

October 15, 2013

Mr. Edward C. Smith  
Program Administrator  
NPDES Stormwater Program  
Florida Department of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

Subject: Palm Beach County NPDES Permit No. FLS00018 (Cycle 3)  
Year 2 Annual Report Comments/Responses  
Town of Palm Beach

Dear Mr. Smith:

The Florida Department of Environmental Protection requested the following additional information from the Town of Palm Beach concerning its MS4 NPDES Permit Year 2 Annual Report.

**Part II.F**

**Stormwater Management Program Resources**

Part II.F. of the MS4 permit requires each permittee to report the SWMP budget in the Annual Report. If program resources have been decreased from the previous year, a discussion of the impacts on the implementation of the SWMP shall be provided. Each permittee shall also have a source of funding for implementing all the other requirements included within this permit.

The following co-permittees did not report a fiscal analysis in Section III.A and B of the annual report:

Town of South Palm Beach

The following co-permittees did not provide a discussion on the impacts of resource decreases to the implementation of the SWMP:

City of Belle Glade  
City of Greenacres  
Town of Juno Beach  
Village of North Palm Beach  
City of Pahokee  
Village of Royal Palm Beach  
City of Boynton Beach  
Town of Cloud Lake  
**Town of Palm Beach**

**Recommendation:** Provide fiscal analysis and discussion on the impacts of resource decreases to the implementation of the SWMP.

**Town of Palm Beach response:**

**Expenditures attributed to the MS4 program show a decrease of \$53,000 from the 3<sup>rd</sup> Cycle 1<sup>st</sup> Year to the 3<sup>rd</sup> Cycle 2<sup>nd</sup> Year. The majority of the decrease is attributed to a reduction in employee pension benefits between the two reporting periods. The number of full time equivalent employees increased during the same period from 5.78 to 6.03. No reduction in services were experienced during the reporting period.**

### Employee Benefits Expenditure Summary

	FY2011 Actual	FY2012 Budget	FY2012 Adjusted*	FY2012 Projected	% Change
Employee Benefits	161,451	119,070	119,070	119,070	-26

Department 50 Public Works  
Program 531 Storm Sewer Maintenance

Full Time Equivalent Employees	FY2011	FY2012
Building Maintenance Worker	0.020	0.020
Electrician II	0.420	0.420
Electrician Supervisor	0.100	0.100
Equipment Operator I/WRD	0.250	0.250
Equipment Operator II/WRD	0.250	0.250
Irrigation and Spray Technician	0.010	0.010
Laborer II/WRD	-	-
Mechanic I/WRD	1.500	1.500
Mechanic II/WRD	0.380	0.380
Operations Supervisor	0.380	0.380
Parks Laborer	-	-
Parks Supervisor I	-	-
Tree Trimmer	0.040	0.040
Wastewater Operator I/WRD	1.750	2.000

Wastewater Operator II/WRD	0.380	0.380
Wastewater Technician I	-	-
WRD Manager	0.300	0.300
	5.780	6.030

## Part III.A.6

### Florida-friendly Fertilizer Ordinance

Part III.A.6. of the MS4 permit requires that if a Florida-Friendly Landscaping Ordinance is not adopted, all local governments within the watershed of a nutrient-impaired water body shall adopt the Department's Model Ordinance for Florida-Friendly Fertilizer Use on Urban Landscapes or an ordinance that includes all of the requirements set forth in the Model Ordinance. The ordinance is required to be adopted within 24 months of permit issuance.

The following co-permittees have not provided a complete adopted Florida-Friendly Fertilizer Ordinance or Landscape Ordinance with all the elements of a fertilizer ordinance

City of Atlantis:	
City of Belle Glade:	Reported not adopted; not attached.
City of Boca Raton:	Reported not adopted.
City of Boynton Beach:	Landscape Ordinance does not contain all fertilizer ordinance elements.
Town of Cloud Lake:	Reported not adopted; not attached.
City of Delray Beach:	Landscape Ordinance does not contain all fertilizer ordinance elements.
Town of Juno Beach:	Reported N/A; no justification indicated in Part III.A.6.
Town of Jupiter:	Reported not adopted.
Town of Jupiter Inlet Colony:	Reported not adopted; not attached.
Town of Lake Clarke Shores:	Reported N/A; no justification indicated in Part III.A.6.
City of Lake Worth:	Reported not adopted.
Town of Lantana:	Reported not adopted.
Village of North Palm Beach:	Reported not adopted.
City of Pahokee:	Reported N/A; no justification indicated in Part III.A.6.
<b>Town of Palm Beach:</b>	<b>Reported N/A; no justification indicated in Part III.A.6.</b>
Town of Palm Beach Shores:	Reported N/A; no justification indicated in Part III.A.6.
City of Riviera Beach:	Reported N/A; no justification indicated in Part III.A.6.
City of South Bay:	Reported N/A; no justification indicated in Part III.A.6.

Village of Tequesta:

Landscape Ordinance does not contain all fertilizer ordinance elements.

City of West Palm Beach:

Adopted ordinance does not contain all fertilizer ordinance elements.

If MS4 reported N/A, provide justification that no ordinance is required.

- If an ordinance was not submitted with the Annual Report, submit an ordinance for review and approval.
- If an ordinance has not been adopted, submit a schedule for adopting the ordinance.

**Town of Palm Beach response:**

**Stormwater discharges from the Town of Palm Beach MS4 discharge directly to the Lake Worth Lagoon. The Lake Worth Lagoon is not a nutrient impaired water body and therefore adoption of the Florida Friendly Fertilizer Ordinance is not required.**

**Part III.A.3**

**Street Sweeping Program for TN and TP Reduction**

Part III.A.3. of the MS4 Permit requires co-permittees to use the Florida Stormwater Association (FSA) MS4 Load Reduction Tool to calculate the total nitrogen (TN) and total phosphorus (TP) load reductions of street sweeping. A permittee may also use results from a similar study if it is approved by the Department prior to doing the load calculations.

The following co-permittees did not use the Department-approved FSA Load Reduction Tool:

City of Atlantis

City of Delray Beach

City of Lake Worth

Town of Lantana

Village of North Palm Beach

Town of Ocean Ridge

**Town of Palm Beach**

City of Palm Beach Gardens

Town of Palm Beach Shores

Village of Royal Palm Beach

Village of Tequesta

Village of Wellington

City of West Palm Beach

Palm Beach County

**Recommendation:** Calculate load reductions of Total Nitrogen and Total Phosphorus with the FSA Load Calculator, using pounds of dry solids or volume collected. Record TN and TP values in appropriate rows on the annual report. The calculator may be found at the following link:

<http://www.florida-stormwater.org/assets/FSAEF/Research/MS4/final%20ms4%20load%20reduction%20tool%20version%201%202%20corrected.xlsx>

**Town of Palm Beach response:**

See Load Reduction Calculations attached:

If you have any further questions, please contact me at (561) 227 7040.

Martin Gauthier, P.E.

Town of Palm Beach

Department of Public Works

Copies: Alan D. Wertepny, Mock, Roos & Associates, Inc.

# Enter Volume of Solids<sup>(1)</sup> Removed - Calculate Equivalent Dry Weight

FSA 2012

Category of Maintenance Activity	For Wet or Dry Solids by Volume <sup>(2)</sup>			Calculated Equivalent Dry Weight Collected (Kilograms)
	Enter Volume of Collected Solids Cubic Feet	Enter Dry Bulk Density Solids Lb/C.F.	Calculated Weight of Dry Solids (Pounds)	
Street Sweepings	13,176	85	1,118,642	507,416
Catch Basin Cleanout	0	85	0	0
BMP Cleanout	0	85	0	0

### GREEN Denotes Cells for DATA ENTRY  
### BLUE Denotes Calculation Results

## NOTES:

1. "Particulate Matter" from the FSA Final Report is defined as "Solids" for use in this spreadsheet.
2. For measurements of volume, include approximate dry bulk density; use the default bulk density of 1.36 or 84.9 pounds per cubic foot until confirmed by sampling.

# Calculated Nutrient Load Reductions from MS4 Maintenance Practices

FSA 2012

## TOTAL PHOSPHORUS

	Input and Output	Subtotal TP Removed (Kilograms)	Subtotal TP Removed (Pounds)
Street Sweepings - Dry Mass Collected (Kg)	507,416	183	404
Amount of TP Removed (Kilograms)	183		
Catch Basins - Dry Mass Collected	0	0	0
Amount of TP Removed (Kilograms)	0		
BMP - Dry Mass Collected	0	0	0
Amount of TP Removed (Kilograms)	0		
GRAND TOTAL TP REMOVED (KILOGRAMS) =		183	
GRAND TOTAL TP REMOVED (POUNDS) =			404

## TOTAL NITROGEN

	Input and Output	Subtotal TN Removed (Kilograms)	Subtotal TN Removed (Pounds)
Street Sweepings - Dry Mass Collected (Kg)	507,416	286	630
Amount of TN Removed (Kilograms)	286		
Catch Basins - Dry Mass Collected	0	0	0
Amount of TN Removed (Kilograms)	0		
BMP - Dry Mass Collected	0	0	0
Amount of TN Removed (Kilograms)	0		
GRAND TOTAL TN REMOVED (KILOGRAMS) =		286	
GRAND TOTAL TN REMOVED (POUNDS) =			630