



Annual Report Form For Individual NPDES Permits For Municipal Separate Storm Sewer Systems (RULE 62-624.600(2), F.A.C.)

- This Annual Report Form must be completed and submitted to the Department to satisfy the annual reporting requirements established in Rule 62-621.600, F.A.C.
- Submit this fully completed and signed form and any REQUIRED attachments by email to the NPDES Stormwater Program Administrator or to the MS4 coordinator (<http://www.dep.state.fl.us/water/stormwater/npdes/contacts.htm>). Files larger than 10MB may be placed on the FTP site at: ftp://ftp.dep.state.fl.us/pub/NPDES_Stormwater/. After uploading files, email the MS4 coordinator or NPDES Program Administrator to notify them the report is ready for downloading; or by mail to the address in the box at right.
- Refer to the Form Instructions for guidance on completing each section.
- Please print or type information in the appropriate areas below.

Submit the form and attachments to:
 Florida Department of Environmental
 Protection
 Mail Station 3585
 2600 Blair Stone Road
 Tallahassee, Florida 32399-2400

SECTION I. BACKGROUND INFORMATION

A.	Permittee Name: Town of Juno Beach		
B.	Permit Name: Palm Beach County MS4		
C.	Permit Number: FLS000018-004		
D.	Annual Report Year: ☐ Year 1 ☐ Year 2 ☐ Year 3 ☒ Year 4 ☐ Year 5 ☐ Other, specify Year:		
E.	Reporting Time Period (month/year): 9 / 2019 through 10 / 2020		
F.	Name of the Responsible Authority: Joseph F. Lo Bello		
	Title: Town Manager		
	Mailing Address: 340 Ocean Drive		
	City: Juno Beach	Zip Code: 33408	County: Palm Beach
	Telephone Number: 561-626-1122		Fax Number: 561-656-0311
	E-mail Address: jlobello@juno-beach.fl.us		
G.	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Anthony R. Meriano		
	Title: Director of Public Works		
	Department: Public Works		
	Mailing Address: 340 Ocean Drive		
	City: Juno Beach	Zip Code: 33408	County: Palm Beach
	Telephone Number: 561-656-0310		Fax Number: 561-656-0311
	E-mail Address: ameriano@juno-beach.fl.us		

SECTION II. MS4 MAJOR OUTFALL INVENTORY (Not Applicable in Year 1)

A.	Number of outfalls ADDED to the outfall inventory in the current reporting year (insert "0" if none): 0 (Does this number include non-major outfalls? ☐ Yes ☐ No ☒ Not Applicable)
B.	Number of outfalls REMOVED from the outfall inventory in the current reporting year (insert "0" if none): 0 (Does this number include non-major outfalls? ☐ Yes ☐ No ☒ Not Applicable)
C.	Is the change in the total number of outfalls due to lands annexed or vacated? ☐ Yes ☐ No ☒ Not Applicable

SECTION III. PART V.B. ASSESSMENT PROGRAM

A.	Provide a brief statement as to the status of water quality monitoring plan implementation. Status may include sampling frequency changes, monitoring location changes, or sampling waiver conditions. <i>DEP Note: If permittee participates in a collaborative monitoring plan, permittee may refer to a joint response as defined by the interlocal agreement.</i> Name and date of the approved plan: 4-9-2019 Status: Please see the Palm Beach County Joint Annual Report for the monitoring information. The information relevant to the Town's outfalls is addressed in the Town of Juno Beach Annual Assessment Report, Attachment1.
B.	Provide a brief discussion of the monitoring and loading results to date which includes a summary of the water quality monitoring data and / or stormwater pollutant loading changes from the reporting year. <i>DEP Note: Results must be specific to the permittee's SWMP.</i> See own of Juno Beach Annual Assessment Report, Attachment1.
C.	Attach a monitoring data summary as required by the permit. An analysis of the data discussing changes in water quality and/or stormwater pollutant loading from previous reporting years. <i>DEP Note: Analysis must be specific to the permittee's SWMP.</i> See own of Juno Beach Annual Assessment Report, Attachment1.

SECTION IV. FISCAL ANALYSIS

A.	Total expenditures for the NPDES stormwater management program for the current reporting year: \$59,037
B.	Total budget for the NPDES stormwater management program for the subsequent reporting year: \$31,485
C.	Did the current reporting year resources decrease from the previous year? Y ☐ / N ☒ If program resources decreased, provide a discussion of the impacts on the implementation of the SWMP. Not Applicable

SECTION V. MATERIALS TO BE SUBMITTED WITH THIS ANNUAL REPORT FORM

Only the following materials are to be submitted to the Department along with this fully completed and signed Annual Report Form (check the appropriate box to indicate whether the item is attached or is not applicable):

Attached	N/A	Required Attachments	Permit Citation	Attachment Number/Title
☐	☒	Any additional information required to be submitted in this current annual reporting year in accordance with Part III.A of your permit that is not otherwise included in Section VII below.	Part III.A	
☐	☒	An explanation of why the minimum inspection frequency in Table II.A.1.a. was not met, if applicable.	Part II.A.1	
☐	☒	A list of the flood control projects that did not include stormwater treatment and an explanation for each of why it did not (if applicable).	Part III.A.4	
☒	☐	A monitoring data summary as directed in Section III.C above and in accordance with Rule 62-624.600(2)(c), F.A.C.	Part V.B.3	Refer to attached Water Quality Assessment
☐	☒	YEAR 1 ONLY: An inventory of all known major outfalls and a map depicting the location of the major outfalls (hard copy or CD-ROM) in accordance with Rule 62-624.600(2)(a), F.A.C.	Part III.A.1	
☐	☒	YEAR 2: A summary review of codes and regulations to reduce the stormwater impact from development.	Part III.A.2	
☐	☒	Year 3 ONLY: The estimates of pollutant loadings and event mean concentrations for each major outfall or each major watershed in accordance with Rule 62-624.600(2)(b), F.A.C.	Part V.A	
☐	☒	YEAR 3: Summary of TMDL Monitoring Results (if applicable).	Part VIII.B.2	
☐	☒	YEAR 3: Bacteria Pollution Control Plan (if applicable).	Part VIII.B.3	
☒	☐	YEAR 4: A follow-up report on plan implementation of changes to codes and regulations to reduce the stormwater impact from development.	Part III.A.2	See Attachment A
☐	☒	YEAR 4: A report on any amendments to the applicable legal authority (if applicable).	Part III.A.7.a	See Attachment A
☒	☐	YEAR 4: Permit re-application information in accordance with Rule 62-624.420(2), F.A.C. • The monitoring plan (with revisions, if applicable). • If the total annual pollutant loadings have not decreased over the past two permit cycles, revisions to the SWMP, as appropriate.	Part V.B.3 Part V.A.3	Refer to Cycle 4 Year 4 Joint Annual Report
☐	☒	YEAR 4: TMDL Supplemental SWMP (if applicable).	Part VIII.B.3	

DO NOT SUBMIT ANY OTHER MATERIALS

(such as records and logs of activities, monitoring raw data, public outreach materials, etc.)

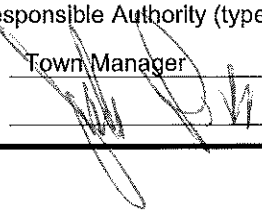
SECTION VI. CERTIFICATION STATEMENT AND SIGNATURE

The Responsible Authority listed in Section I.F above must sign the following certification statement, as per Rule 62-620.305, F.A.C.:

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

Name of Responsible Authority (type or print): Joseph F. LoBello

Title: Town Manager

Signature: 

Date: 3/12/2021

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.	C.	D.	E.	F.																																																																																	
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments																																																																																	
Part III.A.1	Structural Controls and Stormwater Collection Systems Operation																																																																																					
	Report the current known inventory.																																																																																					
	Report the number of inspection and maintenance activities conducted for each applicable type of structure included in Table II.A.1.a, and the percentage of the total inventory of each type of structure inspected and maintained.																																																																																					
	<i>Note: Delete structures that are not in your MS4's inventory. The permittee may choose its own unit of measurement for each structural control to be consistent with the unit of measurement in the documentation. Unit options include: miles, linear feet, acres, etc.</i>																																																																																					
	<table border="1"> <thead> <tr> <th>Type of Structure</th> <th>Number of Structures</th> <th>Number of Inspections</th> <th>Percent Inspected</th> <th>Number of Maintenance Activities</th> <th>Percent Maintained</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Exfiltration trench / French drains (if)</td> <td>1000</td> <td>2</td> <td>100</td> <td>4</td> <td>100</td> <td>Inspection Form</td> <td>DPW</td> <td>2x Annual</td> </tr> <tr> <td>Grass treatment swales (miles)</td> <td>2</td> <td>12</td> <td>100</td> <td>4</td> <td>100</td> <td>Inspection Form</td> <td>DPW</td> <td>2x Annual</td> </tr> <tr> <td>Wet detention systems</td> <td>1</td> <td>4</td> <td>100</td> <td>2</td> <td>100</td> <td>Inspection Form</td> <td>DPW</td> <td>2x Annual</td> </tr> <tr> <td>Major outfalls</td> <td>2</td> <td>4</td> <td>100</td> <td>2</td> <td>100</td> <td>Inspection Form</td> <td>DPW</td> <td>2x Annual</td> </tr> <tr> <td>Weirs or other control structures</td> <td>1</td> <td>4</td> <td>100</td> <td>1</td> <td>100</td> <td>Inspection Form</td> <td>DPW</td> <td>2x Annual</td> </tr> <tr> <td>pipes / culverts (miles)</td> <td>1.2</td> <td>4</td> <td>50</td> <td>2</td> <td>25</td> <td>Inspection Form</td> <td>DPW</td> <td>2x Annual</td> </tr> <tr> <td>Inlets / catch basins / grates</td> <td>125</td> <td>256</td> <td>100</td> <td>2</td> <td>100</td> <td>Inspection Form</td> <td>DPW</td> <td>2x Annual</td> </tr> <tr> <td>Ditches / conveyance swales (miles)</td> <td>0.5</td> <td>24</td> <td>100</td> <td>2</td> <td>100</td> <td>Inspection Form</td> <td>DPW</td> <td>2x Annual</td> </tr> </tbody> </table>	Type of Structure	Number of Structures	Number of Inspections	Percent Inspected	Number of Maintenance Activities	Percent Maintained				Exfiltration trench / French drains (if)	1000	2	100	4	100	Inspection Form	DPW	2x Annual	Grass treatment swales (miles)	2	12	100	4	100	Inspection Form	DPW	2x Annual	Wet detention systems	1	4	100	2	100	Inspection Form	DPW	2x Annual	Major outfalls	2	4	100	2	100	Inspection Form	DPW	2x Annual	Weirs or other control structures	1	4	100	1	100	Inspection Form	DPW	2x Annual	pipes / culverts (miles)	1.2	4	50	2	25	Inspection Form	DPW	2x Annual	Inlets / catch basins / grates	125	256	100	2	100	Inspection Form	DPW	2x Annual	Ditches / conveyance swales (miles)	0.5	24	100	2	100	Inspection Form	DPW	2x Annual				
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	If the minimum inspection frequencies set forth in Table II.A.1.a. were not met, provide as an attachment an explanation of why they were not and a description of the actions that will be taken to ensure that they will be met.																																																																																					

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.1 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit. Strengths: Structural Controls Inspected and maintained on regular basis Limitations: none				
Part III.A.2	SWMP revisions implemented to address limitations: None necessary Areas of New Development and Significant Redevelopment				
	Report the number of significant development projects, including new and redevelopment, reviewed and approved by the permittee for post-development stormwater considerations.				
	Number of significant development projects reviewed	0	Note From P&Z	P&Z	
	Number of significant development projects approved	0	Note From P&Z	P&Z	
	Provide in the Year 2 Annual Report the summary report of the review activity. Provide in the Year 4 Annual Report the follow-up report on plan implementation.				
	Year 2 ONLY: Attach the summary report of the review activity	☐	N/A		
	Year 4 ONLY: Attach the follow-up report on plan implementation	☒	Note from P&Z	P&Z	No Changes
	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
Part III.A.2 Summary	Strengths: No Significant Development this year Limitations: None				
	SWMP revisions implemented to address limitations: N/A				
Part III.A.3	Roadways				
	Report on the litter control program, including the frequency of litter collection, an estimate of the total number of road miles cleaned or amount of area covered by the activities, and an estimate of the quantity of litter collected. Note: If the permittee does not contract activities, delete CONTRACTOR activities.				
	PERMITTEE Litter Control: Frequency of litter collection	2X Annual	Sign in Sheet	Volunteers/DPW	DPW Records
	PERMITTEE Litter Control: Estimated amount of area maintained (lf)	1800	Route Slips	Volunteers/DPW	DPW Records
	PERMITTEE Litter Control: Estimated amount of litter collected (cy)	12.0	Weight Slips	SWA	DPW Records
	CONTRACTOR Litter Control: Frequency of litter collection	0	0	0	N/A
	CONTRACTOR Litter Control: Estimated amount of area maintained (lf)	0	0	0	N/A
	CONTRACTOR Litter Control: Estimated amount of litter collected (cy)	0	0	0	N/A
	OPTIONAL: If an Adopt-A-Road or similar program is implemented, report the total number of road miles cleaned and an estimate of the quantity of litter collected. If you do not participate in an Adopt-A-Road program, report "0".				
	Trash Pick-up Events: Total miles cleaned	2.5	Sign in Sheet	Volunteers/DPW	DPW Records
	Trash Pick-up Events: Estimated amount of litter collected (cy)	1.5	Weight Slip	Volunteers/DPW	DPW Records
	Adopt-A-Road: Total miles cleaned	0.5	Signage	Private Volunteers	None
	Adopt-A-Road: Estimated amount of litter collected (cy)	>1	Estimate	Private Volunteers	None

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Report on the street sweeping program, including the frequency of the sweeping, total miles swept, an estimate of the quantity of sweepings collected, and the total nitrogen and total phosphorus loadings that were removed by the collection of sweepings. If no street sweeping program is implemented, provide the explanation of why not in column F.	Frequency of street sweeping Total miles swept Estimated quantity of sweeping material collected (cy / tons) Total phosphorus loadings removed (pounds) Total nitrogen loadings removed (pounds)	4X Annual Invoice Invoice Invoice FSA Worksheet FSA Worksheet	Pro Sweep Pro Sweep Public Works Public Works Public Works	DPW Records DPW Records DPW Records FSA Calculator FSA Calculator
	Report the equipment yards and maintenances shops that support road maintenance activities, and the number of inspections conducted for each facility.	21			
	Name of Facility	Number of Inspections			
	DPW Maintenance Facility	2	Inspection Form	DPW Staff	2X annually
Part III.A.3 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: the litter control program continues to assist with the reduction of pollutants being discharged				
	Limitations: None				
	SWMP revisions implemented to address limitations: N/A				
Part III.A.4	Flood Control Projects				
	Report the total number of flood control projects that were constructed by the permittee during the reporting period and the number of those projects that did NOT include stormwater treatment. The permittee shall provide a list of the projects where stormwater treatment was not included with an explanation for each of why it was not.				
	Report on any stormwater retrofit planning activities and the associated implementation of retrofitting projects to reduce stormwater pollutant loads from existing drainage systems that do not have treatment BMPs.				
	Flood control projects completed during the reporting period	0	Note from P&Z	P&Z	
	Flood control projects completed that did not include stormwater treatment	0	Note from P&Z	P&Z	
	Stormwater retrofit projects planned/under construction	0	Note from P&Z	P&Z	
	Stormwater retrofit projects completed	0	Note from P&Z	P&Z	
	If there were projects that did not include stormwater treatment, provide as an attachment a list of the projects and an explanation for each of why it did not.	☐			
	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
Part III.A.4 Summary	Strengths: No areas identified as needing improvement during inspection and maintenance of Town Facilities				
	Limitations: none				
	SWMP revisions implemented to address limitations: n/a				

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.5	Municipal Waste Treatment, Storage, and Disposal Facilities Not Covered by an NPDES Stormwater Permit				
	Report the applicable facilities and the number of the inspections conducted for each facility.				
	Name of Facility	Number of Inspections			
	0	0	Note from PW	PW	No Facility
Part III.A.5 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: N/A				
	Limitations: N/A				
	SWMP revisions implemented to address limitations: N/A				
Part III.A.6	Pesticides, Herbicides, and Fertilizer Application				
	Report the number of permittee personnel applicators and contracted commercial applicators of pesticides and herbicides who are FDACS certified / licensed.				
	Report the number of permittee personnel who have been trained through the Green Industry BMP Program and the number of contracted commercial applicators of fertilizer who are FDACS certified / licensed.				
	PERSONNEL: FDACS public applicators of pesticides/herbicides	1	FDACS License	DPW Staff	
	CONTRACTORS: FDACS commercial applicators of pesticides/herbicides	2	FDACS License	Beach Environmental	
	PERSONNEL: Green Industry BMP Program training completed	0	SOP	DPW	
	CONTRACTORS: FDACS certified / licensed applicators of fertilizer	2	FDACS License	Complete Property Maintenance	
	Provide a copy of the adopted ordinance with the Year 2 Annual Report. If this provision is not applicable because the permittee is not within the watershed of a nutrient-impaired water body, indicate that in Column F.				
	Year 2 ONLY: Attach copy of adopted Florida-friendly ordinance	☐			
	Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage citizens to reduce their use of pesticides, herbicides and fertilizers including the type and number of activities conducted, the type and number of materials distributed, and the number of Web site visits (if applicable).				
	Public Education and Outreach Program				
	Brochures/Flyers/Fact sheets distributed	5000	Mailing List	Town Clerk	2X Annual
	Neighborhood presentations: Number conducted	1	HOA Meeting	DPW	Town Center
	Neighborhood presentations: Number of participants	18	HOA Meeting	DPW	Town Center
	Newspapers & newsletters: Number of articles/notices published	2	Newsletter	Town Clerk	Newsletter
	Newsletters: Number of newsletters distributed	5000	Mailing List	Town Clerk	2X Annually
	Public displays (e.g., kiosks, storyboards, posters, etc.)	1 kiosk	Pamphlets	Town Clerk	Town Center

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Number of visitors to stormwater-related pages	430	Website	Town Clerk	Town Website
Part III.A.6 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: Continue to ensure proper Training and display of educational information and materials				
	Limitations: none				
	SWMP revisions implemented to address limitations: n/a				
Part III.A.7.a	Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures				
	Report amendments in Year 4.				
	Year 4 ONLY: Attach a report on amendments to applicable legal authority	☒	Memo from P&Z	P&Z	Attachment B
Part III.A.7.c	Illicit Discharges and Improper Disposal — Investigation of Suspected Illicit Discharges and/or Improper Disposal				
	Report on the proactive inspection program, including the number of inspections conducted by the permittee, the number of illicit activities found, and the number and type of enforcement actions taken.				
	Proactive inspections for suspected illicit discharges	7	Code Inspection Reports	Code Inspection/DPW	Routine Inspection
	Illicit discharges found during a proactive inspection	3	Code Inspection Reports	Code Compliance	Inspection Report
	NOV/WL/citation/fines issued for illicit discharges found during proactive inspection	3	Code Inspection Reports	Code Compliance	Inspection Report
	Report on the reactive investigation program as it relates to responding to reports of suspected illicit discharges, including the number of reports received, the number of investigations conducted, the number of illicit activities found, and the number and type of enforcement actions taken.				
	Reports of suspected illicit discharges received	7	Code Inspection Reports	Code Compliance	Inspection Report
	Reactive investigations of reports of suspected illicit discharges etc.	7	Code Inspection Reports	Code Compliance	Inspection Report
	Illicit discharges etc. found during reactive investigation	3	Code Inspection Reports	Code Compliance	Inspection Report
	NOV/WL/citation/fines issued for illicit discharges etc. found during reactive investigation	3	Code Inspection Reports	Code Compliance	Inspection Report
	Report the type of training activities, and the number of permittee personnel and contractors trained (both in-house and outside training) within the reporting year.				
	Personnel trained	3	Sign in Sheet	NPBCID	

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Contractors trained	2	Sign in Sheet	NPBCID	
Part III.A.7.d	Illicit Discharges and Improper Disposal — Spill Prevention and Response				
	Report on the spill prevention and response activities, including the number of spills addressed.				
	Hazardous and non-hazardous material spills responded to	0	Note from PW	PW	
	Report the type of training activities, and the number of permittee personnel and contractors trained (both in-house and outside training) within the reporting year.				
	Personnel trained	3	Sign in Sheet	NPBCID	
	Contractors trained	2	Sign in Sheet	NPBCID	
Part III.A.7.e	Illicit Discharges and Improper Disposal — Public Reporting				
	Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage the public reporting of suspected illicit discharges and improper disposal of materials, including the type and number of activities conducted, the type and number of materials distributed, and the number of Web site visits (if applicable).				
	Public Education and Outreach Program				
	Brochures/Flyers/Fact sheets distributed	5000	Mailing List	Town Clerk	2X Annual
	Neighborhood presentations: Number conducted	1	HOA Meeting	DPW	Town Center
	Neighborhood presentations: Number of participants	18	HOA Meeting	DPW	Town Center
	Newspapers & newsletters: Number of articles/notices published	2	Newsletter	Town Clerk	Newsletter
	Newsletters: Number of newsletters distributed	5000	Mailing List	Town Clerk	2X Annually
	Public displays (e.g., kiosks, storyboards, posters, etc.)	1 Kiosk	Pamphlets	Town Clerk	Town Center
	Number of visitors to stormwater-related pages	430	Website	Town Clerk	Town Website
Part III.A.7.f	Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control				
	Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage the proper use and disposal of oils, toxics, and household hazardous waste, including the type and number of activities conducted, the type and number of materials distributed, the amount of waste collected / recycled / properly disposed, and the number of Web site visits (if applicable).				
	Public Education and Outreach Program				
	Brochures/Flyers/Fact sheets distributed	5000	Mailing List	Town Clerk	2X Annual
	Neighborhood presentations: Number conducted	1	HOA Meeting	DPW	Town Center
	Neighborhood presentations: Number of participants	18	HOA Meeting	DPW	Town Center
	Newspapers & newsletters: Number of articles/notices published	2	Newsletter	Town Clerk	Newsletter
	Newsletters: Number of newsletters distributed	5000	Mailing List	Town Clerk	2X Annually
	Public displays (e.g., kiosks, storyboards, posters, etc.)	1 Kiosk	Pamphlets	Town Clerk	Town Center

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.		C.		D.		E.		F.	
	Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed		Documentation / Record		Entity Performing the Activity		Comments	
		Storm sewer inlets newly marked/replaced Number of visitors to stormwater-related pages	20 430		DPW Website		DPW Staff Town Clerk		DPW Records Town Website	
Part III.A.7.g		Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage								
		Report on the type and number of activities undertaken to reduce or eliminate SSOs and inflow / infiltration, the number of SSOs or inflow / infiltration incidents found and the number resolved, and the name of the owner of the sanitary sewer system within the permittee's jurisdiction. Report only the SSOs and inflow / infiltration incidents into the MS4.								
		Owner of the sanitary sewer system								
		Activity to reduce/eliminate SSOs and I&I: (description)								
			1/10000		On file at Utility Provider office		SUA/LRD		SUA Replaced a lift station and gravity main. LRD lined gravity main	
		Activity to reduce/eliminate SSOs and I&I: (description)								
			0/271		On file at Utility Provider office		SUA/LRD		Sewer service lined. Quantity for entire LRD, records not separated by municipality	
		SSO incidents discovered								
			0/40		On file at Utility Provider office		SUA/LRD		Quantity for entire LRD, records not separated by municipality	
		SSO incidents resolved								
			0/40		On file at Utility Provider office		SUA/LRD		Quantity for entire LRD, records not separated by municipality	
		Inflow / infiltration incidents discovered								
			0/?		On file at Utility Provider office		SUA/LRD		Quantity for entire LRD, records not separated by municipality	
		Inflow / infiltration incidents resolved								
			0/?		On file at Utility Provider office		SUA/LRD		Quantity for entire LRD, records not separated by municipality	

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE						
A.	B.	C.	D.	E.	F.	
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments	
Part III.A.7 Summary	For activities required by Part III.A.7: Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit. Strengths: Continued Training and education helps maintain knowledge of systems Limitations: None SWMP Revisions implemented to address limitations: n/s					
Part III.A.8.a	Industrial and High-Risk Runoff — Identification of Priorities and Procedures for Inspections Report on the high-risk facilities inventory, including the type and total number of high risk facilities and the number of facilities newly added each year. Report on the high-risk facilities inspection program, including the number of inspections conducted and the number and type of enforcement actions taken.					
	Type of Facility	Number of Facilities	Number of Inspections	Enforcement Actions		
	Operating municipal landfills	0	0	0	DEP	
	Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities	1	2	0	DPW	
	EPCRA Title III, Section 313 facilities (TRI)	0	0	0	DEP	
	Facilities determined as high risk by the permittee	0	0	0	DPW	
Part III.A.8.b	Industrial and High-Risk Runoff — Monitoring for High Risk Industries Report the number of high risk facilities sampled.					
	High risk facilities sampled	0		IDDE SOP	DPW	
	No high risk facilities in Town					
Part III.A.8 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit. Strengths: Routine inspections increase chance of eliminating pollutants Limitations: none SWMP revisions implemented to address limitations: n/a					
Part III.A.9.a	Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices Report the number of permittee and private pre-construction site plans reviewed for stormwater, erosion, and sedimentation controls, and the number approved. PERMITTEE SITES: Construction site plans reviewed PERMITTEE SITES: Construction site plans approved PRIVATE SITES: Construction site plans reviewed PRIVATE SITES: Construction site plans approved Report the number of development permit applicants notified of the ERP and CGP, and the number of applicants who confirmed ERP and CGP coverage.					
	PERMITTEE SITES: Construction site plans reviewed	0		Note from P&Z	P&Z	
	PERMITTEE SITES: Construction site plans approved	0		Note from P&Z	P&Z	
	PRIVATE SITES: Construction site plans reviewed	1		Comment Letter	Consultant	
	PRIVATE SITES: Construction site plans approved	1		Approval Letter	Consultant	

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Notified of ERP stormwater permit requirements Confirmed ERP coverage	1	Comment Letter	Consultant	
	Notified of CGP stormwater permit requirements Confirmed CGP coverage	1	Approval Letter	Consultant	
		1	Comment Letter	Consultant	
		1	Approval Letter	Consultant	
Part III.A.9.b	Construction Site Runoff — Inspection and Enforcement				
	Report on the inspection program for privately-operated and permittee-operated construction sites, including the number of active construction sites during the reporting year, the number of inspections of active construction sites, the percentage of active construction sites inspected, and the number and type of enforcement actions / referrals taken.				
	PERMITTEE SITES: Active construction sites	0	Note from P&Z	P&Z	No new projects
	PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	0	Note from P&Z	P&Z	No new projects
	PERMITTEE SITES: Percentage of active construction sites inspected	0	Note from P&Z	P&Z	No new projects
	PRIVATE SITES: Active construction sites	0	Note from P&Z	P&Z	No new projects
	PRIVATE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	0	Note from P&Z	P&Z	No new projects
	PRIVATE SITES: Percentage of active construction sites inspected	0	Note from P&Z	P&Z	No new projects
	Enforcement Action				
Part III.A.9.c	Construction Site Runoff — Site Operator Training				
	Report the type of training activities, the number of inspectors, site plan reviewers and site operators trained (both in-house and outside training).				
	DEP Certification	Annual Training			
	Permittee construction site inspectors	3			
	Permittee construction site plan reviewers	1	Sign in sheet	NPBCID	
	Permittee construction site operators		Sign in sheet	NPBCID	
	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
Part III.A.9 Summary	Strengths: Routine training increases reduction in pollutants				
	Limitations: None				
	SWMP revisions implemented to address limitations: N/A				

SECTION VIII. CHANGES TO THE STORMWATER MANAGEMENT PROGRAM (SWMP) ACTIVITIES (Not Applicable in Year 4)

A.	Permit Citation/ SWMP Element	Proposed Changes to the Stormwater Management Program Activities Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change) — REQUIRES DEP APPROVAL PRIOR TO CHANGE IF PROPOSING TO REPLACE OR DELETE AN ACTIVITY.
		N/A
		N/A
		N/A
B.	Permit Citation/ SWMP Element	Changes to the Stormwater Management Program Activities NOT Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change)
		N/A
		N/A
		N/A

SECTION IX. TMDL Status Report

YEAR 1 Provide a table summarizing the status of the TMDL process. Include a list of prioritized TMDLs and their monitoring and implementation schedule; and include the Identification number of the outfall prioritized for TMDL monitoring.

WBID Number	Segment/ Waterbody/ Basin	Pollutant of Concern	TMDL DEP / EPA	Percent Reduction (WLA)	Priority Rank	Priority Outfall	Monitoring Summary / BPCP Due Date	Supplemental SWMP Due Date
N/A			☐ / ☐		1		(Year 3 AR)	(Year 4 AR; N/A) if BPCP
			☐ / ☐					
			☐ / ☐					

YEAR 3 and annually thereafter, provide a summary of the estimated load reductions that have occurred for the pollutant(s) of concern being discharged from the MS4 to the TMDL water body during the reporting period and cumulatively since the date the Supplemental SWMP was implemented.

Year 3: Submit a Monitoring data summary or BPCP (if applicable).

Year 4: Submit a Supplemental SWMP (if applicable).

WBID Number	Pollutant of Concern	Monitoring Summary / BPCP Submitted	Supplemental SWMP Submitted	Projected load reductions OR Actual load reductions to date				
N/A		(Year 3 AR)	(Year 4 AR; N/A if BPCP)					

C. Provide a brief statement as to the status of TMDL implementation according to Part VIII.B of the permit (e.g. status of monitoring to validate WLA):

No discharge to a TMDL WBID

Attachment A

The Town is currently working with the Palm Beach County NPDES Steering Committee, Town Staff and Legal Counsel to begin the process to modify Ordinance 440, 1993 to include Construction Site BMP's. Due to the legislative requirements for modifying ordinances it is estimated that this process will take 6 to 8 months to prepare and present to Town Council. Upon completion the Town will forward copies to your office.

The following SOP's have been revised and are attached for your files:

1. Construction Site Inspections
2. Construction Site Plan Review
3. Illicit Discharge Inspections

No other changes to the codes or regulations are necessary at this time.

Attachment A

The Town is currently working with the Palm Beach County NPDES Steering Committee, Town Staff and Legal Counsel to begin the process to modify Ordinance 440, 1993 to include Construction Site BMP's. Due to the legislative requirements for modifying ordinances it is estimated that this process will take 6 to 8 months to prepare and present to Town Council. Upon completion the Town will forward copies to your office.

The following SOP's have been revised and are attached for your files:

1. Construction Site Inspections
2. Construction Site Plan Review
3. Illicit Discharge Inspections

No other changes to the codes or regulations are necessary at this time.

Town of Juno Beach
Standard Operating Procedure
Construction Site Inspection
MS4 Permit Part III.9.b.

Construction site inspections, for stormwater, erosion, and sedimentation control, are conducted at permitted land-disturbing projects which have the potential to discharge stormwater runoff into our MS4. Inspections are conducted at permittee-owned projects as well as projects owned by others.

Priority of Site Inspections

The MS4 permit indicates the following shall be considered in prioritizing sites for inspection:

- Size – larger sites (as determined by us) shall be inspected more frequently
- Water body status – sites discharging to impaired waters or sensitive waters shall be inspected “more frequently”
- Significance of adverse water quality impacts – sites that we determine to be a significant threat to water quality shall be inspected more frequently
- Seasonality and rainfall – sites under construction during the wet season (or sites where rains greater than one inch occur) shall be inspected more frequently
- Historical considerations – our knowledge from past construction site inspection experiences
- Other criteria – as determined by us

In addition, the Town of Juno Beach shall consider the following when determining priority:

- Size – single-family lot construction disturbing less than one acre, and not part of a larger common plan of development, will not be entered into the construction inspection program and database. If a complaint is received for a site, it will be inspected under the illicit discharge investigation program.

Based on these considerations, the frequency of the construction site inspections for any given project, will be determined at the kick-off meeting (for permittee-owned projects) or when the notice of intent to start construction is received for construction projects owned by others. The frequency established will be noted on the inspection form.

Frequency

At a minimum, construction site inspections occur:

- Before the start of construction, after the placement of temporary BMPs

- During construction (one or more inspections, based on the project's potential for discharge to our MS4)
- At the end of the construction

Pre-Inspection Procedures

When a permittee-owned project has a kick-off meeting or a project owned by others has indicated its intent to begin construction, the following is done by the Planning & Zoning Department:

- The location of the project is mapped to identify if it is within the permittee's MS4 area and what part of the MS4 or surface water body would receive runoff from the site if/when there were discharge
- Verification is made that a copy of any ERP or coverage under CGP has been received, if it is warranted
- A master inspection form is created for the project, from the standard inspection checklist, that contains the name of the project, location, receiving water body, and inspection frequency (minimum, weekly, daily, etc.).
- The project is added to the Construction Site Inspection Tracking Database. The database contains the following information:
 - Site name
 - Site location
 - Site operator
 - ERP # (if issued)
 - CGP coverage proof provided
 - point of entry to MS4
 - potential receiving water body
 - inspection date
 - name of inspector
 - summary of inspection findings,
 - notice of violation issued
 - stop work order issued
 - fine issued
 - corrective action taken

Inspection Procedure

The permittee's inspectors are all certified Stormwater, Erosion and Sedimentation Control Inspectors, and conduct all construction site inspections under this program. At the appropriate times, each construction site is inspected with the intent of verifying that BMPs are in place and functioning as intended and that no conditions exist which would allow or promote the discharge of pollutants offsite

and into either the permittee's MS4 or a nearby receiving waterbody. The attached inspection form is used to guide the on-site inspection.

If an issue is identified by the inspector, and it is safe to do so, the issue will be brought to the attention of the site operator. The site operator will be given the opportunity to correct the issue immediately, or in a specified time frame (as determined by the inspector). Any issue that is not immediately addressed, is re-inspected by the same inspector at the end of the specified time frame. In cases where an issue has not been addressed, or where the issue is recurrent in nature, or if it is unsafe for the inspector to raise the issue with the site operator, then the situation will be referred to the permittee's code compliance division or other relevant agency with legal authority, such as FDEP, SFWMD, or another local government.

All completed construction inspection forms are turned in to, and maintained by the Planning & Zoning Department.

Enforcement

Instances of non-compliance will be handled with successively more rigorous enforcement measures.

- Notice of Violation
- Stop work order
- Fines

The construction site inspector will issue notices of violation or stop work orders as deemed necessary. Fines will be issued by Code Enforcement if necessary. Enforcement information and corrective action verification will be entered into the Construction Site Inspection Tracking Database.

Town of Juno Beach
Construction Site Runoff – Inspection and Enforcement
MS4 Permit Part III.9.b.
Construction Site Inspection Form

Date of Inspection: _____ Facility I.D. _____ Project/PWR# _____

Project Name & Location: _____

_____ Lat/Long of discharge point: _____

May Discharge to MS4? ☐ Yes ☐ No Receiving water body: _____

Project owner: ☐ Permittee ☐ Other

Site Operator: _____ Inspectors Name: _____

Inspection Frequency for Project (circle one): minimum weekly daily other _____

Inspection phase (circle one): initial intermediate final follow-up other _____

YES NO N/A

- | | | | |
|--------------------------|--------------------------|--------------------------|--|
| ☐ | ☐ | ☐ | Erosion & Sedimentation Controls installed and functioning properly? |
| ☐ | ☐ | ☐ | Any indication of sediment leaving the site (soil tracking)? |
| ☐ | ☐ | ☐ | Are all natural resources being protected with BMPs (canals, wetlands, trees)? |
| ☐ | ☐ | ☐ | Are all slopes and disturbed areas, not being actively worked, stabilized? |
| ☐ | ☐ | ☐ | Is a construction washout area provided, clearly marked and maintained? |
| ☐ | ☐ | ☐ | Are fuel tanks secondarily contained? |
| ☐ | ☐ | ☐ | Have prior non-compliance issues have been addressed? |
| ☐ | ☐ | ☐ | Are completed SWPPP inspection records available for viewing onsite? |
| ☐ | ☐ | ☐ | Any indications of illicit discharge, illegal dumping, or improper material storage? |

- ☐ A Violation of the EPA's Clean Water Act and Chapter 17, Article IX of the Municipal Ordinance has been noted on your property. Please make the necessary arrangements to rectify this violation. A secondary inspection will be made to ensure compliance. If a second inspection results in non-compliance Code Enforcement will be notified and a possible fine may be issued.

Comments:

Town of Juno Beach

Standard Operating Procedure

Construction Site Plan Review

MS4 Permit Part III.9.a.

The ***Town of Juno Beach*** reviews all proposed construction site plans that are submitted, including for projects that are City-owned. All ***Town of Juno Beach*** Site Plan Reviewers must successfully complete the FDEP Stormwater, Sedimentation and Erosion Control Inspector Training course.

With regard to this MS4 permit requirement, the ***Town of Juno Beach*** Site Plan Reviewer is specifically looking for the construction site plan to provide compliance with the local codes and/or land development regulations that require the use and maintenance of appropriate structural and non-structural erosion, sedimentation and waste controls during construction to reduce the discharge of pollutants to the MS4. Applicable codes/development regulations are contained in the Town of Juno Beach Code of Ordinances Chapter 32 Article VI – Stormwater Control.

The construction site plan is approved if it provides the appropriate and adequate structural and non-structural erosion, sedimentation and waste controls for the construction site. If it does not, the construction site plan is denied approval and the applicant must revise and resubmit.

The construction site plan review process also provides the opportunity to advise the applicant of the requirement to obtain all necessary stormwater environmental permits (ERP, DEP, USACE, etc.) and, if applicable, coverage under the *FDEP NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities*. Applicant is advised that confirmation of these permits and/or coverage will be required prior to the start of construction/land disturbance.

The ***Town of Juno Beach*** Site Plan Reviewer maintains a “Construction Site Plan Review” log or database of all construction site plans submitted and reviewed. The log/database includes the following information:

- Site or Project name and location
- Applicant name
- Applicant advised to obtain any required stormwater environmental permits
- Applicant advised they may need to obtain coverage under NPDES CGP
- Construction Site Plan Approved/Denied (for construction BMPs)
- Site Plan Re-submitted for review (if previously denied)
- Revised Site Plan Approved/Denied

The log or database serves as the documentation of the construction site plan review process and will be used to track the project’s approval and will also be used to summarize the numbers required in the MS4 Permit Annual Report Form.

The verification of any required stormwater environmental permits and/or coverage under the NPDES CGP is done as part of the Pre-Inspection procedures when and if a project moves into construction. (Many projects submitted for review never move to the construction phase.)

TOWN OF JUNO BEACH, FLORIDA

Standard Operating Procedure

For Illicit Discharge and Improper Disposal Inspection, Detection, and Elimination Program MS4 Permit Part III.7.c.

Our MS4 permit requires a program for inspection, identification, and elimination of sources of illicit discharges, illicit connection, illegal dumping, or other sources of non-stormwater discharge to our MS4. For Town of Juno Beach, the program is the responsibility of the Public Works Department.

Prioritization

In accordance with the permit, FDEP has indicated the following as the areas of our MS4 that should be prioritized for inspection:

- Watersheds with bacteria TMDLs
- Areas with older infrastructure*
- Areas of Industrial, commercial, or mixed land use designations
- Areas with history of past illicit discharges and/or illegal dumping
- Areas with on-site sewage disposal systems
- Areas upstream of sensitive or impaired water bodies

The attached map depicts the extent of our MS4 contributing area; areas with the land use designations of industrial, commercial, or mixed use; areas with on-site septic systems; and, currently identified impaired water body segments, as well as the areas within the MS4 that have been prioritized for inspection under this permit program. The prioritized areas are broken up into inspection zones that can be covered within one inspection outing, allowing the logging, and tracking of inspections for that zone. This map will be reviewed and updated each year by the Director of Public Works.

[* "Older infrastructure" has not been a viable indicator of an increased occurrence of illicit discharges/connections and/or improper disposal and is therefore not considered.]

Inspection Schedule

The prioritized areas of the MS4 contributing area are inspected annually by the Director of Public Works. Non-prioritized areas are inspected during MS4 structural control inspections and are documented on those inspection forms.

Proactive Inspection Process

All prioritized inspection zones will be subjected to a drive and/or walk-around inspection, during which the inspector will search for any indication of an illicit connection, illegal dumping, improper storage of materials, ineffective containment features, and/or any of the signs thereof. All inspectors receive initial and follow-up training, and understand the purpose and intent of the inspection, and what they are looking for. In general, the type of activity or indicators are: evidence of illicit connections to MS4,

evidence of dumping/spills, evidence of wash water going to MS4, storage tanks leaking or improperly contained, stockpiles/debris piles uncontained, etc.

For documentation purposes, the proactive zone inspections will be entered into the *Proactive Illicit Inspection Log* by Director of Public Works. The log will include the following information:

- Inspection zone designation
- Date of inspection
- Inspector name
- Number of incidents found (equals number of observation reports generated)

If any suspected illicit discharge is observed, then a site-specific observation report is completed (see attached) by the inspector. If it is possible, and safe to do so, the inspector will attempt to identify the source of the incident, and, if it is possible and safe to do so, endeavor to have the condition corrected.

All observation report forms are turned in to the Director of Public Works and are entered into the *Suspected Illicit Incident Log*, which contains the following information:

- Date of observed incident
- Inspector name or source of the reported incident
- Incident name (for tracking purposes)
- Confirmation of illicit incident
- Status: resolved, pending resolution, referred to code enforcement

All incidents reported, will be carried forward into the Reactive Investigation Process.

Incidents reported by others are also entered into the *Suspected Illicit Observation Log* by the Director of Public Works.

Incidents observed or reported that are not within our MS4, will be reported to the appropriate MS4 for follow-up. These incidents may also be reported to FDEP, FDOH and/or SFWMD, depending on the nature of the incident.

Reactive Investigation Process

All incidents entered into the *Suspected Illicit Observation Log* will be investigated by the Director of Public Works. These investigations will be documented on an Illicit Investigation Report (see attached), and the relevant information entered into the *Suspected Illicit Observation Log* by the Director of Public Works.

Visual investigation and physical tracking methods (residue identification, stream tracing, geographical impacts on discharge, etc) will be used to trace and identify the source of the incident.

If the source of a suspected incident is a facility that should be covered under the FDEP NPDES Multi-Sector Generic Permit for Stormwater Activity Associated with Industrial Activity, and it is determined that the facility does not have proper coverage, FDEP will be notified. This notification will be indicated on the investigation report.

The investigator(s) will determine the best method of removal/disposal of the source material(s) and recommend the best course of action to abate the incident and avoid further impacts on the MS4 or receiving water body. The investigator will advise the responsible party (facility manager, property owner, on site supervisor, etc.) and property owner, when necessary, on the best course of action to abate the incident and impacts to the permittee's MS4 (e.g. water quality impacts, soil contamination impacts, etc.). If the investigator cannot successfully resolve the incident, it will be referred to code compliance.

Code compliance will enter the incident into the code compliance tracking system and see the case through to resolution, enforcement, fines, etc.

Resources

Permittee staff involved in this program include:

Task	Position	Department
Inspection zone map	Director	Public Works
Proactive inspections	Director/Code Compliance Officer	Public Works/ Code Compliance
Inspection log	Director	Public Works
Suspected incident log	Director	Public Works
Reactive Investigator	Director/Code Compliance Officer	Public Works/ Code Compliance
Code violations	Code Compliance Officer	Code Compliance

Documentation of the program activities includes the following:

- Priority area map and inspection zones
- Proactive Illicit Incident Observation Form
- Reactive Suspected Illicit Investigation Report
- Illicit Inspection Log
- Suspected Illicit Observation Log
- Code compliance input/output

Proactive Illicit Incident Observation Form

Date of Inspection: _____ Illicit Inspection Zone: _____

Address of Incident (or description of location): _____

Description of incident:

Source of incident identified? Yes No

If so, who/what: _____

If the incident was resolved, describe:

Otherwise, date incident was referred for investigation: _____

Reactive Suspected Illicit Investigation Report

Date of Investigation: _____ Date incident was reported: _____

Address of Incident (or description of location): _____

If Facility, does type of business require an MSGP? Yes No

If yes, does this facility have one? Yes No

If not, date referred to FDEP: _____

Was an illicit incident confirmed? Yes No

Was the source identified? Yes No

Was the incident resolved? Yes No

If "yes," describe resolution:

If corrective action is to be taken, date for re-inspection: _____

Was Enforcement Action Taken? Yes No

Describe: _____



ONE 2

- 420 CELESTIAL WAY - RESIDENTIAL/CONDO
- 400 CELESTIAL WAY - PRIVATE CLUB
- 340 OCEAN DRIVE - MUNICIPAL
- 13211 US1 - COMMERCIAL/MEDICAL
- 685 ROLLING GREEN RD. - MUNICIPAL
- 13301 ELLISON WILSON - CHURCH
- 12870 US1 - MUNICIPAL (FIRE STATION)
- 12830 US1 - COMMERCIAL/RETAIL
- 12800 US1 - COMMERCIAL/RETAIL
- 3. 12770 US1 - COMMERCIAL/RETAIL
- 1. 12750 US1 - GAS STATION

Town of Juno Beach
MS4 Permit No. FLS000018-004
Part V. – Monitoring Requirements; Sub-part A. –
Assessment Program – 2019-2020

Assessment Program Objective

The purpose of this assessment program is to provide information for the Town of Juno Beach to determine the overall effectiveness of its Stormwater Management Program (SWMP) in reducing stormwater pollutant loadings from its Municipal Separate Storm Sewer System (MS4) to receiving water bodies.

Assessment Program Components

As required by the MS4 Permit, the following parts make up this Assessment Program:

- A. **A Water Quality Monitoring Plan** – The water quality monitoring plan is intended to identify local sources where urban stormwater is adversely affecting surface water resources
- B. **A Pollutant Loading Estimate Plan** – The pollutant loading exercise is to estimate the Pollutant Loading from the MS4 contributing area, based on land uses and BMPs
- C. **An Evaluation and Response Plan** – The response plan is the plan of action to be taken based on the results from A. and B. and will be used to:
 - 1. evaluate trends in pollutants loading from the MS4
 - 2. evaluate trends in water quality (of discharge from the MS4)
 - 3. identify portions of the MS4 to be targeted for loading reduction/corrective action

Part A – Water Quality Monitoring Plan

Currently, the joint NPDES program in Palm Beach County collects ambient water quality data at several monitoring sites based on the locations of major outfalls and TMDL's within the County. For the Water Quality Monitoring Plan, the Town of Juno Beach is proposing to use the ambient water quality data provided by the joint program.

Monitoring Locations

The Town of Juno Beach has been determined to discharge into 2 separate watersheds, the Intercoastal Waterway North (ICWWN) and the Lake Worth Lagoon (LWL) and represents 0.81% of the overall ICWWN Watershed and 0.25% of the LWL Watershed. The Town will utilize data for discharge to LWL from Monitoring Station 1 located 1.7± miles south of the Town's MS4, and discharge to ICWWN from Monitoring Station 30 located 3.0± miles north of the Town's MS4. See attached Watershed Boundaries map for additional location information.

The Town of Juno Beach has reviewed the nutrient monitoring data results at the above monitoring locations. The Nutrient Trends are provided in the Joint Annual Report prepared by Mock Roos. The trends for Monitoring Stations 1 & 30 show decreasing trends. Refer to attached Table 5-11 Pages 7 and 8.

Part B – Pollutant Loading Estimate Plan

The Palm Beach County MS4 permittee group has developed pollutant loading estimates during the 3rd year of this permit cycle, using the SIMPLE protocol. The group has provided the loading estimates by watershed broken down into MS4 areas for the 6 required water quality parameters.

The results are summarized below and include for 2018 a 6% reduction for public education as well as reductions in the phosphorus and nitrogen loadings as a result of the Town's street sweeping program as is allowed by FDEP.

	PARAMETERS (LBS/YEAR)					
	BOD5	TSS	TP	CU	ZN	TN
2013 Loads to ICWNN	6095	15775	185	11	65	2200
2013 Loads to LWL	2719	14972	129	5	25	806
TOTAL 2013	8814	30747	314	16	90	3006

2018 Loads to ICWNN	5673	12382	171	10	60	2139
2018 Loads to LWL	2428	12239	112	4	21	735
TOTAL 2018	8101	24621	283	14	81	2874

REDUCTIONS

PUBLIC EDUCATION (6%)	486	1477	17	1	5	172
STREET SWEEPING (FY19)	0	0	13	0	0	21
TOTAL LOADING 2018	7615	23144	253	13	76	2681

PERCENT REDUCTION **14%** **25%** **19%** **18%** **15%** **11%**

(refer to Tables 23, 26 & 27 from the Summary of Average Pollutant Loading Model Activities prepared by Mock Roos (2019) and included in the C4Y3 Joint Report as well as the 2020 Juno Annual Report)

As shown in the above analysis and the attached Monitoring Trends Graphs for phosphorus, nitrogen and chlorophyll-a show decreasing values.

Part C – Evaluation and Response Plan

Analysis of the pollutant loading estimates for both monitoring stations indicate a reduction in nutrients over the past two permit cycles and suggest that the current SWPPP programs are effective in reducing stormwater runoff and therefore there is no need for additional stormwater management programs at this time.

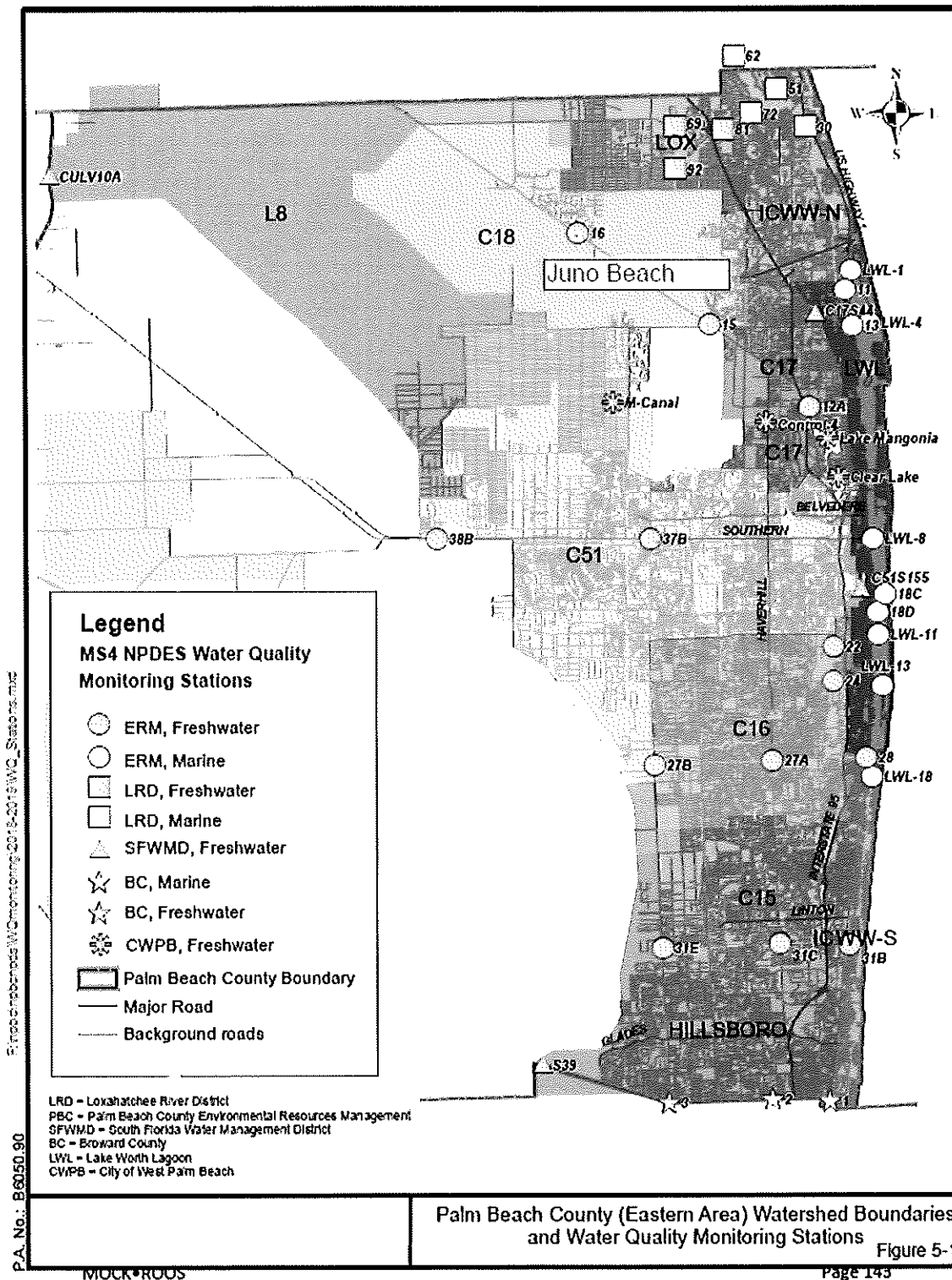


Table 5-11
Water Quality Trends
ICWW-N Watershed

Page 7 of 14

Total Nitrogen

Site	Date Range	Tau	Slope ¹	Selected P-Value ²	Statistical Trend Interpretation ³
3D	2000 - 2020	-0.219147	-0.000060	0.001723	Significant Decreasing Trend

Total Phosphorus

Site	Date Range	Tau	Slope ¹	Selected P-Value ²	Statistical Trend Interpretation ³
3D	2000 - 2020	-0.096400	-0.000001	0.166691	Decreasing Trend

Total Chlorophyll-a (corrected)

Site	Date Range	Tau	Slope ¹	Selected P-Value ²	Statistical Trend Interpretation ³
3D	2000 - 2020	-0.114973	-0.000268	0.118170	Decreasing Trend

¹ Even if the p-value is determined to be statistically significant, the result may not be ecologically significant. For example, if a trend is statistically significantly declining (negative trend) and the concentration is low in the water, then it may not be realistic to assume that an improvement in water quality by reductions in TN or TP may positively impact the ecological system in a measurable way. A negative slope is an indication of a decreasing trend, while a positive slope is an indication of an increasing trend.

² Results contain serial correlation (as per autocorrelation analysis results) used the p-value adjusted for serial correlation.

³ If the p-value is less than 0.05, then a decreasing trend may suggest an improvement in water quality, and an increasing trend may suggest a decline in water quality.

Table 5-11
Water Quality Trends
Lake Worth Lagoon North Watershed
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Total Nitrogen

Site	Date Range	Tau	Slope ¹	Selected P-Value ²	Statistical Trend Interpretation ³
LWL-1	1999 - 2020	-0.273935	-0.000036	< 0.0001	Significant Decreasing Trend
11	1999 - 2020	-0.359838	-0.000066	< 0.0001	Significant Decreasing Trend
13	2000 - 2020	-0.322581	-0.000083	< 0.0001	Significant Decreasing Trend
LWL-4	2004 - 2020	-0.243326	-0.000024	< 0.0001	Significant Decreasing Trend

Total Phosphorus

Site	Date Range	Tau	Slope ¹	Selected P-Value ²	Statistical Trend Interpretation ³
LWL-1	1999 - 2020	-0.113614	-0.000001	0.062129	Decreasing Trend
11	1999 - 2020	0.165389	0.000003	0.002193	Significant Increasing Trend
13	2000 - 2020	0.098895	0.000002	0.071381	Increasing Trend
LWL-4	2004 - 2020	-0.253186	-0.000001	< 0.0001	Significant Decreasing Trend

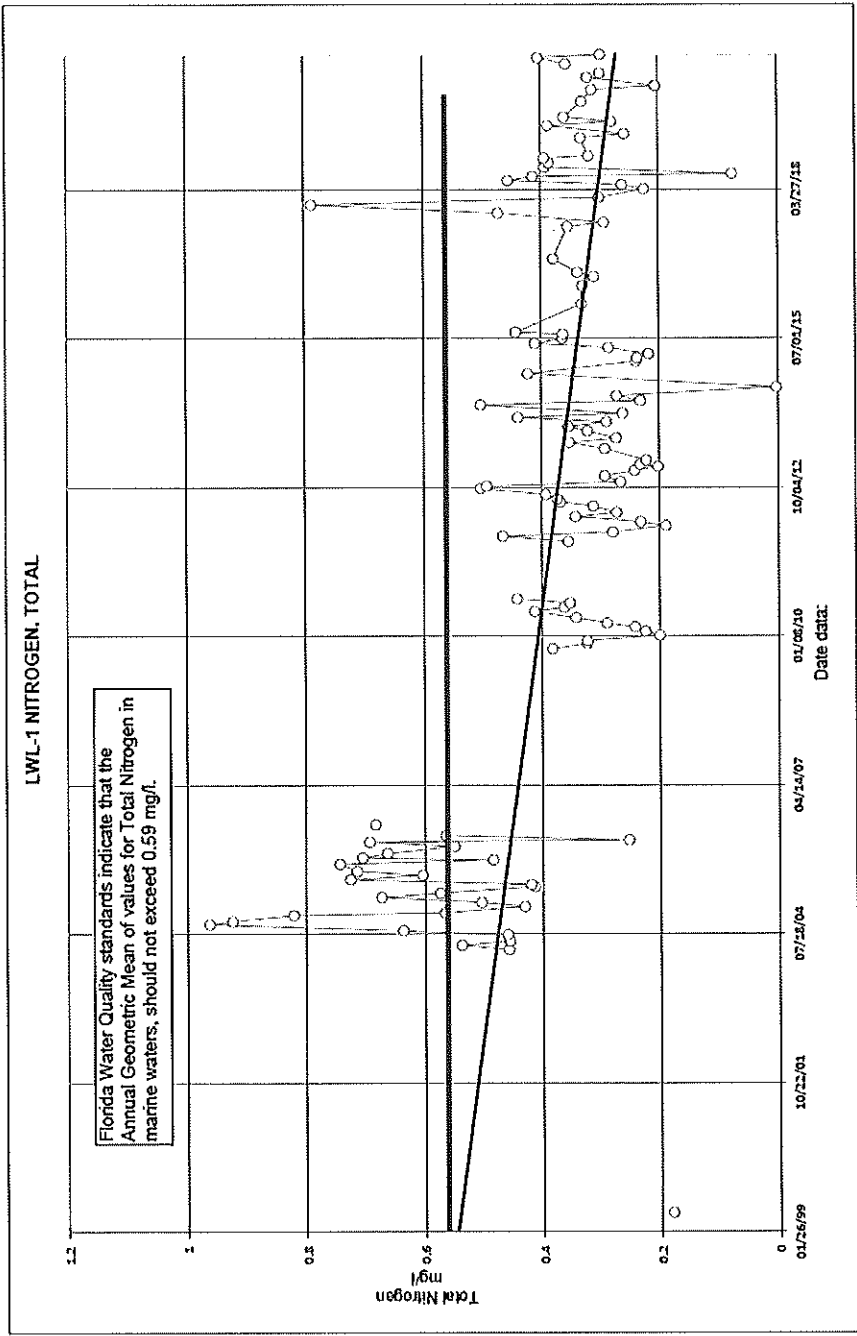
Total Chlorophyll-a (corrected)

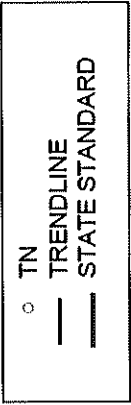
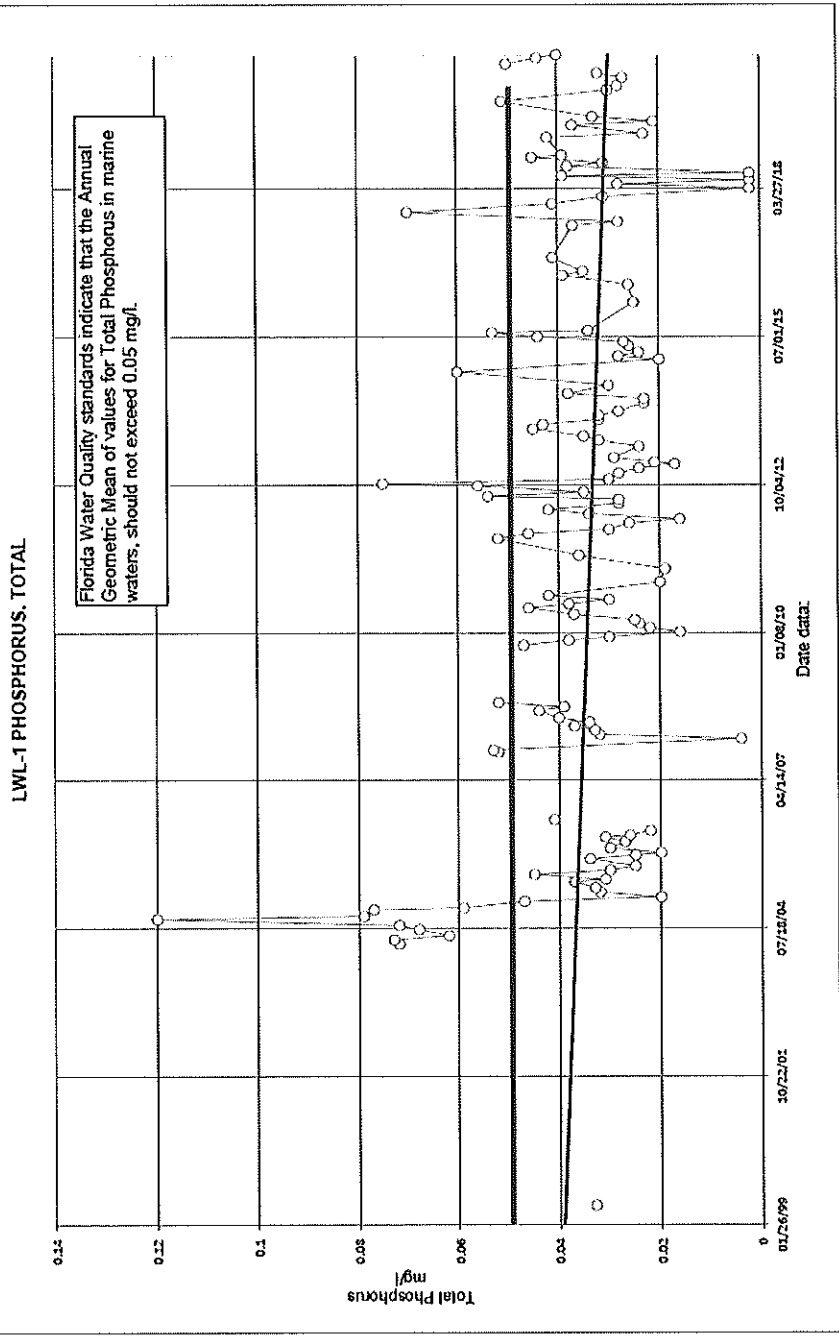
Site	Date Range	Tau	Slope ¹	Selected P-Value ²	Statistical Trend Interpretation ³
LWL-1	1999 - 2020	-0.145941	-0.000293	0.020744	Significant Decreasing Trend
11	1999 - 2020	0.006199	0.000003	0.911591	Increasing Trend
13	2000 - 2020	0.035742	0.000073	0.518773	Increasing Trend
LWL-4	2004 - 2020	-0.074587	-0.000055	0.233583	Decreasing Trend

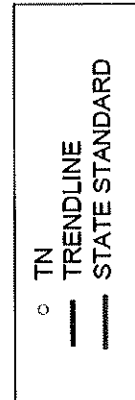
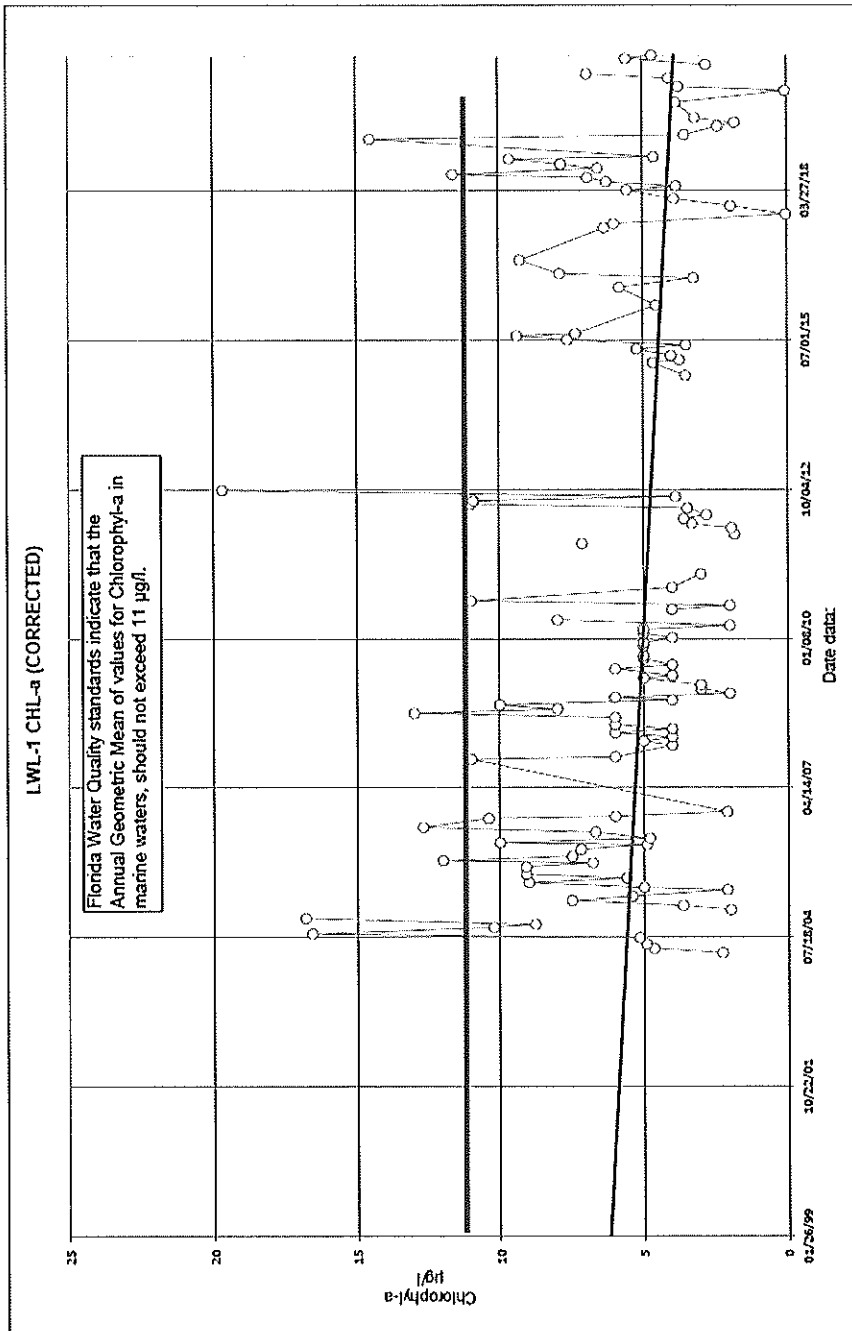
¹ Even if the p-value is determined to be statistically significant, the result may not be ecologically significant. For example, if a trend is statistically significantly declining (negative trend) and the concentration is low in the water, then it may not be realistic to assume that an improvement in water quality by reductions in TN or TP may positively impact the ecological system in a measurable way. A negative slope is an indication of a decreasing trend, while a positive slope is an indication of an increasing trend.

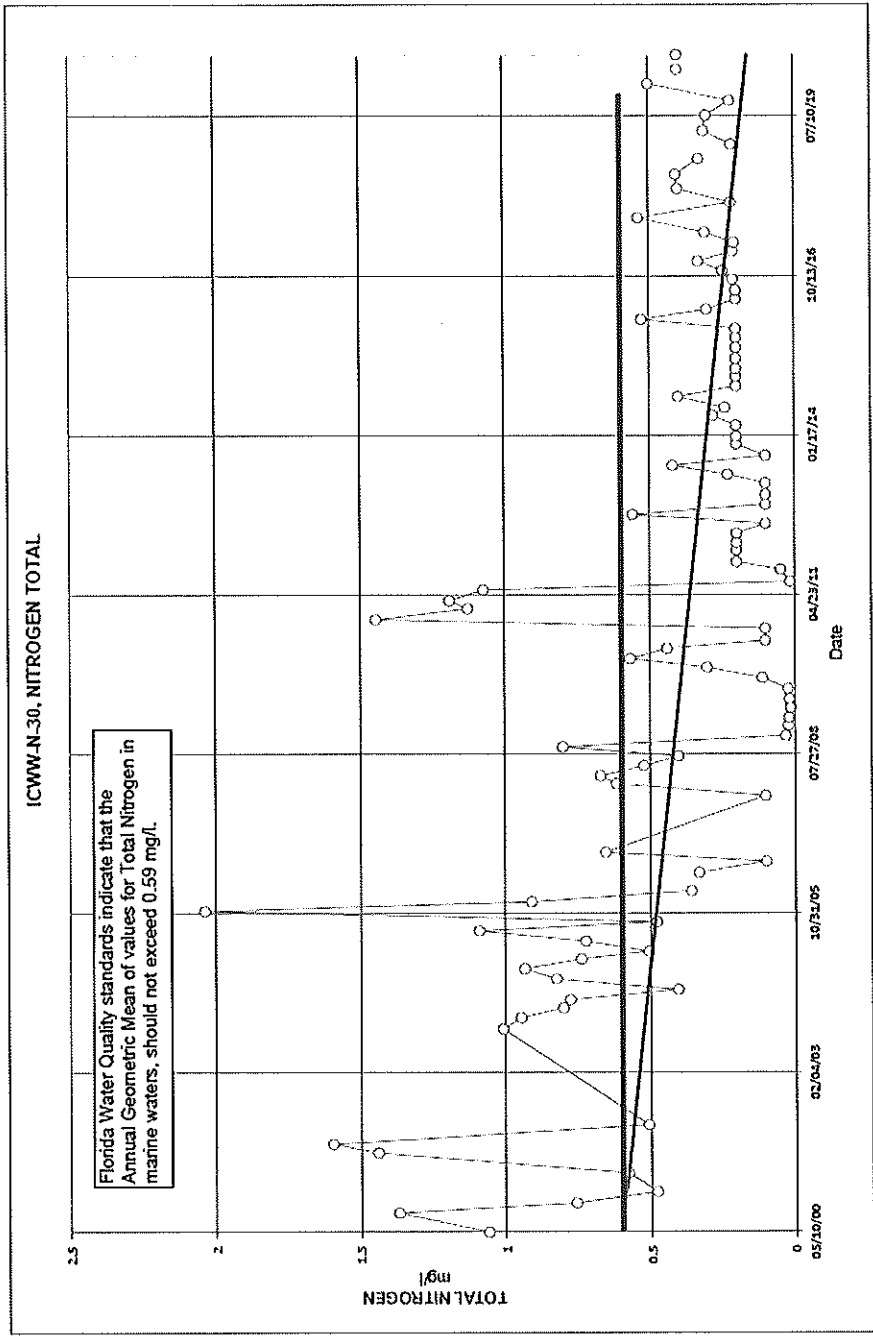
² Results contain serial correlation (as per autocorrelation analysis results) used the p-value adjusted for serial correlation.

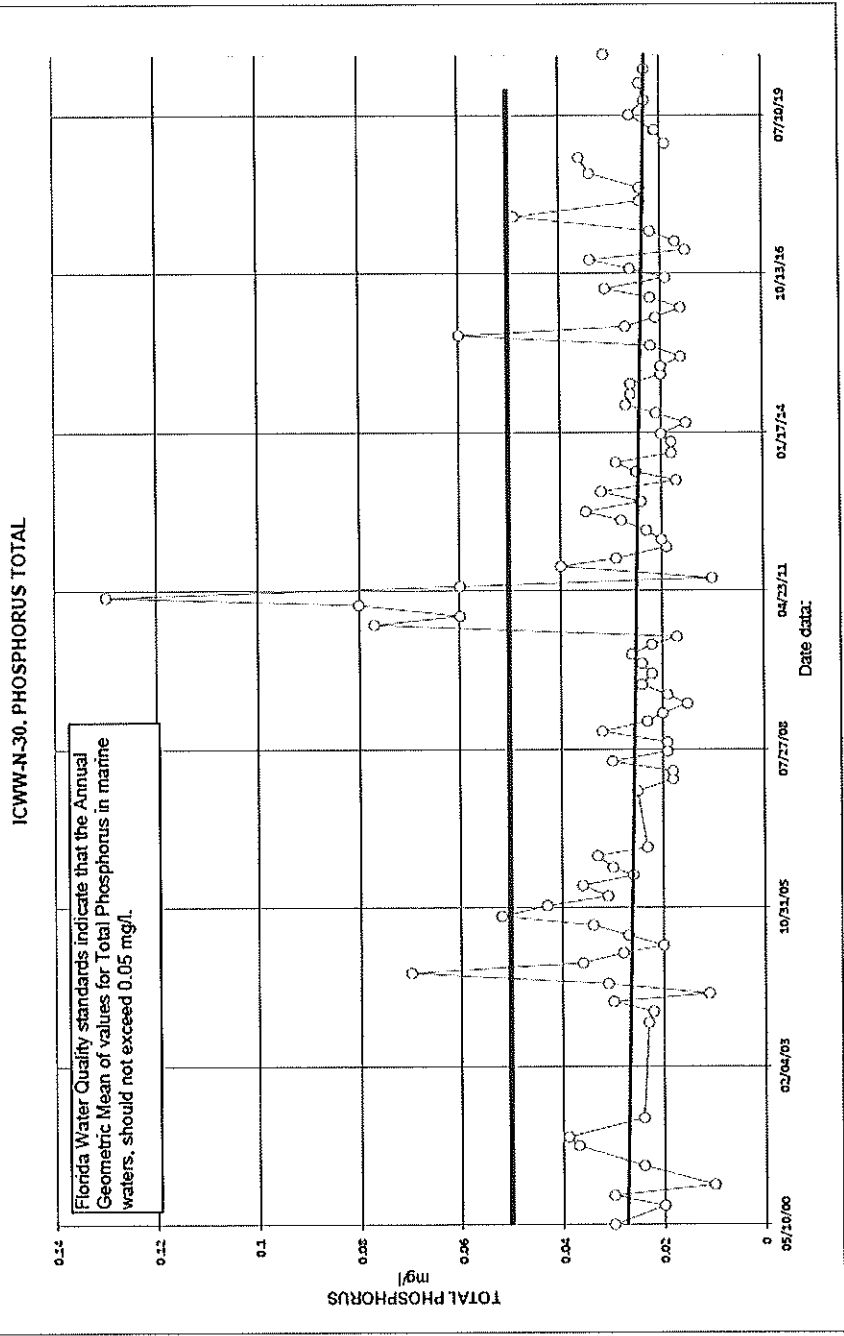
³ If the p-value is less than 0.05, then a decreasing trend may suggest an improvement in water quality, and an increasing trend may suggest a decline in water quality.











ICWW-N-CHL-A (CORRECTED)

Florida Water Quality standards indicate that the Annual Geometric Mean of values for Chlorophyll-a in marine waters, should not exceed 11 µg/L.

