



# FLORIDA DEPARTMENT OF Environmental Protection

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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  
**Permittee:** City of Boynton Beach  
**Permit Number:** FLS000018 (Cycle 4)  
**Annual Report Year:** Year 1  
**Reporting Period:** 10/01/2016 – 09/30/2017  
**Audit Date/Time:** June 8, 2018 8:00 am – 12:00 pm

#### Inspector(s):

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#### Permittee Representative(s):

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### II. GENERAL COMMENTS

The City has a population of 77,000 and provide water and sewer to a wider service area.

The City Boynton Beach was voted #5 Sustainable City: they encourage green development, are business-friendly, have electric vehicle charging, developed a climate action plan, and performed a greenhouse gas evaluation to reduce utility usage in addition to other sustainable activities.

### III. SITE VISITS

Satisfactory                       Unsatisfactory                       Not Applicable

**Site Type:** Maintenance Yard

**Site Name and Location:** Public Works Maintenance Yard

**Applicable Permit Provision(s):** Part III.A.3

**Observations:** Yard has multiple shops and bays, vehicle and equipment storage, above-ground storage tanks, waste chemical storage, and a vehicle/equipment wash.

Arsenio performs annual inspections of the site for stormwater protection in conjunction with the industrial pretreatment program inspections. The inspection was very thorough and covered the entire yard and storm drains, and inside the maintenance shops. He also looked for staining and chemical spills throughout the site. Arsenio talked with the maintenance staff to discuss spill response, MSDS sheets, and safety procedures.

All equipment and chemicals appeared to be stored correctly. There was very little debris around yard or perimeter. The storm drains drain to exfiltration onsite, and yards slope towards drains. No contaminants were noted in the catch basins. A malfunctioning trash truck was parked in the wash rack so that runoff from the truck would enter the car wash, oil/water separator and discharge to the sanitary sewer system.

Recommend periodically sweeping the yard to prevent sediments from entering the storm drains.

### IV. SWMP IMPLEMENTATION REVIEW

#### Monitoring Program

Satisfactory                       Unsatisfactory                       Not Applicable

The Assessment Plan submitted was approved.

#### Fiscal Analysis

Not reviewed during audit.

#### TMDL Prioritization

Satisfactory                       Unsatisfactory                       Not Applicable

Waterbody	WBID	TMDL	Report	Due Date
Lake Ida	3262A	TN/TP	Monitoring and Assessment Plan	

#### Part III.A.1: Structural Controls and Stormwater Collection Systems Operation

Satisfactory                       Unsatisfactory                       Not Applicable

**Major Outfall Inventory:** The city is in the process of inputting existing outfall information into GIS. The city has many outfalls into private lakes currently listed on the outfall map. Only reporting discharges into Waters of the State canals. Added 5 outfalls to inventory after reporting period. Have new projects that may add new MS4 outfalls. One was determined to be less than 36". Inventory is 7 major outfalls.

**Structural Control Inspections:**

**Major Outfalls:** Previously inspecting major outfalls quarterly (or monthly). Discussed the minimum inspection frequency of annually. Performing outfalls with monthly stormwater pond inspections.

**Dry Detention / Wet Detention / Dry Retention:** Reviewed monthly inspection reports with images. Checklist includes outfall structure and catch basin if associated. Ponds are inspected more frequently for maintenance and citizen needs, including mowing, litter and weed removal, irrigation, and fertilization.  
**Pump stations:** 3 inspected monthly by wastewater lift station staff. Reviewed inspection checklists.  
**Catch basins:** Annual schedule to inspect neighborhoods (twice in high litter areas, like Cherry Hill). Monthly neighborhood cleaning includes catch basins and pipes. Performing inspections and vac cleaning simultaneously. Litter control on catch basins grates and in basins. Some undeveloped areas cause more sediment in system. The Stormwater Program has 2 vac trucks. Debris goes to SWA transfer station.  
**Pollution Control Boxes:** Inventory will likely increase during GIS project. Inspected quarterly and tracked separately.

### Part III.A.2: Areas of New Development and Significant Redevelopment

Satisfactory                       Unsatisfactory                       Not Applicable

**New/Redevelopment Projects:** The City's Land Development handbook requires to applicants to store the first 1 inch of rain (or 2.5 % impervious), same as SFWMD, includes pre- vs post runoff. Reviewed list of projects, most required ERP, Aldi need 10-2 certification.  
CRA: redevelopment in Cherry Hill building homes with Habitat for Humanity, streetscaping, etc.

### Part III.A.3: Roadways

Satisfactory                       Unsatisfactory                       Not Applicable

**Litter Control:** 2 contractors for litter control, estimated amount collected based on bags collected.  
**Street Sweeping:** Public Works performs sweeping with 1 truck. The truck is run daily (Monday through Friday), to sweep the entire City weekly. The route targets specific main roads and their arterial roads. Using odometer to track mileage, which includes transport of debris to transfer station. Many of the main roads swept are FDOT or County roads.  
**Road Maintenance Yards:** Public Works fleet maintenance: equipment and vehicle maintenance, parking, vehicle wash. East Water Treatment Plant (WTP): fleet parking, material stock piles. Site has exfiltration and dry detention. Viewed from building. West WTP: no road maintenance activities.

### Part III.A.4: Flood Control Projects

Satisfactory                       Unsatisfactory                       Not Applicable

CIP projects: Installing positive outfalls on North and South streets. Adding 1,700 linear feet of exfiltration, and 2,200 linear feet swales to prevent flooding in a neighborhood on 20<sup>th</sup> St.

### Part III.A.5: Municipal Waste Treatment, Storage, and Disposal Facilities

#### Not Covered by an NPDES Stormwater Permit

Satisfactory                       Unsatisfactory                       Not Applicable

**Waste Storage Facilities:** Public Works complex: waste truck parking if transfer station is closed.

### Part III.A.6: Pesticides, Herbicides, and Fertilizer Application

Satisfactory                       Unsatisfactory                       Not Applicable

**FDACS License:** Reviewed Phoenix license for fertilizer use. Enviroscapes Plus for pesticide license. Dwight-cemetery, parks, around stormwater ponds.  
**GIBMP Certification:** Using reclaimed water for irrigation, so no longer applying fertilizer.

Recommend updating SOP to include the list of parks and City property where pesticides/herbicides or fertilizer is applied.

**Fertilizer Ordinance:** It appears that in Cycle 3, the City submitted a Florida-Friendly Landscape Ordinance. The landscape ordinance does not include the elements of the Fertilizer Ordinance.

<https://fyn.ifas.ufl.edu/pdf/ffl-mo-ccr-1-09.pdf>

Florida Statutes requires that a county or municipal government located within the watershed of a nutrient-impaired water body shall, at a minimum, adopt the department's Model Ordinance for Florida-Friendly Fertilizer Use on Urban Landscapes.

**Required Improvements:** **Within 30 days of the audit report**, submit a plan for adopting the Florida-Friendly Fertilizer model ordinance.

**Section 403.9337, F.S. - Model Ordinance for Florida-Friendly Fertilizer Use on Urban Landscapes**

(1) All county and municipal governments are encouraged to adopt and enforce the Model Ordinance for Florida-Friendly Fertilizer Use on Urban Landscapes or an equivalent requirement as a mechanism for protecting local surface and groundwater quality.

(2) Each county and municipal government located within the watershed of a water body or water segment that is listed as impaired by nutrients pursuant to s. 403.067, shall, at a minimum, adopt the department's Model Ordinance for Florida-Friendly Fertilizer Use on Urban Landscapes.

(3) Any county or municipal government that adopted its own fertilizer use ordinance before January 1, 2009, is exempt from this section. Ordinances adopted or amended on or after January 1, 2009, must substantively conform to the most recent version of the model fertilizer ordinance and are subject to subsections (1) and (2), as applicable.

**Part III.A.7.a: Illicit Discharges and Improper Disposal —  
Inspections, Ordinances, and Enforcement Measures**

Satisfactory

Unsatisfactory

Not Applicable

Not reviewed during audit.

**Part III.A.7.c: Illicit Discharges and Improper Disposal —  
Investigation of Suspected Illicit Discharges and/or Improper Disposal**

Satisfactory

Unsatisfactory

Not Applicable

**SOP:** Recommend updating SOP to include pretreatment facility inspections. If changes are made, send SOP to DEP for review and approval.

**Proactive Inspections:** Proactive inspections done catch basins and stormwater systems. Reviewed catch basin inspections, which includes illicit discharge.

Arsenio also performs inspections for grease traps, SQGs, and industrial pretreatment: 217 inspected: printers, auto repair, salvage, pool supply, medical, vehicle painting, tires, seafood, golf courses, fertilizer, Reviewed inspection report of golf course with stormwater pipe into canal with no treatment, causing sediments and possible runoff into the canal. Facility filled in pipe.

**Reactive Inspections:** One complaint of paint in a storm drain. Reviewed report from Arsenio, who forwarded to code enforcement. Recommend maintaining copies of code enforcement completion.

**Training:** Stormwater staff have had the illicit discharge training.

**Part III.A.7.d: Illicit Discharges and Improper Disposal —  
Spill Prevention and Response**

Satisfactory                       Unsatisfactory                       Not Applicable

**Spills:** reviewed list from fire department: 11 flammable liquid spills, 2 combustibile liquid spills

**Part III.A.7.e: Illicit Discharges and Improper Disposal —  
Public Reporting**

Satisfactory                       Unsatisfactory                       Not Applicable

**Public Education:** reviewed Flood Hazard Info brochure (for CRS), which includes illicit discharge. Annual Water Quality report includes Stormwater Management section, distribute swale education in neighborhoods with swale projects.

**Part III.A.7.f: Illicit Discharges and Improper Disposal —  
Oils, Toxics, and Household Hazardous Waste Control**

Satisfactory                       Unsatisfactory                       Not Applicable

**Solid Waste department:** Handled by Solid Waste Authority.

**Public Education:** See above for public education.

**Part III.A.7.g: Illicit Discharges and Improper Disposal —  
Limitation of Sanitary Sewer Seepage**

Satisfactory                       Unsatisfactory                       Not Applicable

City owns the collection system. Wastewater Operations Division provides activities: lined gravity pipes, rehabbed Master pump station 309, spills, and I&I repaired.

**Part III.A.8.a: Industrial and High-Risk Runoff —  
Identification of Priorities and Procedures for Inspections**

Satisfactory                       Unsatisfactory                       Not Applicable

**Inspections:** Reviewed inspection checklists for WTP, Fleet maintenance, Bethesda, and Safety Kleen.

**Part III.A.8.b: Industrial and High-Risk Runoff —  
Monitoring for High Risk Industries**

Satisfactory                       Unsatisfactory                       Not Applicable

**Monitoring:** See above.

**Part III.A.9.a: Construction Site Runoff —  
Site Planning and Non-Structural and Structural Best Management Practices**

Satisfactory                       Unsatisfactory                       Not Applicable

**Site Plan Review:** See Part III.A.2.

**ERP/CGP Coverage:** Confirming ERP or self-cert during review process. Notify of CGP. Discussed ways to confirm coverage under the CGP, for sites that disturb one acre or more or larger common plan of development. After the audit, staff submitted the process for confirmation of CGP.

**Part III.A.9.b: Construction Site Runoff —  
Inspection and Enforcement**

- Satisfactory                       Unsatisfactory                       Not Applicable

**Inspections:** Engineering and Utility staff perform ESC inspections and can report issues onsite, and inspectors have compliance capabilities.

In-house CIP projects: issues are reported to project manager. May get inspected daily if lots of issues.

**Part III.A.9.c: Construction Site Runoff —  
Site Operator Training**

- Satisfactory                       Unsatisfactory                       Not Applicable

**Inspector E&SC Training:** Did not report DEP cert, however most stormwater staff and all Engineering and Utility inspectors have DEP certification.

**Site Plan Reviewer Training:** Done by Engineering staff with annual refresher training. All stormwater and engineering staff will be viewing Steering Committee videos/presentation.

**Site Operator Training:** The City provided records of pre-construction meetings where erosion and sediment control is discussed with operators, and will begin tracking immediately.