurance Program Plan (QAPP). These are the first steps in developing a water quality monitoring program that can be implemented by citizen science volunteers and municipal staff. The QAPP and the collected data will enable the general public to be involved in stewarding the waters. The Coordinator is currently facilitating the creation of a technical subcommittee and will commence collaboration with the contractor once Suffolk County Procurement has completed the hiring process.
4. **COLLABORATION WITH OTHER LONG ISLAND PROTECTION COMMITTEES.** The Committee collaborated with other Long Island Protection Committees, specifically Hempstead Harbor, Oyster Bay/Cold Spring Harbor, Manhasset Bay, Setauket Harbor Task Force and Friends of the Bay to keep abreast of Long Island-wide water quality initiatives and legislation. Committees communicated on the status of federal funding for national estuary programs, advocacy in Washington D.C. for funding and regional water quality events and conferences.

MCM 3: Illicit Discharge Detection and Elimination

GIS LAND USE CODING. The Coordinator and select members of the Committee attended a GIS technical work session on March 30th with Suffolk County's Department of Economic Development and Planning; Department of Information Technology, Division of Planning and the Environment, and Department of Health Services. Participants discussed coordinating future land use and outfall data exchange; and on data coding methodology across municipalities and the County for consistency in nitrogen modeling under the Long Island Nitrogen Action Plan. The Coordinator will distribute the meeting summary for the March 30th meeting (and the summary to the mid-March conference call with same parties) and revisit County progress made in 2017 on the above goal. See meeting summary for further detail. The Coordinator and Committee GIS Working Group Chair Ross Baldwin in December 2017 strategized the potential for hosting a workshop on intermunicipal data sharing and consistent coding methodology. Baldwin suggested the March 2018 Long Island GIS Conference. The Coordinator will follow up on this with Baldwin in early 2018.

The Coordinator worked with Ross Baldwin and members in December to update the Geographic Information Systems (GIS) data on Peconic Estuary Watershed Land Use and Outfalls. Sag Harbor had new outfall maps produced by D&B Engineers which the Coordinator and John Shaka helped to procure. The current data, publicly available on the Suffolk County GIS Open Data website, are from 2016. <http://data.suffolkgis.opendata.arcgis.com/>

MCM 4 & 5: Construction Site Run-Off Control & Post-Construction Stormwater Management

- *The Committee agreed to focus on MCM 4 and 5 in 2018, including outreach to the landscaping and architectural community on stormwater BMP design, fertilizer use, irrigation and vegetation maintenance. Events include: Suffolk County Turf and Fertilizer Management Course for the landscape industry; Perfect Earth Project Non-Toxic Landscaping Seminar; and American Institute of Architects (AIA) Peconic Chapter General Meeting.*

MCM 6: Good Housekeeping

- *The Committee agreed to focus on MCM 6 in 2018, at which time the Coordinator will help plan and participate in municipal staff training events on MCM 6: Good Housekeeping topics, including maintenance of facilities, streets and parks; goose oiling and more.*

Other Committee Activities

1. **MEMBER COMMENTS ON NYSDEC 303(d) LIST.** Select Committee members responded to the New York State Department of Environmental Conservation (NYSDEC) data solicitation for the 2018 Clean Water Act Section 303(d) List, providing public comments before the deadline on September 29th. The Coordinator drafted one letter. Southold's engineer guided other members on the methodology for obtaining and reviewing sanitary surveys for pathogen-impaired waters.
2. **COORDINATION WITH NYSDEC ON PATHOGEN WATER QUALITY SAMPLING FOR A CONDITIONAL SHELLFISH PROGRAM.** The Coordinator communicated with the NYSDEC Shellfish Sanitation Program on the restart of a Conditional Shellfish Program in one pathogen-impaired waterbody per municipality. The Coordinator facilitated with municipal staff, Trustees and the NYSDEC on the selection of a waterbody in East Hampton for the Conditional Program water quality sampling, and communicated with Southampton Trustees on intermunicipal cooperation transporting samples to the NYSDEC. The Coordinator will follow up in 2018 with East Hampton and Southampton Trustees and any need for subsequent training with NYSDEC and sampling November - April. The NYSDEC's Debra Barnes (via communication from Bill Hastback and Lisa Tettlebach) authorized the Coordinator of the Committee to train and perform water quality sampling, if the Committee was interested and could procure insurance for the Coordinator.
3. **INFORMATION EXCHANGE with COMMUNITY PRESERVATION FUND WATER QUALITY COMMITTEES.** The Coordinator has been sharing with the Committee regular updates on the progress and projects of the Community Preservation Fund (CPF) Water Quality Technical Advisory Committees (TAC) in the member municipalities that have such Committees: East Hampton, Southampton and Shelter Island. The three townships are developing septic improvement program legislation and financial incentive programs similar to those issued by Suffolk County.
4. **CONFERENCES.** The Coordinator represented the Committee at the following events. Post –event the Coordinator provided event summaries in writing or orally at Committee meetings, and forwarded distributed materials.
 - a. Long Island Clean Water Partnership "Water We Going to Do?" Conference, May 25th.
 - b. Peconic Green Growth, The Nature Conservancy and Suffolk County Seminar, "The Design of I/A OWTS"
5. **GRANT SUPPORT LETTERS.** The Coordinator wrote on behalf of the Committee a letter of support for Shelter Island's grant application to New York State (NYS) for funds to upgrade the Crescent Beach bathhouse with an I/A OWTS. The Coordinator wrote on behalf of the Committee a letter of support for Sag Harbor's proposal to the East Hampton water quality TAC for funds to install stormwater management bioswales and raingardens.
6. **GRANT OPPORTUNITIES EVALUATED.** The Coordinator produced the document, "Summary of NYS Grant Opportunities under the 2017 Regional Economic Development Corporation (REDC) Consolidated Funding Application (CFA) that Address Water Quality", as well as highlighted and annotated REDC grant guidebooks, and provided various linked grant materials and videos listed on the CFA website. The Coordinator pointed out that millions of dollars are available in funding for stormwater and wastewater infrastructure projects. Of particular note are the following grants: NYS DEC/EFC Wastewater Infrastructure Engineering Planning; NYSDEC Water Quality Improvement Project Plan funding ("Wastewater Treatment Improvement Projects" and "MS4s funds to develop comprehensive system maps"); and Environmental Facilities Corporation Green Innovation Grant.

The Coordinator will assist the Committee in 2018 to apply to the Local Government Efficiency Grant (LGEG) program for funding on the management and implementation of the QAPP for water quality sampling. The grant application deadline is in June and the Coordinator will help the Committee in preparations starting in January with internal deadlines and document deliverables.

Peconic Estuary Protection Committee
Progress Report: January 1 – March 9, 2018
Prepared by Committee Coordinator Patricia Aitken

April 10, 2018

Listed below are activities of the Peconic Estuary Protection Committee during the period January 1 – March 9 for tracking Committee and Coordinator Work Plan progress. The list of activities is organized by the six “Minimum Control Measure (MCM)” activities required by the New York State Department Environmental Conservation (NYSDEC) General Permit for Municipal Separate Storm Sewer Systems (MS4s) to facilitate reporting, and includes a section, “Other Committee Activities”.

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MCM 1: Public Education and Outreach

1. PUBLIC EDUCATION: COMMUNITY EVENTS. See the report titled, *Report on the Education and Outreach Program Plan: Period: January 1- March 9*, for a description of education and outreach activities on water quality including both nitrogen and pathogen pollutants.
2. EDUCATIONAL MATERIALS. The Coordinator is developing new presentations regarding nitrogen impacts on water quality, and on the activities of the Committee. These presentations provide a general background on the composition of the Committee and its activities to facilitate intermunicipal cooperation.
3. PRESS. The appointment of a new Coordinator was featured in Patch.com on February 8, 2018; Peconic Bathtub on February 6, 2018 and the East End Beacon on February 7, 2018.
4. WEBSITE DEVELOPMENT. The Committee website was launched on the PEP server in September 2017. The site has educational resources for the general public on stormwater management and an e-library for Committee members consisting of educational resources and training tools. The website provides training materials for municipal staff on illicit discharge detection, information on stormwater management, landscaping best management practices, as well as stormwater pollution prevention plans, coastal erosion and goose management. The Coordinator will continue to research information and add new materials to the website as appropriate.

MCM 2: Public Involvement and Participation

1. MEMBER MEETINGS OPEN to the PUBLIC for SHARING EXPERIENCES. Committee members convene bi-monthly in a public forum to share lessons learned on stormwater best management practices. Meeting Summaries are publicly posted on the Committee website. Recent meeting sub-topics have included:
 - a. Presentation at the February 7 Meeting by USEPA regarding development of the Water Quality Monitoring Quality Assurance Program Plan (QAPP).
 - b. Presentation at the March 28 Meeting by Eileen Keenan regarding the significant new requirements that may be included as part of the revised NYSDEC MS4 Permit.
2. NEIGHBORHOOD ASSOCIATION OUTREACH. The Coordinator is scheduled to give a presentation to the Riverhead Rotary on May 16. The Coordinator will continue to reach out to neighborhood and civic associations.

3. **WATER QUALITY MONITORING QAPP DEVELOPMENT.** A contractor was selected in August of 2017 to develop a Water Quality Monitoring Program Quality Assurance Program Plan (QAPP). The Coordinator will collaborate with the contractor once the contract is executed and will provide assistance in developing the QAPP and building partnerships to implement the water quality monitoring program.
4. **COLLABORATION WITH OTHER LONG ISLAND PROTECTION COMMITTEES.** The Committee collaborated with other Long Island Protection Committees, specifically Hempstead Harbor, Oyster Bay/Cold Spring Harbor, Manhasset Bay, Setauket Harbor Task Force, Friends of the Bay and the Long Island Sound Study to keep abreast of Long Island-wide water quality initiatives and legislation. Committees communicated on the status of federal funding for national estuary programs, advocacy in Washington D.C. for funding and regional water quality events and conferences. The Coordinator is evaluating how the "GetPumpedLI" website (which was developed by the Nassau County protection committees) be expanded to include Suffolk County.

MCM 3: Illicit Discharge Detection and Elimination

1. The Coordinator researched and uploaded training materials to the PEP Committee website for the Committee's use in training staff and employees in IDDE. Relevant materials will be added to the website as they become available.
2. The Coordinator will maintain contact with the GIS Working Group to update GIS data relevant to the Peconic Estuary Watershed.

MCM 4 & 5: Construction Site Run-Off Control & Post-Construction Stormwater Management

- The Committee agreed to focus on MCM 4 and 5 in 2018, including outreach to the landscaping and architectural community on stormwater BMP design, fertilizer use, irrigation and vegetation maintenance. Events include: Suffolk County Turf and Fertilizer Management Course for the landscape industry; Perfect Earth Project Non-Toxic Landscaping Seminar; and American Institute of Architects (AIA) Peconic Chapter General Meeting. The Coordinator will attend events as appropriate.

MCM 6: Good Housekeeping

- The Committee agreed to focus on MCM 6 in 2018. The Coordinator will help plan and participate in municipal staff training events on MCM 6: Good Housekeeping topics, including maintenance of facilities, streets and parks; goose oiling and more.

Other Committee Activities

1. **MEMBER COMMENTS ON NYSDEC 303(d) LIST.** Select Committee members responded to the New York State Department of Environmental Conservation (NYSDEC) data solicitation for the 2018 Clean Water Act Section 303(d) List, providing public comments before the deadline on September 29, 2017. The Coordinator continues to monitor the Environment Notice Bulletin for notification of the availability of a revised Section 303(d) list and will coordinate comments from the Committee.
2. **GRANT OPPORTUNITIES EVALUATED.** The Coordinator developed a database of grant opportunities available from federal, state, county and private organizations, and will continue to add to this database as new grants are announced.
The Coordinator will provide assistance to Committee members in the development of grant applications.
3. **WEBINAR PARTICIPATION AND SUMMARIZATION.** The Coordinator developed a database of webinars relevant to committee activities such as stormwater, green infrastructure and riparian assessments. The database provides notice both of upcoming webinars, and links to recordings of past webinars.



RE: Flanders Bay and Tributaries



Tettelbach, Lisa (DEC) <lisa.tettelbach@dec.ny.gov>

Wed 4/26, 5:00 PM

Drew Dillingham, Hastback, William (DEC) <william.hastback@dec.ny.gov>



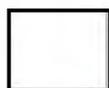
You forwarded this message on 4/26/2017 5:01 PM

Hi Drew,

I am forwarding your letter to DEC's Division of Water, since they are responsible for handling the TMDLs. Shellfish is not directly involved with making any of those decisions. If you have any specific questions or requests, you should reach out to them.

Regarding your request to update the classification of the conditional area, you are correct, that area must remain closed. This is an administrative closure because of the Riverhead Sewage Treatment Plant. The US Food & Drug Administration conducted a hydrographic study, which simulated a spill at the plant. The report supports the closure, should there ever be a malfunction. You are welcome to come into the office to review that report. The Town's request for an updated characterization and an annual sampling schedule cannot be considered due to this classification.

If I can be of further assistance, please let me know.



Lisa P. Tettelbach
Biologist 1, Marine
Shellfisheries
New York State
Department of Environmental Conservation
205 N. Belle Meade Road, Suite 1
East Setauket, NY 11733
631.444.0478
lisa.tettelbach@dec.ny.gov

From: Drew Dillingham [mailto:dillingham@townofriverheadny.gov]

Sent: Tuesday, April 25, 2017 2:43 PM

To: Tettelbach, Lisa (DEC) <lisa.tettelbach@dec.ny.gov>

Cc: Ernesto Rosini <rosini@townofriverheadny.gov>

Subject: Flanders Bay and Tributaries

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Drew E. Dillingham, P.E.
Town Engineer
Engineering Department
Town of Riverhead
1295 Pulaski Street
Riverhead, NY 11901
Phone: (631) 727-3200, ext 604
Fax: (631) 369-7739

 **2016 NATIONAL CHAMPIONS**

29-Flanders Bay & Peconic River

FC at Station:

sample date:	29-1	29-10	29-14	29-15	29-16	29-16D	29-17	29-17A	29-18C	29-19	29-19A	29-19B	29-19C	29-1A	29-2	29-20	29-21	29-22	29-24	29-25	29-26	Samp. Tide	Rain 0-24:	Rain 24-48:	Rain 48-72:	Rain 72-96:	
1/13/2016																						>.25	FLOOD	0.03	0.00	0.17	0.12
2/16/2016																						>.25	LOEBB	0.64	0.00	0.00	0.00
3/9/2016	2.9	2.9	2.9	2.9	2.9	2.9	2.9		2.9	2.9	2.9	2.9	2.9		2.9		2.9	2.9	2.9	2.9	2.9	Dry	HIEBB	0.00	0.00	0.03	0.04
3/29/2016	23.0	2.9	2.9	3.6	3.6	2.9	2.9		2.9	2.9	2.9			2.9	3.6		2.9	2.9	2.9	2.9	2.9	>.25	LOEBB	0.96	0.00	0.00	0.00
4/27/2016												3.6										>.25	Low SI	0.08	0.25	0.00	0.00
5/11/2016	3.6	2.9	2.9	2.9	2.9	2.9	2.9		3.6	2.9	2.9	3.6		2.9		2.9	2.9	2.9	2.9	2.9	2.9	Dry	LOEBB	0.06	0.01	0.00	0.00
6/9/2016		2.9	2.9	2.9	3.6	3.6	2.9		2.9	2.9	3.0			9.1		2.9	9.1	2.9	2.9	3.6		>.25	LOEBB	0.28	0.00	0.00	0.26
7/27/2016	2.9	2.9	2.9	9.1	2.9	3.6	7.3		9.1	2.9	23.0			3.6		9.1	9.1	2.9	2.9	2.9		Dry	LOEBB	0.00	0.06	0.00	0.00
8/24/2016	43.0	2.9	2.9	3.6	2.9	7.3	2.9		9.1	2.9	9.1		9.1	2.9	23.0		2.9	15.0	2.9	2.9	23.0	>.25	LOEBB	0.00	0.00	1.04	0.00
10/13/2016	2.9	2.9	2.9	3.6	3.6	3.6	2.9	2.9	9.1	2.9	3.6	93.0		2.9	2.9	2.9	2.9	3.0	2.9			>.25	HIEBB	0.00	0.00	0.00	1.17
Station:	29-1	29-10	29-14	29-15	29-16	29-16D	29-17	29-17A	29-18C	29-19	29-19A	29-19B	29-19C	29-1A	29-2	29-20	29-21	29-22	29-24	29-25	29-26						
Count:	6	7	7	7	7	7	7	1	7	7	7	4	2	3	6	1	7	7	7	7	7	6					

Classifications (font color): Green = Certified (Open) year-round Red = Uncertified (Closed) year-round; Conditional stations included Blue = Seasonal

Black value with orange highlight denotes samples do not meet NSSP and NYSDEC criteria
 Red value denotes samples do not meet NSSP and NYSDEC criteria for certified areas.
 Purple value denotes samples meeting criteria but approaching threshold levels.

Blue rainfall value denotes rainfall amounts meeting Adverse Pollution Condition (APC) criteria - min of 0.25 inches

DatePrepared: 12/9/2016 1:25:36 PM

sample date:	29-2A	29-4P	29-5	29-6A	29-6B	29-7	29P-1	29P-STP											Samp. Tide	Rain	Rain	Rain	Rain	
																			Cond:	Stage:	0-24:	24-48:	48-72:	72-96:
1/13/2016							9.1												>.25	FLOO	0.03	0.00	0.17	0.12
2/16/2016							2.9												>.25	LOEB	0.64	0.00	0.00	0.00
3/9/2016	2.9				2.9	2.9	2.9	3.6											Dry	HIEBB	0.00	0.00	0.03	0.04
3/29/2016	2.9						3.6												>.25	LOEB	0.96	0.00	0.00	0.00
4/27/2016																			>.25	Low Sl	0.08	0.25	0.00	0.00
5/11/2016	2.9	2.9	2.9	2.9	2.9	2.9	3.6												Dry	LOEB	0.06	0.01	0.00	0.00
6/9/2016							93.0												>.25	LOEB	0.28	0.00	0.00	0.26
7/27/2016	2.9	23.0			2.9	2.9	43.0												Dry	LOEB	0.00	0.06	0.00	0.00
8/24/2016	2.9	9.1			2.9	23.0		240.0											>.25	LOEB	0.00	0.00	1.04	0.00
10/13/2016							3.6												>.25	HIEBB	0.00	0.00	0.00	1.17
Station:	29-2A	29-4P	29-5	29-6A	29-6B	29-7	29P-1	29P-STP	29-STP															
Count:	5	3	1	1	4	4	1	8	1															

Classifications (font color): Green = Certified (Open) year-round Red = Uncertified (Closed) year-round; Conditional stations included Blue = Seasonal

Black value with orange highlight denotes samples do not meet NSSP and NYSDEC criteria
 Red value denotes samples do not meet NSSP and NYSDEC criteria for certified areas.
 Purple value denotes samples meeting criteria but approaching threshold levels.

Blue rainfall value denotes rainfall amounts meeting Adverse Pollution Condition (APC) criteria - min of 0.25 inches

DatePrepared: 12/9/2016 1:25:36 PM



**ENGINEERING DEPARTMENT
STORMWATER MANAGEMENT OFFICE**

1295 Pulaski Street
Riverhead, New York 11901
(631)727-3200, Ext. 201
Fax: (631)369-7739

Drew Dillingham, P.E.
Town Engineer
Ernesto Rosini, P.E.
Assistant Town Engineer

email: dillingham@townofriverheadny.gov

email: rosini@townofriverheadny.gov

April 25, 2017

Ms. Lisa P. Tettelbach
Biologist 1
Marine Shellfisheries
New York State Department of Environmental Conservation
205 N. Belle Meade Road, Suite 1
East Setauket, NY 11733

Re: Flanders Bay and Tributaries

Dear Ms. Tettelbach,

The Stormwater Management Office, Engineering Department of the Town of Riverhead (the Town) is referencing the following three documents relative to this letter:

- Flanders Bay, Shellfish Growing Area #29, Triennial Water Quality Data Evaluation 2012-2016, February 2017;
- 29 – Flanders & Peconic River, Date Range 1/2016-12-2016, Fecal Coliform; and
- New York State Department of Environmental Conservation, Memorandum, To: Flanders Bay Water Quality File; From: Lisa P. Tettelbach, Marine Biologist I; Subject: 2015 Annual Maintenance Report; and January 13, 2016

The purpose of this letter is to request updated characterization for fecal coliform bacteria in Flanders Bay and Tributaries. The Town is requesting characterization to accurately identify an appropriate pathogen Total Maximum Daily Load (TMDL) for Flanders Bay and Tributaries (FB and Tribs) as well as to potentially open presently closed shellfish beds in the Conditional and Uncertified Areas.

Based on the Town's review of the reference documents identified above the Uncertified portion of Flanders Bay (west of the Uncertified/Conditional Area Boundary) is administratively closed year-round. This Administrative Closure is due to the Town's wastewater treatment plant (WWTP) which is located on the Peconic River. The Town is requesting updated characterization of the Uncertified Area to potentially achieve Conditional Certification based on 30 continuous samples per New York State Department of Environmental Protection (NYSDEC) requirements. Should the NYSDEC deem this area Administratively Closed regardless of any updated sampling results this area should not have a TMDL as it cannot be reopened for shellfishing due to administrative reasons. The Town would sample the Uncertified Area of FB and Tribs should the NYSDEC designate this area as Conditional.

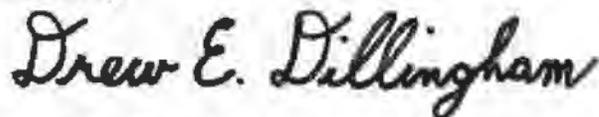
The Town is requesting updated characterization of the Conditional Area to potentially achieve opening the shellfish beds year round. Again, an Administrative Closure of the Conditional Area could prevent opening either seasonally or year round. The Conditional Area is located between the Uncertified/Conditional Area Boundary and the Conditional Area/Certified Boundary.

Riverhead is interested in establishing an annual schedule when the Conditional Area could be reopened in order to begin a targeted sampling program. Year-round Conditional Certification based on sampling results would dictate distributing the sampling schedule over a year. Administrative Closure during the summer months (assuming the flow and the attendant risk to the public would be much greater during the summer) would require the Town to sample beyond the required closure period. As noted previously, seasonal closure of the Conditional Area for administrative reasons would relieve this area of Pathogen Impaired status for the closure period.

The Town of Riverhead is committed to developing a sampling strategy that will maximize potential shellfish bed reopenings while obtaining data that can accurately define an appropriate TMDL for Flanders Bay and its Tributaries.

If you have any questions, please feel free to contact me at (631) 727-3200, extension 604.

Sincerely,



Drew E. Dillingham, P.E.
Town Engineer
Stormwater Management Officer

Cc: Ernesto Rosini, P.E., Town of Riverhead



**ENGINEERING DEPARTMENT
STORMWATER MANAGEMENT OFFICE**

1295 Pulaski Street
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Drew Dillingham, P.E.
Town Engineer
Ernesto Rosini, P.E.
Assistant Town Engineer

email: dillingham@townofriverheadny.gov

email: rosini@townofriverheadny.gov

May 2, 2017

Mr. Kenneth Kosinski
Chief
New York State Department of Environmental Conservation
Division of Water
Bureau of Water Resource Management
New York City Watershed Section
625 Broadway
Albany, NY 12233-3508

Re: Flanders Bay and Tributaries

Dear Mr. Kosinski,

The Stormwater Management Office, Engineering Department of the Town of Riverhead (the Town) is requesting the New York Department of Environmental Conservation (NYSDEC) to rescind the Total Maximum Daily Load (TMDL) for Pathogens in Flanders Bay and Tributaries (FB and Tribs).

Attached are the following documents for your reference relative to this correspondence:

- Flanders Bay, Shellfish Growing Area #29, Triennial Water Quality Data Evaluation 2012-2016, February 2017;
- 29 – Flanders & Peconic River, Date Range 1/2016-12-2016, Fecal Coliform;
- New York State Department of Environmental Conservation, Memorandum, To: Flanders Bay Water Quality File; From: Lisa P. Tettelbach, Marine Biologist I; Subject: 2015 Annual Maintenance Report; and January 13, 2016;

- April 25, 2017 letter from the Town to Ms. Tettelbach regarding FB and Tribs. The purpose of the Town's April 25 letter is to request updated characterization for fecal coliform bacteria in FB and Tribs from NYSDEC Marine Shellfisheries. The Town was requesting characterization to accurately identify an appropriate pathogen TMDL for FB and Tribs as well as to potentially open presently closed shellfish beds in the Conditional and Uncertified Areas; and
- April 26, 2017 email from Lisa Tettelbach, Marine Shellfisheries, New York State Department of Environmental Conservation (NYSDEC) to the Town regarding her comments to an April 25, 2017 letter from the Town regarding FB and Tribs.

Ms. Tettelbach's letter to the Town reads, "Regarding your request to update the classification of the conditional area, you are correct, that area must remain closed. This is an administrative closure because of the Riverhead Sewage Treatment Plant. The US Food & Drug Administration conducted a hydrographic study, which simulated a spill at the plant. The report supports the closure, should there ever be a malfunction. The Town's request for an updated characterization and an annual sampling schedule cannot be considered due to this classification."

Because the NYSDEC deems the Uncertified and Conditionally Certified Areas as Administratively Closed regardless of any updated sampling results this area should not have a TMDL as it cannot be reopened for shellfishing due to administrative reasons.

Based on the Town's review of the reference documents identified above the Uncertified portion of Flanders Bay (west of the Uncertified/Conditional Area Boundary) is administratively closed year-round. This Administrative Closure is due to the Town's wastewater treatment plant (WWTP) which is located on the Peconic River. The Town requested updated characterization of the Uncertified Area to potentially achieve Conditional Certification based on 30 continuous samples per New York State Department of Environmental Protection (NYSDEC) requirements.

The Town also requested updated characterization of the Conditional Area to potentially achieve opening the shellfish beds year round. Again, an Administrative Closure of the Conditional Area would prevent opening either seasonally or year round. The Conditional Area is located between the Uncertified/Conditional Area Boundary and the Conditional Area/Certified Boundary.

The Town was interested in establishing an annual schedule when the Conditional Area could be reopened in order to begin a targeted sampling program. Year-round Conditional Certification based on sampling results would dictate distributing the sampling schedule over a year. Administrative Closure during the summer months (assuming the flow and the attendant risk to the public would be much greater during the summer) would require the Town to sample beyond the required closure period. As noted previously, seasonal closure of the Conditional Area for administrative reasons would relieve this area of Pathogen Impaired status for the closure period.

The Town of Riverhead was committed to developing a sampling strategy that will maximize potential shellfish bed reopenings while obtaining data that can accurately define an appropriate TMDL for Flanders Bay and its Tributaries.

Ms. Tettelbach's letter to the Town reads, "Regarding your request to update the classification of the conditional area, you are correct, that area must remain closed. This is an administrative

closure because of the Riverhead Sewage Treatment Plant. The US Food & Drug Administration conducted a hydrographic study, which simulated a spill at the plant. The report supports the closure, should there ever be a malfunction. The Town's request for an updated characterization and an annual sampling schedule cannot be considered due to this classification."

Because the NYSDEC deemed the Uncertified and Conditionally Certified Areas Administratively Closed regardless of any updated sampling results these areas should not be assigned a TMDL as they cannot be reopened for shellfishing due to administrative reasons.

Thank you for your consideration in this matter. If you have any questions, please feel free to contact me at (631) 727-3200, extension 604.

Sincerely,

A handwritten signature in black ink that reads "Drew E. Dillingham". The signature is written in a cursive, slightly slanted style.

Drew E. Dillingham, P.E.
Town Engineer
Stormwater Management Officer

Attachments

Cc: Ernesto Rosini, P.E., Town of Riverhead

Flanders Bay
Shellfish Growing Area #29
Triennial Water Quality Data Evaluation
2012-2016

February 2017

New York State Department of Environmental Conservation
Bureau of Marine Resources
205 N. Belle Meade Road, Ste 1
East Setauket, NY 11733

INTRODUCTION

This report reviews the water quality data for Flanders Bay, Shellfish Growing Area (SGA) #29, collected from January 2012 through December 2016.

I. Area Description

Flanders Bay (FB) is located at the western end of the Peconic Bay Estuary System. It is the Great Peconic Bay between the twin forks of Long Island. The boundary line separating Flanders Bay and Great Peconic Bay runs from Red Creek Point in the Town of Southampton (on the south) and Miamogue Point in The Town of Riverhead (on the north). See MAP 1. Flanders Bay bottom land is split between Southampton and Riverhead, with an imaginary line drawn from the Peconic River through Flanders until it reaches Great Peconic Bay; essentially cutting the area in half. Although Flanders is situated between these two towns, it is considered New York State bottom land and shellfish harvesting is available for all New York State residents.

The average depth of Flanders Bay is approximately **6.0 feet**. The Bay has a tidal range of **-0.4 to 4.0 feet** and is affected by semi-diurnal tides (South Jamesport tide table). The Bay receives tidal flow from the following tributaries: Kings Creek (also known as 'Hawks'), Miamogue Creek, Reeves Creek, Meetinghouse Creek, Terrys Creek, Sawmill Creek, Reeves Bay, Goose Creek, Birch Creek, Mill Creek, Hubbard Creek and the Peconic River.

The Peconic River is the largest tributary discharging into Flanders Bay and it begins in the area of Calverton. It flows for approximately ten miles into the western portion of Flanders Bay. The River receives discharge from various storm drains during rainfall events. Also, small adjacent bodies of water drain into the river through culverts and pipes. The Riverhead Sewage Treatment Plant (STP) discharges into the Peconic River, just west of County Road (CR) 105, from the north side of the river (see Map 1). This also contributes a considerable amount of freshwater into Flanders Bay.

Flanders Bay is approximately **3,158 acres** (GPS calculated). Approximately half (**1,575 acres**) of the shellfish growing area is uncertified year-round for the harvest of shellfish. The uncertified portion of the bay includes all the area located west of a line drawn from Simmons Point to Goose Creek Point and the following tributaries: Birch Creek, Mill Creek, Hubbard Creek, Goose Creek and Reeves Creek on the south side, and Kings Creek, Miamogue Lagoon, Reeves Creek, Meetinghouse Creek, Terry's Creek and Sawmill Creek on the north side; including all of the Peconic River. The water quality of Flanders Bay is tidally influenced by the larger area of Great Peconic Bay and any dilution provided by its larger area of 19,060 acres.

A portion of FB is seasonally uncertified during the period May 1 through November 30, (both dates inclusive), each year. Prior to September of 2010, there were two small areas that were seasonally uncertified: a radial closure around the mouth of Kings Creek on the north shore of the bay, just east of Miamogue Point; and all of Hubbard Creek. These two areas totaled approximately 61 acres. In September 2010, proposed regulations were submitted to recommend the removal of the radial closure around Kings Creek. Water quality had improved and data supported reopening that area. On March 16, 2011, the radial closure around the mouth of Kings Creek was permanently removed. All of Kings Creek remains uncertified year-round. The legal descriptions of the closures in Flanders Bay are located on the NYSDEC website at:

[http://www.dec.ny.gov/outdoor/103483.html#Flanders Bay4](http://www.dec.ny.gov/outdoor/103483.html#Flanders_Bay4) and attached as Appendix 1 and Map 2.

The *geographical features* of FB are primarily low lying with most of the adjacent shoreline at or near water level. *Sandy beach* characterizes most of the shoreline although *tidal wetlands* are

common on the southern shore. There are two areas of undeveloped Suffolk County parkland adjacent to Birch Creek and Hubbard Creek on the southern shore. There is also an area of County parkland (Indian Island County Park) on the northeast shore of the Peconic River which contains a golf course.

II. Potential Pollution Sources

Pollution sources affecting the FB have not changed significantly since the last triennial water quality report written in September 2014. A complete listing of the actual and potential pollution sources that may affect the Flanders Bay growing area is included in the *Shoreline Survey, Pollution Source Survey, Flanders Bay Shellfish Growing Area #29, August 2003.*

III. Sampling Plan

Water sampling stations are established for routine water quality monitoring in Flanders Bay near potential pollution sources (e.g., tributary creeks) and in open areas of the bay as well. Sampling station locations have remained unchanged since 1995 (Map 1). There are 17 sampling stations in the certified portion of the bay (1, 2, 2A, 10, 14, 22, 26, 18C, 15, 16D, 16, 17, 19A, 19, 25, 21, and 24 (Great Peconic Bay station 6.1, which is not taken anymore and why station 21 has a very high N in the warm evaluation) and one station in the seasonal portion of Flanders Bay (19B).

The **STP** station, which is in the uncertified area of the Peconic River, is generally sampled no matter what section of FB is sampled. There were once rainfall, conditional shellfishing programs in Flanders Bay, but water quality was not meeting program criteria, so the Town does not request this area anymore. Most of the stations were located in Reeves Bay and from Iron Point to Simmons Point. That hasn't happened since 2006-07. These stations remain closed because of their proximity and the location of the Riverhead Sewage Treatment Plant in the Peconic River. This is a requirement of the National Shellfish Sanitation Program (NSSP) and is required to protect public health; in addition to poor water quality.

There are 13 stations in the uncertified area that are never part of the conditional program (5, 5A, 5B, 5C, 6, 6C, 6A, 6B, 7, 8, 11, 20, and 4/P4) and 8 stations in the uncertified, Peconic River run (P1, P2, P3, P4, P5, P6, P7, and P8). Station 4, overlaps both areas and is sampled when the regular uncertified portion is sampled.

As mentioned before, Shellfisheries tries to collect a water sample from the Riverhead **STP** outfall each time the Flanders Bay growing area is monitored. If there is a malfunction at the **STP**, plant personnel or DEC's Spills staff will notify the Shellfish Sanitation Unit of the problem. There is now a 2 hour requirement that DEC is notified when there is a problem or malfunction at the plant.

The Riverhead Plant has a monthly average plant flows are around .780 MGD and in the summer they can increase to .850 MGD-.900 MGD. Some of the fluctuations are due to rain events. There are sometimes issues with inflow and infiltration that the plant is addressing. There was a bunker fish kill as a massive die off turtles in May 2015. NYSDEC's Water Division was been in touch with the plant to make sure everything was in compliance at the plant and it was.

In 2015, the plant started a 24 million dollar upgrade to comply with the new TMDL's for the Peconic Estuary Program; this includes tertiary treatment to remove nitrogen. They were about 50-60% complete in the summer of 2015 and finished at the end of the summer 2016. They also started irrigating the Indian Island Golf Course in Riverhead, in the spring of 2016. This was communication from the sewage treatment plant manager in 2015-2016.

1. Adverse pollution conditions (APC). APC was not used to evaluate this area. In previous evaluations, the year-round total and fecal coliform analyses were completed using APC data. Since the incorporation of SRS in 1997, sufficient SRS data have been collected to conduct SRS analyses.

STOPPED HERE

In October 1989, the Department instituted emergency closure procedures after extraordinary rainfalls. When an area receives more than 3.0 inches of rain in any 24-36 hour period (see attached "Notice to Shellfish Harvesters", Appendix 2), it would be closed to shellfish harvesting immediately. Shellfishing is suspended and can only be reopened after water quality has been demonstrated to meet criteria area criteria and shellfish have adequate time to naturally cleanse themselves of potential pathogens.

2. Random sampling. Systematic random sampling (SRS) was employed in studying this area. The year-round and seasonal analyses were completed using the SRS method. (see Tables 1, 2, and 3). SRS requires six (6) sets of data per year and 30 data points for this triennial evaluation. Seasonally uncertified stations were analyzed during the period of time that they were open for harvest (December 1 through April 30, each year). Sufficient SRS data were evaluated for the year-round, cold and warm seasonal evaluations. (see SRS and seasonal evaluation discussions below).

In January 1997, the Shellfish Growing Area Classification Unit switched over to SRS to monitor water quality in all of our shellfish growing areas. With SRS, monitoring can be scheduled months ahead and sampled regardless of rainfall. Water sampling runs for certified and seasonally uncertified areas are planned in advance so that effects of random, nonpoint pollution events can be captured if they occur.

This growing area is affected by randomly occurring, intermittent events (stormwater runoff after rainfall) and is not impacted by discharges from sewage treatment facilities or combined sewer overflows. (see Appendix 3). Therefore, SRS can be used for this area. Information is available at the Interstate Shellfish Sanitation Conference website:

http://www.issc.org/client_resources/2007%20nssp%20guide/section%20ii%20chap%20iv.pdf.

Initially, the SRS sampling year was divided into eight segments. In 1998, the year was divided into seven week segments to try and ensure that each area is sampled at least six times by the end of the year. The strategy now is (3) eight week segments and (4) seven week segments. Sampling runs are scheduled by the unit's biologists prior to the start of each calendar segment. The only environmental condition considered during sample planning is the tide cycle. *Ebbing tides are still a requirement and are considered APC.*

Biologists target sampling to occur during the ebb tide but must also ensure that the tidal stage is not so low in some areas that boat navigation is not possible. One day per week is also maintained for scheduling makeup runs when weather conditions or other unexpected events, such as equipment failure or staffing shortages, precluded successful completion of a planned sample run.

Other limitations on sample planning include the state's current restriction on the use of overtime by Department employees, which was stringently implemented beginning in 2010 and resulted in significant impacts to the sampling program. To adhere to the current policy, sample collection efforts must occur within the normal workday, including travel time to and from the growing area. Once water samples are collected, they cannot be held for more than thirty (30) hours prior to laboratory processing, which uses a modified A-1 method to estimate the most probable number (MPN) of fecal coliform bacteria present in each sample.

This method requires 24 hours from the time the procedure is initiated to obtain results. To ensure the entire process of sample collection and analysis can be concluded within the standard Monday through Friday workweek, sample collection is limited to a Monday through Thursday schedule. Trips conducted on Thursday must also be concluded, with samples returned to the laboratory, by 2 pm. As a result, sample scheduling is limited to approximately 3.5 days per week instead of the previously utilized five days. When compounded with the need to target the ebb tide, these restrictions severely limit sampling opportunities and hamper the unit's ability to make up sampling runs that are cancelled due to weather conditions or unforeseen events.

SRS evaluations require 30 SRS data points and determine the **Geometric Mean and 90th percentile** (%tile), instead of the median and % >330 (total) or 49 (fecal) data evaluations. Ebbing tides are still a requirement of SRS and are considered an adverse pollution condition (APC). All water samples were collected at various stages of ebb tide and analyzed during year-round, cold and warm weather seasons. (see Tables 1, 2, and 3).

Colder months bring extreme weather including heavy winds and the holiday season, sometimes making it difficult to get out on the water to sample. Exclusive of the SRS sampling, seasonal areas still require a sample for each month that the area is open, during the seasonal period. This significantly increases the number of samples required from an area on a yearly basis.

Precipitation data for this evaluation were collected from multiple sources. Early on, rainfall was collected from the Riverhead Wastewater Treatment Plant. They recorded readings daily, seven days a week at 0800 hours, but their reliability has waned over the years. Reliable readings are recorded from the online weather site called Weather Underground, <http://www.wunderground.com/personal-weather-station/dashboard?ID=KNYRIVER5>, at Paumanok Vineyards in Aquebogue, New York. Supplemental readings have been collected from other Riverhead Wunderground sites. Rainfall and tide information is found in each of the analyses.

In 1989, the Shellfish Sanitation Unit adopted a policy to temporarily close shellfish growing areas affected by "extraordinary rainfall events." This is defined as the accumulation of more than 3.00 inches of liquid precipitation within a continuous 24 to 36 hour period. Flanders Bay was affected by four temporary emergency rainfall closures during this evaluation period: October 2012 (Hurricane Sandy); June 2013 (Tropical Storm Andrea); March 31-April 10, 2014, but only Hubbard, Squire and Red Creek. The growing area is sampled and tested after each emergency closure to determine that the areas meet certified criteria to reopen for the safe harvest of shellfish. Any emergency data with rainfall greater than 3.00 inches of rain are always excluded from the **SRS** data analyses. See Appendix 2.

IV. Data Analysis

In February 2003, the New York State Shellfish Sanitation Program transitioned to using the **Fecal Coliform (FC)** standard to evaluate Flanders Bay. This will be the sixth triennial evaluation performed solely with **FC** data. It should be noted that there is no fecal coliform data for most of 1998, 1999 and all of 2000; fecal coliform analyses were suspended in August 1998 through November 2000 to reduce the workload in response to a staffing shortage in the laboratory.

Based on analyses of bacteriological data collected using **SRS**, water quality at a sampling station is acceptable if the Geometric Mean fecal coliform (**FC**) value is **14** MPN/100mL or less **AND** the 90th percentile **FC** value does not exceed **49** MPN/100mL. If water quality at a station fails to meet one or

both criteria then that station shall may need to be designated as uncertified or seasonally uncertified, per 6NYCRR Part 47.3 "Certification of Shellfish Lands."

Year-Round Evaluation (TABLE 1) - certified and seasonally certified stations

Water samples collected from January 2012 through December 2016 were used in the year-round **SRS FC** evaluation for stations within certified and seasonally uncertified portions of the Flanders Bay SGA (see Table 1). *All of the certified stations met the NSSP criteria for a certified shellfish land.* The only station that did not meet criteria was the seasonally uncertified station, **19B**; it exceeded the 90th percentile. Station **19B** is deep inside Hubbard Creek, taken off of Red Creek Road and will remain seasonally uncertified. **Stopped here.**

Station **19B** was established in 1995 following the 1994 triennial evaluation for Flanders Bay which resulted in the reclassification of Hubbard Creek from certified to seasonally uncertified from May through November. The Southampton Trustees then requested that a sampling station be established near the headwaters of the creek to monitor input. Since its establishment, **19B** has on and off again, failed both annual and triennial analyses. This station was also evaluated under cold conditions, found in Table 2.

Environmental data are located in each table. They are variables which have the potential to affect water quality in the Flanders Bay, such as rainfall and tide. Wet weather (APC = rainfalls \geq 0.25") conditions produce increased surface water runoff. Historical water sampling by the Shellfish Growing Area Classification Unit (SGACU) has documented that surface water runoff can degrade bacteriological water quality which may result in shellfish growing area criteria failures.

Seasonal Evaluations

A cold seasonal evaluation was conducted with station 19B to satisfy the seasonal classification of Hubbard Creek (see Table 2). The area is seasonally certified from **December 1 to April 30** (both dates inclusive), each year. Thirty data points were used to evaluate this seasonally uncertified station. Because of sampling constraints in this area, sometimes it is hard to collect this sample during our extremely cold winters with iced in tributaries, it was necessary to evaluate data as far back as 2008. *Station 19B in Hubbard Creek met the cold seasonal criteria and is properly classified.*

A warm seasonal evaluation was conducted in the certified and seasonally uncertified stations to show that the certified stations are meeting criteria during the warm months of the year (see Table 3) and that the seasonally uncertified station (19B) is properly classified and closed during this season. This is when bacterial numbers are high and sometimes certified stations fail to meet criteria during this season. *All certified stations meet criteria during this warm analysis.*

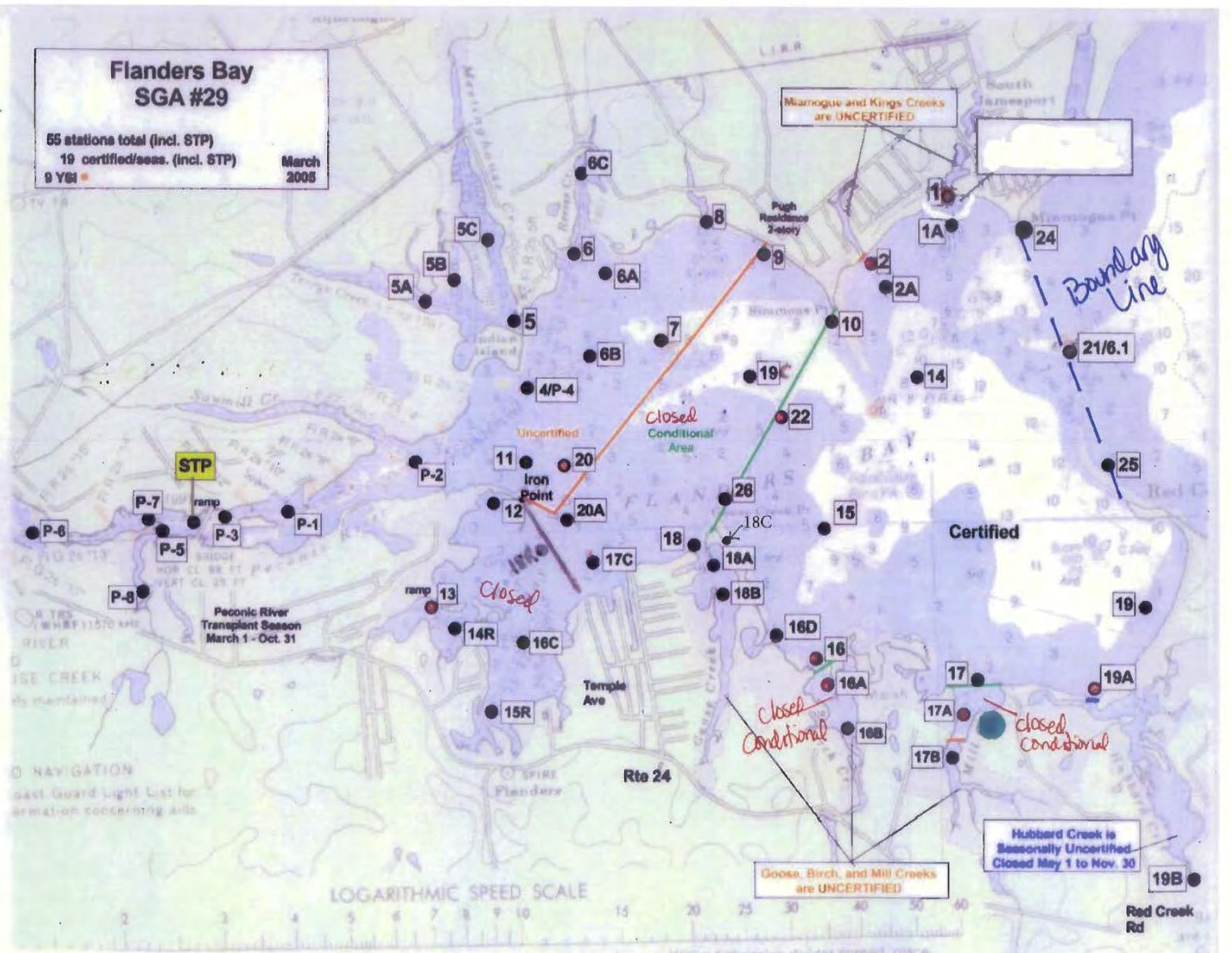
V. Summary and Growing Area Recommendations

This SRS analysis supports the current classifications of the Flanders Bay in both the certified and seasonally uncertified areas. There are no recommendations for changes in the SGA classification at this time. Bacteriological water quality for the Flanders Bay Shellfish Growing Area will continue to be routinely monitored throughout the year. The next report due is the 2017 annual.

Flanders Bay SGA #29

65 stations total (incl. STP)
19 certified/season (incl. STP)
9 YGI

March
2005



MAP 1.

Table 1. Year-round NSSP SRS Analysis of Flanders Bay

Date Range: 1 / 2012 - 12 / 2016

29-Flanders Bay

sample date:	FC at Station:																		Samp. Cond:	Tide Stage:	Rain 0-24:	Rain 24-48:	Rain 48-72:	Rain 72-96:		
	29-10	29-14	29-15	29-16	29-16D	29-17	29-18	29-18C	29-19	29-19A	29-19B	29-1A	29-2	29-21	29-22	29-24	29-25	29-26							29-2A	
1/3/2012	9.1	3.6	43.0	9.1	43.0	2.9	15.0	3.6	9.1	2.9	3.0	3.6	2.9	75.0	2.9	2.9	9.1	9.1			Dry	FLOOD	0.00	0.15	0.00	0.00
1/17/2012													15.0								Dry	EBB	0.07	0.00	0.00	0.00
2/16/2012	3.0	2.9	43.0	3.6	3.6	2.9	9.1	2.9	2.9	2.9	43.0	3.6	3.6	3.0	3.0	3.6	2.9	3.6			Dry	LOEBB	0.00	0.03	0.00	0.00
3/15/2012	3.6	9.1	2.9	2.9	2.9	2.9	3.6	2.9	2.9	2.9	2.9	2.9	3.6	9.1	2.9	2.9	3.6	2.9			Dry	LOEBB	0.00	0.00	0.05	0.00
4/4/2012													2.9								Dry	EBB	0.00	0.00	0.09	0.22
4/12/2012	2.9	2.9	2.9	2.9	3.6	2.9	9.1	2.9	2.9	2.9	2.9	3.6	2.9	2.9	2.9	2.9	2.9	2.9			Dry	LOEBB	0.08	0.00	0.00	0.00
4/16/2012													2.9								Dry	EBB	0.00	0.00	0.00	0.04
4/18/2012													2.9								Dry	FLOOD	0.00	0.00	0.00	0.00
5/14/2012	2.9	2.9	2.9	2.9	2.9	3.6	3.6	2.9	7.3	23.0	3.6	2.9	2.9	2.9	2.9	2.9	2.9	2.9			Dry	EBB	0.00	0.00	0.00	0.00
6/11/2012													2.9								Dry	EBB	0.00	0.00	0.00	0.00
9/26/2012	2.9	2.9	2.9	2.9	2.9	2.9	9.1	2.9	2.9	43.0	2.9	3.6	2.9	2.9	2.9	2.9	3.6	2.9			Dry	HIEBB	0.00	0.00	0.00	0.00
11/5/2012		2.9	2.9						2.9		2.9			3.6	2.9	2.9	3.6				Dry	FLOOD	0.07	0.04	0.01	0.00
1/2/2013									2.9												>.25	HIEBB				
3/19/2013	23.0	2.9	3.6	3.6	2.9	9.1	7.3	2.9	2.9	9.1	2.9	2.9	3.6	15.0	2.9	2.9	9.1	2.9			>.25	LOEBB	0.26	0.00	0.01	0.00
4/16/2013	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.6	2.9	2.9	2.9	2.9	2.9	2.9	2.9			Dry	LOEBB	0.00	0.01	0.19	0.19
6/18/2013	2.9	3.6	2.9	3.6	3.6	2.9	23.0	2.9	3.6	23.0	2.9	9.1	2.9	9.1	3.6	2.9	9.1	2.9			Dry	EBB	0.00	0.00	0.00	0.00
7/29/2013	2.9	2.9	3.6	2.9	2.9	2.9	15.0	3.6	14.0	75.0	3.0	2.9	2.9	2.9	2.9	2.9	3.6	2.9			>.25	LOEBB	0.00	0.00	0.40	0.71
8/13/2013	9.1	2.9	2.9	23.0	2.9	3.6	9.1	2.9	3.6	460.0	2.9	2.9	2.9	9.1	2.9	3.6	9.1	2.9			>.25	LOEBB	0.30	0.00	0.00	0.04
10/17/2013	9.1	9.1	3.6	3.6	9.1	9.1	15.0	9.1	43.0	43.0	3.6	3.6	2.9	3.6	2.9	2.9	9.1	3.6			Dry	HIEBB	0.01	0.00	0.00	0.00
10/30/2013	2.9	2.9	3.6	2.9	2.9	2.9	2.9	2.9	43.0	2.9	2.9	3.6	2.9	2.9	2.9	2.9	3.6	2.9			Dry	HIEBB	0.00	0.00	0.00	0.00
2/25/2014									2.9												Dry	LOEBB	0.00	0.03	0.00	0.15
4/9/2014	2.9	2.9	2.9						2.9		2.9			3.6	2.9	2.9	2.9				>.25	HIEBB	0.27	0.93	0.00	0.00
4/24/2014	2.9	2.9	2.9	2.9	2.9	3.6	2.9	2.9	2.9		2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9			Dry	HIEBB	0.00	0.00	0.00	0.00
6/23/2014	3.6	2.9	11.0	9.1	6.1	3.6	9.1	2.9	2.9		2.9	7.3	2.9	9.1	2.9	2.9	39.0	9.1			Dry	HIEBB	0.00	0.00	0.00	0.22
8/21/2014	2.9	2.9	2.9	3.6	2.9	9.1	43.0	2.9	2.9		2.9		2.9	2.9	2.9	9.1	3.6	2.9			Dry	HIEBB	0.00	0.00	0.00	0.00
9/4/2014	3.6	2.9	3.6	3.6	7.3	3.6	7.3	2.9	2.9		2.9	21.0	3.6	9.1	2.9	2.9	2.9	2.9			Dry	HIEBB	0.00	0.00	0.00	0.05
9/24/2014	3.6	2.9	2.9	2.9	3.6	9.1	93.0	2.9	2.9		2.9	2.9	2.9	2.9	2.9	3.6	2.9	2.9			Dry	HIEBB	0.00	0.03	0.01	0.02
10/30/2014	3.6	2.9	7.3	23.0	2.9	3.6	43.0	23.0	23.0		3.6	15.0	2.9	43.0	15.0	2.9	2.9	2.9			Dry	LOEBB				

Table 2. Cold Seasonal NSSP SRS Analysis of Flanders Bay

Date Range: 12 / 2008 - 4 / 2016

29-Flanders Bay

sample date:	FC at Station:														Samp. Cond:	Tide Stage:	Rain 0-24:	Rain 24-48:	Rain 48-72:	Rain 72-96:
	29-198																			
1/18/2008	3.6														>.25	LOEBB	0.61	0.00	0.00	0.18
2/14/2008	2.9														>.25	LOEBB	2.50	0.47	0.00	0.00
3/4/2008	2.9														>.25	EBB	0.00	0.00	0.00	0.55
12/9/2008	2.9														Dry	EBB	0.00	0.00	0.12	0.00
3/25/2009	2.9														Dry	HIEBB	0.00	0.00	0.00	0.00
4/16/2009	2.9														Dry	LOEBB	0.00	0.17	0.00	0.00
2/24/2010	3.6														>.25	LOEBB	1.75	0.08	0.00	0.00
3/11/2010	2.9														Dry	HIEBB	0.00	0.00	0.00	0.00
4/6/2010	3.6														Dry	LOEBB	0.00	0.00	0.00	0.00
12/6/2010	3.6														Dry	EBB	0.00	0.00	0.00	0.00
12/7/2010	2.9														Dry	HIEBB	0.00	0.00	0.00	0.00
1/19/2011	2.9														>.25	HIEBB	1.00	0.25	0.00	0.00
4/11/2011	2.9														Dry	LOEBB	0.00	0.00	0.00	0.00
4/27/2011	2.9														>.25	HIEBB	0.02	0.00	0.18	0.87
12/20/2011	2.9														Dry	LOEBB	0.00	0.00	0.00	0.00
1/3/2012	2.9														Dry	FLOOD	0.00	0.15	0.00	0.00
2/16/2012	2.9														Dry	LOEBB	0.00	0.03	0.00	0.00
3/15/2012	2.9														Dry	LOEBB	0.00	0.00	0.05	0.00
4/12/2012	2.9														Dry	LOEBB	0.08	0.00	0.00	0.00
1/2/2013	2.9														>.25	HIEBB				
3/19/2013	9.1														>.25	LOEBB	0.26	0.00	0.01	0.00
4/16/2013	2.9														Dry	LOEBB	0.00	0.01	0.19	0.19
2/25/2014	2.9														Dry	LOEBB	0.00	0.03	0.00	0.15
1/14/2015	2.9														>.25	EBB	0.00	0.75	0.00	0.00
3/26/2015	2.9														Dry	LOEBB	0.12	0.00	0.00	0.00
4/14/2015	3.6														Dry	HIEBB	0.00	0.00	0.00	0.15
12/23/2015	23.0														>.25	HIEBB	0.28	0.00	0.00	0.00
3/9/2016	2.9														Dry	HIEBB	0.00	0.00	0.03	0.04

Table 3. Warm Seasonal NSSP SRS Analysis of Flanders Bay

Date Range: 5 / 2008 - 11 / 2016

29-Flanders Bay

sample date:	FC at Station:																		Samp. Tide	Rain	Rain	Rain	Rain			
	29-10	29-14	29-15	29-16	29-16D	29-17	29-18C	29-19	29-19A	29-19B	29-1A	29-2	29-21	29-22	29-24	29-25	29-26	29-2A						Cond: Stage: 0-24:	24-48:	48-72:
5/14/2008												2.9								>.25	EBB	0.00	0.02	0.00	0.00	
5/14/2008												2.9								Dry	EBB	0.00	0.02	0.00	0.00	
5/29/2008												2.9									EBB	0.00	0.18	0.00	0.00	
5/29/2008	3.6	2.9	2.9	3.6	9.1	2.9	3.0	2.9	2.9		3.6	23.0	2.9	2.9	2.9	2.9	3.6	2.9		Dry	EBB	0.00	0.18	0.00	0.00	
6/16/2008												3.6									>.25	EBB	0.00	0.50	0.00	0.00
6/16/2008												43.0									>.25	EBB	0.00	0.50	0.00	0.00
7/11/2008												3.6										EBB	0.00	0.08	0.00	0.00
7/11/2008	2.9	2.9	43.0	2.9	3.6	3.6		2.9	2.9		2.9	9.1	3.6	2.9		2.9	9.1	2.9		Dry	EBB	0.00	0.08	0.00	0.00	
7/23/2008												2.9									>.25	LOEBB	0.63	0.00	0.05	0.00
7/23/2008												93.0									>.25	LOEBB	0.63	0.00	0.05	0.00
7/28/2008												43.0									>.25	EBB	1.59	0.00	0.00	0.13
7/28/2008												15.0									>.25	EBB	1.59	0.00	0.00	0.13
8/7/2008	15.0	3.6	23.0	23.0	3.6	93.0	23.0	23.0	43.0	93.0	2.9	2.9	2.9	2.9	3.6	2.9	3.6	2.9		>.25	LOEBB	0.73	0.10	0.00	0.00	
8/7/2008												2.9										LOEBB	0.73	0.10	0.00	0.00
10/7/2008												2.9									Dry	LOEBB	0.00	0.00	0.00	0.00
10/7/2008												3.6									>.25	LOEBB	0.00	0.00	0.00	0.00
10/23/2008												2.9										EBB	0.00	0.00	0.00	0.00
10/23/2008	2.9	2.9	7.3	9.1	3.6	3.6	23.0	2.9	2.9	43.0	3.6	2.9	2.9	2.9	2.9	3.6	2.9			Dry	EBB	0.00	0.00	0.00	0.00	
11/21/2008												2.9									Dry	LOEBB	0.00	0.00	0.00	0.00
11/21/2008												2.9									>.25	LOEBB	0.00	0.00	0.00	0.00
5/20/2009												2.9									>.25	EBB	0.00	0.00	0.08	0.83
6/3/2009	2.9	2.9	9.1	9.1	23.0	15.0		9.1	240.0	3.6	2.9	15.0	3.6	9.1	3.6	3.6	16.0	2.9		Dry	HIEBB	0.09	0.00	0.00	0.00	
6/3/2009												3.6										HIEBB	0.09	0.00	0.00	0.00
6/30/2009												3.6									Dry	EBB	0.07	0.00	0.00	0.00
7/1/2009												2.9										HIEBB	0.00	0.00	0.00	0.00
7/1/2009	2.9	2.9	23.0	9.1	3.6	3.6	43.0	2.9	2.9	43.0	7.3	21.0	2.9	2.9	2.9	2.9	39.0	3.6		Dry	HIEBB	0.00	0.00	0.00	0.00	
7/15/2009												3.6										LOEBB	0.00	0.00	0.00	0.30
7/15/2009	3.6	2.9	3.6	2.9	23.0	2.9	23.0	3.6	3.6	9.1	2.9	2.9	3.6	3.6	2.9	2.9	3.6	2.9		>.25	LOEBB	0.00	0.00	0.00	0.30	

Station:	29-10	29-13	29-17	29-18	29-16E	29-17	29-18	29-19	29-19A	29-19B	29-1A	29-2	29-21	29-22	29-24	29-27	29-28	29-2A			
Count:	36	37	37	36	36	36	32	36	37	19	34	33	93	37	36	37	36	34			
Geo Mean:	3.5	3.4	4.8	6.1	5.5	5.5	12.7	3.8	6.0	27.2	3.2	6.4	4.3	4.7	3.2	3.3	6.4	3.1			
90th Percentile	5.8	5.8	12.0	18.4	15.2	19.6	45.8	7.6	25.0	163.7	4.5	18.9	12.2	11.5	4.8	5.3	19.9	4.0			

% of Sample Runs with Rainfall between .75" and 3": 18.48%

Classifications (font color): Green = Certified (Open) year-round Red = Uncertified (Closed) year-round; Conditional stations included Blue = Seasonal

Black value with orange highlight denotes samples do not meet NSSP and NYSDEC criteria

Red value denotes samples do not meet NSSP and NYSDEC criteria for certified areas.

Purple value denotes samples meeting criteria but approaching threshold levels.

Blue rainfall value denotes rainfall amounts meeting Adverse Pollution Condition (APC) criteria - min of 0.25 inches

Appendix 1.

(viii) Peconic River.

(a) All waters of the Peconic River and its tributaries within the Town of Southampton.

(ix) Flanders Bay.

(a) All that area of Reeves Bay including tributaries.

(b) All that area of Flanders Bay including tributaries lying westerly and northerly of a line extending northeasterly from the northernmost tip of Goose Creek Point exposed at mean high water to the southernmost tip of Simmons Point exposed at mean high water.

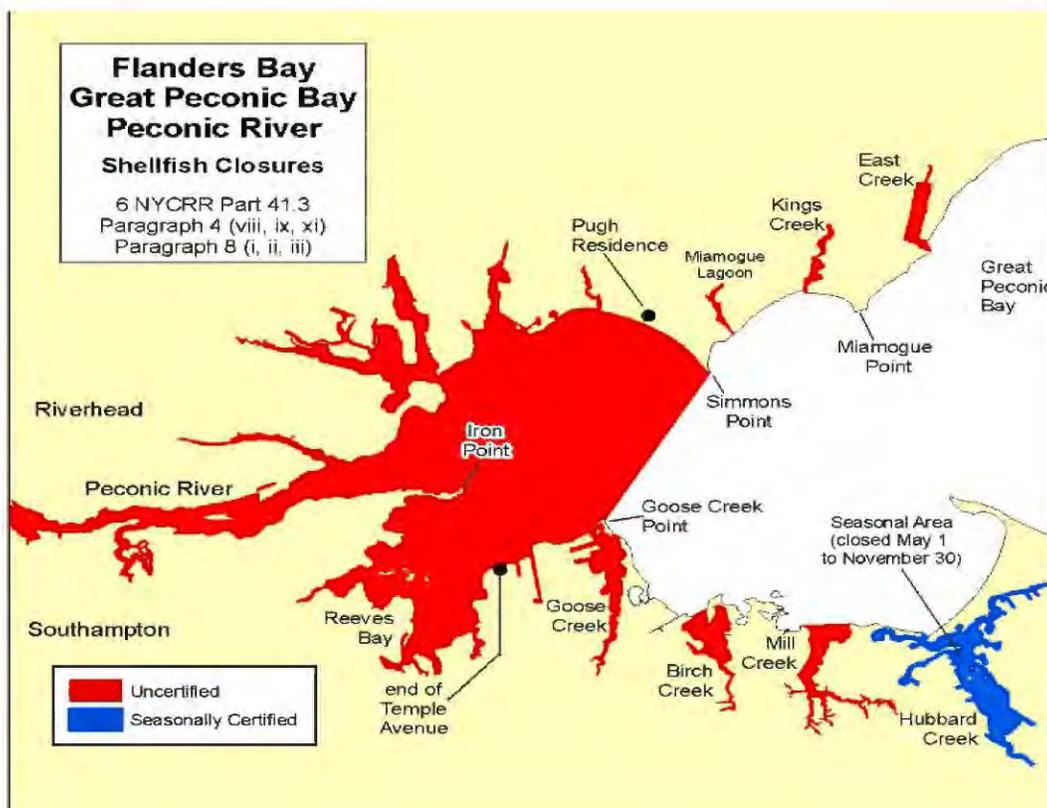
(c) All that area, including tributaries of Goose Creek, Birch Creek and Mill Creek.

(d) During the period May 1 through November 30, both dates inclusive, all that area of Hubbard Creek including tributaries.

(e) All creeks, canals and other tributaries located along the northern shoreline of Flanders Bay between Simmons Point and Miamogue Point.

Note: All reference points, except local landmarks and local names, in the Peconic River, Reeves Bay, Flanders Bay, Great Peconic Bay and tributaries are taken from N.O.A.A. Nautical Charts No. 12358, 14th Ed., dated July 10, 1982.

MAP 2.



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Marine Resources
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**NOTICE TO ALL SHELLFISH HARVESTERS
EMERGENCY CLOSURES FOLLOWING EXTRAORDINARY RAINFALL EVENTS**

On October 20, 1989, the New York State Department of Environmental Conservation designated most bays and harbors in Nassau and western Suffolk counties as temporarily uncertified for the harvest of shellfish following a rainfall that measured nearly 4.5 inches in some areas. That first "Emergency Rainfall Closure" of shellfish harvest areas lasted between four (4) and seven (7) days. During that time the DEC, in cooperation with bay constables and other staff from the environmental bureaus of several towns, was able to collect and examine water samples from nearly all the areas affected by the closures. The results indicated that all areas closed on an emergency basis were adversely affected by the runoff from that extraordinary rainfall and the closures were appropriate and necessary to protect public health.

Since that first emergency closure there have been many more heavy rainfalls that were followed by emergency closures of harvest areas. In each of those cases, water sampling was done in key areas to determine when it was possible to re-open. The results clearly indicated that excessive storm water runoff following rainfalls greater than three (3) inches had significant adverse effects on water quality. The results also showed that water quality improvements were detectable by the third and fourth days of the closures, when compared to results from samples collected on the first and second days of the closure. Areas will only be re-opened after water quality has been demonstrated to meet certified area criteria and shellfish have adequate time to naturally cleanse themselves of potential pathogens.

Please Note: DEC has since determined that it may be necessary to implement emergency closures in some areas, during the summer months after rainfalls that are less than 3 inches. Recent events have shown that certain areas are adversely affected by less than 3" when water temperatures are warmer. It also may be necessary to extend closures beyond seven (7) days when water quality does not improve by the sixth day (per Title 6NYCRR, Parts 42.17 "Sanitary Control over Shellfish" and 47.4 "Certification of Shellfish Lands").

Based on what we have learned from our experience with several emergency rainfall closures, any area that is closed on a temporary emergency basis following a rainfall of more than 3 inches will remain closed for at least 3 full days.

NORTH SHORE: All north shore embayments affected by extraordinary rainfall will be closed for at least three days. However, due to the relatively large tidal ranges on the north shore, north shore areas may re-open on the fourth day if testing of water samples demonstrates acceptable water quality. Likely exceptions are Stony Brook and Mount Sinai Harbors which are relatively shallow and have very narrow inlets to the Sound. In those areas it may take a day or two longer for water quality to return to acceptable levels.

SOUTH SHORE: On the south shore, areas SS1 (Hempstead Bay), SS2 (South Oyster Bay) and SS3 (Great South Bay, Babylon) will be entirely uncertified for at least four days when emergency closures are necessary. East of the Robert Moses Causeway, the northern portions of areas SS4, SS5, and SS6 and the western portion of SS7 (Ballport Bay) will be included in the emergency closures, but areas in the southern portion of Great South Bay, SS4, SS5 and SS6, as well as the eastern portion of SS7 may remain certified. During most recent closures, a line running from where the Robert Moses Causeway comes ashore on the north side of Captree Island, running through several navigational buoys along the east/west channel in the northern part of the bay to a buoy south of Howells Point then proceeding southeasterly to the flag pole at Ballport Beach on the barrier beach, has been used as the temporary closure line.

The large drainage area, smaller tidal ranges and small ocean inlets all cause contaminated runoff to adversely affect water quality in portions of Hempstead, South Oyster Bay and Great South Bay for several days. Therefore, some south shore embayments may remain closed for 7 days, excluding the day the closure designation is made, or longer if water quality has not improved by the sixth day.

EAST END EMBAYMENTS: Generally, all of Moriches Bay and Shinnecock Bay will be closed following extraordinary rainfall events. In the Flanders Bay, Peconic and Gardiners Bay areas, all the enclosed bays, harbors and creeks within the Towns of Riverhead, Southold, Shelter Island, Southampton and East Hampton will be designated as uncertified following rainfalls of more than 3 inches.

Based on results of sampling during recent emergency closures, many east end embayments may re-open after 4 or 5 days if water sampling demonstrates acceptable water quality. However, on a case-by-case basis some areas may remain closed for longer periods. For example, Flanders Bay has remained closed for as long as 7 days.

NOTIFICATION: The Department immediately notifies the affected towns, including the bay constables or harbor masters, about all emergency closures. The Department also advises local news media, including cable channel 12 (News12), Newsday and local radio stations. Although the Department advises news media regarding emergency closures, they have not always carried the information provided to them.

You can reach the Shellfisheries "Emergency Closure Information Line" by calling (631) 444-0480. A recorded message is available 24 hours a day, including weekends. During emergency closures, the recording will provide the most up-to-date information about which areas are affected by the closures; descriptions of the closure lines will also be provided.

If you would like to receive an e-mail notification about temporary shellfish closures and re-openings, please provide a current e-mail address to the Bureau of Shellfisheries. Please call 631-444-0492 to be added to the e-mail notification group for your town.

REOPENINGS: When possible, the Division of Marine Resources, Bureau of Shellfisheries will begin sampling on the second day of an emergency closure and will attempt to collect samples from as many areas as possible. In the event of widespread closures, north shore areas will usually be sampled on the 2nd and 4th days, and south shore and east end areas will usually be sampled on the 3rd and 5th days. Areas will be re-opened based on demonstrated improvements in water quality, as described above. Sampling assistance from towns may allow earlier openings.

Beginning on the afternoon of the 3rd or 4th day after an emergency closure, an updated message about re-openings will be available at (631) 444-0480 after 4:00 p.m. The updates will be based on the results of water quality testing during the closures.

We ask that all shellfish harvesters make an effort to be aware of weather forecasts that predict unusually heavy rainfall, especially from thunderstorms, tropical systems and nor'easters. Emergency closures will be put into effect in all areas affected by runoff from rainfalls of more than 3 inches that occur over a 24-36 hour period. If you have any questions, please contact us at (631) 444-0492.

Dated: July 1, 2016
East Setauket, NY

James J. Gilmore, Director
Division of Marine Resources

Addendum: General Statement for Sanitary Surveys, Pollution Source Survey Reports and Water Quality Evaluation Reports for Shellfish Growing Areas Around Long Island

Hydrographic and Meteorological Characteristics of Shellfish Growing Areas on Long Island

(1) **Tides** in all areas around Long Island are semi-diurnal, meaning there are usually two (2) high and two (2) low tides each day. Tidal amplitude varies from area to area. Generally, tidal range on the north shore and some east end areas is approximately 7 to 8 feet, with the greater range occurring during spring tides which occur with each full and new moon phase. Tidal ranges in the south shore embayments tend to be less and range from 1.5 to 4 feet. The actual tidal range will be noted in the specific pollution source summary and/or the triennial water quality report for each shellfish growing area.

Except in the vicinity of inlets to the ocean or sound, harbor mouths and "narrows" between embayments, currents are generally weak. Currents in inlets, harbor mouths and "narrows" are driven by tides and can approach 2 knots.

(2) **Rainfall** around Long Island averages approximately 40 inches annually. There is no distinct "rainy season" on Long Island. Rainfall can be very uneven around Long Island and the Shellfish Growing Area Classification Unit has established rain gauges locations around Long Island which are read by DEC employees, Town or County employees, and some cooperating private citizens. The GACU regularly gathers rainfall information from approximately 25 cooperating individuals.

(3) **Winds** around Long Island can be quite variable. Winds are driven by high and low pressure zones and/or passing warm and cold fronts. There is a slight tendency for winds during the summer months to be from the west or southwest. On-shore breezes (sea breeze) will occur during the summer months as heating of the land results in updrafts over the land mass of Long Island which draws a breeze in off the ocean or Sound. During the winter months the winds tend to be northerly, but on any given day the winds may be from other directions and can vary from one end of the Island to another.

(4) **Rivers** around Long Island are primarily tidal estuarine in nature. The vast volume of water exchanged in the canals, creeks and rivers on Long Island is tidal water that enters those waterbodies during incoming tides and exits on the outgoing tides. The freshwater component of the outflow from the four (4) largest rivers on Long Island - Nissequoque, Peconic, Connetquot and Carmans Rivers - is relatively insignificant compared to the tidal exchange. Because there is no significant season difference in rainfall around Long Island, there is no significant seasonal variation in the freshwater outflows from rivers.

(5) **Effects of pollution and hydrographic factors.** The main pollution sources to most certified shellfish growing areas around Long Island is non-point stormwater runoff following rainfall events. Outgoing tides distribute stormwater runoff seaward from the land based sources.

Due to the relatively shallow nature of all the bays and harbors around Long Island; the semi-diurnal tides; and effects of wind, the water column is well mixed and there tends to be little vertical stratification of the water column with respect to salinity or temperature.

**Seasonal Area Management Plan – Flanders Bay SGA #29
Town of Southampton**

I. General Description of Seasonally Managed Area, include map showing area boundaries:

There is one seasonally uncertified harvest area in Flanders Bay, a tributary of Peconic Bay. It is located on the south shore, west of Red Creek Point and is called Hubbard Creek. It is seasonally uncertified for the harvest of shellfish during the period from May 1 through November 30, each year (both dates inclusive). It encompasses approximately 61 acres.

In the past, but not since 2006/2007, there has not been a conditional shellfishing program in this area.

II. Description of Factors Determining the Growing Area's Suitability for being classified as a Seasonal Area:

This area has been classified as seasonal for an extended period of time.

Seasonal marina closures were created for all certified shellfish lands within and adjacent to marinas and are designated as uncertified during the period of time when the boats are present; Part 47.3, NYCRR. **No marinas are located in this creek.**

The triennial water quality evaluation report (2/17) supports the water quality in Hubbard Creek, which meets the NSSP criteria during the period of time that the area is open for harvest. The next report due is a 2017 annual in 2018.

III. Description of predictable pollution events that result in closure, including:

A. Wastewater treatment facility - performance standard based on: NOT APPLICABLE (NA) and does not affect this seasonal area.

1. Peak Effluent Flow
2. Bacteriological quality of effluent
3. Physical & chemical quality of effluent
4. Bypasses
5. Design, construction and maintenance to minimize mechanical failure or overloading
6. Provisions for verifying & monitoring efficiency of the STP

B. Meteorological or Hydrological Events: NA

1. Specific event(s) that will cause area to be closed
2. Data and discussion concluding that the event(s) are predictable
3. Predicted number of times such an event will occur within one year based on historical findings

C. Seasonal Events

1. Marina closures – N/A
2. Seasonal rainfall - The area is designated as seasonally certified based on the support of acceptable water quality. Seasonal rainfall effects are applicable.

- Although the area is designated as seasonally certified, based on previous SRS sampling results, it has not been determined that the observed water quality differences between the "open" and "closed" seasons are due to seasonal rainfall effects.
3. Waterfowl migration - NA

IV. Implementation of a Conditional Area Closure:

A. Notification of management plan violation - NA

1. Which agency is responsible for notifying the Shellfisheries Unit- NA
2. Response time between pollution event and notification of Shellfisheries - NA
3. Procedures for prompt notification – NA

B. Implementation of Closure - Annually, as specified in Part 41, "Sanitary Condition of Shellfish Lands", the seasonal area is closed from May 1 through November 30.

1. Response time between pollution event and closure of the area – NA
2. How is shellfish industry notified? The seasonal area descriptions are in Part 41 and are mailed to each harvester that receives a harvester's permit
3. How are patrol agencies notified? Part 41

C. Enforcement of Closure

1. Agency(ies) responsible - NYSDEC and Town of Southampton, Bay Constables
2. Time between closure and notification of patrol agency - NA
3. Adequacy of enforcement during closure - Determined by FDA

V. Criteria necessary for reopening after pollution event ends

Not Applicable

A. Control elements to define reopening criteria - NA

1. Procedure to determine that event has ended
2. Time interval sufficient to allow the area to flush
3. Shellfish feeding is sufficient to achieve cleansing
4. A time interval to allow shellfish to cleanse naturally. Interval to begin only after pollution event has ended.

VI. Synopsis of effectiveness of closure procedures and interagency cooperation - NA

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MEMORANDUM

TO: Flanders Bay Water Quality File
FROM: Lisa P. Tettelbach, Marine Biologist I
SUBJECT: 2015 Annual Maintenance Report

DATE: January 13, 2016

In 2003, the Shellfish Sanitation Unit switched and began conducting its Annual Updates and Triennial coliform reviews with fecal coliform data. Prior to that, total coliforms were also used to evaluate the water quality conditions in Flanders Bay, and in all New York State's Shellfish Growing Areas (SGA).

This decision was made for several reasons. The switch to the A-1 method for the analysis of fecal coliforms, is quick and generates results within 24 hours. There is less glassware to clean, less media to make and this speeds up the turn-around time for supplies.

In addition, the laboratory says that this extra time is needed for all the additional shellfish work, which previously included Dermo, ThermaZyme and QPX, but now includes illegal imports, *Vibrio* testing and toxic marine phytoplankton testing island wide. The extremely warm summers of 2013 and 2014 had put *Vibrio* back on the table, but the summer of 2015 was not as warm. It did stay warmer longer into the fall and winter and Shellfisheries still must test for *Vibrio*.

The lab is still responsible for testing and generating fecal coliform data, analyzing shellfish samples from the wholesale market, quality control assurance requirements and their routine laboratory tasks. At the present time the lab is fully staffed. The last hires were in December of 2014, and June 2015.

On February 14, 2003, management and the shellfish laboratory decided to switch to and conduct testing for only fecal coliform data. The thought to switch had been discussed at length between management, shellfish sanitation and the laboratory and management made the final decision. This switch to fecal coliforms affected many western town SGA classifications and shellfish closures were implemented because of the media switch. Fortunately, it did not directly affect any East End areas evaluated. FDA requires that States select to analyze either total or fecal coliform bacteria as part of their sanitation program. *NYS has chosen Systematic Random Sampling (SRS) and fecal coliforms to evaluate the water quality in Flanders Bay.*



Department of
Environmental
Conservation

The Shellfish Growing Area Classification Unit (SGACU) implemented SRS in January 1997. SRS was chosen because this growing area is affected by randomly occurring, intermittent events (stormwater runoff after rainfall) and is not impacted by discharges from sewage treatment facilities or combined sewer overflows. Therefore, SRS can be used for the area. Sampling can also be scheduled months in advance, regardless of rain.

SRS evaluations use the geometric mean and 90 percentile (%tile). Values can't exceed an MPN of 14 for the geometric mean or 49 (MPN) for the 90th %tile. Since 1998, the calendar year has been divided into 7 segments to ensure enough time to collect the proper number of sampling runs during the colder, windy months and holiday season. *Sufficient data have been collected to evaluate Flanders Bay under SRS condition. Ebbing tides are still a requirement of sampling program and is still considered APC.*

Based on bacteriological data collected in Flanders Bay for 2015 (7 SRS runs – 2 APC, 0E), *water quality appears to be meeting the NYS and NSSP criteria for its present year-round and seasonal shellfish classifications.* There are a few 23s and 15s throughout the area during the summer and fall; not of concern. There were some elevated counts (MPN 43) at station 18C, on the east side of Goose Creek. This station was placed in 2008 because the original station at the mouth of Goose Creek (18) shoaled closed and a new inlet formed around Birch Creek Point. These points were also elevated in summer and fall. A triennial for Flanders is due in 2017, will help determine if any changes are needed.

Original station 18 was located in a closed portion of Flanders Bay (Reeves Bay) and new station 18C, is located in a certified portion of Flanders Bay (west of Birch Creek). It is a better test of the waters that ebb out of Birch. This is the first it has appeared elevated. In addition, the creek is very shallow and stations cannot be collected inside. Due to this reason, Goose Creek should remain closed to shellfishing year-round. It should also be noted that Goose Creek Point has significantly eroded and no longer appears as a point. This station will be monitored closely to ensure coliform numbers don't continue to increase.

The seasonal area closure in Hubbard Creek is a water quality related closure. It is closed for harvesting May 1 through November 30. This area needs to be sampled once per month while it is open for harvest and it did get sampled the required number of times; although it was missed in February, due to ice, but was made up in April. It should be pointed out that the area is scheduled to be sampled the proper number of times throughout the year, but because of unforeseen conditions, not all the runs get completed as planned.

The water quality at the STP outfall continues to be elevated (23s), but it's not consistent. The plant is in the process of being upgraded and has had several non-compliance issues over the past year (2015). They are expected to be done in April 2016. Hopefully this will resolve all of their problems.

It should be noted that coliform results at both the Birch and Mill Creek stations (closed year-round) have been looking better over the years, but because of the SRS sampling strategy, most of the sample runs collected were under dry weather conditions. There is also no data within the creeks to support any thought of reopening them. It would be necessary to target wet weather sampling as well as trying to get into the creeks to see what the water quality is like. There is nothing to support whether the areas can handle stormwater runoff. It is

important that there are sampling runs with rainfalls over 0.75 inches, to ensure the area can support rain throughout the open season.

There used to be a small seasonal, radial closure, approximately 10 acres, around the mouth of Kings Creek, but it has now been reclassified as certified year-round. The reclassification was proposed in December of 2010, and it became effective on March 16, 2011. It was determined that the water quality at station 1, located at the mouth of Kings Creek was meeting criteria during both the warm and cold months of the year. Kings Creek remains closed to shellfishing year-round and data show that removing that radial closure was appropriate.

Flanders Bay is approximately 3158 acres and starts to the west in the Peconic River and ends just west of Great Peconic Bay. Approximately half of Flanders Bay is uncertified year-round and includes the Peconic River, Reeves Bay and the western part of the bay up to a line that runs from Simmons Point on the north shore to Goose Creek Point on the south shore. Everything east of this line and west of a line from Miamogue Point on the north and Red Creek Point on the south is certified year-round; excluding all the creeks located on the north and south shorelines. As mentioned above, Hubbard Creek is seasonally uncertified.

Flanders Bay used to be part of the Department's annual Conditional Shellfishing Program. The Town of Southampton would request an area that was closed to shellfishing and Shellfisheries would target sample the area after small amounts of rainfall and determine if the area could be open for harvest. This would occur during the cold months of the year, when less than a certain amount of rain had fallen. The Flanders conditional area had approximately 16 stations.

These types of programs have been very successful for the town and they have assisted in water sampling and rainfall monitoring. The last program in Flanders Bay ran from December 2006-April 2007. The following year, the water quality evaluation suggested that under many wet weather evaluations, Flanders could not support a conditional shellfishing program. For the 2007-08 program, the town selected North Sea Harbor as the replacement.

After the 2007-08 programs, Shellfisheries stopped conducting conditional programs because of staffing and priority of resource issues. Another new development in the Flanders area is the marine biotoxin monitoring program taking place in Meetinghouse Creek. It was discovered that this uncertified area was a prime location for the naturally occurring marine dinoflagellate, *Alexandrium fundyense*. If the area was certified, it would have to be closed because this organism produces a potentially deadly neurotoxin. Mussel monitoring has been in place since 2007.

The purpose of this annual evaluation is to determine whether or not the area is meeting its present water quality classification and make changes if necessary. *Water quality results show that no changes are needed at this time. All stations appear to be meeting the NSSP criteria for year-round, certified and seasonal shellfish lands when they are open for harvest.* Stations 18C will be monitored throughout the next year to see if any reclassifications are needed.

Flanders Bay has three classifications: certified; seasonally uncertified and uncertified. These classifications and maps can be found at the NYSDEC website: http://www.dec.ny.gov/outdoor/103483.html#Flanders_Bay4. The entire closed area of Flanders Bay is a part of a large administrative closure as a result of the Riverhead Wastewater Treatment plant. This is a requirement of the NSSP to protect public health, in case the plant were to malfunction at any time. The area needs to be closed to shellfishing to ensure the safe harvest of shellfish. And it is clear, after the incidents of 2015, that this administrative closure is properly placed.

Flanders Bay has 50 stations: 17 in the certified portion; one in seasonally uncertified Hubbard Creek; and the remaining are uncertified; including the STP in the Peconic River. The Peconic River has seven stations in addition.

There were no new pollution sources observed in this area within the last year. No recommendations are needed at this time. The last triennial report for Flanders Bay was completed in 2014, with data up through October 2013. The next evaluation due is a triennial in 2017. The last shoreline survey was completed in August 2003. *There were no emergencies in 2015.*

Certified and Seasonal Stations only

Date Range: 1 / 2015 - 12 / 2015

29-Flanders Bay & Peconic River

FC at Station:

sample date:	29-1	29-10	29-14	29-15	29-16	29-17	29-18	29-19	29-20	29-21	29-22	29-24	29-25	29-26	29-2A	29P- STP			Samp. Tide	Rain	Rain	Rain	Rain	
																			Cond: Stage:	0-24:	24-48:	48-72:	72-96:	
1/14/2015	2.9	3.6	2.9	2.9						2.9	2.9	9.1	9.1	2.9	3.6	2.9	2.9		>.25	EBB	0.00	0.75	0.00	0.00
3/26/2015										2.9									Dry	LOEBB	0.12	0.00	0.00	0.00
4/13/2015										3.6									Dry	FBB	0.00	0.00	0.00	0.00
4/14/2015	2.9	2.9	2.9	3.6	2.9	2.9	2.9		2.9	2.9	3.6	2.9	2.9	2.9	3.6	3.6	7.3		Dry	HIEBB	0.00	0.00	0.00	0.15
7/8/2015	3.6	7.3	23.0	9.1	2.9	3.0	2.9	43.0	3.6	3.6		2.9	2.9	33.0	2.9	2.9	9.1	2.9	Dry	LOEBB	0.00	0.00	0.00	0.00
7/23/2015	2.9	2.9	2.9	3.6	7.3	9.1	3.6	2.9	2.9	2.9	9.1	2.9	2.9	3.6	2.9	3.6			Dry	LOEBB	0.00	0.00	0.00	0.00
8/10/2015	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	2.9	2.9		9.1	2.9	3.6	2.9	3.6	2.9		Dry	LOEBB	0.00	0.00	0.00	0.00
10/8/2015	2.9	2.9	2.9	3.6	23.0	3.6	3.6	43.0	3.0	3.6			9.1	2.9	2.9	2.9	13.0	2.9	Dry	HIEBB	0.00	0.00	0.00	0.00
12/14/2015																			Dry	Low ST	0.00	0.00	0.00	0.00
12/23/2015	2.9	15.0	2.9	3.6	23.0	9.1	7.3	15.0	2.9	3.6	23.0	3.6	2.9	2.9	2.9	3.6	3.6	2.9	>.25	HIEBB	0.28	0.00	0.00	0.00
Station:	29-1	29-10	29-14	29-15	29-16	29-17	29-18	29-19	29-20	29-21	29-22	29-24	29-25	29-26	29-2A	29P- STP								
Count:	7	7	7	7	6	6	6	5	6	7	5	6	7	7	7	7								

Classifications (font color): Green = Certified (Open) year-round Red = Uncertified (Closed) year-round; Conditional stations included Blue = Seasonal

Black value with orange highlight denotes samples do not meet NSSP and NYSDEC criteria Blue rainfall value denotes rainfall amounts meeting Adverse Pollution Condition (APC) criteria - 0.25 to 3.00

Red value denotes samples do not meet NSSP and NYSDEC criteria for certified areas.

Purple value denotes samples meeting criteria but approaching threshold levels.

Date Prepared: 1/13/2016 4:09:47 PM