



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: City of Greenacres		
B.	Permit Name: Palm Beach County MS4		
C.	Permit Number: FLS000018-004		
D.	Annual Report Year: <input type="checkbox"/> Year 1 <input type="checkbox"/> Year 2 <input checked="" type="checkbox"/> Year 3 <input checked="" type="checkbox"/> Year 4 <input type="checkbox"/> Year 5 <input type="checkbox"/> Other, specify Year:		
E.	Reporting Time Period (month/year): 10 / 2019 through 09 / 2020		
F.	Name of the Responsible Authority: Carlos Cedeño		
	Title: Public Works Director		
	Mailing Address: 5750 Melaleuca Lane		
	City: Greenacres	Zip Code: 33463	County: Palm Beach
	Telephone Number: 561-642-2074		Fax Number: 561-642-2094
	E-mail Address: ccedeno@greenacresfl.gov		
G.	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Kara Ferris		
	Title: Planning & Engineering Director		
	Department: Building Department		
	Mailing Address: 5800 Melaleuca Lane		
	City: Greenacres	Zip Code: 33463	County: Palm Beach
	Telephone Number: 561-642-2040		Fax Number: 561-642-2049
E-mail Address: kferris@greenacresfl.gov			

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 checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input 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 checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable New Construction within City boundary.

SECTION III. PART V.B. ASSESSMENT PROGRAM

A.	<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. <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></p> <p>Name and date of the approved plan: Group monitoring plan submitted September 8, 2016 (with issuance of the Cycle 4 permit). <i>The monitoring program is carried out jointly by PBC permittees. See the PBC Joint Annual Report. The information relevant to the permittee's outfalls is addressed within the Annual Assessment Report documents provided in Appendix A.</i></p>
B.	<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. <i>DEP Note: Results must be specific to the permittee's SWMP.</i></p> <p><i>See Attachment B</i></p>
C.	<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. <i>DEP Note: Analysis must be specific to the permittee's SWMP.</i></p> <p><i>See attached Appendix A: Annual Assessment Report.</i></p>

SECTION IV. FISCAL ANALYSIS

A.	Total expenditures for the NPDES stormwater management program for the current reporting year: \$363,444.59
B.	Total budget for the NPDES stormwater management program for the subsequent reporting year: \$2,202,601.00
C.	<p>Did the current reporting year resources decrease from the previous year? Y <input type="checkbox"/> / N <input checked="" type="checkbox"/></p> <p>If program resources decreased, provide a discussion of the impacts on the implementation of the SWMP.</p> <p>There were no decreases in program resources.</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 type="checkbox"/>	<input checked="" 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	
<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	See Attachment B
<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 type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 2: A summary review of codes and regulations to reduce the stormwater impact from development.	Part III.A.2	
<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 checked="" type="checkbox"/>	<input 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	See Attachment A
<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 checked="" type="checkbox"/>	<input 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): Carlos Cedeño

Title: Public Works Director

Signature:  Date: 03/26/2021

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>								
Type of Structure		Number of Structures	Number of Inspections	Percent Inspected	Number of Maintenance Activities	Percent Maintained		
Dry retention systems		12	193	100	193	100	Employee daily worksheets	Public Works Department: Roads & Drainage Division and Parks Division Ramblewood Retention Pond (13 maint. activities), Harwhich Ct Retention Pond (11 maint. activities), PBSO 16/FR94 Retention Pond (37 maint. activities), Original Section Alleyways (7 total) (107 maintenance activities), , Municipal Complex Retention Ponds (2) (19 maint. activities) and Las Ramblas Retention area (6 maint. activities)
Grass treatment swales (miles)		0.82	192	100	192	100	Employee daily worksheets	Public Works Department Roads & Drainage Division Empire Way, west side of road (35 maint. activities) Centurian Way to south side of (36 maint. activities/inspections) Gladiator Lake, (36 inspection/maint. activity/inspections, Centurian Way 0.12 mile (36 maint. activities/inspections) Dodd Rd (Jog Rd to Woodlake Blvd, north side of road)- 0.36 mile (49 maint. activities/inspections)
Major outfalls		11	11	100	0	100	Found at x drive: 2020 Stormwater	Public Works Department Roads & Drainage Division Tracked through employee daily worksheets and storm sewer repair and maintenance inspection tracking log.

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record				Entity Performing the Activity	Comments	
							Inspections.xlsx		Inspections completed on 9/3/20. No repairs were required.
	Weirs or other control structures	14	14	100	0	100	Found at x drive: 2020 Stormwater Inspections	Public Works Department Roads & Drainage Division	Tracked through employee daily worksheets and storm sewer repair and maintenance inspection tracking log. Inspections completed on 9/3/20. No repairs were required.
	pipes / culverts (miles)	675'	0	0	0	0	Found at x drive: 2020 Stormwater Inspections	Public Works Department Roads & Drainage Division	Required to be inspected by LWDD in FY 21
	Canals	2	112	100	112	100	Paper file folders found in PW storage room	Public Works Department Roads & Drainage Division	Tracked through employee and work squad daily worksheets: A-Canal Roads & Drainage staff (27), DOC Work squad (44) maint activities/inspections B-Canal Roads & Drainage staff (24) and DOC Work squad (17) maint activities/inspections
	Inlets / catch basins / grates	508	508	100	533	100	Found at x drive: 2020 Stormwater Inspection	Public Works Department Roads & Drainage Division	Tracked through employee daily worksheets and storm sewer repair/maint. inspection tracking log; maint. activities performed in-house (25) maintenance activities and (508) inspections
	Ditches / conveyance swales (miles)	6.07	292	100	292	100	Found at x drive: 2020 Stormwater Inspections	Public Works Department Roads & Drainage Division	Biscayne Blvd (.04 miles) 40 maintenance activities Biscayne Drive (0.9 miles) 41 maintenance activities Swain Blvd (1 mile) 8 maintenance activities Empire Way (0.34 miles) 35 maintenance activities Centurian Way (0.12 miles) 36 maintenance activities

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record					Entity Performing the Activity	Comments	
										57 th Ave from 10 th Ave to Lake Worth Rd. (0.33 miles) 17 maintenance activities Bowman Rd. (0.47 miles) 2 maintenance activities Sherwood Forest Blvd. (2.87 miles) 113 maintenance activities;
	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.	<input type="checkbox"/>							All met	

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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.1 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: Proactively schedule inspections and repairs				
	Limitations: Labor resources and capital funding				
	SWMP revisions implemented to address limitations: Staff members added to the code enforcement and Planning & Engineering Dept. to monitor residential and commercial construction.				
Part III.A.2	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	0	New World Systems/Planning & Engineering	Building	None were reported
	Number of significant development	0	New World	Building	None were reported
	Provide in the Year 4 Annual Report the follow-up report on plan implementation. See Attachment A				
	Year 2 ONLY: Attach the summary report of the review activity	<input type="checkbox"/>			
	Year 4 ONLY: Attach the follow-up report on plan implementation	<input checked="" type="checkbox"/>	Review of Greenacres Codes and Regulations that Reduce Stormwater Impacts	Planning and engineering	See Attachment A
Part III.A.2 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: Strong documentation, training and implementation of program.				
	Limitations: Follow through from other Depts.				
	SWMP revisions implemented to address limitations: No limitations identified.				
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. <i>Note: If the permittee does not contract activities, delete CONTRACTOR activities.</i>				
	PERMITTEE Litter Control: Frequency of litter collection	52 times	Employee daily worksheets and DOC tracking log found at X:\DOC	Roads & Drainage Staff	Performed weekly
	PERMITTEE Litter Control: Estimated amount of area maintained (lf)	180.2 acres	Employee daily worksheets and DOC tracking log found at X:\DOC	Roads & Drainage Staff	
	PERMITTEE Litter Control: Estimated amount of litter collected (cy)	11,940 lbs.	Employee daily worksheets and DOC tracking log found at X:\DOC	Roads & Drainage Staff	398 bags collected
	CONTRACTOR Litter Control: Frequency of litter collection	54 days	Employee daily worksheets and DOC tracking log found at X:\DOC	DOC Work Squad	54 days (reduction due to weather and Covid-19)

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	CONTRACTOR Litter Control: Estimated amount of area maintained (lf)	180lf	Employee daily worksheets and DOC tracking log found at X:\DOC	DOC Work Squad	
	CONTRACTOR Litter Control: Estimated amount of litter collected (cy)	109,080 lbs.	Employee daily worksheets and DOC tracking log found at X:\DOC	Parks Staff/ DOC Work Squad	3,636 bags (reduction from previous year due to weather and Covid-19)
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 miles	X:\Office of Director\Public Works	Volunteers	No events held due to Covid-19
	Trash Pick-up Events: Estimated amount of litter collected (cy)	0 lbs.	X:\Office of Director\Public Works	Volunteers	No events held due to Covid-19
	Adopt-A-Road: Total miles cleaned	0	X:\Office of Director\Public Works	Volunteers	No events held due to Covid-19
	Adopt-A-Road: Estimated amount of litter collected (cy)	0	X:\Office of Director\Public Works	Volunteers	No events held due to Covid-19
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	0	City Maps	Public Works	No curbed gutters
	Total miles swept	0	City Maps	Public Works	No curbed gutters
	Estimated quantity of sweeping material collected (cy/tons)	0	City Maps	Public Works	No curbed gutters
	Total phosphorous loadings removed (pounds)	0	City Maps	Public Works	No curbed gutters
	Total nitrogen loadings removed (pounds)	0	City Maps	Public Works	No curbed gutters
Report the equipment yards and maintenances shops that support road maintenance activities, and the number of inspections conducted for each facility.					
	Name of Facility	Number of Inspections			
	Public Work Maintenance Facility	43	Log book in Vehicle Maintenance Supervisor's office and Parks Maintenance Staff	Parks Staff/Vehicle Maintenance Staff	43 maintenance/inspection activities

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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.3 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit. See Attachment A				
	Strengths:				
	Limitations:				
	SWMP revisions implemented to address limitations:				
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	4	Various Purchase Orders	Contractors	PO 2020-205: Riser modification to correct drainage PO 2020-206: Walker Ave/L-10 Canal pipe and headwall repair PO 2020-207: Cesar Circle CIPP pipe rehab PO 2017-256: 57th Ave Drainage Improvements
	Flood control projects completed that did not include stormwater treatment	0	Purchase Orders	Contractors	
	Stormwater retrofit projects planned/under construction	0	Purchase Orders	Contractors	
	Stormwater retrofit projects completed	4	Purchase Orders	Contractors	
	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.	<input checked="" type="checkbox"/>	Purchase Orders	Contractors	All projects undertaken were rehabilitation of existing storm systems (see above)
Part III.A.4 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: Program is proactively address flooding issues				
	Limitations: Pollution reduction				
	SWMP revisions implemented to address limitations: Proactively looking for green, reduction methods. Adding additional inspectors/code enforcement officers to address illicit discharges.				

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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			
	None	0	Palm Beach County Property Appraisers	Public Works	The City does not own/maintain any facilities.
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	0	Located in personnel records in City's Laserfiche System	Florida Dept. of Agriculture	Training was not facilitated due to COVID-19 and City Policy
	CONTRACTORS: FDACS commercial applicators of pesticides/ herbicides	2	Located in Public Works' Contractor Files	Gulfstream Termite and Environment al Services, LLC and Aquagenix	License numbers on file
	PERSONNEL: Green Industry BMP Program training completed	27	Located in personnel records in City's Laserfiche System	Xcal Videos	Includes Public Works and Building Dept. Staff
	CONTRACTORS: FDACS certified / licensed applicators of fertilizer	2	Located in Public Works' Contractor Files	Gulfstream Termite and Environment al Services, LLC and Aquagenix	License numbers on file
	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	<input type="checkbox"/>			Year 4

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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 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	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.			
	Brochures/Flyers/Fact sheets distributed	50	Building Department counter monthly brochure log	Building Department	Hand written log noted on the first of the month Permit tech counts the number of brochures taken from the display and enters into log.
	Neighborhood presentations: Number conducted	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	Cancelled due to Covid-19
	Neighborhood presentations: Number of participants	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	Cancelled due to Covid-19
	Newspapers & newsletters: Number of articles/notices published	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	None
	Newsletters: Number of newsletters distributed	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	None
	Public displays (e.g., kiosks, storyboards, posters, etc.)	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	None
	Radio or television Public Service Announcements (PSAs)	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	None
	School presentations: Number conducted	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	None
	School presentations: Number of participants	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	None
	Seminars/Workshops: Number conducted	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	None
	Seminars/Workshops: Number of participants	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	None
	Special events: Number conducted	0	ICC Cleanup	Building Department	Cancelled due to Covid-19
	Special events: Number of participants	0	ICC Cleanup	Building Department	Cancelled due to Covid-19
	Number of visitors to stormwater-related pages	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	The City currently does not have a counter on the webpage.

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Part III.A.6 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: Capitalize on opportunities when they arise				
	Limitations: Labor resources				
	SWMP revisions implemented to address limitations: Proactively search for additional opportunities				
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	<input checked="" type="checkbox"/>	Review of City of Greenacres Codes and Regulations that reduce stormwater impacts	Planning & Engineering Dept.	See Attachment A
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	75	Scanned in LF under NPDES FY 2020	Building Department	Code Enforcement Module and scanned into LF by address
	Illicit discharges found during a proactive inspection	9	Violation corrected same day	Building Department	Code Enforcement Module and scanned into LF by address
	NOV/WL/citation/fines issued for illicit discharges found during proactive inspection	9	CE started cases and issued citations	Building Department	Code Enforcement Module and scanned into LF by address
	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	3	Code Enforcement Module and scanned into LF by address	Building Department	Code Enforcement Module and scanned into LF by address
	Reactive investigations of reports of suspected illicit discharges etc.	3	Code Enforcement Module and scanned into LF by address	Building Department	Code Enforcement Module and scanned into LF by address
	Illicit discharges etc. found during reactive investigation	3	Code Enforcement Module and scanned into LF by address	Building Department	Code Enforcement Module and scanned into LF by address
	NOV/WL/citation/fines issued for illicit discharges etc. found during reactive investigation	3	Code Enforcement Module and scanned into LF by address	Building Department	Code Enforcement Module and scanned into LF by address
	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	10	Personnel training records in each Department	Building Department	(10) Building Department Staff (21) Public Works Staff
	Contractors trained	0	None	none	

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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	Code Enforcement Log	Building Department	
	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	Scanned in Laserfiche under NPDES FY 2020	Building Department	
	Contractors trained	0	Scanned in Laserfiche under NPDES FY 2020	Building Department	
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	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.			
	Brochures/Flyers/Fact sheets distributed	50	Building Department counter monthly brochure log	Building Department	Hand written log noted on the first of the month Permit tech counts the number of brochures taken from the display and enters into log.
	Neighborhood presentations: Number conducted	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	Cancelled due to Covid-19
	Neighborhood presentations: Number of participants	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	Cancelled due to Covid-19
	Newspapers & newsletters: Number of articles/notices published	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	Cancelled due to Covid-19
	Newsletters: Number of newsletters distributed	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	Cancelled due to Covid-19
	Public displays (e.g., kiosks, storyboards, posters, etc.)	1	In City Hall during art event	Building Department	February 21, 2020
	Radio or television Public Service Announcements (PSAs)	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	Cancelled due to Covid-19
	School presentations: Number conducted	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	Cancelled due to Covid-19
	School presentations: Number of participants	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	Cancelled due to Covid-19
	Seminars/Workshops: Number conducted	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	Cancelled due to Covid-19

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
	Seminars/Workshops: Number of participants	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	Cancelled due to Covid-19
	Special events: Number conducted	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	Cancelled due to Covid-19
	Special events: Number of participants	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	Cancelled due to Covid-19
	Number of visitors to stormwater-related pages	0	Log kept in NPDES file cabinet at Building Dept.	Building Department	The City does not have a counter on the webpage.
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	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.			
	Brochures/Flyers/Fact sheets distributed	50	Building Department counter monthly brochure log	Building Department	Hand written log noted on the first of the month Permit tech counts the number of brochures taken from the display and enters into log.
	Neighborhood presentations: Number conducted	0	Building Department counter monthly brochure log	Building Department	Cancelled due to Covid-19
	Neighborhood presentations: Number of participants	0	Building Department counter monthly brochure log	Building Department	Cancelled due to Covid-19
	Newspapers & newsletters: Number of articles/notices published	0	Building Department counter monthly brochure log	Building Department	Cancelled due to Covid-19
	Newsletters: Number of newsletters distributed	0	Building Department counter monthly brochure log	Building Department	Cancelled due to Covid-19
	Public displays (e.g., kiosks, storyboards, posters, etc.)	0	Building Department counter monthly brochure log	Building Department	Cancelled due to Covid-19
	Radio or television Public Service Announcements (PSAs)	0	Building Department counter monthly brochure log	Building Department	Cancelled due to Covid-19
	School presentations: Number conducted	0	Building Department counter monthly brochure log	Building Department	Cancelled due to Covid-19
	School presentations: Number of participants	0	Building Department counter monthly brochure log	Building Department	Cancelled due to Covid-19
	Seminars/Workshops: Number conducted	0	Building Department counter monthly brochure log	Building Department	Cancelled due to Covid-19
	Seminars/Workshops: Number of participants	0	Building Department counter monthly brochure log	Building Department	Cancelled due to Covid-19
	Special events: Number conducted	0	Building Department counter monthly brochure log	Building Department	Cancelled due to Covid-19

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
	Special events: Number of participants	0	Building Department counter monthly brochure log			Building Department	Cancelled due to Covid-19
	Storm sewer inlets newly marked/replaced	0	Building Department counter monthly brochure log			Building Department	Cancelled due to Covid-19
	Number of visitors to stormwater-related pages	0	Building Department counter monthly brochure log			Building Department	The City does not have a counter on the webpage.
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	Palm Beach County Water Utilities Department					
	Activity to reduce/eliminate SSOs and I&I: (description)	0	See PBC Report			PBC	Included in PBC Report
	Activity to reduce/eliminate SSOs and I&I: (description)	0	See PBC Report			PBC	Included in PBC Report
	SSO incidents discovered	0	See PBC Report			PBC	Included in PBC Report
	SSO incidents resolved	0	See PBC Report			PBC	Included in PBC Report
	Inflow / infiltration incidents discovered	0	See PBC Report			PBC	Included in PBC Report
	Inflow / infiltration incidents resolved	0	See PBC Report			PBC	Included in PBC Report
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: N/A						
	Limitations: N/A						
	SWMP Revisions implemented to address limitations: N/A						
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	Floridadep.gov/waste water	Public Works	City does not operate sites

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
	Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities	0	0	0	0	Environ.epa.gov	Public Works	
	EPCRA Title III, Section 313 facilities (TRI)	0	0	0	0	Environ.epa.gov	Public Works	
	Facilities determined as high risk by the permittee	0	0	0	0	Illicit Programs	Public Works	
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	SOP				Public Works	
Part III.A.8 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.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	Scanned in Laserfiche under NPDES FY 2020			Building Department	Rehab projects	
	PERMITTEE SITES: Construction site plans approved	0	Scanned in Laserfiche under NPDES FY 2020			Building Department	Rehab projects	
	PRIVATE SITES: Construction site plans reviewed	2	Scanned in Laserfiche under NPDES FY 2020			Building Department		
	PRIVATE SITES: Construction site plans approved	2	Scanned in Laserfiche under NPDES FY 2020			Building Department		
	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	2	Building Department New world System reporting			Planning & Engineering Department	Scanned in Laserfiche under NPDES FY 2020	
	Confirmed ERP coverage	2	Building Department New world System reporting			Planning & Engineering Department	Scanned in Laserfiche under NPDES FY 2020	
	Notified of CGP stormwater permit requirements	2	Building Department New world System reporting			Planning & Engineering Department	Scanned in Laserfiche under NPDES FY 2020	

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
	Confirmed CGP coverage	2	Building Department New world System reporting		Planning & Engineering Department	Scanned in Laserfiche under NPDES FY 2020
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	Scanned in Laserfiche under NPDES FY 2020		Building Department	
	PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	0	Scanned in Laserfiche under NPDES FY 2020		Building Department	
	PERMITTEE SITES: Percentage of active construction sites inspected	0	Scanned in Laserfiche under NPDES FY 2020		Building Department	
	PRIVATE SITES: Active construction sites	1	Scanned in Laserfiche under NPDES FY 2020		Building Department	
	PRIVATE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	5	Scanned in Laserfiche under NPDES FY 2020		Building Department	
	PRIVATE SITES: Percentage of active construction sites inspected	100%	Scanned in Laserfiche under NPDES FY 2020		Building Department	
	Enforcement Action	0	Scanned in Laserfiche under NPDES FY 2020		Building Department	
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	1	10	Scanned in Laserfiche under NPDES FY 2020	Building Department	
	Permittee construction site plan reviewers		2	Scanned in Laserfiche under NPDES FY 2020	Planning & Engineering Department	
	Permittee construction site operators		0	Scanned in Laserfiche under NPDES FY 2020	Building Department	

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.9 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: Pro-active in the permitting process				
	Limitations: Labor shortage				
	SWMP revisions implemented to address limitations: Considering re-structuring of Dept. to meet needs.				

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	
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	

SECTION IX. TMDL Status Report

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

CITY OF GREENACRES
PALM BEACH COUNTY NPDES
PERMIT NO. FLS000018

4TH YEAR 4TH CYCLE REPORT

MUNICIPAL SEPARATE STORM SEWER SYSTEM
ATTACHMENT A

OCTOBER 1, 2019
TO
SEPTEMBER 30, 2020

**REVIEW OF GREENACRES CODES
AND REGULATIONS THAT REDUCE
STORMWATER IMPACTS**

CITY OF GREENACRES
PLANNING AND ENGINEERING DEPARTMENT
OCTOBER 31, 2012
REVISED JANUARY 7, 2015
REVISED MAY 24, 2018
REVISED APRIL 4, 2019
REVISED JANUARY 28, 2020
REVISED DECEMBER 1, 2020

In accord with the requirements of the City's MS4 Permit, this report will serve as documentation of the required review of current codes and land development regulations to identify changes that will reduce the stormwater impact of new development and significant redevelopment. To conduct the review, the following documents were used:

1. Chapter 16, Article IV of the City Code concerning patios and driveways, with revisions included in Ordinance 2010-09 adopted June 7, 2012.
2. City Code Chapter 4, Article I concerning land clearing; Chapter 7, Article II concerning property maintenance; and Chapter 16, Article VII concerning landscaping, with revisions included in Ordinance 2011-06 adopted May 16, 2011.
3. Chapter 12 of the City Code concerning subdivisions and land development regulations, with revisions included in Ordinance 2012-16 adopted October 12, 2012.
4. Planning and Engineering Department Policy and Procedure Manual.
5. Chapter 7, Article V of the City Code concerning fertilizer use, with revisions included in Ordinance 2012-20 adopted December 3, 2012.

Within the last few years, the City of Greenacres has worked to update the Zoning Code and Subdivision and Land Development Regulations of the City to incorporate modern practices and materials, integrate lessons learned through the NPDES program, and to codify various interpretive policies.

As described below, these recent updates to the City's Code and policies have put in place regulations to add many of the low-impact design practices; or have expanded upon support for these practices already present in the Code.

1. Grassed swales: The prescriptive design for local streets found in Section 12-67(r) calls for grass swales. The swales occupy the significant remainder of right-of-way left after the modest pavement and sidewalk widths have been subtracted. Most streets in the City have been built using this design or its predecessors. Section 7-29 requires that all swales have a complete groundcover of lawn grass in order to preclude the installation of various impervious materials which would compromise the functioning of the swale. A number of years ago, the City experimented with alternatives to sod for swales by allowing a developer to use a groundcover plant. The experiment was a failure due to washing out of the plants caused by the flow of runoff across the swale and water splashed on the planting area from the roadway. The plants were removed and replaced with sod.
2. Pervious pavement: The City's Subdivision and Land Development Regulations do not currently allow pervious pavement. The City has concerns about the long

term performance and durability of this product. It is also our understanding that the South Florida Water Management District does not allow this material to count towards required drainage. Given the added expense and maintenance concerns, we do not anticipate adding allowance for pervious pavement to the Code in the near term, but we will re-evaluate this if these circumstances change.

3. Green roofs: These are primarily a Building Code issue due to the structural loads imposed and related concerns. The City's Code does not prohibit green roofs and roof gardens.
4. Rain barrels / cisterns: The City's Code does not prohibit rain barrels or cisterns.
5. A minimum value of green / open space: The City's Landscape Code in Section 16-1286 requires large perimeter buffers of a prescribed width (typically not less than 10 feet and as wide as 25 feet in some cases) and in Section 16-1287 requires that a minimum of 10% of the parking area be landscaped. It has been our experience that these standards provide a reasonable balance between open space and the City's older suburban development pattern. Adding an overall green or open space percentage requirement would not be productive or conducive to redevelopment.
6. Bio-retention facilities / areas: The City's Code promotes the use of swales by requiring them as part of the standard local street cross section [Section 12-76(r)] and requiring that they be grassed (Section 7-29). As described in 1. above, we have not had good results using other materials for swale landscaping. To achieve cleaner water and provide wildlife habitat, Section 16-1291 requires the installation of littoral plants and wetland trees in all drainage ponds.
7. Native landscaping / FYN program: Section 16-1307 of the Code requires that native trees be used for at least 50% of the required trees in a project and Sections 16-1307 and 16-1308 list the recommended native trees and shrubs that should be used.
8. Irrigation conservation: To help conserve irrigation water, the City has adopted xeriscape principles into the Code in Section 16-1305. Also, Section 16-1266 describes concepts which will conserve water and which should be incorporated into all proposed landscape designs such as preservation of existing plants, re-establishment of native plant communities, limiting lawn grass areas, use of plants suitable for the growing conditions to be encountered, provision of shade trees to reduce transpiration of understory plants, and retention of stormwater. In addition, in Section 16-1246 of the Code, rain sensors and certain other design features are included to eliminate wasted irrigation.
9. Infiltration trenches: The City's Code does not prohibit infiltration trenches. Also, our local soil conditions are typically such that retention and detention areas don't need a gravel bed or similar bottom to percolate well.

10. Retention of runoff: Retention of runoff as part of the design of a proper stormwater management system is required by Section 12-58(a), (b), and (i). In addition to the swales and retention / detention ponds discussed above, the design of individual house lots contributes to retention of runoff. The City's Code requires that all lots be landscaped and limits the size of driveways and patios by imposing setback standards. This has the effect of reducing impervious area, which reduces runoff, and increasing retention of stormwater through preservation of pervious area.
11. Vegetative buffers / filters: Section 16-1291 requires the installation of littoral plants and wetland trees in all drainage ponds. These plants will help filter the stormwater prior to discharge from the lake.

In addition, on December 3, 2012 the City Council adopted Ordinance 2012-20 implementing into the City Code "Florida Friendly Fertilizer Use" regulations consistent with FDEP's model ordinance on appropriate fertilizer application controls.

Given the previous updates to the City's Code and given the limitations of the features listed above which have not been adopted, further changes to the City's Zoning, Landscaping, and Subdivision and Land Development Codes do not appear to be necessary.

**CITY OF GREENACRES
4TH YEAR 4TH CYCLE REPORT**

OCTOBER 1, 2019

TO

SEPTEMBER 30, 2020

**Part V. Monitoring Requirements
Attachment B. Assessment Report**

Assessment Program Objective

The purpose of this assessment program is to provide information for the City of Greenacres 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.

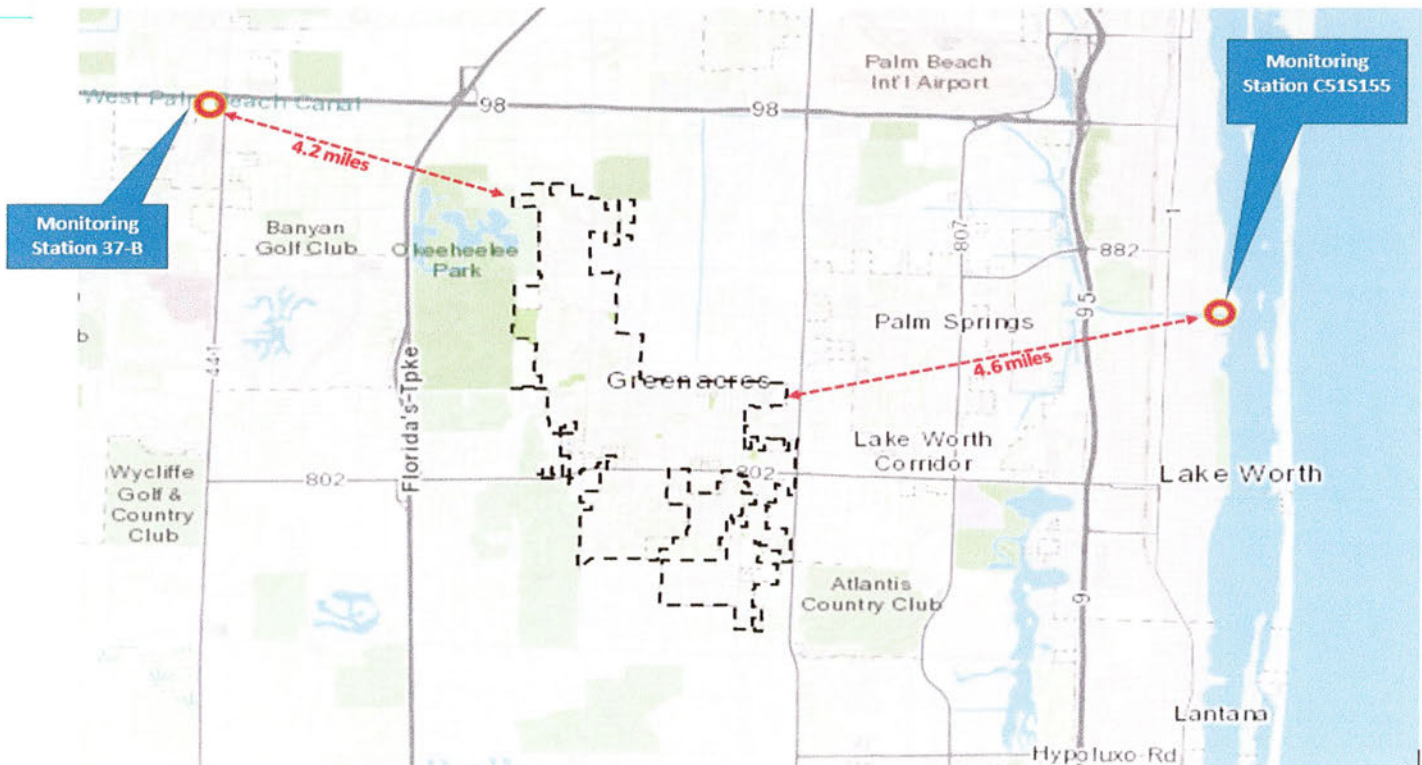
Assessment Program Components

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

Based on the location of the outfalls of our MS4, two (2) monitoring station have been established. The following table identifies these monitoring stations, along with relevant information about the location. More specifically, Station 37B is located upstream approximately 4.2 miles north west of the City of Greenacres at the intersection of SR 7 and Southern Boulevard (SR 80). Station C51S155 is located east of Dixie Highway at the discharge point into Lake Worth (Intracoastal Waterway) approximately 4.6 miles east of the City of Greenacres.

Monitoring Station Number	Location/Description	Lat./Long.	Receiving Water Body	Verified Impaired?	Adopted TMDL?
37-B	C-16 Basin	853637021/ 916592.84	C-51 Canal	No	No
C51S155	C-51 Canal Basin	841132.85/ 964349.43	C-51 Canal	No	No



Sampling Method

Information on the sampling, frequency and monitoring parameters is contained in the group Joint Annual Report (refer to www.pbc-npdes.org under Annual Reporting). The Palm Beach County MS4 permittee group will be developing pollutant loading estimates during the 3rd 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). During Year 3, the City of Greenacres participated in this effort by reviewing its MS4 contributing areas and providing updated information on its boundary, septic areas and the land uses located therein. Any stormwater quality best management practices (BMPs) that are in place within the MS4 area, were identified, along with their geospatial extent. The group’s estimated pollutant loading results will be provided to each permittee for use in this assessment effort. To determine a practical estimate of the current pollutant loading, the City of Greenacres will use the land use based pollutant loading estimates provided by the group as the starting point from which pollutant load reductions will be subtracted.

The pollutant load reductions will be estimated based on the BMPs that have been put in place within the MS4 contributing areas. In this way, when future estimates are done, and potentially additional reduction measures (such as public education, litter control, etc.) are put in place, the estimated pollutant loading will reflect the reductions.

Part B: Pollutant Loading Estimates

The City of Greenacres reviewed the water quality data in the C-16 and the C-51 East Basins to identify notable nutrient water quality and perform an assessment comparison with applicable water quality standards. The Palm Beach County MS4 permittee group developed pollutant loading estimates during the 3rd year of this permit cycle, using the SIMPLE protocol. The group provided each permittee with pollutant loading estimates that reflect their respective MS4 area. The group’s estimated pollutant loading results, based on land use and BMP’s, was provided to each permittee for use in this assessment effort. The results are summarized in the table below. Also included is a 6% reduction for public education as allowed by FDEP for non-structural BMPs. The Palm Beach County MS4 Group conducts public outreach programs throughout the year.

City of Greenacres Pollutant Loads C-16 Watershed (lbs/yr)						
	BOD ₅	TSS	TP	CU	ZN	TN
2013	7,065	35,477	339	17	77	3,477
2018	7,068	35,496	339	17	77	3,478
6 % Reduction allowance	6,644	33,366	319	16	74	3,269
Total Reduction	5.96%	5.95%	5.90%	5.88%	3.90%	5.98%

City of Greenacres Pollutant Loads C-51 Watershed (lbs/yr)						
	BOD ₅	TSS	TP	CU	ZN	TN
2013	20,134	107,137	1,253	50	226	21,637
2018	20,140	107,180	1,254	50	226	21,639

6 % Reduction allowance	18,932	100,749	1,179	47	212	20,341
Total Reduction	5.97%	5.96%	5.91%	6.00%	6.19%	5.99%

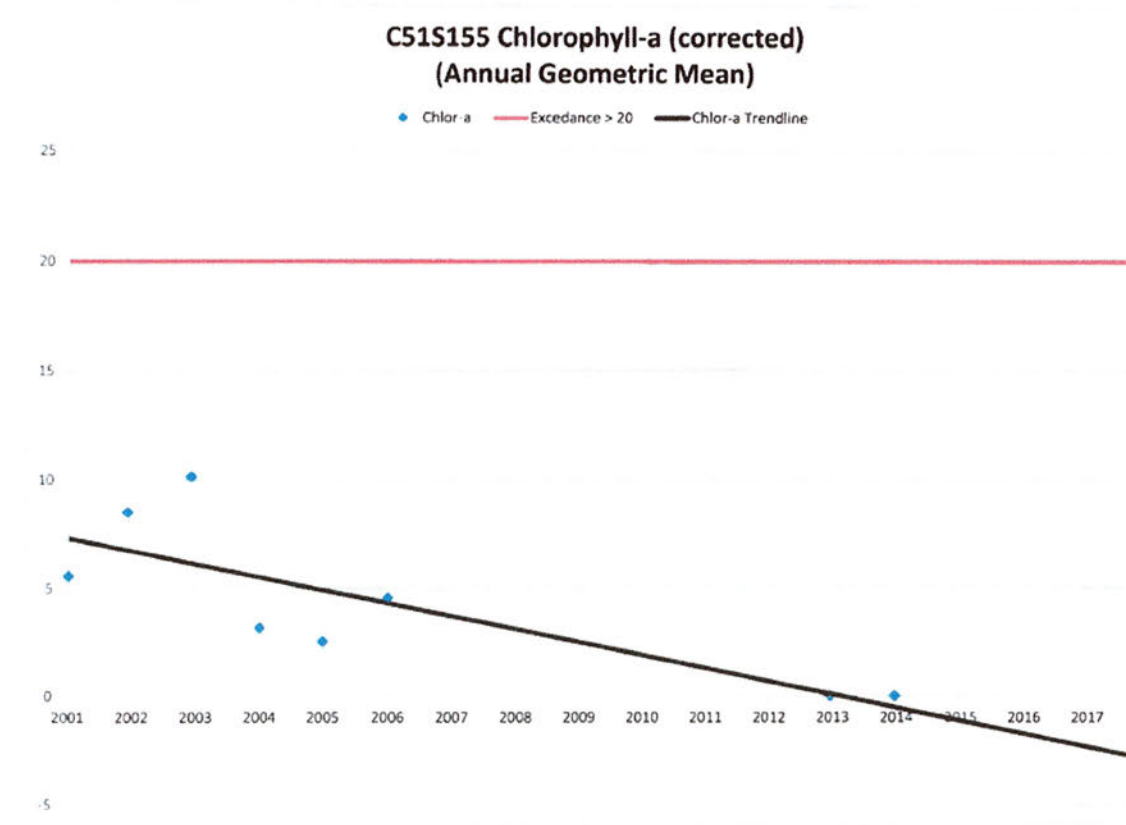
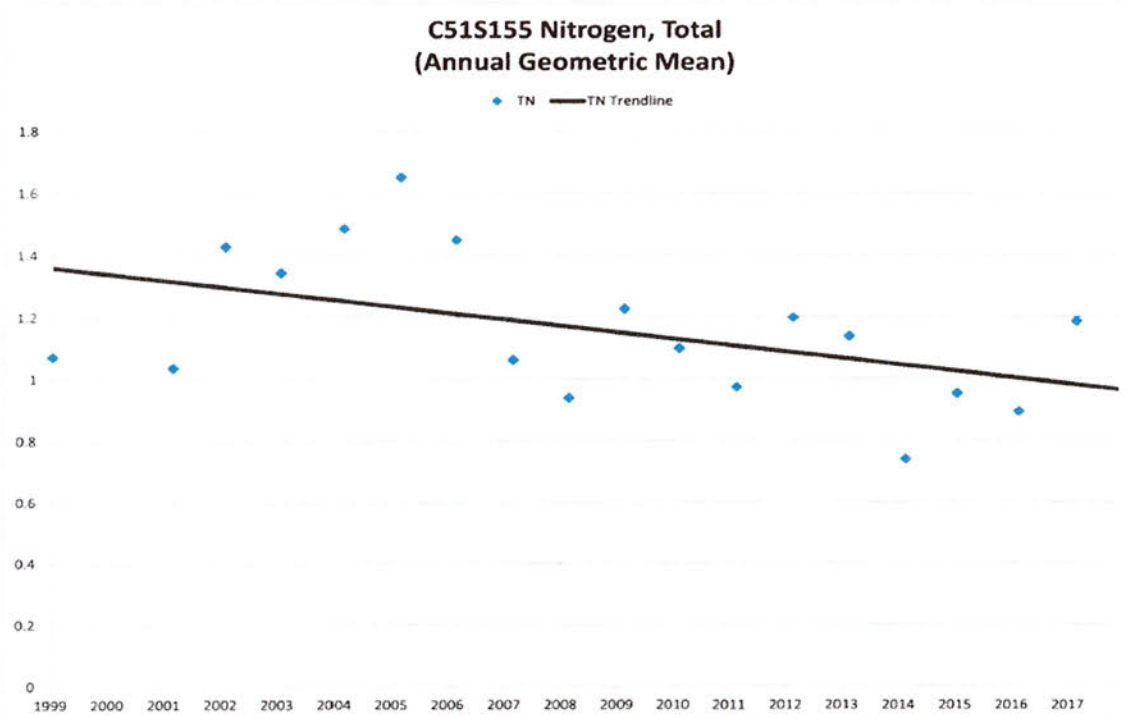
The pollutant loading estimates indicate that there have been minimal changes in the pollutant loadings over the past two permit cycles. The City of Greenacres' estimated pollutant loads make up only 0.36% of the MS4 total load within the C-16 Watershed and 0.43% of the MS4 total load within the C-51 Watershed; this represents 16.52% of the total C-16 basin and 48.51% of the total C-51 basin loads. Therefore, the majority of the pollutant loading appears to be from non-MS4 sources (see group report).

Part C – Evaluation and Response Plan

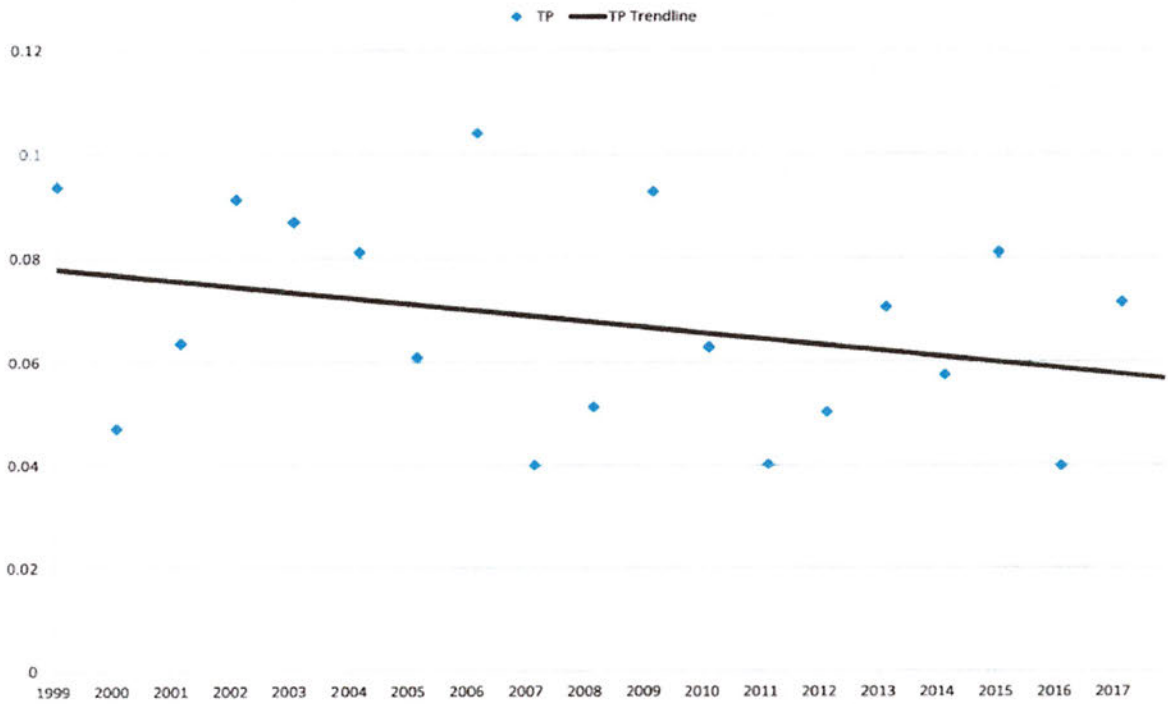
The City of Greenacres has utilized data based on the sample results compiled for the Joint Annual Report. This first annual Water Quality Assessment report was prepared concurrent with the Year 3 Annual Report Form (March 2020). The pollutant loading estimates developed during Year 3 of the permit cycle have been reviewed and compared with the previous permit cycle, with respect to our MS4. In addition, water trending reports/graphs for various parameters, as presented in the Joint Annual Report, were reviewed and summarized.

Part D – Assessment of water quality data and pollutant loading comparison

Based on the data from the water quality monitoring and pollutant loading estimates, there was a minor decrease in the amount of nutrients attributed to the City of Greenacres. Based on the evaluation herein, it can be concluded that City's Stormwater Management Programs (litter control, public education, Fertilizer Ordinance etc.) are appropriate. Based on the assessment, a determination of the effectiveness of the of the City's program and whether there is no need to implement additional pollutant reduction measures. The City will continual to pursue reduction improvements as needed. .



C51S155 Phosphorus, Total (Annual Geometric Mean)



37B Chlorophyll-a (corrected) (Annual Geometric Mean)

