

FLORIDA DEPARTMENT OF **Environmental Protection**

Bob Martinez Center 2600 Blair Stone Road Tallahassee, FL 32399-2400 **Ron DeSantis** Governor

Jeanette Nuñez Lt. Governor

Noah Valenstein Secretary

Sent via ePost

January 31, 2020

Subject: FDOT District Four Municipal Separate Storm Sewer System (MS4)

Cycle 4 Year 2 Audit Reports

The Department conducted the Cycle 4 Year 2 audits on December 18-19, 2019 for FDOT District Four, which covered Broward County (FLS000016) and Palm Beach County (FLS000018). The audit report is attached.

Thank you for your efforts in implementation of your stormwater management programs and for your cooperation during the audits. If you have any questions or need any assistance, please contact Sarah Ketron at (850) 245-8495, Sarah.Ketron@floridadep.gov.

Sincerely,

Michelle Bull

NPDES Stormwater Program

Michelle Bull

MB/sk/bca

FDOT District Four Cycle 4 Year 2 Audit Report **Enclosures:**

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Ivette Leiva, FDOT District Four

Ashok Raichoudhury, Broward County Thomas Crenshaw, Broward County

Alan Wertepny, Mock-Roos Patti Gertenbach, E Sciences, Inc. Rachel Vitek, E Sciences, Inc.

Jana Ash, E Sciences, Inc.



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Phase I Municipal Separate Storm Sewer System (MS4) NPDES Stormwater Audit Report

I. BACKGROUND INFORMATION

MS4 Permit Name: Palm Beach County; Broward County

Permittee: FDOT – District 4

Permit Number: Palm Beach County FLS000018-004

Broward County FLS000016-004

Annual Report Year/Reporting Period:

Palm Beach County Year 2 10/01/2017 – 09/30/2018

Broward County Year 2 01/01/2018 – 12/31/2018

Audit Date/Time: December 18, 2019 8:00 am – 12:00 pm

December 19, 2019 8:30 am – 10:00 am (Operations Center)

Inspector(s):

Name	Title	Phone/ Email
Michelle Bull	Environmental Consultant	850-245-7561
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Permittee Representative(s):

Name	Title	Phone
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Jana Ash	Project Scientist, E Sciences,	954-484-8500
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II. GENERAL COMMENTS

The purpose of the MS4 audit and DEP's increased Level of Service was discussed. The audit was conducted concurrently with the FDOT District 4 Phase II MS4 audit. The Phase II MS4 audit is captured in a separate report.

Ashok Raichoudhury with Broward County attended the audit. Broward County performs many activities on behalf of MS4 co-permittees such as proactive illicit discharge inspections, high-risk facility inspections, water quality monitoring and EMC calculations. The County has an excellent working relationship with FDOT and their contractors. They respond to audit questions and work together well.

III. SWMP IMPLEMENTATION REVIEW

Ass	Assessment Program				
\boxtimes	Satisfactory	☐ Unsatisfactory	☐ Not Applicable		
	Palm Beach County: Assessment Plan approved. Broward County: Broward Assessment Plan approved.				
Fisc	Fiscal Analysis				
Explanation of difference in spending and budget was included in the Broward and Palm Beach County annual reports.					
TMDL Prioritization					
\boxtimes	Satisfactory	☐ Unsatisfactory	☐ Not Applicable		
TMD	TMDL Prioritization Plan: Both permits prioritized Fecal Coliform TMDLs.				

Permit Number	Waterbody	WBID	Due Date
Broward County FLS000016	C-11 East Canal	3281	6/30/2020
Palm Beach County FLS000018	E-1 Canal	3264A	3/31/2020

Broward: District 4 has prioritized the C-11 East Canal and is partnering with Cooper City on implementation. The City of Davie and City of Hollywood are addressing the same WBID separately. County and FDOT staff and consultants have talked with Anita Nash in DEP's Basin Management Action Plan Program about chemical source tracing.

Discussed the Cycle 3 Fecal Coliform BPCP for 3279A FC North Fork Snake Creek in Broward County. One FDOT road, Flamingo Road, discharges into the WBID. The District performed video and visual inspection of the MS4 and found no potential sources of bacteria.

Palm Beach: District 4 is partnering with the County and is participating in the Loxahatchee River Reasonable Assurance Plan.

is contracted.

Part III.A.1: Structural Controls and Stormwater Collection Systems Operation				
\boxtimes	Satisfactory	☐ Unsatisfactory	□ Not Applicable	
Stru	Major Outfall Inventory: Reviewed outfall maps for both counties. Structural Control Inventory: Tracking of inventory and tracking of inspections are in different ways (length vs. number of segments), so the data is not comparable to calculate the percent inspected.			
Structural Control Inspections: E Sciences, Inc. performs inspections of stormwater ponds, treatment swales, exfiltration trenches, pollution control boxes and major outfalls. Inspection reports are forwarded to applicable operations centers for any needed maintenance. The applicable operations center (Ops Center) creates a work order and maintenance is performed in-house or contracted depending on the type and size of the project. The District 4 office may receive complaints from the public or other contractors which also get work orders from the Ops Center. Any work done (in-house or contracted) is entered into a Maintenance Management System (MMS). Any maintenance required due to an inspection is reported back to E Sciences, Inc. when completed, then E Sciences, Inc. performs a quality assurance (QA) inspection.				
(MR) The	Conveyances and control structures are inspected through FDOT's Maintenance Rating Program (MRP). District 4 has a crew that inspects 1/10 th of a mile daily and grades road based on five elements. The rating system is pass/fail and includes drainage, roadway, roadside, traffic services (signage) and vegetation/aesthetics. MRP crew is FDOT staff out of the District 4 office, not the Ops Center.			
	Inlets / catch basins / grates : Maintenance is reported as linear feet; and inspections are reported by structure.			
Reviewed E Sciences inspection reports and QA reports which included any follow up maintenance required. Reviewed MRP Evaluation Period reports with drainage activities linked to permit requirements.				
Par	t III.A.2: Areas of New Dev	velopment and Significant Red	evelopment	
\boxtimes	Satisfactory	☐ Unsatisfactory	□ Not Applicable	
Enf	orcement referrals: None			
Par	t III.A.3: Roadways			
\boxtimes	Satisfactory	☐ Unsatisfactory	☐ Not Applicable	
perf Acti	orm activities. All contractors a vities are tracked through MMS street sweeping. Reviewed Palr	contractors maintain I-95, US-1, A are required to have IDDE and Spill S codes; 482 and 485 for mowing, 5 m Beach County summary of expensions.	Response training. Contractors 41 for litter control, 542 and 543	

Adopt-A-Highway: Reviewed memo of data with number of groups, number bags collected, estimated miles cleaned, and estimated trash weight.

Street Sweeping: See "Litter Control" above. Contracted by Asset Maintenance and Ops Centers. Reviewed total miles swept. Information on which companies sweep which sections of roads is maintained in the contracts.

Road Maintenance Yards: The Department inspected the Treasure Coast Operations Center in Ft. Pierce. Results are listed in Phase II MS4 Audit Report.

Facility inspection reports (Palm Beach County) are very thorough and include a narrative section of each area, recommendations, images, and checklist.

Part III.A	.4: Flood Control P	rojects	
Satisf Sa	actory	☐ Unsatisfactory	□ Not Applicable
Projects: report.	One project did not inc	lude water quality treatment; an exp	lanation was provided in the annual
	5: Municipal Wast red by an NPDES St	e Treatment, Storage, and Disp tormwater Permit	oosal Facilities
⊠ Satisf	actory	☐ Unsatisfactory	□ Not Applicable
Waste Sto	rage Facilities: No fac	cilities.	
Part III.A	.6: Pesticides, Herb	icides, and Fertilizer Application	on
Satisf Sa	actory	☐ Unsatisfactory	□ Not Applicable
in both cou FDACS Fe do not appl	nties. rtilizer License: Contr y fertilizer for FDOT.	Center maintenance personnel have actor has a Limited Urban Landscap have certifications, but do not apply	pe Commercial Fertilizer license, but
	•	ges and Improper Disposal — Enforcement Measures	
☐ Satisf	actory	□ Unsatisfactory	
	~	ges and Improper Disposal — icit Discharges and/or Imprope	er Disposal
⊠ Satisf	actory	☐ Unsatisfactory	□ Not Applicable
		ons reported include E Sciences, Inc.	

Proactive Inspections: Inspections reported include E Sciences, Inc. inspections and QA, MRP (278), mowing, etc. During the reporting period, the inspection checklists did not include illicit discharge, but the most current inspection checklist includes those elements. All staff and contractors have illicit discharge training. If an illicit discharge is discovered during a maintenance event, staff are trained to report to their Ops Center. Ops centers forward reports of suspected illicit discharge to Ivette Leiva, and E Sciences, Inc. investigates the area, history, etc. to confirm the illicit discharge. E Sciences, Inc. staff will contact the construction operator, if applicable, or send a certified letter to the business owner notifying them of an illicit discharge. If the letter is not responded to appropriately, FDOT refers the violation to the appropriate city or county for handling.

Broward: Reviewed ten FDOT investigations; most were construction or dewatering-related. One unclaimed pipe has been plugged. Reviewed the Broward County proactive inspections and findings tracking sheet. Broward County issued a NOPEA (Notice of Potential Enforcement Action) for some sites but did not require enforcement to return to compliance.

FDOT does not maintain I-595 Express as it is a "Design, Build, Operate" road (in operation in 2017), where a contractor maintains the road for 30 years. I-595 has a citizen complaint system, maintenance, etc. The contractor reports to District 4, who includes in MS4 reporting. Reviewed complaints log for I-595.

Palm Beach: Did not include mowing in proactive inspection count, so it was significantly reduced the number of inspections performed. FDOT will include in future reports.

Enforcement: In Palm Beach County, one illicit discharge was forwarded to the City of West Palm Beach who administered fine(s) against a business for industrial kitchen cleaner discharge.

Training: Reviewed contractor and Ops center training sign in sheets.

Part III.A.7.d: Illicit Discharges and Improper Disposal — Spill Prevention and Response			
	☐ Unsatisfactory	☐ Not Applicable	
Spills : One-Stop Permitting replaced the PITS tracking system. Broward : Reviewed same FDOT complaint log as above, and spill tracking log by FDOT Environmental Health and Safety Officer. List may include duplicate spills, which are not included in the annual reports. Palm Beach : Reviewed list of spills with clean up actions and possible illicit connections list. Reviewed complaint tracker, which includes all calls to FDOT about roadway issues. Training : See information reported for Part III.A.7.c above.			
Part III.A.7.e: Illicit Disc Public Reporting	charges and Improper Disposa	ıl—	
☐ Satisfactory	☐ Unsatisfactory	Not Applicable ■	
	charges and Improper Disposa hold Hazardous Waste Control		
	☐ Unsatisfactory	☐ Not Applicable	
Recommendation: Update notifications issued.	the DEP web address to https://flo	ridadep.gov/water/stormwater on	

	t III.A.7.g: Illicit Discha nitation of Sanitary Sew	_		osal —
\boxtimes	Satisfactory		Unsatisfactory	☐ Not Applicable
Bro Rev take MS- imp	iewed Broward County Emen include corrective actions	ergency to clean has not c County.	Notification tracking MS4 if needed. Spil discovered any SSOs	Broward County that cross FDOT roads. g list of all SSOs within the County. Actions lls that had the potential to impact FDOT s. They are generally notified of spills that connections list.
	rt III.A.8.a: Industrial a ntification of Priorities			ctions
\boxtimes	Satisfactory		Unsatisfactory	☐ Not Applicable
they Bro ann any Pale 4. The for j	whad a spill within 2 years. ward County inspection critually or every two years, banneed to sample or perform m Beach: All HRFs were in the interior of the sample or perform the same of the same o	The High eria ever sed on Senforcen expected vater por is area as	h-Risk Facility (HRF in if they are no longer mall Quantity Gener ment at these HRFs. in 2015. E Sciences, and by the airport that	sich includes facilities that are on the TRI if it list also includes facilities as part of other er on the TRI list. Some HRFs are inspected ator (SQG) guidance. Broward hasn't found Inc. will be refreshing the HRF list for Cycle is often broken into by staff that use the area if the potential for vehicles to leak chemicals
	t III.A.8.b: Industrial a nitoring for High Risk l	U		
\boxtimes	Satisfactory		Unsatisfactory	☐ Not Applicable
Моі	nitoring: See above.			
	t III.A.9.a: Construction Planning and Non-Struction			est Management Practices
\boxtimes	Satisfactory		Unsatisfactory	☐ Not Applicable
Peri Dep prac noti	mits Department through On partment to confirm no offsictices to protect the MS4 du	ne-Stop I te stormv ring cons have a lis	Permitting. Permits a water discharge to the struction. Ops Center st of projects at the a	omitted to and reviewed by Ops Center re also reviewed by the District's Drainage e FDOT MS4, and best management rs send out final permit packages with the udit because it is maintained by Ops Centers;

IV.

Part III.A.9.b: Construction Site Runoff— Inspection and Enforcement			
⊠ Satisfactory	☐ Unsatisfactory	☐ Not Applicable	
Inspections: FDOT Sites: Reviewed list of active FDOT projects, which includes large projects such as I-95 interchanges and pushbutton contracts: smaller, capped projects that may cover a wide area. Reviewed Monthly progress reports for FDOT projects. District Construction Environmental Coordinators perform inspections. Reviewed a blank inspection checklist for FDOT sites. After the audit, staff provided a completed inspection report. Private sites: All active private construction sites are DCP-issued sites.			
Part III.A.9.c: Constru Site Operator Training			
	☐ Unsatisfactory	☐ Not Applicable	
Discussed reporting of staff training. After the audit, staff submitted a revised annual report with corrected training numbers. Inspector E&SC Training: Broward: Some staff have existing FDEP Erosion and Sediment Control Training and some staff were new and received training during the reporting year. Existing staff attended refresher training. Palm Beach: All inspectors have FDEP Erosion and Sediment Control Training and received annual training. Site Plan Reviewer Training: Broward: All site plan reviewers have FDEP Erosion and Sediment Control Training. While refresher training was performed, it was not tracked. Staff will report training in Year 3. Palm Beach: The revised annual report lists the number of reviewers that received annual training. Site Operator Training: For both counties, the revised annual reports list the number of operators that received annual training through pre-construction meetings.			
SITE VISITS			
	☐ Unsatisfactory	☐ Not Applicable	
and Sarah Ketron sent an e	email with eight required improvemen	Ft. Pierce was inspected on December 19, its on January 2, 2020. Required hase II MS4 Audit Report for details and	