

MEMORANDUM

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Agenda Item No. 1(F)3

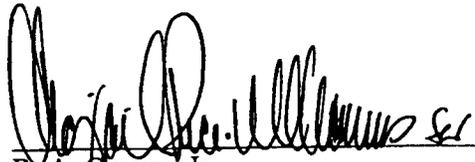
TO: Honorable Chairman Joe A. Martinez
and Members, Board of County Commissioners

DATE: June 15, 2011

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

SUBJECT: Ordinance amending Sec.
24-43.1 of the Code, relating
to sewage flows for sanitary
sewers and the maximum
allowable septic tank sewage
loading requirements

The accompanying resolution was prepared and placed on the agenda at the request of Prime Sponsor Vice Chairwoman Audrey M. Edmonson.


R. A. Cuevas, Jr.
County Attorney

RAC/jls

Memorandum



Date: February 15, 2011

To: Honorable Chairman Joe A. Martinez
and Members, Board of County Commissioners

From: George M. Burgess
County Manager 

Subject: Ordinance Amending Section 24-43.1 of the Code of Miami-Dade County, Florida, Relating to Sewage Flows for Sanitary Sewers and the Maximum Allowable Septic Tank Sewage Loading Requirements

Recommendation

It is recommended that the Board of County Commissioners approve the attached Ordinance Amending Section 24-43.1 of the Code of Miami-Dade County, Florida (Code), relating to sewage flows for sanitary sewers and the maximum allowable septic tank sewage loading requirements.

Scope

The proposed ordinance involves environmental regulation throughout Miami-Dade County.

Fiscal Impact/Funding Source

This ordinance will not require additional funding and will be revenue neutral to the Department of Environmental Resources Management (DERM). The Water and Sewer Department (WASD) charges for water and sewer connections based on a cost per gallon reflecting the value of water/sewer collection, treatment and transmission systems serving the property multiplied by the number of gallons assigned to the proposed use. The proposed ordinance, in general, decreases the standard gallonage for various usages without changing the cost per gallon. The net result will be a reduction in most water and sewer connection charges. WASD's approved FY2010-11 capital improvement plan/budget anticipated the slight reduction in water and sewer connection charges.

Track Record/Monitor

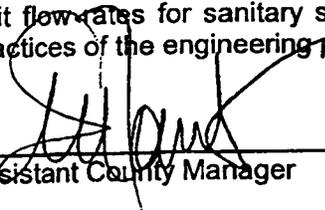
N/A

Background

Over 30 years ago, Section 24-43.1 of the Code set forth sewage unit flow rates to determine sewage flows for sanitary sewers and septic tank sewage loading for various land uses. DERM and WASD recently coordinated on proposing revised sewage unit flow rates for various land uses as set forth in Section 24-43.1 of the Code.

This proposed ordinance is being submitted for enactment in response to changes in the Florida Building Code mandating the use of water-conserving fixtures in new construction and to better evaluate overall water demand. WASD contracted with two local consulting firms, Cordova Rodriguez and Associates, Inc. and Samabi Group, Inc., to analyze the water usage in WASD's service area and provide recommendations for revising the sewage unit flow rates. The study concluded that it was necessary to revise the daily annual average sewage unit flow rates set forth in Chapter 24 based upon reduction in water usage throughout WASD's service area.

This ordinance also provides for the use of an engineering flow study, in lieu of the revised table of sewage unit flow rates for sanitary sewers and septic tank sewage loading, which utilizes recognized standard practices of the engineering profession.


Assistant County Manager



MEMORANDUM
(Revised)

TO: Honorable Chairman Joe A. Martinez
and Members, Board of County Commissioners

DATE: February 15, 2011

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

SUBJECT: Agenda Item No. 4(D)

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 Manager'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
Veto _____
Override _____

Agenda Item No. 4(D)
2-15-11

ORDINANCE NO. _____

ORDINANCE AMENDING SECTION 24-43.1 OF THE CODE OF MIAMI-DADE COUNTY, FLORIDA, RELATING TO SEWAGE FLOWS FOR SANITARY SEWERS AND THE MAXIMUM ALLOWABLE SEPTIC TANK SEWAGE LOADING REQUIREMENTS; 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 24-43.1 of the Code of Miami-Dade County, Florida, is hereby amended to read as follows:¹

Sec. 24-43.1. Liquid waste disposal and potable water supply systems.

- (1) The intent and purpose of this section is to safeguard the public health, safety, and welfare by regulating liquid waste storage, disposal and treatment methods other than sanitary sewers and any source of potable water supply.

* * *

- (5) The following table shall be utilized by the Director or the Director's designee to determine sewage flows for sanitary sewers and the maximum allowable septic tank sewage loading requirements set forth in this chapter. If the Director or the Director's designee receives competent factual data and information such as actual on-site measured sewage flows or actual metered water bills, >>or an engineering flow study which utilizes recognized standard practices of the engineering profession, is signed and sealed by an engineer licensed by the State of Florida, and approved by the Director or the Director's designee.<< the Director or the Director's designee may utilize this data and information to determine sewage flows for sanitary sewers and the maximum allowable septic tank sewage loading requirements set forth in this chapter in lieu of the table below. This table shall not be

¹ 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.

utilized for the sizing of septic tanks. Sizing of septic tanks shall be in accordance with Florida Statutes regarding septic tanks.

~~[[Type of Land Use, Gallons Per Day (GPD)~~

~~Residential Land Uses:~~

~~Single family residence: 350 (GPD/unit)~~

~~Townhouse residence: 250 (GPD/unit)~~

~~Apartment residence: 200 (GPD/unit)~~

~~Mobile home residence: 300 (GPD/unit)~~

~~Duplex or twin home residence: 250 (GPD/unit)~~

~~Commercial Land Uses:~~

~~Barbershop: 10/100 (GPD/sq. ft.)~~

~~Beauty salon or hair boutique: 75 (GPD/chair)~~

~~Bowling alley: 100 (GPD/lane)~~

~~Dentist's office:~~

~~(a) Per dentist: 250 (GPD/dentist)~~

~~(b) Per wet chair: 200 (GPD/chair)~~

~~Physician's office: 250 (GPD/physician)~~

~~Full service restaurant (350 GPD minimum): 50 (GPD/seat)~~

~~Bar or cocktail lounge: 15 (GPD/seat)~~

~~Fast food restaurant (350 GPD minimum): 35 (GPD/seat)~~

~~Take-out restaurant (350 GPD minimum); 50/100 (GPD/sq. ft.)~~

~~Hotel or motel: 100 (GPD/room)~~

~~Office building: 10/100 (GPD/sq. ft.)~~

~~Motor vehicle service station: 10/100 (GPD/sq. ft.)~~

~~Shopping center (dry uses): 5/100 (GPD/sq. ft.)~~

~~Stadium, racetrack, ballpark: 3 (GPD/seat)~~

~~Store without food service: 5/100 (GPD/sq. ft.)~~

~~Theater:~~

~~(a) Indoor auditorium: 3 (GPD/seat)~~

~~(b) Outdoor drive-in: 5 (GPD/space)~~

5

Camper or trailer park: 150 (GPD/space)

Banquet halls: 25 (GPD/seat)

Car wash:

(a) Recycling type: 750 (GPD/bay)

(b) Hand type: 3,500 (GPD/bay)

Coin laundries: 225 (GPD/washer)

Country clubs: 25 (GPD/member)

Funeral homes: 10/100 (GPD/sq. ft.)

Gas station/mini mart: 450 (GPD/unit)

Health spa/gyms: 35/100 (GPD/sq. ft.)

Veterinarian's office:

(a) Per veterinarian: 250 (GPD/vet)

(b) With kennels: 30 (GPD/cage)

Kennels: 30 (GPD/cage)

Marinas: 40 (GPD/slip)

Food preparation outlets (bakeries, meat markets, commissaries) (350 GPD minimum): 50 (GPD/sq. ft.)

Pet grooming:

(a) Store space: 10/100 (GPD/sq. ft.)

(b) Per tub: 75 (GPD/tub)

Industrial Land Uses:

Factory without showers: 10/100 (GPD/sq. ft.)

Factory with showers: 20/100 (GPD/sq. ft.)

Airport: 5 (GPD/passenger); 10 (GPD/employee)

House of worship: 3 (GPD/seat)

Hospital: 250 (GPD/bed)

Convalescent or nursing home: 150 (GPD/bed)

Park:

(a) With toilets only: 5 (GPD/person)

(b) With showers and toilets: 20
(GPD/person)

~~Other residential institution or facility (including adult
congregate living units): 100 (GPD/person)~~

~~School:~~

- ~~(a) Day care/nursery: 5 (GPD/student)~~
- ~~(b) Regular school: 10 (GPD/student)~~
- ~~(c) With cafeteria add: 5 (GPD/student)~~
- ~~(d) With showers add: 5 (GPD/student)~~
- ~~(e) Teachers and staff: 15 (GPD/person)~~

~~Public swimming facility: 10 (GPD/person)~~

~~Warehouse/industrial speculation building: 20/1000
(GPD/sq. ft.)~~

~~Storage warehouse or mini warehouse: 5/1000
(GPD/sq. ft.)]]~~

>> Type of Land Use/Gallons per Day (GPD)

Residential Land Uses:

<u>Single Family Residence</u>	<u>Less than 3001 sq.ft: 220 gpd/unit</u>
	<u>3001-5000 sq.ft: 320 gpd/unit</u>
	<u>More than 5000 sq.ft: 550 pd/unit</u>
<u>Townhouse Residence</u>	<u>180 gpd/unit</u>
<u>Apartment</u>	<u>150 gpd/unit</u>
<u>Mobile Home Residence/Park</u>	<u>180 gpd/unit</u>
<u>Duplex or Twin Home Residence</u>	<u>180 gpd/unit</u>

Commercial Land Uses:

<u>Banquet Hall</u>	<u>15 gpd/100 sq.ft.</u>
<u>With Kitchen</u>	<u>50 gpd/100 sq.ft.</u>
<u>Bar and or Cocktail Lounge</u>	<u>20 gpd/100 sq.ft</u>
<u>Barber Shop</u>	<u>15 gpd/100 sq.ft.</u>
<u>Beauty Shop</u>	<u>25 gpd/100 sq.ft.</u>
<u>Bowling Alley</u>	<u>100 gpd/lane</u>
<u>Trailer or Tourist Park</u>	<u>150 gpd/space</u>

2

Car Wash:

(a) Manual Washing 350 gpd/bay

(b) Automated Washing 5500 gpd/bay

With recycle system Based on system design and
evaluation by the Department

Coin Laundry 145 gpd/washer

Country Club 15 gpd/100 sq.ft.

With Kitchen 50 gpd/100 sq.ft.

Dentist's Office 25 gpd/100 sq.ft.

Food Preparation Outlets (Bakeries,

Meat Markets, Commissaries, etc.) 35 gpd/100 sq.ft.

Funeral Home 10 gpd/100 sq.ft.

Gas Station/Convenience store/

Mini-Mart 450 gpd/unit

With single automated

car wash add 1750 gpd/unit

Fitness Center or Gym 10 gpd/100 sq.ft.

Hotel or Motel 100 gpd/room

Kennel 15 gpd/cage

Marina 60 gpd/slip

Motor Vehicle Service Station 10 gpd/100 sq.ft.

Office Building 5 gpd/100 sq.ft.

Pet Grooming 55 gpd/100 sq.ft.

Physician's Office 20 gpd/100 sq.ft.

Restaurant:

(a) Full Service 100 gpd/100 sq.ft.

(b) Fast Food 50 gpd/100 sq.ft.

(c) Take Out 100 gpd/100 sq.ft.

Retail 10 gpd/100 sq.ft.

Shopping Center/Mall:

<u>Shell/Common Area</u>	<u>5 gpd/100 sq.ft.</u>
<u>Stadium, Ballpark, Racetrack,</u>	
<u>Fronton, Auditorium, etc.</u>	<u>3 gpd/seat</u>
<u>Theater:</u>	
<u>(a) Indoor</u>	<u>3 gpd/seat</u>
<u>(b) Outdoor</u>	<u>5 gpd/space</u>
<u>(c) Drive -in</u>	<u>5 gpd/space</u>
<u>Veterinarian Office</u>	<u>20 gpd/100 sq.ft.</u>

Industrial Land Uses:

Airport:

<u>(a) Common Area/Concourse</u>	<u>5 gpd/100 sq.ft.</u>
<u>(b) Retail</u>	<u>10 gpd/100sq.ft.</u>
<u>(c) Food Service</u>	<u>See Restaurant use for allocation</u>

House of Worship 10 gpd/100 sq.ft.

Hospital 250 gpd/bed

Industrial:

<u>(a) Warehouse/Spec. Bldg.</u>	<u>1 gpd/100 sq.ft.</u>
<u>(b) Self-service storage units</u>	<u>1.5 gpd/100 sq.ft.</u>
<u>(c) Industrial -Wet</u>	<u>20 gpd/100 sq.ft.</u>
<u>(d) Industrial-Dry</u>	<u>2.5 gpd/100 sq.ft.</u>

Nursing/Convalescent Home 150 gpd/bed

Other Residential Facility/Institution:

<u>(a) Congregate Living</u>	
<u>Facility (CLF)</u>	<u>75 gpd/bed</u>
<u>(b) Jail</u>	<u>150 gpd/person</u>
<u>(c) Other</u>	<u>100 gpd/person</u>

Public Park:

<u>(a) With toilets only</u>	<u>5 gpd/person</u>
<u>(b) With toilets and showers</u>	<u>20 gpd/person</u>

Public Swimming Pool Facility 30 gpd/person

School:

<u>(a) Day Care/Nursery</u>	
<u>(adults and children)</u>	<u>20 gpd/100 sq.ft.</u>
<u>(b) Regular school</u>	<u>12 gpd/100 sq.ft. <<</u>

9

Section 2. 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 3. 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 4. 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:

Approved by County Attorney as
To form and legal sufficiency.



Prepared by:



Abbie Raurell Schwaderer

Prime Sponsor: Vice Chairwoman Audrey M. Edmonson