

City of Greenacres

MS4 Permit No. FLS000018-004
Part V. Monitoring Requirements
Sub Part A. Assessment Plan

Assessment Program Objective

The purpose of this assessment program is to provide information for the City of Greenacres to determine the overall effectiveness of its Stormwater Management Program (SWMP) in reducing stormwater pollutant loadings from its Municipal Separate Storm Sewer System (MS4) to receiving water bodies.

Assessment Program Components

As required by the MS4 Permit, the following parts make up this Assessment Program:

- A. A Water Quality Monitoring Plan – The water quality-monitoring plan is intended to identify local sources where urban stormwater is adversely affecting surface water resources
- B. A Pollutant Loading Estimate Plan – The pollutant loading exercise is to estimate the Pollutant Loading from the MS4 contributing area, based on land uses and BMPs
- C. An Evaluation and Response Plan – The response plan is the plan of action to be taken based on the results from A. and B. and will be used to:
 - 1. Evaluate trends in pollutants loading from the MS4
 - 2. Evaluate trends in water quality (of discharge from the MS4)
 - 3. Identify portions of the MS4 to be targeted for loading reduction/corrective action

Part A – Water Quality Monitoring Plan

As a co-permittee, the City of Greenacres uses the ambient water quality data obtained through the Palm Beach County NPDES program, where the Northern Palm Beach County Improvement District is the Lead Permittee.

Monitoring Locations

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

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

Sampling Method

Information on the sampling, frequency and monitoring parameters is contained in the group Joint Annual Report (refer to www.pbc-npdes.org under Annual Reporting).

Monitoring Parameters

The City of Greenacres will review the water quality data in the C-51 East Basin to identify notable nutrient water quality and perform an assessment comparison with applicable water quality standards.

Part B – Water Quality Monitoring Plan

The Palm Beach County MS4 permittee group will be developing pollutant loading estimates during the 3rd year of this permit cycle, using the SIMPLE protocol. In order to provide each permittee with pollutant loading estimates that reflect their respective MS4 areas, the group effort will provide the loading estimates “by MS4,” in addition to “by watershed” (as was done in past permit cycles). During Year 3, the City of Greenacres participated in this effort by reviewing its MS4 contributing areas and providing updated information on its boundary, septic areas and the land uses located therein. Any stormwater quality best management practices (BMPs) that are in place within the MS4 area, were identified, along with their geospatial extent. The group’s estimated pollutant loading results will be provided to each permittee for use in this assessment effort. To determine a practical estimate of the current pollutant loading, the City of Greenacres will use the land use based pollutant loading estimates provided by the group as the starting point from which pollutant load reductions will be subtracted.

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

Part C – Evaluation and Response Plan

Once the Assessment Program is approved by FDEP, presumably sometime during Year 2 of the permit cycle, the City of Greenacres will utilize data based on the sample results performed by Palm Beach County Department of Environmental Resource Management and South Florida Water Management District as compiled in the Joint Annual Reports. The first annual report on the Assessment Program will be concurrent with the Year 3 Annual Report Form (March 2020).

Water quality monitoring results will be available annually and the most recent year’s data will be

compared to that which came before, with respect to our MS4 C-51 sampling points. A summary of the water quality trends/graphs, with respect to our MS4 and the group's monitoring stations will be developed and evaluated and included in the City's Annual Assessment Report. The pollutant loading estimates developed during Year 3 of the permit cycle will be reviewed and adjusted based on the City's Stormwater Management Programs (litter control, public education, Fertilizer Ordinance etc.) as appropriate. Based on the two assessments, a determination of the effectiveness of the of the City's program and whether there is a need to implement additional pollutant reduction measures will be made.

