



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: Florida Department of Transportation - District Four		
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 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: Antonio Castro, P.E.		
	Title: District Four Maintenance Engineer		
	Mailing Address: 3400 W Commercial Blvd		
	City: Fort Lauderdale	Zip Code: 33309	County: Broward
	Telephone Number: 954-777-4449		Fax Number: 954-777-4223
G.	E-mail Address: Antonio.Castro@dot.state.fl.us		
	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Ivette Leiva		
	Title: NPDES Coordinator		
	Department: District Four Permitting		
	Mailing Address: 3400 W Commercial Blvd		
	City: Fort Lauderdale	Zip Code: 33309	County: Broward
Telephone Number: 954-777-4221		Fax Number: 954-777-7893	
E-mail Address: Ivette.Leiva@dot.state.fl.us			

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

A.	Number of outfalls ADDED to the outfall inventory in the current reporting year (insert "0" if none): 0 (Does this number include non-major outfalls? <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): 0 (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

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: <i>Current approved plan for the Group Monitoring Plan is September 8, 2016 (with issuance of the Cycle 4 permit). FDOT-4's individual Assessment Program Plan was submitted on September 8, 2017 and approved by FDEP on May 15, 2018.</i></p> <p>Status: <i>The Group Monitoring Report is included in the Cycle 4, Year 3 Joint Annual Report. No changes were made to the group monitoring plan between the Year 3 and Year 4 report.</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>Please refer to Attachment 1 in this annual report package.</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>Per FDOT-4's approved Assessment Program Plan, FDOT-4 will use Pollutant Loading estimates to assess FDOT-4's SWMP. Please see Attachment 1 of this annual report package for additional details.</i></p>

SECTION IV. FISCAL ANALYSIS

A.	Total expenditures for the NPDES stormwater management program for the current reporting year: \$2,497,498.20
B.	Total budget for the NPDES stormwater management program for the subsequent reporting year: \$2,345,000.00
C.	<p>Did subsequent program resources decrease from the current reporting period? 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. <i>FDOT budgets are legislatively approved on an annual basis. Each FDOT District has a portion of the budget allocated for the NPDES stormwater management program that is utilized to support several permit compliance activities. Additional funding for compliance activities is provided through other FDOT programs (e.g., routine maintenance activities for the stormwater system are conducted by the District Maintenance Office). The total budget for the subsequent reporting year includes only the portion of funding secured for the NPDES stormwater management program. Additional expenditures accrued through other programs (e.g., by the District Maintenance Office for routine maintenance activities) are estimated based on the work completed during the reporting period and included in the total expenditures for the current reporting year.</i></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"/>	If program resources have decreased from the previous year, a discussion of the impacts on the implementation of the SWMP.	Part II.F	
<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 type="checkbox"/>	<input checked="" 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 VI.B.2.	
<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 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 report on any amendments to the applicable legal authority (if applicable).	Part III.A.7a	
<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	Attachment 1
<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): Antonio Castro, P.E.

Title: District Four Maintenance Engineer

Signature:  Date: 03/ 15 /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 Inventory/Inspection = count Maintenance = acres		151	1,913	100	2,913		FDOT's GIS Database NPDES Inspections – MMS Activity Codes 432, 433, 436, 451, 471, 482, 485, 498	E Sciences, Inc. PB Ops (FDOT – 4 Palm Beach Operations Center) Maintenance Personnel and Approved Contractors	Inspections are performed in accordance with Part III.A.1 of the NPDES MS4 permit and the FDEP approved FDOT SSWMP.		
Underdrain filter systems		0	0	0	0						
Exfiltration trench / French drains Inventory/Inspection = count Maintenance = linear feet		599	0	0	11,241						
Grass treatment swales Inventory/Inspection = count Maintenance = acres		913	10,957	100	2,930						
Dry detention systems Inventory/Inspection = count Maintenance = acres		54	686	100	2,913						
Wet detention systems Inventory/Inspection = count Maintenance = acres		28	362	100	2,913						
Detention with filtration systems		0	0	0	0						
Alum Injection systems		0	0	0	0						
Pollution control boxes Inventory/Inspection = count Maintenance = linear feet		61	93	100	16,861					PCBs are inspected in accordance with Part III.A.1 of the permit and FDOT -4's	

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	<p>Pump stations</p> <p>Major outfalls Inventory/Inspection = count Maintenance = linear feet</p>								SOPs. The alternate schedule SOP and tracking table was provided to FDEP in 2016; an updated tracking table is available upon request.
		0	0	0	0		NA	NA	No known pump stations.
		230	145	63	24,377		FDOT's GIS Database NPDES Inspections & MRP MMS Activity Codes 451 & 464	E Sciences, Inc. PB Ops Maintenance Personnel and Approved Contractors	Inspections completed per Section 3.1.2 of FDOT SSWMP and FDOT-4's SOPs. The alternate schedule SOP and tracking table was provided to FDEP in 2016; an updated tracking table is available upon request.

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed					Documentation / Record	Entity Performing the Activity	Comments
	Weirs or other control structures Inventory/Inspection = count Maintenance = linear feet	317	59	19	16,889		FDOT's GIS Database MRP MMS Activity Codes 451 & 457	PB Ops Maintenance Personnel and Approved Contractors	Inspections completed per Section 3.1.2 of FDOT SSWMP
	pipes / culverts Inventory = feet Inspection = count Maintenance = linear feet	169,319	26		28,560		RCI Feature 241 MRP MMS Activity Codes 451 & 456		
	Canals	0	0	0	0				
	Inlets / catch basins / grates Inventory/Inspection = count Maintenance = linear feet	13,800	122	1	28,130		RCI Feature 242 MRP MMS Activity Codes 451 & 457		
	Ditches / conveyance swales Inventory = miles Inspection = count Maintenance = acres	591	166		2,931		RCI Features 245 & 248 MRP MMS Activity Codes 432, 433, 436, 461, 471, 482, 485 and 498		
If the minimum inspection frequencies set forth in Table II.A.1.a. of the permit or the SSWMP 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"/>								

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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.3 of the permit.				
	Strengths: FDOT District Four has a robust inspection and maintenance program for stormwater treatment facilities and conveyance structures that has been in place for many years. It is designed to identify issues and rectify them to ensure proper function of treatment systems and structures. Stormwater facilities and conveyance structures are inspected routinely and maintained consistent with the Department's SSWMP.				
	Limitations: None at this time.				
	SWMP revisions implemented to address limitations: None at this time.				
Part III.A.2	Areas of New Development and Significant Redevelopment				
	Continue to employ the FDOT Drainage Connection Permit (DCP) requirements to ensure that appropriate stormwater treatment and permitting occurs prior to discharge into the FDOT system. FDOT shall refer connecting entities failing to meet the DCP requirements or maintain the discharge of acceptable water quality, after sufficient warning by FDOT, to DEP and/or the appropriate Water Management District to regulate the stormwater quality through local or State rules, ordinances, and codes. Report the number of enforcement referrals completed.				
	Number of enforcement referrals completed	0	FDOT D4 Issued Letters on File	NPDES MS4 Coordinator	No enforcement referrals during the reporting period.
Part III.A.2 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: FDOT District Four ensures off-site facilities meet existing water quality standards, reviews connections to FDOT's right-of-way through Drainage Connection Permits (DCPs) and refers connecting entities failing to meet DCP requirements to the appropriate regulatory agency.				
	Limitations: None at this time.				
	SWMP revisions implemented to address limitations: None at this time.				
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: The permittee does not contract activities, delete CONTRACTOR activities.</i>				
	PERMITTEE Litter Control: Frequency of litter collection (cycles)	12	Contract	PB Ops Maintenance Personnel	The difference in the amount collected per acre by the permittee and the contractor is the result of several variables
	PERMITTEE Litter Control: Estimated amount of area maintained (acres)	94	MMS Activity Code 541 Production Summary		
	PERMITTEE Litter Control: Estimated amount of litter collected (tons)	95	Disposal Tickets		
	CONTRACTOR Litter Control: Frequency of litter collection (cycles)	767	Disposal Tickets	PB Ops Approved	
	CONTRACTOR Litter Control: Estimated amount of area maintained (acres)	104,357	MMS Activity Code 541 Production		

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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>CONTRACTOR Litter Control: Estimated amount of litter collected (tons)</p>	680	<p>Summary</p> <p>Disposal Tickets</p>	Contractors	<p>such as land use, special events, and supplemental street sweeping. Please see FDOT's Broward County Cycle 3 Year 1 RAI Response for additional details.</p>
	<p>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".</p>				
	<p>Adopt-A-Road: Total miles cleaned</p>	116.2	Adopt-A-Highway Yearly Report	Volunteers	
	<p>Adopt-A-Road: Estimated amount of litter collected (bags)</p>	619	<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>		
	<p>Frequency of street sweeping (cycles)</p>	12	Contract	PB Ops	

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Total miles swept (per year)	13,006	MMS Activity Codes 542 & 543	Personnel and Approved Contractors	Based on the Broward County Cycle 3 Year 2 audit, FDOT does not report estimated quantity collected as it is not an accurate representati on of amount collected from FDOT ROW.
	Total phosphorous loadings removed (pounds)	4,629	FSA Toolkit Calculator	Calculated	
	Total nitrogen loadings removed (pounds)	7,219			
	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			
	Palm Beach Maintenance Yard	1	Inspection Report	E Sciences, Inc.	Inspection performed on 9/16/20.

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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.3 of the permit.				
	Strengths: FDOT District Four has a robust and active roadway management program that has been in place for many years, which includes public participation and awareness in events such as Adopt-A-Highway, litter pick-up, and street sweeping, as well as annual inspections of its maintenance yards. FDOT has been updating contracts to include quantity of litter collected.				
	Limitations: None at this time.				
	SWMP revisions implemented to address limitations: None at this time.				
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	2	FDOT- 4 Monthly Construction Reports and Projects Completed by Pushbutton Contracts	FDOT-4 Construction Office and FDOT-4 Drainage Department	
	Flood control projects completed that did <u>not</u> include stormwater treatment	0	Project Summaries	E Sciences, Inc.	
	Stormwater retrofit projects planned/under construction	0			
	Stormwater retrofit projects completed	0	FDOT-4 Monthly Construction Progress Reports and Projects Completed by Pushbutton Contracts	FDOT-4 Construction Office and FDOT-4 Drainage Department	
	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 type="checkbox"/>			
Part III.A.4 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: FDOT District Four continues to comply with the state's Environmental Resource Permit (ERP) requirements for construction of new roadways and roadway widening projects for water quality standards and attenuation criteria.				
	Limitations: None at this time.				
	SWMP revisions implemented to address limitations: None at this time.				

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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			
	Not Applicable	0			FDOT D4 does not own or operate municipal waste TSD facilities.
Part III.A.5 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: There are no applicable FDOT facilities in Palm Beach County meeting the listed criteria.				
	Limitations: Not applicable.				
	SWMP revisions implemented to address limitations: Not applicable.				
Part III.A.6	Pesticides, Herbicides, and Fertilizer Application				
	Report the number of permittee personnel applicators and contracted commercial applicators of pesticides and herbicides who are FDACS certified / licensed. Report the number of permittee personnel who have been trained through the Green Industry BMP Program and the number of contracted commercial applicators of fertilizer who are FDACS certified / licensed.				
	PERSONNEL: FDACS public applicators of pesticides/herbicides	1	Copy of Certificates	PB Ops Maintenance Personnel	
	CONTRACTORS: FDACS commercial applicators of pesticides/ herbicides	22	Copy of Certificates	PB Ops Approved Contractors.	
	PERSONNEL: FDACS certified / licensed applicators of fertilizer	0			FDOT D4 does not apply fertilizer.
	CONTRACTORS: FDACS certified / licensed applicators of fertilizer	1	Copy of Certificates	PB Ops Approved Contractors.	
	PERSONNEL: Green Industry BMP Program training completed	0			FDOT D4 does not apply fertilizer.

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Contractors: Green Industry BMP Program Training completed	2	Copy of Certificates	PB Ops Approved Contractors.	.
Part III.A.6 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: FDOT continues to require proper certification and licensing from Florida Department of Agriculture and Consumer Services (FDACS) for personnel and contractors applying pesticides or herbicides on FDOT property or rights-of-way, including the FDEP Green Industry BMP Program. FDOT has eliminated the regular use of fertilizer, and promotes the execution of a safe and effective chemical weed and grass control program.				
	Limitations: None at this time.				
	SWMP revisions implemented to address limitations: None at this time.				
Part III.A.7.a	Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures				
	Not Applicable to FDOT.				
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	14,364	Based on standard MRP work week and FDOT SSWMP NPDES Inspections Mowing Inspections	MRP E Sciences, Inc. PB Ops Maintenance Personnel and Approved Contractors	
	Illicit discharges found during a proactive inspection	3	IDDE Tracking Table	E Sciences, Inc. NPDES Coordinator	
	Number of enforcement referrals completed	0	Letters on File	NPDES MS4 Coordinator	
	Year 1 ONLY: Attach the written proactive inspection program plan	<input type="checkbox"/>			
	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	22	FDOT Tracker- Citizen Complaint	PB Ops Maintenance	
	Reactive investigations of reports of suspected illicit discharges etc.	22			

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Illicit discharges etc. found during reactive investigation	22	Log	Personnel and Approved Contractors	
	Number of enforcement referrals completed	0	Letters on File	NPDES MS4 Coordinator	
	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	84	Sign-in Sheet Certificates	E Sciences, Inc. FDOT Central Office	Training completed for Ops Center personnel, for MRP inspectors, and for Bridge Inspectors.
	Contractors trained	24	Number of Preconstruction Meetings	FDOT Central Office FDOT D4 Construction Office	Training covered at MRP Workshop and preconstruct ion meetings.
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	19	FDOT Tracker – Citizen Complaint Log FDOT Spills Report	PB Ops Maintenance Personnel and Approved Contractors	
	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.				

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		Personnel trained	91	Sign-In Sheet	E Sciences, Inc	Trainings completed on 9/24/2020 and multiple dates online.
		Contractors trained	24	Number of Preconstruction Meetings	FDOT D4 Construction Office	Training covered at preconstruction meetings.
Part III.A.7.e	Illicit Discharges and Improper Disposal — Public Reporting					
	Not Applicable to FDOT.					
Part III.A.7.f	Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control					
	Continue to include a notice with each FDOT Drainage Connection Permit with information on used oil recycling, proper hazardous waste disposal, stormwater regulations, and spill reporting. Report the number of notices distributed.					
	Number of notices distributed	34	Approved DCPs	D4 Permit Offices		
Part III.A.7.g	Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage					
	Advise the appropriate utility owner of a violation if constituents common to wastewater contamination are discovered in FDOT's MS4. Report the number of violations referred to the appropriate utility owner and the name of the utility owner.					
	Owner of the sanitary sewer system	There are 31 utilities in Palm Beach County.				
	Number of violations referred	0	NPDES MS4 Coordinator			
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.3 of the permit.					
	Strengths: FDOT District Four implements their proactive and/or reactive inspection program for illicit discharges and improper disposal through the Maintenance Rating Program (MRP), NPDES Inspections, and by maintaining a citizen complaint log. The log is used to track reports from both citizens and FDOT personnel of possible illicit discharges, connections and dumping. Illicit discharges, connections, and dumping's are then investigated by FDOT, with results and correction actions tracked.					
	FDOT provides IDDE and spill prevention and response training to the Operations Center employees annually. FDOT created a statewide IDDE training video and a Spill Prevention and Response training video which both can be viewed online by FDOT and Contractor personnel.					
	Limitations: None at this time.					
	SWMP Revisions implemented to address limitations: None at this time.					
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.					

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
	Report on the high-risk facilities inspection program, including the number of outfall inspections conducted and the number of enforcement referrals completed.						
	Type of Facility	Number of Facilities	Number of Inspections	Enforcement Referrals			
	Operating municipal landfills	0	0	0	High Risk Facility Report 2020.	E Sciences, Inc.	Inspections are performed per Past III.A.8.a and the FDOT-4 SOPs.
	Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities	1	0	0			
	EPCRA Title III, Section 313 facilities (TRI)	1	0	0			
	Facilities determined as high risk by the permittee through the proactive inspections per Part III.A.7.c	0	0	0			
	Facilities determined as high risk by the permittee	6					
	New High-Risk facilities added to the inventory during the current reporting period	2					
Part III.A.8.b	Industrial and High-Risk Runoff — Monitoring for High Risk Industries						
	Not Applicable to FDOT.						
Part III.A.8 Summary	For activities required by Part III.A.8: Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.						
	Strengths: FDOT District Four continues to maintain an up-to-date inventory of existing high-risk facilities discharging into the MS4 and has developed and continually implements a plan for conducting inspections of high-risk facility to determine compliance with all appropriate aspects of the stormwater program.						
	Limitations: None at this time.						
	SWMP revisions implemented to address limitations: None at this time.						
Part III.A.9.a	Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices						
	Employ FDOT DCP conditions that include the use of stormwater, erosion, and sedimentation control BMPs during construction to reduce pollutants to the MS4 and receiving waters. Report the number of permits issued.						
	Number of Discharge Connection Permits issued	34		Approved DCPs	D4 Permit Office		
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. For FDOT District Four & Florida's Turnpike Enterprise, privately-operated sites are those sites within FDOT's right-of-way that were issued a DCP.						
	PERMITTEE SITES: Active construction sites	44		FDOT-D4 Monthly Construction Progress Reports	FDOT-D4 Construction Office		
	PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	213					

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
	<p>PERMITTEE SITES: Percentage of active construction sites inspected PERMITTEE SITES: Corrective action notices Issued PRIVATE SITES: Active construction sites</p> <p>PRIVATE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs PRIVATE SITES: Percentage of active construction sites inspected</p> <p>Enforcement Action Year 1 ONLY: Attach the written construction site inspection program plan</p>	<p>99%</p> <p>0</p> <p>34</p> <p>105</p> <p>100%</p> <p>0</p> <p><input type="checkbox"/></p>	<p>Inspection Reports</p> <p>PB Ops Permits Department – Approved DCPs and DCP Inspections</p> <p>Letters on File</p>	<p>PB Ops Permits Personnel and Approved Contractors</p>	<p>In accordance with Part III.A.9.b of the NPDES permit, privately operated sites are those adjacent to FDOT's ROW that were issued a DCP.</p> <p>Per FDOT's FDEP-approved SOP, privately operated sites are only inspected if they discharge to FDOT's ROW and/or are connected to MS4.</p>
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	2	2	FDEP Sediment and Erosion Control	FDOT Construction	Construction Site

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
				Certification	Department	Inspectors receive a refresher training during pre-construction meetings.
	Permittee construction site plan reviewers		7	Sign-in Sheet	FDOT Drainage	Training conducted on March 11, 2020.
	Permittee construction site operators		24	Number of Preconstruction Meetings		Contractors are required by FDOT to have FDEP-certified inspectors. Contractor construction site operators receive a refresher training during pre-construction meetings.
Part III.A.9 Summary	For activities required by Part III.A.9: Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.					
	Strengths: FDOT District Four implements its stormwater, erosion and sedimentation inspection SOP for permittee construction sites within FDOT-4's MS4 as well as a plan for stormwater training/ outreach for FDOT personnel and contractors involved in the site plan review, inspection or construction of stormwater management, erosion and sedimentation controls. Such programs' procedures include: inspecting construction sites on a routine basis, ensuring projects draining to the Department's MS4 meet water quality treatment criteria, reporting any observed water quality violations, and requiring construction personnel to be certified through the FDEP Stormwater, Erosion and Sedimentation Control Inspector Training program.					
	Limitations: None at this time.					
	SWMP revisions implemented to address limitations: None at this time.					

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.
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)

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
	3264A	E-1 Canal	Fecal Coliform	<input checked="" type="checkbox"/> / <input type="checkbox"/>	94%	1	N/A	Year 3 AR	N/A
				<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				
	3264A	Fecal Coliform	Year 3 AR	N/A	Submitted with Year 3 Report.				
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): The BPCP was submitted with the Year 3 annual report and has not been approved by FDEP at this time. Please see Attachment 1 for additional information.								

Phase I MS4 - Cycle 4 Permit Renewal Required Information

This attachment provides the required information per Part V.B.3 and Part V.A.3 of the Phase I NPDES MS4 Cycle 4 permit for re-application in accordance with Rule 62-624.420(2), F.A.C.

1. A statement with the timely filing of the Year 4 annual report that it is to serve as the principal component for re-application (may be included in a transmittal letter or as an attachment, note in Section V of the report); include proposed revisions requested to the permittee's activities required under the existing permit. Per 62-624.420(2), F.A.C.

The Year 4 annual report is being used for reapplication purposes and is intended to serve as the principal component for reapplication of the Florida Department of Transportation District Four's (FDOT-4) Palm Beach County National Pollutant Discharge Elimination System (NPDES) Phase I MS4 permit (Permit No. FLS000018). Please see Appendix A of the Joint Annual Report, provided by Northern Palm Beach County Improvement District (NPBCID) for proposed revisions to the existing permit.

2. Current information for Section I of the Year 4 annual report, such as responsible authority or stormwater contact. Per 62-624.440(1)(a-c), F.A.C.

Please see Section I of the annual report form. The responsible authority and stormwater contact information has not changed.

3. Listing of changes in co-applicants (co-permittees) since issuance of the previous MS4 permit. Per 62-624.440(1)(d), F.A.C.

FDOT-4 is a co-permittee under the Palm Beach County permit FLS000018. At the time of this submittal, FDOT-4 is not aware of any changes in co-permittees.

4. Identification of any previously unidentified waterbodies receiving discharges from the MS4; and a summary of any known water quality impacts on the newly identified water bodies from the MS4 discharge. Per 62-624.440(1)(e,f), F.A.C.

FDOT-4 has not identified any previously unidentified waterbodies receiving stormwater discharge from FDOT-4's MS4.

5. Summary of known or estimated reductions in stormwater pollutant loads discharged from the MS4 resulting from implementation of the Stormwater Management Plan (SWMP) during the term of the most recent permit. Per 62-624.440(1)(g), F.A.C.

Below are the estimated reductions in stormwater pollutant loads discharged from the MS4 resulting from implementation of FDOT-4's SWMP during the term of the most recent permit. Per FDOT-4's Assessment Program Plan (Plan) approved by FDEP on April 9, 2019, gross pollutant loadings are calculated using the SIMPLE method and Event Mean Concentrations (EMCs) prepared by NPBCID. Structural and non-structural best management practices (BMPs) are quantified using FDEP's Statewide Best Management Practice (BMP) Efficiencies for Nonpoint Source Management of Surface Waters table and are incorporated into the calculation, resulting in the net pollutant loading as of October 2020. The table below shows the gross and net pollutant loadings for FDOT-4 in Palm Beach County for total nitrogen (TN) and total phosphorus (TP). Based on this calculation, a 21% decrease in TN and a 36% decrease in TP can be observed as a result of SWMP

implementation.

Pollutant Load for Palm Beach County	TN	TP
Gross Pollutant Loading (lbs./yr.)	169,160	22,692
Structural BMP Load Reduction (lbs./yr.)	29,947	5,339
Non-structural BMP Load Reduction (lbs./yr.) **	5,606	2,737
Total Pollutant Load Reductions	35,552	8,076
Percent Reduction	21%	36%
Net Pollutant Loading (lbs./yr.)	133,608	14,616

Estimated pollutant loadings and reductions for TN and TP in addition to Copper, Total Suspended Solids, Zinc, and Biological Organic Demand will be reported in the next Year 3 report.

6. If the total annual pollutant loadings have not decreased over the past two permit cycles, revisions to the SWMP, as appropriate. Per Permit Part V.A.3.

FDOT-4's SWMP is designed to reduce pollutants through the implementation of structural and non-structural BMPs such as street sweeping, education, litter pick up programs, training, routine inspection and maintenance, and stormwater treatment facilities. Based on the estimated 21% and 36% reduction of TN and TP, FDOT D4 believes its SWMP is effective in reducing pollutants to waters of the state.

7. Submit of a copy of the existing Florida Department of Environmental Protection (FDEP) approved Monitoring Plan as an attachment, to include permit elements Part V.B.3.a-d. Per Permit Part V.B.3. A request for revision of the Monitoring Plan requires the proposed modified plan be submitted for approval by FDEP. Each permittee should indicate the source of monitoring data for which they will rely for the upcoming permit cycle.

Please see the NPBCID Cycle 4 Year 4 Joint Report, Section 5, for the approved Monitoring Plan. No water quality monitoring program modifications are proposed with the Year 4 report. FDOT-4 will use the monitoring results provided through NPBCID's monitoring program to track trends in ambient water quality. This data shall be used in assisting with the evaluation of the effectiveness of FDOT-4's SWMP. Per FDOT-4's approved Assessment Program, pollutant loading analysis will be the primary indicator of the effectiveness of FDOT-4's SWMP.

Please see Exhibit A for a copy of FDOT-4's approved Assessment Program Plan. At this time, FDOT-4 is not proposing updates to the approved plan.

8. Submit a Total Maximum Daily Load (TMDL) Implementation Plan / Supplemental SWMP for prioritized waterbodies with a nutrient TMDL. Submit a Bacteria Pollution Control Plan (BPCP) for prioritized waterbodies with a bacteria TMDL. If a BPCP has already been submitted to FDEP and approved, then submit a brief summary of the components of the plan to be implemented in the next 5-year permit cycle. Per Permit Part VIII.B.3.d.

E-1 Canal (WBID 3264A) – Bacteria TMDL

FDOT-4 submitted a BPCP jointly with Palm Beach County (PBC) to FDEP in March 2020 with the Cycle 4 Year 3 annual report. At the time of this submittal, FDOT-4 and PBC are awaiting approval of the BPCP. Per the submitted BPCP, FDOT-4 will continue to implement the following tasks during the next 5-year permit cycle:

- **Review flood control projects for inclusion of stormwater treatment**
- **Perform regular inspections and maintenance of the stormwater drainage system**
- **Perform street sweeping activities**
- **Perform public education and outreach jointly with PBC**
- **Perform water quality monitoring jointly with PBC**

Exhibit A

**Florida Department of Transportation – District 4
Part V.B Assessment Program Plan
Palm Beach County NPDES MS4 Permit #FLS000018-004**

I. Background

The Florida Department of Transportation – District 4 (FDOT) is a co-permittee on the Palm Beach County Phase I National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit #FLS000018-004. This permit is in its Fourth Term. The Fourth Term permit was issued on September 8, 2016 by the Florida Department of Environmental Protection (FDEP), which has been delegated authority by the US Environmental Protection Agency (EPA) to implement the Clean Water Act NPDES MS4 permits in Florida.

In accordance with Part V.B.2 of the Palm Beach County NPDES MS4 permit, each co-permittee is required to develop and submit to FDEP, within 12 months of permit issuance, their plan for an Assessment Program.

FDOT submits the following Assessment Program Plan for FDEP’s consideration and approval.

II. Introduction

The purpose of the Assessment Program is to determine overall effectiveness of the permittee’s Stormwater Management Program (SWMP) in reducing stormwater pollutant loadings from their MS4.

The Assessment Program shall include:

1. A water quality monitoring plan.
2. Pollutant loadings.
3. A description of how the data from either 1 or 2 above will be used to evaluate the permittee’s SWMP’s effectiveness in reducing stormwater pollutant loadings from their MS4.

III. Water Quality Monitoring Plan

FDOT will rely on the Palm Beach County approved NPDES Water Quality Monitoring Program conducted by the co-permittees through a Joint Participation Agreement (JPA). There are a total of 43 monitoring sites in nine hydrologic basins (**Table 1**). The core monitoring is conducted at 32 ambient water quality sites in partnership with several agencies including the South Florida Water Management District (SFWMD), the Palm Beach County Department of Environmental Resources Management (ERM) and the Loxahatchee River District (LRD). In addition, data from monitoring conducted by Palm Beach County at 11 sites in a series of five lakes, known as the Chain-of-Lakes, is also included in Palm Beach County water quality assessments.

Table 1						
Water Quality Monitoring Site Locations						
Watershed	Surface Water Classification	Site Designation	Agency	Marine/ Freshwater	Northing	Easting
C-15	III (Fresh)	31E	ERM	Freshwater	760549.91	916736.89
		31C	ERM	Freshwater	760879.83	943443.02
		64 (Lake Eden)	ERM	Freshwater	784471.8	958205.48
		63 (Lake Ida)	ERM	Freshwater	780408.32	955816.19
		C15S40	SFWMD	Freshwater	760236	959269.79
C-16	III (Fresh)	22	ERM	Freshwater	828280.34	957602.68
		24	ERM	Freshwater	820399.97	957270.7
		27B	ERM	Freshwater	802276.58	916052.08
		27A	ERM	Freshwater	802545.25	942880.04
		68 (Lake Osborne)	ERM	Freshwater	829815.1	959241.37
		66 (Lake Osborne)	ERM	Freshwater	825364.28	958879.56
		65 (Lake Osborne)	ERM	Freshwater	817642.36	957294.06
		C16S41	SFWMD	Freshwater	802739.87	964316.28
C-17	III (Fresh)	12A	ERM	Freshwater	882520.57	953672.56
		C17S44	SFWMD	Freshwater	903830.19	955552.7
C-18	I (Fresh)	16	ERM	Freshwater	923477.26	902076.42
		15	ERM	Freshwater	901986.07	931378.31
C-51	III (Fresh)	38B	ERM	Freshwater	854963.27	867962.99
		37B	ERM	Freshwater	853637.29	916592.84
		57 (Stub Canal)	ERM	Freshwater	857791.27	959379.72
		70 (Pine Lake)	ERM	Freshwater	854633.78	959084.73
		52 (Stub Canal)	ERM	Freshwater	852487.66	959528.86
		62 (Lake Clarke)	ERM	Freshwater	844522.12	959176.55
		69 (Lake Clarke)	ERM	Freshwater	843444.9	958301.48
		61 (Lake Clarke)	ERM	Freshwater	836624.16	958301.41
		C51S155	SFWMD	Freshwater	841132.85	964349.43
Lox	III (Fresh)	69	LRD	Freshwater	947071.77	924822.4
	III (Marine)	30	LRD	Marine	961625.76	961625.76
		51	LRD	Marine	954939.97	948224.55
		62	LRD	Marine	949558.67	942243.82
	II	72	LRD	Marine	946223.78	954573.37
	I (Fresh)	C18G92	SFWMD	Freshwater	937389.78	924697.78
		C18S46	SFWMD	Freshwater	946198.14	935782.17
LWL-N	III (Marine)	LWL-1	ERM	Marine	913398.12	964095.22
		11	ERM	Marine	908969.28	962655.71
		13	ERM	Marine	900706.79	964049.58
		LWL-4	ERM	Marine	898346.674	970040.357
LWL-C	III (Marine)	LWL-8	ERM	Marine	856238.635	968284.926
		18C	ERM	Marine	839740.15	969747.03
		18D	ERM	Marine	835593.23	967942.19
		LWL-11	ERM	Marine	830580.53	967926.64
		LWL-13	ERM	Marine	819086.28	968516.09
LWL-S	III (Marine)	LWL-18	ERM	Marine	798402.11	965585.04

adopted from PB Co Cycle 3-Year 3 Water Quality Monitoring Program

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The water quality parameters and frequency being monitored by SFWMD, ERM and LRD are provided on **Table 2**.

Table 2 Parameter Collection Schedule					
Parameter	ERM			DISTRICT	Loxahatchee River District
	Freshwater	Marine	Chain-of Lakes		
Alkalinity*	--	--	--	M	M
Arsenic	BM	Q	--	--	--
Cadmium	BM	Q	--	--	--
Chlorophyll-a (corrected)	BM	M	BM	--	M
Copper	BM	Q	--	--	--
Dissolved Oxygen	BM	M	BM	M	M
Fecal Coliform	--	--	BM	--	M
Lead	BM	Q	--	--	--
Nitrogen, Ammonia	BM	M	BM	M	M
Nitrogen, Nitrate-Nitrite	BM	M	BM	M	M
Nitrogen, Total Kjeldahl	BM	M	BM	M	M
pH	BM	M	BM	M	M
Phosphorus, Orthophosphate	BM	M	BM	M	M
Phosphorus, Total	BM	M	BM	M	M
Salinity†	--	M	--	--	M
Specific Conductivity	BM	M	BM	M	M
Temperature	BM	M	BM	M	M
Total Hardness (as CaCO ₃)*	BM	--	--	Q	--
Total Suspended Solids*	BM	--	BM	M	M
Turbidity	BM	M	BM	M	M
Zinc*	BM	Q	--	--	--
Notes:					
1. Not all parameters are collected for every site.					
2. Loxahatchee River District Sites 62, 69, and 72, are sampled monthly. Sites 30, 69, and 51 bi-monthly.					
M = Monthly					
Q = Quarterly BM (Bi-Monthly)					
BM (Bi-Monthly)					
-- = Note Sampled					
adopted from PB Co Cycle 3-Year 3 Water Quality Monitoring Program					

FDOT has right of way and major outfalls in each of the basins; however, FDOT's ROW in each of the basins is less than five percent (**Table 3**). Therefore, due to the many sources in addition to the FDOT MS4 that may contribute pollutants to a receiving water (i.e., atmospheric deposition, groundwater, non-point sources such as septic and agricultural processes, internal loading, other permitted MS4s, and non-permitted sources), FDOT cannot rely on ambient water quality monitoring as a primary indicator of the effectiveness of the Department's SWMP in reducing pollutant loads to receiving waters. However, FDOT will continue to track the results of the Palm Beach County water quality monitoring program to evaluate trends in water quality.

Table 3			
FDOT Metrics by Basin			
Watershed Monitored by PB County	Total Watershed Acres	% FDOT ROW in Watershed	State Roads in Watershed
C-15	38,101	2%	Atlantic Ave, SR 7, I-95, SR 5
C-16	43,247	2%	Boynton Beach Blvd, Dixie Hwy, Congress Ave, I-95, SR 5
C-17	23,712	4%	Blue Heron Blvd, SR 710, Military Trail, I-95, A1A
C-18	66,498	1%	SR 710, PGA Blvd, Indiantown Rd, I-95
C-51	108,705	2%	Southern, Lake Worth Rd, Forest Hill, Okeechobee Blvd, SR 7, Military Trail, Congress Ave, SR 9, SR 5
Lox	28,105	1%	SR 710, I-95, SR 5, A1A, Indiantown Rd
LWL-N	24,357	3%	A1A, Northlake, PGA, I-95, SR 5
LWL-C	18,199	2%	Boynton Beach Blvd, Lake Ave, Forest Hill, Southern, Okeechobee Blvd, SR 5, A1A
LWL-S	9,575	4%	Glades, Yamato, Atlantic Ave, Boynton Beach Blvd, SR 5, A1A

PB County = Palm Beach County

ROW = FDOT right of way

SR = State Road

Total Watershed Acres based on 2017 GIS Watershed Basin layer received from Mock Roos

IV. Pollutant Load Analysis

FDOT will use land-use-based pollutant loading estimates to evaluate the effectiveness of their SWMP. The pollutant load analysis gives a more refined look at the FDOT system, and what FDOT is doing to reduce stormwater pollutant loadings in their MS4. The pollutant load analysis will also take into account the various structural and non-structural best management practices (BMPs) such as stormwater treatment facilities, fertilizer reduction, street sweeping, education, and illicit discharge programs implemented by FDOT.

V. Assessment Program Approach

Each year FDOT will calculate their pollutant loads and load reductions. The pollutant load reductions will be estimated based on the BMPs that have been put in place within FDOT's MS4 contributing area, and will include load reductions from both structural and non-structural BMPs.

FDOT will use the annual pollutant load estimates to evaluate trends in pollutant loading, and identify portions of the MS4 that can be targeted for loading reduction, which can include both structural and non-structural elements.

In addition to monitoring trends, FDOT will continue to assess their SWMP to identify elements and/or areas in which there are opportunities for additional pollutant loading reductions, corrective actions or better documentation.