

CITY OF ATLANTIS
MS4 Permit No. FLS000018-004
Part V. – Monitoring Requirements; Sub-part A.
Assessment Program

Assessment Program Objective

The purpose of this assessment program is to provide information for the City of Atlantis 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 City of Atlantis is relying on the group data.
- B. **A Pollutant Loading Estimate Plan** – The City of Atlantis MS4 is mostly highly maintained single family residential. There are also 2 golf courses (18 and 27 holes) that total 330 acres (does not include the major Lakes) of land or about 37% of the City's area. In addition there is some minor commercial and JFK Hospital with multiple surrounding medical offices. LWDD has canals just south of the City, through the center of the City, and on the north boundary of the City. There are 8 NPDES outfalls, however only 3 of these are the City's. The City's main outfall from its lakes is operated by the public golf course. The 3 City NPDES outfalls discharge stormwater from single family residential areas. The other outfalls are private, but some of these accept City stormwater and some of the private systems flow into the City system and then are discharged through the private systems. There are also private systems that discharge directly to LWDD. As separating out the City contributions to the interconnected stormwater management systems is impractical, the City of Atlantis will rely on the Group Report and data.
- 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
 - Group Report to date does not indicate any areas need to be targeted.

Part A – Water Quality Monitoring Plan

The City of Atlantis will rely on the Group Report.

Monitoring Locations

The City of Atlantis will rely on the Group Report. The group has 4 locations applicable; 2 upstream and 2 downstream of Atlantis. The upstream locations are identified as 22 and 27A and the downstream locations are 24 and 28 in the group annual report. Atlantis may also look at the C-16 Basin and/or the adjacent Lake Worth Lagoon locations should these cited locations prove to be indeterminate or have insufficient data.

Sampling Method

Not Applicable.

Monitoring Parameters

See Group Report

Part B – Pollutant Loading Estimate Plan

The City of Atlantis will rely on the Group Report. The 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). Prior to Year 3, Atlantis has participated in this effort by updating its MS4 contributing areas to the receiving water, and will provide updated information on the area extents and the land uses located therein if needed. In addition, any water quality best management practices (BMPs) will be updated as applicable.

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 or BMPs are put in place, the estimated pollutant loading will reflect the reductions.

Part C – Evaluation and Response Plan

The City of Atlantis will review the sites cited above, i.e. at least sites 22, 24, 27A, and 28 will be reviewed upstream to downstream to see if trends exist. As stated above Atlantis may also look at the C-16 Basin and/or the adjacent Lake Worth Lagoon locations should these cited locations prove to be indeterminate or have insufficient data.