

## MEMORANDUM

Agenda Item No. 7(H)

---

**TO:** Honorable Chairwoman Rebeca Sosa  
and Members, Board of County Commissioners

**DATE:** December 17, 2013


(Public Hearing 3-4-14)

**FROM:** R. A. Cuevas, Jr.  
County Attorney

**SUBJECT:** Ordinance amending Section  
24-42.2 of the Code relating to  
sanitary sewer collection and  
transmission systems to provide  
electronic sanitary sewer atlas  
Ordinance No. 14-29

---

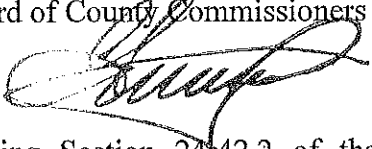
The accompanying ordinance was prepared by the Regulatory and Economic Resources Department and placed on the agenda at the request of Prime Sponsor Commissioner Juan C. Zapata.

  
\_\_\_\_\_  
R. A. Cuevas, Jr.  
County Attorney

RAC/jls

**Date:** March 4, 2014

**To:** Honorable Chairwoman Rebeca Sosa  
and Members, Board of County Commissioners

**From:** Carlos A. Gimenez   
Mayor

**Subject:** Ordinance Amending Section 24-42.2 of the Code of Miami-Dade County, Florida, Relating to Sanitary Sewer System Collection and Transmission Systems; Providing for an Electronic Sanitary Sewer Atlas With Annual Updates, Collection and Transmission System Model Updates, and Annual Spare Parts Inventory Updates

---

## Recommendation

It is recommended that the Board of County Commissioners (Board) approve the attached ordinance amending Section 24-42.2 of the Code of Miami-Dade County (Code), relating to sanitary sewer system collection and transmission systems, providing for an electronic sanitary sewer atlas with annual updates, collection and transmission model updates, and annual spare parts inventory updates.

## Scope

The proposed ordinance involves environmental regulation countywide.

## Fiscal Impact/Funding Source

This ordinance will have no fiscal impact on Miami-Dade County beyond that provided in Resolution No. R-393-13 which authorized execution of the Consent Decree whereby Miami-Dade County will conduct improvements to the County's sanitary sewer system over a 15-year period.

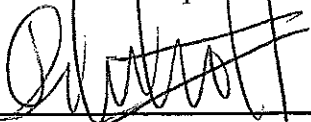
## Track Record / Monitor

The Assistant Director of the Department of Regulatory and Economic Resources, Division of Environmental Resources Management, Lee Hefty, will implement the provisions of this ordinance.

## Background

On May 21, 2013, the Board approved Resolution No. R-393-13 which authorized the execution of the Consent Decree between Miami-Dade County, the United States of America, the State of Florida, and the Florida Department of Environmental Protection in order to comply with the Federal Clean Water Act and federal and state laws, regulations and permits, with the goal of eliminating sanitary sewer overflows and prohibited bypasses.

The Consent Decree requires modifications to Chapter 24 of the Code and this ordinance addresses Paragraph 18(e)(ii) of the Consent Decree, which requires changes to the Volume Sewer Customer Ordinance within four (4) months of the December 6, 2013 effective date of the new Consent Decree. The proposed ordinance complies with the required change by (1) providing for the electronic formatting of the sanitary sewer atlas, (2) setting timeframes for updating computerized collection and transmission system model or models, and (3) establishing a timeframe for updating an inventory of spare parts or suppliers and vendors necessary to prevent sustained sewage spills, overflows and surcharge conditions resulting from equipment malfunction or deterioration. Under the proposed ordinance, these provisions of the Consent Decree require the municipal utilities to comply with the same standards as the Water & Sewer Department. Coordination meetings with the municipal utilities were conducted prior to the development of the proposed ordinance.

  
\_\_\_\_\_  
Jack Osterholt, Deputy Mayor



**MEMORANDUM**  
(Revised)

**TO:** Honorable Chairwoman Rebeca Sosa  
and Members, Board of County Commissioners

**DATE:** March 4, 2014

**FROM:** R. A. Cuevas, Jr.  
County Attorney

**SUBJECT:** Agenda Item No. 7(H)

Please note any items checked.

**“3-Day Rule” for committees applicable if raised**

**6 weeks required between first reading and public hearing**

**4 weeks notification to municipal officials required prior to public hearing**

**Decreases revenues or increases expenditures without balancing budget**

**Budget required**

**Statement of fiscal impact required**

**Ordinance creating a new board requires detailed County Mayor’s report for public hearing**

**No committee review**

**Applicable legislation requires more than a majority vote (i.e., 2/3’s \_\_\_\_, 3/5’s \_\_\_\_, unanimous \_\_\_\_ ) to approve**

**Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required**

Approved \_\_\_\_\_ Mayor

Agenda Item No. 7(H)  
3-4-14

Veto \_\_\_\_\_

Override \_\_\_\_\_

ORDINANCE NO. 14-29

ORDINANCE AMENDING SECTION 24-42.2 OF THE CODE OF MIAMI-DADE COUNTY, FLORIDA RELATING TO SANITARY SEWER COLLECTION AND TRANSMISSION SYSTEMS TO PROVIDE AN ELECTRONIC SANITARY SEWER ATLAS WITH ANNUAL UPDATES, COLLECTION AND TRANSMISSION SYSTEM MODEL UPDATES AND ANNUAL SPARE PARTS INVENTORY UPDATES; PROVIDING SEVERABILITY, INCLUSION IN THE CODE, AND AN EFFECTIVE DATE

**BE IT ORDAINED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA:**

Section 1. Section 24-42.2 of the Code of Miami-Dade County, Florida, is hereby amended to read as follows:<sup>1</sup>

**Sec. 24-42.2. Sanitary sewer system collection and transmission systems.**

(1) *Existing gravity sanitary sewer requirements.*

- (a) Each publicly or privately owned or operated sanitary sewer collection system shall be evaluated in order to identify and reduce infiltration and inflow into the sanitary sewer collection system. The person responsible for the sewer system's operation shall implement a sewer system evaluation survey (SSES) and, if required, a rehabilitation program, incorporating the provisions and requirements set forth in the U.S. EPA's Sewer System Infrastructure Analysis and Rehabilitation Handbook (October 1991, EPA/625/6-91/030), designed to identify and reduce sewer system infiltration and inflow to a level which meets the standards set forth in Section 24-42.2(1)(d). Such evaluation activities shall be conducted in a manner so that the total length of the gravity sewer lines and associated manholes in the sanitary sewer collection system is evaluated during the first five-year period of

<sup>1</sup> Words stricken through and/or [[double bracketed]] shall be deleted. Words underscored and/or >>double arrowed<< constitute the amendment proposed. Remaining provisions are now in effect and remain unchanged.

the program, and every ten-year period thereafter. Alternatively, the person responsible for the sewer system's operation shall, within forty-five (45) days after the effective date of this section, submit to the Director or the Director's designee for the Director's or the Director's designee's review and approval a report which provides a detailed description of a sewer system evaluation survey and rehabilitation program which incorporates the provisions and requirements set forth in the U.S. EPA's Sewer System Infrastructure Analysis and Rehabilitation Handbook (October, 1991 EPA/626/6-91/030) and which, when implemented, provides effective and substantial compliance with the requirements of this section of the Code. Said report shall include, in addition to any of the above requirements, decision making criteria, procedures and protocols for prioritization of the evaluation of gravity sewer lines and associated manholes, and for the selection of rehabilitation methods to be used. Upon its approval, the program shall be implemented in a manner so that the sewer system evaluation survey is conducted on the total length of the gravity sewer lines and associated manholes during the first five-year period of the program and every ten-year period thereafter. For purpose of compliance with either alternative, infiltration and inflow evaluations and rehabilitation work performed between July 1, 1992 and the effective date of this section can be credited towards the first five-year requirements provided the person responsible for the sewer system's operation submits to the Director or the Director's designee, for the Director's or the Director's designee's review and approval, a report detailing the work performed and the results obtained as required under Section 24-42.2(1)(f)(iv).

\* \* \*

- (f) All persons operating a publicly or privately owned or operated sanitary sewer system shall provide the following reports to the Director or the Director's designee.
  - (i) The daily average pump station operating time and the multiple and variable speed daily average pump station power consumption, as applicable, for each pump station in the sanitary sewer system shall be reported to the Director or the Director's designee on a monthly basis no later than the seventh day after the end of the preceding monthly reporting period. The report shall be in such form as prescribed by the Director or the Director's designee. The report shall include an explanation for any single event, Act of God, or other documentable reason which leads to excessive pump station operating time or power consumption. These can be cause for exclusion of such data

from the nominal average pump operating time calculations.

\* \* \*

- (iii) ~~An [[annual report to the Director or the Director's designee which sets forth a map and a list of all sewer service areas and sewer subsystems including the total length (in feet) of gravity sewer lines according to pipe diameter and type of material and number of manholes in each service area. This information shall be submitted only if there have been changes in the service areas.]]~~ >>electronic sanitary sewer system atlas, in a format compatible with Miami-Dade County Water and Sewer Department's electronic atlas and approved by the Director or the Director's designee, shall be submitted to the Director or the Director's designee no later than January 6, 2016. The electronic atlas shall include delineation of all pump station basins (i.e., sewer service areas) and pump station locations (including X,Y coordinates); pump station specifications, which at a minimum shall include number of pumps, horsepower and pump drive type for each pump, flow rate and total dynamic head at rated operating point; emergency power supply; all gravity sewer lines, including diameter, material, and year installed; manholes and siphons with all inverts and rim elevations; force mains, including diameter, material, and year installed; valves, including air release, check, and isolating (plug, gate, butterfly, and ball valves); flow meters and other items as may be determined by the Director or the Director's designee.

Updates to the electronic atlas shall be submitted to the Director or Director's designee annually<<

\* \* \*

- (4) *Collection and transmission system model.* All publicly owned or operated sanitary sewer collection systems shall participate in a County-wide, regional computerized collection and transmission system model or models to: i) assist in the development and implementation of operation and maintenance procedures to optimize transmission capacity within the collection system; and ii) evaluate the impact of infiltration and inflow rehabilitation programs, proposed system modifications, upgrades and expansions to the transmission capacity and performance of the collection system. >>The model or models for each collection and transmission system shall be updated at intervals of no more than five (5) years<<. The design and development >>and subsequent updates<< of the model >>or models<< required herein shall be approved by the Director or the Director's designee prior to implementation.

\* \* \*

- (6) *Spare parts.* All publicly owned or operated sanitary sewer collection systems shall, maintain an inventory of spare parts or suppliers and vendors necessary to prevent sustained sewage spills, overflows and surcharge conditions resulting from equipment malfunction or deterioration. >>The inventory of spare parts required pursuant to this section shall be reviewed and updated by the Utility, at a minimum, on an annual basis.<< Certain critical parts may be secured from vendors or other systems on an as-needed basis provided, however, that the overall system integrity is maintained.

Section 3. If any section, subsection, sentence, clause or provision of this ordinance is held invalid, the remainder of this ordinance shall not be affected by such invalidity.

Section 4. It is the intention of the Board of County Commissioners, and it is hereby ordained that the provisions of this ordinance, including any sunset provision, shall become and be made a part of the Code of Miami-Dade County, Florida. The sections of this ordinance may be renumbered or relettered to accomplish such intention, and the word "ordinance" may be changed to "section," "article," or other appropriate word.

Section 5. This ordinance shall become effective ten (10) days after the date of enactment unless vetoed by the Mayor, and if vetoed, shall become effective only upon an override by this Board.

PASSED AND ADOPTED: March 4, 2014

Approved by County Attorney as  
to form and legal sufficiency:



Prepared by:



Thomas H. Robertson