



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: Palm Beach County		
B.	Permit Name: Palm Beach County MS4		
C.	Permit Number: FLS000018-004		
D.	Annual Report Year: <input type="checkbox"/> Year 1 <input checked="" type="checkbox"/> Year 2 <input type="checkbox"/> Year 3 <input type="checkbox"/> Year 4 <input type="checkbox"/> Year 5 <input type="checkbox"/> Other, specify Year:		
E.	Reporting Time Period (month/year): October / 2017 through September / 2018		
F.	Name of the Responsible Authority: John D'Agostino		
	Title: Town Manager		
	Mailing Address: 535 Park Avenue		
	City: Lake Park	Zip Code: 33404	County: Palm Beach
	Telephone Number: 561-881-3304		Fax Number: 561-881-3314
	E-mail Address: townmanager@lakeparkflorida.com		
G.	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Richard Scherle		
	Title: Public Works Director		
	Department: Public Works		
	Mailing Address: 650 Old Dixie Highway		
	City: Lake Park	Zip Code: 33404	County: Palm Beach
	Telephone Number: 561-908-3874		Fax Number: 561-881-3349
E-mail Address: rscherle@lakeparkflorida.com			

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): (Does this number include non-major outfalls? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable)
B.	Number of outfalls REMOVED from the outfall inventory in the current reporting year (insert "0" if none): (Does this number include non-major outfalls? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable)
C.	Is the change in the total number of outfalls due to lands annexed or vacated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable

SECTION III. PART V.B. ASSESSMENT PROGRAM

<p>A.</p>	<p>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. <u>DEP Note:</u> If permittee participates in a collaborative monitoring plan, permittee may refer to a joint response as defined by the interlocal agreement.</p> <p>Name and date of the approved plan: Current approved plan for the Group Monitoring Plan is September 8, 2016 (with issuance of Cycle 4 Permit). Our newly developed, Individual Assessment Plan was submitted on September 9, 2017.</p> <p>Status: The Group Monitoring Report is included in the Cycle 4, Year 1 Joint Annual Report. The newly developed, Individual Assessment Plan is awaiting approval by FDEP</p>
<p>B.</p>	<p>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. <u>DEP Note:</u> Results must be specific to the permittee's SWMP. Please refer to Cycle 4, Year 1 Joint Annual Report for summary of the Group's water quality monitoring results for the reporting period. Refer to Cycle 3, Year 6 Joint Annual Report for proposed pollutant loading analysis changes. The best available information on existing pollutant loading estimates is documented in the Cycle 3, Year 3 Joint Annual Report.</p> <p>The newly-developed, Individual Assessment Plan is under review by FDEP.</p>
<p>C.</p>	<p>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. <u>DEP Note:</u> Analysis must be specific to the permittee's SWMP.</p> <p>Water Quality Report attached.</p>

SECTION IV. FISCAL ANALYSIS

<p>A.</p>	<p>Total expenditures for the NPDES stormwater management program for the current reporting year: \$859,421</p>
<p>B.</p>	<p>Total budget for the NPDES stormwater management program for the subsequent reporting year: \$777,048</p>
<p>C.</p>	<p>Did the current reporting year resources decrease from the previous year? Y <input checked="" type="checkbox"/> / N <input type="checkbox"/></p> <p>If program resources decreased, provide a discussion of the impacts on the implementation of the SWMP. The Town had to perform emergency repairs on three damaged stormwater lines using CIPP lining during the current reporting year.</p>

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
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	An explanation of why the minimum inspection frequency in Table II.A.1.a. was not met, if applicable.	Part II.A.1	Refer to note at the bottom of page 4,
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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 attachment.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	YEAR 2: A summary review of codes and regulations to reduce the stormwater impact from development.	Part III.A.2	Refer to attachment.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 3: Summary of TMDL Monitoring Results (if applicable).	Part VIII.B.2	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 3: Bacteria Pollution Control Plan (if applicable).	Part VIII.B.3	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 4: A report on any amendments to the applicable legal authority (if applicable).	Part III.A.7.a	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 4: Permit re-application information in accordance with Rule 62-624.420(2), F.A.C. <ul style="list-style-type: none"> 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	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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): John D'Agostino

Title: Town Manager

Signature:  Date: 1/4/2019

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.									
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.									
	<p>Type of Structure</p> <p>Dry retention systems</p> <p>Underdrain filter systems</p> <p>Exfiltration trench / French drains (lf)</p> <p>Grass treatment swales (miles)</p> <p>Dry detention systems</p> <p>Wet detention systems</p> <p>Detention with filtration systems</p> <p>Alum Injection systems</p> <p>Pollution control boxes</p> <p>pump stations</p> <p>Major outfalls</p> <p>Weirs or other control structures</p> <p>pipes / culverts (miles)</p> <p>Canals</p> <p>Inlets / catch basins / grates</p> <p>Ditches / conveyance swales (miles)</p>	<p>Number of Structures</p> <p>1</p> <p>0</p> <p>9503</p> <p>25.5</p> <p>6</p> <p>0</p> <p>0</p> <p>0</p> <p>0</p> <p>0</p> <p>11</p> <p>89</p> <p>8.7</p> <p>0</p> <p>409</p> <p>25.5</p>	<p>Number of Inspections</p> <p>1</p> <p>895</p> <p>6.85</p> <p>6</p> <p></p> <p></p> <p></p> <p></p> <p></p> <p>11</p> <p>8</p> <p>0.74</p> <p></p> <p>78</p> <p>6.85</p>	<p>Percent Inspected</p> <p>100</p> <p>*9.4</p> <p>27</p> <p>100</p> <p></p> <p></p> <p></p> <p></p> <p>100</p> <p>*9</p> <p>*8.5</p> <p></p> <p>19</p> <p>27</p>	<p>Number of Maintenance Activities</p> <p>0</p> <p>1</p> <p>5</p> <p>0</p> <p></p> <p></p> <p></p> <p></p> <p>11</p> <p>8</p> <p>1.14</p> <p></p> <p>78</p> <p>5</p>	<p>Percent Maintained</p> <p>0</p> <p>9.4</p> <p>0.03</p> <p>0</p> <p></p> <p></p> <p></p> <p></p> <p>100</p> <p>9</p> <p>13</p> <p></p> <p>19</p> <p>0.03</p>	<p>Insp. Reports</p> <p></p> <p>Insp. Reports</p> <p>Insp. Reports</p> <p>Insp. Reports</p> <p></p> <p></p> <p></p> <p>Insp. Reports</p> <p></p> <p>Insp. Reports</p> <p></p> <p>Insp. Reports</p> <p>Insp. Reports</p> <p>Insp. Reports</p>	<p>Public Works</p> <p>Public Works</p> <p>Public Works</p> <p>Public Works</p> <p></p> <p></p> <p></p> <p>Public Works</p> <p>Public Works</p> <p>Public Works</p> <p>Public Works</p> <p>Public Works</p> <p>Public Works</p> <p>Public Works</p> <p>Public Works</p>	<p></p> <p></p> <p>Vacuumed</p> <p>Regrade/Sod</p> <p></p> <p></p> <p></p> <p></p> <p>Removed Barnacles</p> <p>Exfil. Trench Control Str.</p> <p>1.04 Mi Vac, 0.1 Mi CIP Lined</p> <p></p> <p>Vacuumed</p> <p>Regrade/Sod</p>
<p>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.</p> <p><input checked="" type="checkbox"/> *Did not meet 10% inspection min. due to faulty equipment. Repair equipment.</p>									

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 have been inspected and maintained on a regular basis and have been found to be functioning as designed Limitations: None				
Part III.A.2	SWMP revisions implemented to address limitations: None 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.	3	Comments Letter	Consultant/ Comm. Develop.	
	Number of significant development projects reviewed	3	Approval Letter	Consultant/ Comm. Develop.	
Part III.A.2 Summary	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 Year 4 ONLY: Attach the follow-up report on plan implementation	<input checked="" type="checkbox"/> <input type="checkbox"/>			
Part III.A.3	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit. Strengths: Review of site plans by Consultant Limitations: None SWMP revisions implemented to address limitations: None				
	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. <i>Note: If the permittee does not contract activities, delete CONTRACTOR activities.</i>				
	PERMITTEE Litter Control: Frequency of litter collection	Weekly	Coll. Reports	Public Works	1 Road/2 Parks
	PERMITTEE Litter Control: Estimated amount of area maintained (Ac)	50.64 Ac.	Coll. Reports	Public Works	
	PERMITTEE Litter Control: Estimated amount of litter collected (cy)	3.29	Coll. Reports	Public Works	
	CONTRACTOR Litter Control: Frequency of litter collection	Weekly	Coll. Reports	Town Landscape Maint. Contractor	
	CONTRACTOR Litter Control: Estimated amount of area maintained (Ac)	11.09 Ac	Coll. Reports	Town Landscape Maint. Contractor	
	CONTRACTOR Litter Control: Estimated amount of litter collected (cy)	15.48	Coll. Reports	Town Landscape Maint. Contractor	
	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	0			
	Trash Pick-up Events: Estimated amount of litter collected (cy)	0			
	Adopt-A-Road: Total miles cleaned	0			

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments																				
	<p>Adopt-A-Road: Estimated amount of litter collected (cy)</p> <p>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.</p>	0																							
	<p>Frequency of street sweeping</p> <table border="1" data-bbox="414 898 592 1780"> <tr> <td>Total miles swept</td> <td>Monthly</td> <td>Sweeper Logs</td> <td>Public Works</td> </tr> <tr> <td>Estimated quantity of sweeping material collected (tons)</td> <td>463</td> <td>Sweeper Logs</td> <td>Public Works</td> </tr> <tr> <td>Total phosphorus loadings removed (pounds)</td> <td>34.96 Tons</td> <td>SWA Receipts</td> <td>Public Works</td> </tr> <tr> <td>Total nitrogen loadings removed (pounds)</td> <td>25</td> <td>FSA Calculator</td> <td>Public Works</td> </tr> <tr> <td></td> <td>39</td> <td>FSA Calculator</td> <td>Public Works</td> </tr> </table> <p>Report the equipment yards and maintenances shops that support road maintenance activities, and the number of inspections conducted for each facility.</p>	Total miles swept	Monthly	Sweeper Logs	Public Works	Estimated quantity of sweeping material collected (tons)	463	Sweeper Logs	Public Works	Total phosphorus loadings removed (pounds)	34.96 Tons	SWA Receipts	Public Works	Total nitrogen loadings removed (pounds)	25	FSA Calculator	Public Works		39	FSA Calculator	Public Works				
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Total nitrogen loadings removed (pounds)	25	FSA Calculator	Public Works																						
	39	FSA Calculator	Public Works																						
Part III.A.3 Summary	<p>Name of Facility</p> <p>Public Works Maintenance Yard</p> <p>Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.</p> <p>Strengths: Regular maintenance of roadways via street sweeping and litter collection programs</p> <p>Limitations: None</p> <p>SWMP revisions implemented to address limitations: None</p>	<p>Number of Inspections</p> <p>11</p>	<p>Insp. Reports</p>	<p>Public Works</p>																					
Part III.A.4	<p>Flood Control Projects</p> <p>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.</p> <p>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.</p>	<p>Flood control projects completed during the reporting period</p> <p>5</p> <p>Flood control projects completed that did not include stormwater treatment</p> <p>0</p> <p>Stormwater retrofit projects planned/under construction</p> <p>0</p> <p>Stormwater retrofit projects completed</p> <p>2</p> <p>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.</p> <p>Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.</p>	<p>Insp. Reports</p>	<p>Public Works</p>	<p>400' of Swales Regrade/Sod</p> <p>0.1 Mi. Pipe CIP Lined</p>																				
Part III.A.4 Summary	<p>Strengths: Flood control devices perform adequately.</p> <p>Limitations: Infrastructure is approaching useful life expectancy</p> <p>SWMP revisions implemented to address limitations: Currently updating Master Drainage Study.</p>																								

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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.				
	<p>Name of Facility</p> <p>Public Works Maintenance Yard</p>	<p>Number of Inspections</p> <p>12</p>	<p>Insp. Reports</p>	<p>Public Works</p>	
Part III.A.5 Summary	<p>Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.</p> <p>Strengths: The Town of Lake Park Public Works Maintenance Yard is inspected on a monthly basis.</p> <p>Limitations: None</p> <p>SWMP revisions implemented to address limitations: None</p> <p>Pesticides, Herbicides, and Fertilizer Application</p>				
Part III.A.6	<p>Report the number of permittee personnel applicators and contracted commercial applicators of pesticides and herbicides who are FDACS certified / licensed.</p> <p>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.</p> <p>PERSONNEL: FDACS public applicators of pesticides/herbicides</p> <p>CONTRACTORS: FDACS commercial applicators of pesticides/ herbicides</p> <p>PERSONNEL: Green Industry BMP Program training completed</p> <p>CONTRACTORS: FDACS certified / licensed applicators of fertilizer</p> <p>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.</p> <p>Year 2 ONLY: Attach copy of adopted Florida-friendly ordinance</p>	<p>1</p> <p>1</p> <p>1</p>	<p>State License</p> <p>Certificate</p> <p>State License</p>	<p>FDACS</p> <p>IFAS</p> <p>FDACS</p>	<p>Refer to PBC MS4 website</p>
	<p>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).</p> <p>Public Education and Outreach Program</p>	<p><input checked="" type="checkbox"/></p>			
	<p>Public Education and Outreach Program</p> <p>Brochures/Flyers/Fact sheets distributed</p> <p>Neighborhood presentations: Number conducted</p> <p>Neighborhood presentations: Number of participants</p> <p>Newspapers & newsletters: Number of articles/notices published</p> <p>Newsletters: Number of newsletters distributed</p> <p>Public displays (e.g., kiosks, storyboards, posters, etc.)</p>	<p>1568</p> <p>0</p> <p>0</p> <p>2</p> <p>4224</p> <p>12</p>	<p>Brochure</p>	<p>Public Works</p>	<p>The public outreach and education plan is carried out as a joint effort by the Palm Beach County Co-permittees. Please see the Palm Beach County Joint Annual Report for the public education and outreach information.</p>

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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
	<p>Radio or television Public Service Announcements (PSAs) School presentations: Number conducted School presentations: Number of participants Seminars/Workshops: Number conducted Seminars/Workshops: Number of participants Special events: Number conducted</p> <p>Special events: Number of participants</p> <p>Number of visitors to stormwater-related pages FYN: Brochure/Flyers/Fact sheets distributed</p> <p>FYN: Neighborhood presentations: Number conducted</p> <p>FYN: Neighborhood presentations: Number of participants</p> <p>FYN: Public displays (e.g., kiosks, storyboards, posters, etc.)</p> <p>FYN: Radio or television Public Service Announcements (PSAs) FYN: School presentations: Number conducted</p> <p>FYN: School presentations: Number of participants</p> <p>FYN: Seminars/Workshops: Number conducted</p> <p>FYN: Seminars/Workshops: Number of participants</p> <p>FYN: Special events: Number conducted</p> <p>FYN: Special events: Number of participants</p>	<p>0 0 0 0 0 9 2267 0 0 0 0 0 0 0 0 0 0 0 0</p>	<p>E-mail E-mail</p>	<p>Library/Public Works Library/Public Works FYN FYN FYN FYN FYN FYN FYN FYN FYN FYN</p>	
Part III.A.6 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
Part III.A.7.a	<p>Strengths: Applicators are licensed to perform services. Limitations: None SWMP revisions implemented to address limitations: Proceeding with training of staff.</p>				
Part III.A.7.c	<p>Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures Report amendments in Year 4.</p>				
	<p>Year 4 ONLY: Attach a report on amendments to applicable legal authority <input type="checkbox"/></p>				
Part III.A.7.c	<p>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.</p>				
	<p>Proactive inspections for suspected illicit discharges</p>				
	<p>Illicit discharges found during a proactive inspection</p>				
	<p>NOV/WL/citation/fines issued for illicit discharges found during proactive inspection</p>				
	<p>Report on the reactive investigation program as it relates to responding to reports of suspected illicit discharges, including the number of reports received, the</p>				

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A. Permit Citation/ SWMP Element	B. Permit Requirement/Quantifiable SWMP Activity	C. Number of Activities Performed	D. Documentation / Record	E. Entity Performing the Activity	F. Comments
	<p>number of investigations conducted, the number of illicit activities found, and the number and type of enforcement actions taken.</p>				
	<p>Reports of suspected illicit discharges received Reactive investigations of reports of suspected illicit discharges etc. Illicit discharges etc. found during reactive investigation NOV/WL/citation/fines issued for illicit discharges etc. found during reactive investigation</p>	<p>3 3 2 0</p>	<p>Insp. Reports Insp. Reports Insp. Reports Insp. Reports</p>	<p>Public Works Public Works Public Works Public Works</p>	<p>Silt Fence Damaged Silt Fence Repaired</p>
	<p>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.</p>	<p>Personnel trained Contractors trained</p>	<p>Annual NPDES Training Sign In</p>	<p>Palm Beach County NPDES</p>	
<p>Part III.A.7.d</p>	<p>Illicit Discharges and Improper Disposal — Spill Prevention and Response</p>	<p>0</p>			
	<p>Report on the spill prevention and response activities, including the number of spills addressed.</p>				
	<p>Hazardous and non-hazardous material spills responded to</p>				
	<p>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.</p>	<p>Personnel trained Contractors trained</p>	<p>Annual NPDES Training Sign In</p>	<p>Palm Beach County NPDES</p>	
<p>Part III.A.7.e</p>	<p>Illicit Discharges and Improper Disposal — Public Reporting</p>	<p>2</p>			
	<p>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).</p>				
	<p>Public Education and Outreach Program</p> <p>Publicize the Palm Beach County Complaint Hotline Brochures/Flyers/Fact sheets distributed Neighborhood presentations: Number conducted Neighborhood presentations: Number of participants Newspapers & newsletters: Number of articles/notices published Newsletters: Number of newsletters distributed</p> <p>Public displays (e.g., kiosks, storyboards, posters, etc.) Radio or television Public Service Announcements (PSAs) School presentations: Number conducted</p>	<p>0 1568 0 0 2 4224 12 0 0</p>	<p>Brochure Newspaper Newspaper Newspaper Photographs</p>	<p>Public Works Public Works Public Works Public Works Public Works Public Works</p>	<p>Printed E-mail/Printed E-mail/Printed Posters at Marina, Town Hall, Library</p>

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
	School presentations: Number of participants Seminars/Workshops: Number conducted Seminars/Workshops: Number of participants Special events: Number conducted Special events: Number of participants Number of visitors to stormwater-related pages	0 0 0 9 2267 Not Available	E-mail E-mail	Library/Public Works Library/Public Works	Events for Children Events for Children
Part III.A.7.f	Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control				
	<p>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).</p> <p>Public Education and Outreach Program</p> <p>The public outreach and education plan is carried out as a joint effort by the Palm Beach County Co-permittees. Please see the Palm Beach County Joint Annual Report for the public education and outreach information.</p> <p>Publicize the Palm Beach County Home Chemical Collection Program Brochures/Flyers/Fact sheets distributed Household Hazardous Waste (HHW) Collection Day: Events HHW Collection Day: Amount of waste collected/recycled/disposed (tons) Neighborhood presentations: Number conducted Neighborhood presentations: Number of participants Newspapers & newsletters: Number of articles/notices published Newsletters: Number of newsletters distributed</p> <p>Public displays (e.g., kiosks, storyboards, posters, etc.)</p> <p>Radio or television Public Service Announcements (PSAs) School presentations: Number conducted School presentations: Number of participants Seminars/Workshops: Number conducted Seminars/Workshops: Number of participants Special events: Number conducted</p> <p>Special events: Number of participants</p> <p>Storm sewer inlets newly marked/replaced Number of visitors to stormwater-related pages</p>	0 1568 0 0 0 0 2 4224 12 0 0 0 0 9 2267 Not Available	Brochure E-mail Newsletter Newsletter Photographs E-mail E-mail	Public Works Public Works Public Works Public Works Public Works Public Works Library/Public Works Library/Public Works	Printed E-mail/Printed E-mail/Printed Posters at Marina, Town Hall, Library

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.g	<p>Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage</p> <p>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.</p>				
	<p>Owner of the sanitary sewer system</p> <p>Activity to reduce/eliminate SSOs and I&I: (description)</p> <p>Activity to reduce/eliminate SSOs and I&I: (description)</p> <p>SSO incidents discovered</p> <p>SSO incidents resolved</p> <p>Inflow / infiltration incidents discovered</p> <p>Inflow / infiltration incidents resolved</p>	<p>0</p> <p>0</p> <p>0</p> <p>0</p> <p>0</p> <p>0</p>	<p>Seacoast Utility Authority</p>		
Part III.A.7 Summary	<p>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.</p> <p>Strengths: Staff performs regular inspections via pipe/inlet cleaning and inspection program.</p> <p>Limitations: Need additional line video.</p> <p>SWMP Revisions implemented to address limitations: Budget for additional line video.</p>				
Part III.A.8.a	<p>Industrial and High-Risk Runoff — Identification of Priorities and Procedures for Inspections</p> <p>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.</p> <p>Report on the high-risk facilities inspection program, including the number of inspections conducted and the number and type of enforcement actions taken.</p>				
	<p>Type of Facility</p> <p>Operating municipal landfills</p> <p>Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities</p> <p>EPCRA Title III, Section 313 facilities (TRI)</p> <p>Facilities determined as high risk by the permittee</p>	<p>0</p> <p>2</p> <p>0</p> <p>0</p>	<p>Number of Facilities</p>	<p>Number of Inspections</p>	<p>Enforcement Actions</p> <p>0</p> <p>2</p> <p></p> <p></p>
Part III.A.8.b	<p>Industrial and High-Risk Runoff — Monitoring for High Risk Industries</p> <p>Report the number of high risk facilities sampled.</p>	<p>0</p>	<p>High risk facilities sampled</p>	<p>0</p>	<p>Copy of report sent to Public Works Director</p>

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.8 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit. Strengths: Staff performs regular inspections of facilities. Limitations: None SWMP revisions implemented to address limitations: None				
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	0			
	PERMITTEE SITES: Construction site plans approved	0			
	PRIVATE SITES: Construction site plans reviewed	3	Comments Letter	Consultant/ Community Dev.	
	PRIVATE SITES: Construction site plans approved	3	Comments Letter	Consultant/ Community Dev.	
	Report the number of development permit applicants notified of the ERP and CGP, and the number of applicants who confirmed ERP and CGP coverage.				
	Notified of ERP stormwater permit requirements Confirmed ERP coverage	0			
	Notified of CGP stormwater permit requirements	3	Comments Letter	Consultant/ Community Dev	
	Confirmed CGP coverage	3	Approval Letter	Consultant/ Community Dev	
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			
	PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	0			
	PERMITTEE SITES: Percentage of active construction sites inspected	0			
	PRIVATE SITES: Active construction sites	3	Photos	Consultant	Still under construction
	PRIVATE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	3	Photos	Consultant	
	PRIVATE SITES: Percentage of active construction sites inspected	100	Photos	Consultant	
	Enforcement Action	0			
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				

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
	Permittee construction site inspectors	2	FSA NPDES Training	Public Works	
	Permittee construction site plan reviewers	2	FSA NPDES Training	Public Works	
	Permittee construction site operators	2	FSA NPDES Training	Public Works	
Provide an evaluation of the Stormwater Management Program according to Part VI.B.2. of the permit.					
Part III.A.9 Summary					
Strengths: Staff and consultants perform regular inspections to ensure maintenance of pollution prevention devices.					
Limitations: None					
SWMP revisions implemented to address limitations: None					

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.
		None
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)
		None

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
NA			<input type="checkbox"/> / <input type="checkbox"/>		1		(Year 3 AR)	(Year 4 AR; N/A if BPCP)
			<input type="checkbox"/> / <input type="checkbox"/>					
			<input type="checkbox"/> / <input type="checkbox"/>					

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
NA		(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):

AREAS OF NEW DEVELOPMENT AND SIGNIFICANT REDEVELOPMENT
SUMMARY REPORT OF THE REVIEW ACTIVITY

Upon receipt of Development Plans and Applications the City of Lake Park provides copies to their Consultants. The Consultants review the plans for storm drainage, NPDES compliance, parking layout, traffic engineering, domestic irrigation water service, wastewater service, landscaping and exterior lighting. The Application is also reviewed for completeness.

The Plans must meet or exceed the Town's Municipal Codes, Ordinances, Design Standards and State and Federal requirements.

After the review process the Consultants provide comments, by discipline, to the Town, for submittal to the Developer. The Developer addresses the comments and provides revised Plans and Application. The process will cycle until the Town and its Consultants are satisfied that all issues have been resolved.

SUMMARY REVIEW OF CODES AND REGULATIONS TO REDUCE THE STORMWATER IMPACT FROM DEVELOPMENT

The Town of Lake Park has the following Programs in place to Reduce the Stormwater Impact from Development.

1. Florida Friendly Fertilizer Use Ordinance – This is intended to reduce pollutants, from fertilizer applications, by the education and training of applicators and the regulation of nutrients in the fertilizers used.

2. Stormwater Management Ordinance – This establishes a Stormwater Utility which provides a mechanism for management of the MS4, mitigation of damaging effects of uncontrolled and unplanned runoff, safe and efficient capture and conveyance of stormwater, corrections of problems, and establishment of a Master Plan.

3. Prohibited Nuisances on Developed or Cleared Lots Ordinance – This prohibits items such as loose vegetative material, trash, stagnant water, etc. to remain on developed or cleared lots and the possibility that it may lead to the pollution of a water body.

4. Prohibited Discharge Ordinance – This prohibits any discharge, connection and damage to any component of the MS4.

5. Permits and Design – This requires the property owner to obtain a permit for any work on the MS4 that involves uncovering, connection or alteration of the system. Any permitted work on the MS4 must meet South Florida Water Management District or other regulatory Agency design criteria. Plans are to be prepared by a Registered Professional Engineer licensed in the State of Florida. This Ordinance also gives the Town’s Department of Public Works responsibility for maintenance and operation of the MS4. Property owners are responsible for drainage systems located on their property.

6. Accidental Discharge and/or Dumping Ordinance – This ordinance prohibits any discharge to the MS4 that is not composed entirely of stormwater. Any person having knowledge of an accidental or unlawful discharge shall notify the Town. Within five days of the reported discharge the responsible party shall submit a report stating the cause, any corrective actions taken and measures to prevent future occurrences. Permitted users of the MS4 shall permanently post a notice, accessible to all employees, advising them of the reporting procedure.

7. Inspections and Monitoring Ordinance – This gives the Town permission to inspect any private storm drainage system not less than once a year, respond to complaints of any violation, enter property when a violation may exist and require the property owner to provide periodic inspection reports.

8. Management of Grass Clippings and Vegetative Matter Ordinance – This prohibits any vegetative matter from being intentionally washed, swept or blown into the MS4.

9. Land Development Codes – This requires the developer to provide a SWPPP, a detailed stormwater management system, runoff calculations (South Florida Water Management District Methodology), and preservation of water resources.

TOWN OF LAKE PARK

MS4 SWMP ASSESSMENT PROGRAM

ANNUAL RESULTS REPORT

CYCLE 4, YEAR 2

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1 – TOWN OF LAKE PARK ASSESSMENT PROGRAM

1.1 - Assessment Program Objective

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

Phase 1 MS4 Monitoring Plans are required to meet the following goals:

- A. Identify areas, that can be targeted for corrective action, that have a potential for water quality problems related to stormwater runoff. The corrective actions include, but are not limited to, non-structural BMP's (i.e. trash collection, street sweeping, public education), structural BMP's, and retrofits.
- B. Measure the effectiveness of stormwater pollution reduction measures, such as BMP's, that have or will be implemented.
- C. For specific outfalls, or watersheds, document pollutant loadings and/or trends in pollutant loadings.

1.2 - Assessment Program Components

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

- A. Water Quality Monitoring Plan – The plan identifies local sources where urban stormwater adversely affects surface water resources.
- B. Pollutant Loading Estimate Plan – The plan is intended to estimate the Pollutant Loading, from the MS4 contributing area, based on BMP's and land use.
- C. Evaluation and Response Plan – The plan is intended to propose a plan of action to be taken based on the results of the Water Quality Monitoring Plan and Pollutant Loading Estimate Plan. The Plan will be used for the following.
 - 1. Analyze trends in Pollutant Loading from the MS4.
 - 2. Analyze trends in water quality that discharge from the MS4.
 - 3. Identify areas of the MS4 to be targeted for corrective measures and loading reduction.

2 – WATER QUALITY MONITORING PLAN

2.1 – Description

Utilizing DEP approved lab Pace Laboratories, sampling at four locations took place four times per year for five test parameters, including Chlorophyll-A, Dissolved Oxygen (DO), Total Phosphorus (TP), Total Nitrogen (TN), and Total Suspended Solids (TSS). Turbidity was not analyzed this year, however it will be analyzed in the future. In-situ grab samples were obtained following a rain event, of 0.75 inches or greater, at low tide if possible, to avoid tidal effects.

The water quality sampling is intended to be ambient data on Lake Park freshwater discharges. Flow weighted sampling is not collected in that it is insufficient for estimating site specific Event Mean Concentrations (EMC's)

2.2 – Monitoring Sites

Monitoring sites were selected to accurately represent the different types of zoning districts located in the Town. The majority of the Town's MS4 is under tidal effect. To avoid sampling tidal influenced water, and due to the outfalls being submerged, samples were taken upstream of the Major Outfall at the nearest available drainage structure. Samples were taken at low tide if possible. Monitoring locations are illustrated in the Location Map below as a yellow dot. Contributing drainage areas are approximate.

Locations 1, 2 and 3 are in the Peninsular Region where FDEP has adopted numeric nutrient values for Chlorophyll-A, TN and TP concentrations. The Chlorophyll-A (max. of 20 ug/l), TN (max. of 1.54 mg/l) and TP (max of 0.12 mg/l), at Location 3 (Major Outfall #12), will be helpful in identifying a potential nutrient impairment. Location #4 is in the South Florida Canal Region where there is no numeric criteria for TN and TP. The Chlorophyll-A criteria is a maximum of 20 ug/l.

Location 1 (Representative of Residential District)

148 Data Palm Drive – Basin 12, Structure #103. Google Earth: 26°47'41.25"N, 80°3'22.30W

Samples pulled from 60" RCP outflow

Major Outfall #12 on the Major Outfall Map

Land Use District: Residential, Park Avenue Downtown, Business, Public

Contributing Drainage Area = 57.1 Ac (Residential R-1A)

Contributing Drainage Area = 162.4 Ac (Residential R-1)

Contributing Drainage Area = 53.7 Ac (Residential R-2)

Contributing Drainage Area = 16.9 Ac (Park Avenue Downtown PAA)

Contributing Drainage Area = 6.2 Ac (Business C-2)

Contributing Drainage Area = 17.5 Ac (Public P)

Total Contributing Drainage Area = 313.8 Ac

Location 2 (Representative of Residential and Business District/State Highway)

301 Federal Hwy – Basin 12, Structure #131A. Google Earth: 26°47'41.93"N, 80°3'13.85"W

Samples pulled from 60" RCP outflow

Major Outfall #12 on the Major Outfall Map

Land Use District: Residential, Business

Contributing Drainage Area = 14.5 Ac (Residential R-1A)

Contributing Drainage Area = 2.7 Ac (Business C-1)

Total Contributing Drainage Area = 17.2 Ac

Location 3 (Representative of Residential District)

1406 Flagler Blvd – Basin 15, Structure #35A. Google Earth: 26°48'17.43"N, 80°4'5.63"W

Samples pulled from 36" RCP outflow

Major Outfall #15 on the Major Outfall Map

Land Use District: Residential

Contributing Drainage Area = 79 Ac (Residential R-1A)

Total Contributing Drainage Area = 79 Ac

Location 4 (Representative of Campus Light Industrial and Commercial)

Intersection of Congress Ave. and Watertower Road (Southeast Corner) – Basin 26, Structure unnamed. Google Earth: 26°48.1'1.67" N, 80°5'4.21" W.

Samples pulled from 96" RCP outflow

Major Outfall #22 on the Major Outfall Map.

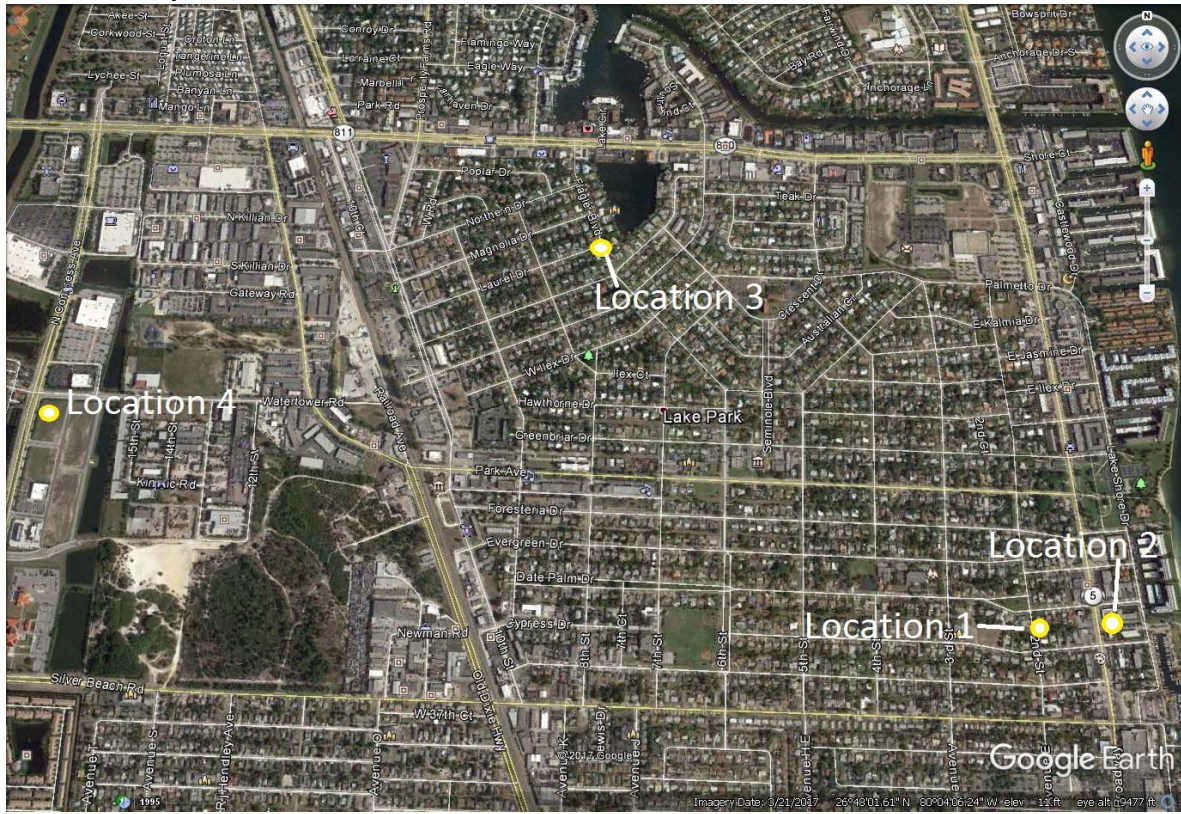
Land Use District: Campus/Light Industrial/Commercial, Business

Contributing Drainage Area = 64.6 Ac (Campus/Light Industrial/Commercial CLIC-1).

Contributing Drainage Area = 1.9 Ac (Business C-4).

Total Contributing Drainage Area = 66.5 Ac.

Location Map:



2.3 – Water Quality Monitoring Results - Tabular

Location 1 (Representative of Residential District)

148 Data Palm Drive – Basin 12, Structure #103. Google Earth: 26°47'41.25"N, 80°3'22.30W
 Samples pulled from 60" RCP outflow

Single-Family, Medium	Chlorophyll-A ug/l	Total Nitrogen mg/l	Total Phosphorus mg/l	Total Suspended Solids mg/l	Dissolved Oxygen % Saturation
Criteria	20	1.54	0.120	NA	>38
October 2017	2.2	0.84	0.054	7.0	No Data
April 2018	2.2	1.10	0.063	5.0	No Data
May 2018	2.2	0.71	0.056	5.0	63.35
Sept. 2018	2.2	0.85	0.060	5.0	53.21

Location 2 (Representative of Residential and Business District/State Highway)

301 Federal Hwy – Basin 12, Structure #131A. Google Earth: 26°47'41.93"N, 80°3'13.85"W
 Samples pulled from 60" RCP outflow

Highway, Major	Chlorophyll-A ug/l	Total Nitrogen mg/l	Total Phosphorus mg/l	Total Suspended Solids mg/l	Dissolved Oxygen % Saturation
Criteria	20	1.54	0.120	NA	>38
October 2017	2.2	0.53	0.055	5.0	No Data
April 2018	2.2	0.71	0.063	16.0	No Data
May 2018	2.2	0.67	0.072	5.0	64.22
Sept. 2018	2.5	0.73	0.078	13.5	48.37

Location 3 (Representative of Residential District)

1406 Flagler Blvd – Basin 15, Structure #35A. Google Earth: 26°48'17.43"N, 80°4'5.63"W
 Samples pulled from 36" RCP outflow

Single Family, Medium	Chlorophyll-A ug/l	Total Nitrogen mg/l	Total Phosphorus mg/l	Total Suspended Solids mg/l	Dissolved Oxygen % Saturation
Criteria	20	1.54	0.120	NA	>38
October 2017	2.2	1.10	0.092	5.0	No Data
April 2018	2.2	0.94	0.057	32.5	No Data
May 2018	2.2	1.20	0.100	5.0	66.15
Sept. 2018	3.7	1.40	0.099	5.0	47.02

Location 4 (Representative of Campus Light Industrial and Commercial)

Intersection of Congress Ave. and Water tower Road (Southeast Corner) – Basin 26, Structure unnamed. Google Earth: 26°48'1.67"N, 80°5'4.21W.

Samples pulled from 96" RCP outflow

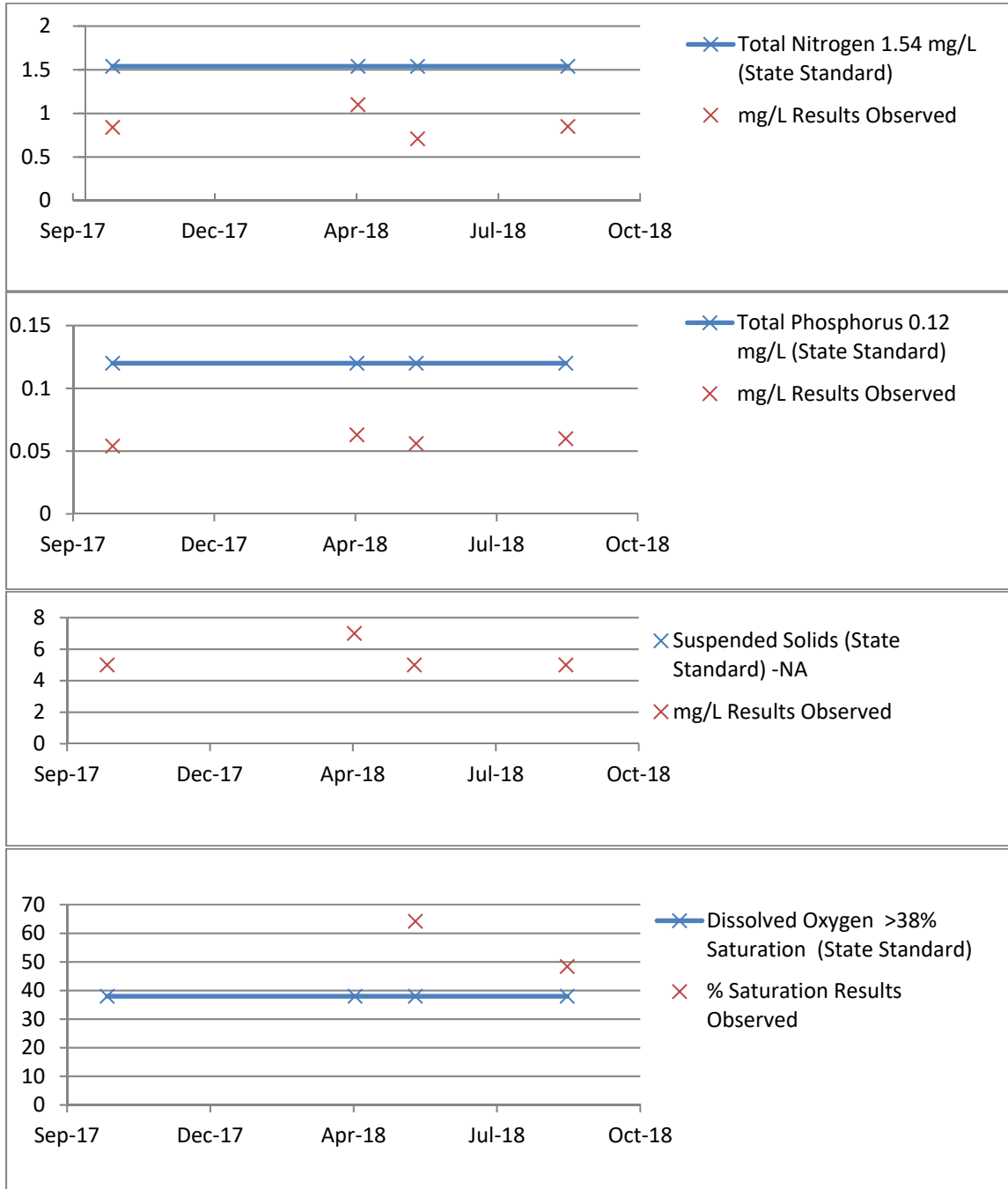
Industrial, Light Office	Chlorophyll-A ug/l	Total Nitrogen mg/l	Total Phosphorus mg/l	Total Suspended Solids mg/l	Dissolved Oxygen % Saturation
Criteria	20	NA	NA	NA	>38
October 2017	6.4	0.74	0.050	5.0	No Data
April 2018	10.9	1.10	0.050	6.0	No Data
May 2018	17.7	0.60	0.050	5.0	66.74
Sept. 2018	18.0	0.76	0.050	6.5	46.04

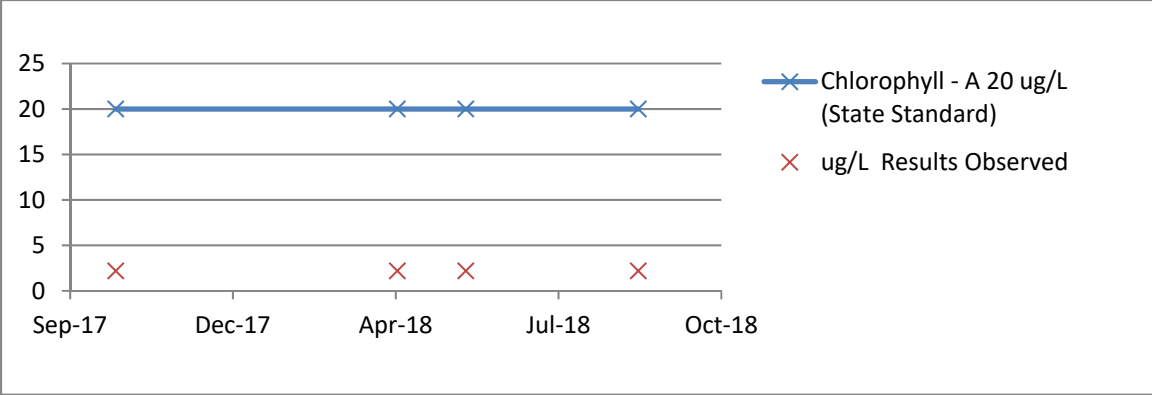
2.4 – Water Quality Monitoring Results – Graphs

Location 1 (Representative of Residential District)

148 Data Palm Drive – Basin 12, Structure #103. Google Earth: 26*47'41.25"N, 80*3"22.30W

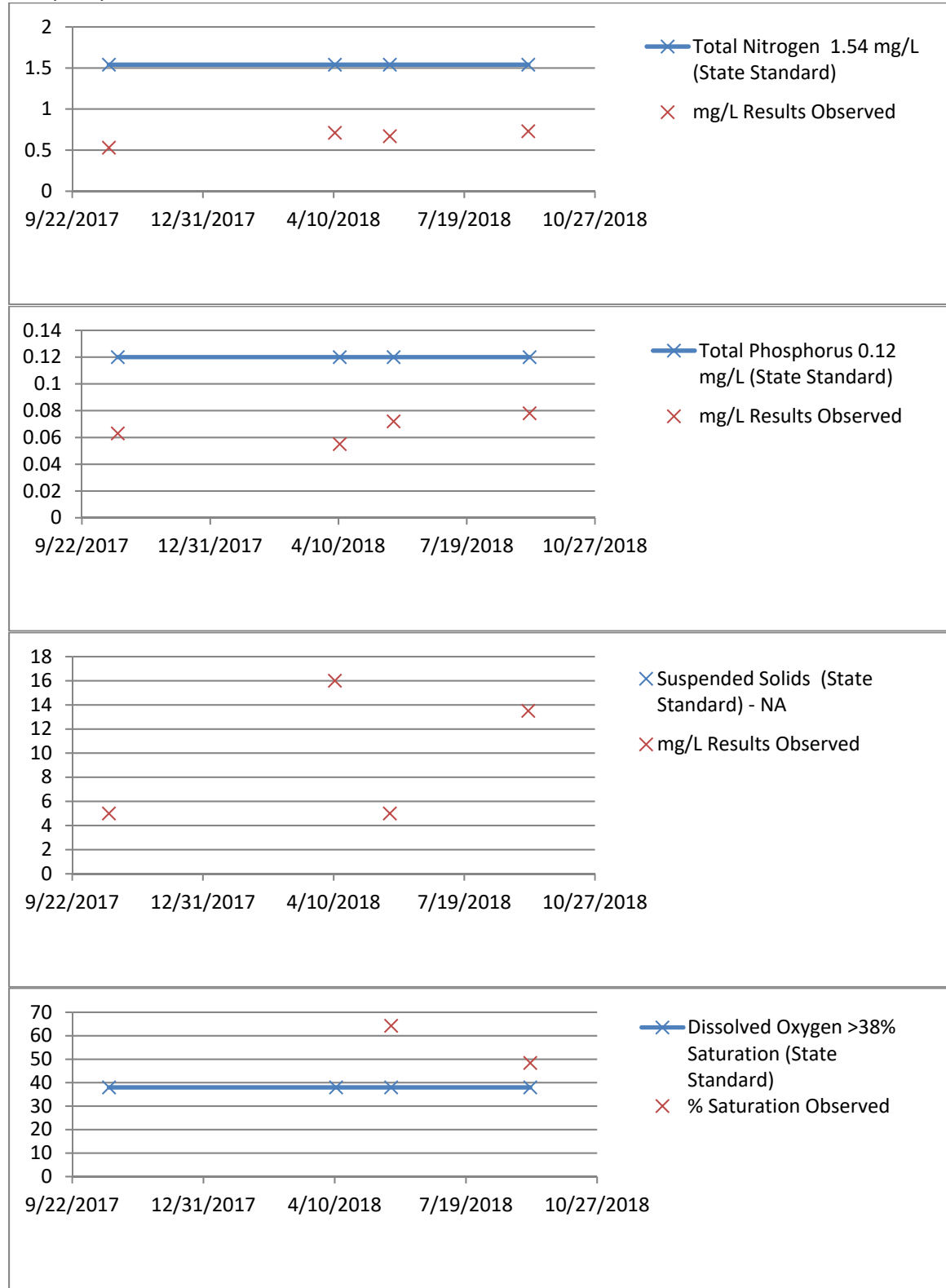
Samples pulled from 60" RCP

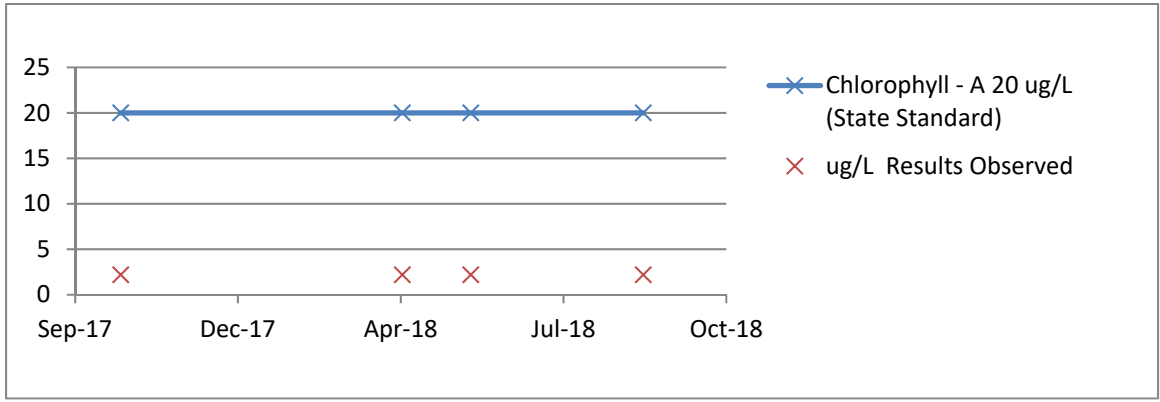




Location 2 (Representative of Residential and Business District/State Highway)

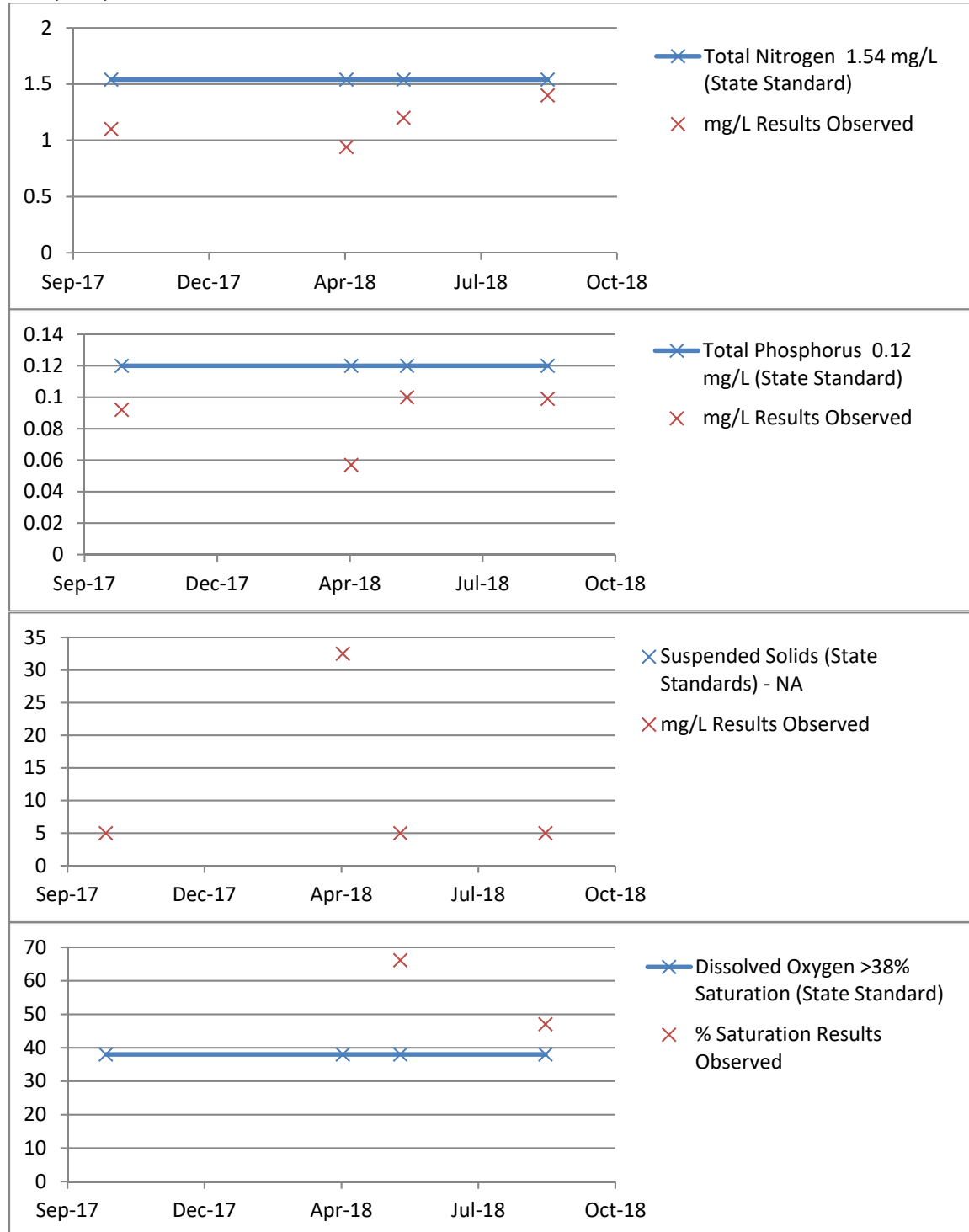
301 Federal Hwy – Basin 12, Structure #131A. Google Earth: 26°47'41.93"N, 80°3'13.85"W
 Samples pulled from 60" RCP outflow

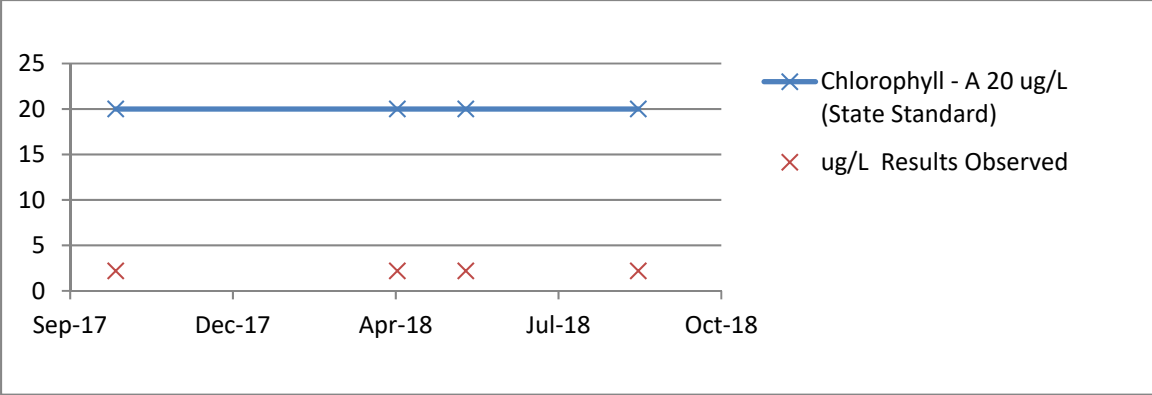




Location 3 (Representative of Residential District)

1406 Flagler Blvd – Basin 15, Structure #35A. Google Earth: 26°48'17.43"N, 80°4'5.63"W
 Samples pulled from 36" RCP outflow

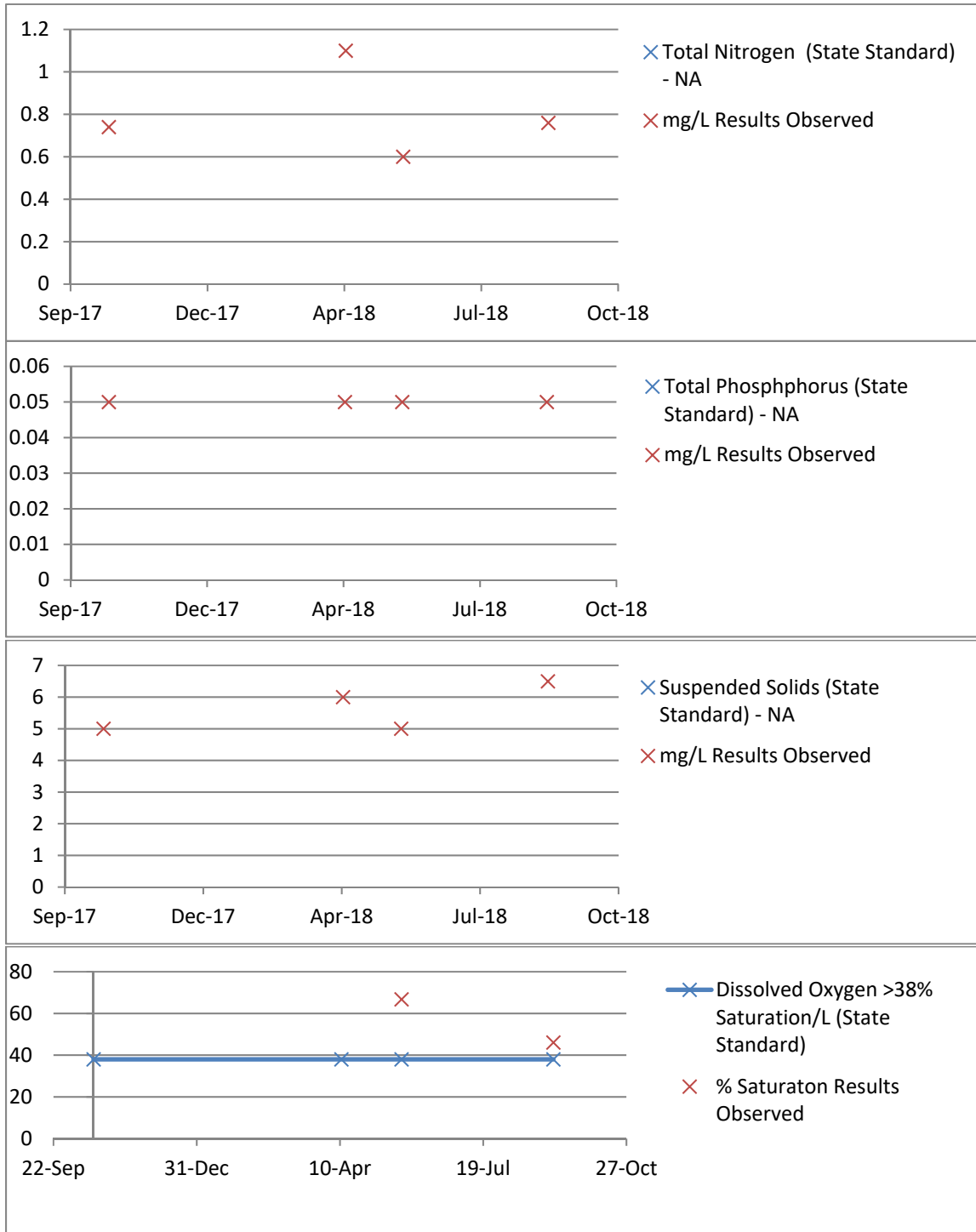


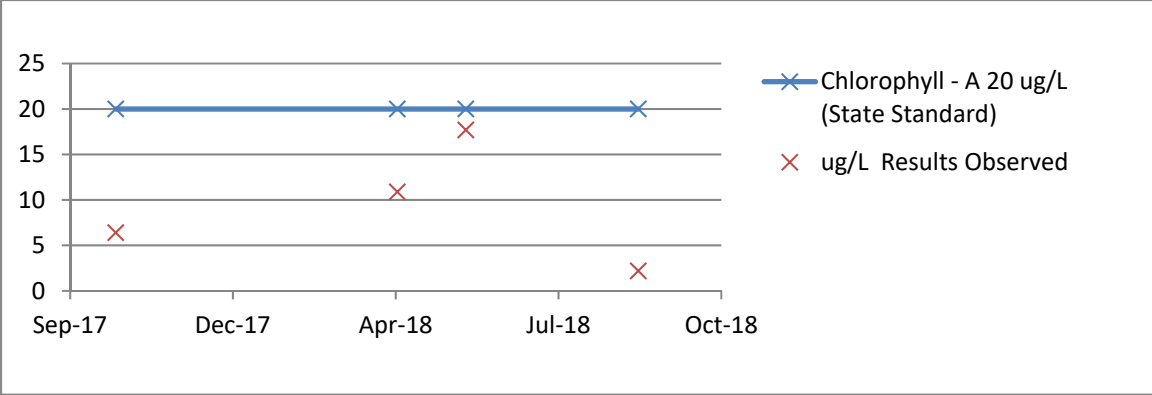


Location 4 (Representative of Campus Light Industrial and Commercial)

Intersection of Congress Ave. and Water tower Road (Southeast Corner) – Basin 26, Structure unnamed. Google Earth: 26°48'1.67"N, 80°5'4.21W.

Samples pulled from 96" RCP outflow





2.5 – Trend Analysis

The Town has only one year of sampling therefore data analysis is over a relatively short period of time and yearly trends cannot be established. Additional testing will continue in the future to establish yearly trends. Data was collected in October 2017, April 2018, May 2018 and September 2018.

Chlorophyll-A:

At Location 1 the value remains at a steady state of 2.2 mg/l, at location 2 it varies from 2.2 mg/l to 2.5 mg/l and at location 3 it varies from 2.2 mg/l to 3.7 mg/l. At Location 4 there is an increase from 6.4 mg/l (October 2017) to 18.0 mg/l (September 2018). All values are below the adopted maximum numeric State Standards.

Total Nitrogen:

Location 3 has the highest average value of 1.16 mg/l and Location #2 has the lowest of 0.66 mg/l. The average for all four locations is 0.88 mg/l. Within all Locations the value remains at a relatively steady state varying an average of 0.4 mg/l difference between highest and lowest value. All values are below the adopted maximum numeric State Standards.

Total Phosphorus:

Location 3 has the highest average value of 0.087 mg/l and Location #4 has the lowest of 0.05 mg/l. The average for all four locations is 0.065 mg/l. Within all Locations the value remains at a relatively steady state varying an average of 0.019 mg/l difference between highest and lowest value. All values are below the adopted maximum numeric State Standards.

Total Suspended Solids:

Location 3 has the highest average value of 11.88 mg/l and Location 1 has the lowest of 5.50 mg/l. The average for all four locations is 8.25 mg/l. Within Locations 1 and 4 the values remain at a relatively steady state varying an average of 1.75 mg/l difference between highest and lowest value. Within Locations 2 and 3 the values range considerably varying an average of 19.25 mg/l.

Dissolved Oxygen:

Location 1 has the highest average value of 58.28% and Location 2 has the lowest of 56.30%. The average for all four locations is 56.89%. Within Location 1 and 4 the value remains at a relatively steady state varying an average of 16.45% difference between

highest and lowest value. All values are above the adopted minimum numeric State Standard.

3 – POLLUTANT LOADING ESTIMATE PLAN

The Palm Beach County MS4 permittee group will be developing pollutant loading estimates during the third year of this permit cycle, using the SIMPLE protocol. In order to provide each permittee with pollutant loading estimates that reflect their respective MS4 areas, the group effort will provide the loading estimates “by MS4,” in addition to “by watershed” (as was done in past permit cycles). Prior to Year 3, the Town of Lake Park will participate in this effort by reviewing its MS4 contributing areas to each receiving water and will provide updated information on the area extents and the land uses. In addition, any water quality best management practices (BMPs) that are in place within the MS4 area, will be identified.

As required by the MS4 Permit, pollutant load estimates are to be developed once during each Permit cycle for the following parameters; Biochemical Oxygen Demand (BOD), Copper (Cu), Total Nitrogen (TN), Total Phosphorus (TP), Total Suspended Solids (TSS), Zinc (Zn). The Palm Beach County MS4 permittee group’s estimated pollutant loading results will be given to each permittee for use in their individual assessment report.

The Town will use the land use based pollutant loading estimates, provided by the group, to determine an estimate of the current pollutant loading. Pollutant loading reductions will be subtracted from the estimates provided. Based upon BMP’s, currently in place, pollutant load reductions will be estimated. Therefore, when future estimates are made, and possible reduction measures or BMP’s, are put into place estimated pollutant loadings will reflect the reductions.

The Town of Lake Park has in place Stormwater Management Programs that reduce the nutrient loading into Northern Lake Worth Lagoon, SFWMD C-17 canal and South Lake. The Programs include inspections and maintenance of dry retention systems, exfiltration trench, swales, dry detention systems, outfalls, control structures, stormwater pipes and drainage structures. Litter collection and street sweeping programs also reduce pollutant loading. Public Education Programs exist to inform the Town residents of how to reduce pollutant loading.

The Town of Lake Park has the following Ordinances in place to reduce the stormwater impact from development and reductions of other pollutants into the MS4.

1. Florida Friendly Fertilizer Use Ordinance (Section 32-80) – This is intended to reduce pollutants, from fertilizer applications, by the education and training of applicators and the regulation of nutrients in the fertilizers used.
2. Stormwater Management Ordinance (Section 32-75) – This establishes a Stormwater Utility which provides a mechanism for management of the MS4, mitigation of damaging effects of

uncontrolled and unplanned runoff, safe and efficient capture and conveyance of stormwater, corrections of problems, and establishment of a Master Plan.

3. Prohibited Nuisances on Developed or Cleared Lots Ordinance (Section 10-32) – This prohibits items such as loose vegetative material, trash, stagnant water, etc. to remain on developed or cleared lots and the possibility that it may lead to the pollution of a water body.

4. Prohibited Discharge Ordinance (Section 54-181) – This prohibits any discharge, connection and damage to any component of the MS4.

5. Permits and Design (Section 54-201) – This requires the property owner to obtain a permit for any work on the MS4 that involves uncovering, connection or alteration of the system. Any permitted work on the MS4 must meet South Florida Water Management District or other regulatory Agency design criteria. Plans are to be prepared by a Registered Professional Engineer licensed in the State of Florida. This Ordinance also gives the Town’s Department of Public Works responsibility for maintenance and operation of the MS4. Property owners are responsible for drainage systems located on their property.

6. Accidental Discharge and/or Dumping Ordinance (Section 54-221) – This ordinance prohibits any discharge to the MS4 that is not composed entirely of stormwater. Any person having knowledge of an accidental or unlawful discharge shall notify the Town. Within five days of the reported discharge the responsible party shall submit a report stating the cause, any corrective actions taken and measures to prevent future occurrences. Permitted users of the MS4 shall permanently post a notice, accessible to all employees, advising them of the reporting procedure.

7. Inspections and Monitoring Ordinance (Section 54-261) – This gives the Town permission to inspect any private storm drainage system not less than once a year, respond to complaints of any violation, enter property when a violation may exist and require the property owner to provide periodic inspection reports.

8. Management of Grass Clippings and Vegetative Matter Ordinance (Section 32-88) – This prohibits any vegetative matter from being intentionally washed, swept or blown into the MS4.

9. Land Development Codes (Chapter 67) – This requires the developer to provide a SWPPP, a detailed stormwater management system, runoff calculations (South Florida Water Management District Methodology), and preservation of water resources.

4 – EVALUATION AND RESPONSE PLAN

After the Assessment Program is approved by FDEP, possibly during year 2 of the Permit cycle, the Town will compile the information available for the identified monitoring

locations. The Town will begin sample collection and analysis, at the frequency provided in the Assessment Program, for new monitoring locations. The first annual report on the Assessment Program will be concurrent with the Year 3 Annual Report Form (March 2020).

Results of water quality monitoring will be available annually and past data will be compared with the most recent year's data with respect to the Town's MS4 discharge and affected receiving water bodies. A summary of the water quality monitoring data, with respect to the Town's MS4, will be developed and included in the Assessment Annual Report.

Pollutant loading estimates, developed during year 3 of the Permit cycle, will be reviewed and adjusted based on the Town's Stormwater Management Programs. The effectiveness of the Town's Program will be made based on two assessments. The Assessment Program Annual Report will include a discussion of the comparison.

Receiving water bodies reports, graphs and trending, for various parameters as presented in the Joint Annual Report, will be reviewed and a discussion will be included in the Town's Annual Assessment Report.

Based on the above evaluations the Town of Lake Park's stormwater management programs are effective in reducing pollutants and there is no need for additional programs at this time.