MIAMI-DADE WATER & SEWER DEPARTMENT											
2016 WATER QUALITY DATA											
PARAMETER		. FEDERAL GOAL (b)	STATE MCL	YEAR TESTED	MAIN SYSTEM	MCL VIOL Y/N	SOUTH DADE WATER SUPPLY SYSTEM	MCL VIOL Y/N	NMB WATER	MCL VIOL Y/N	MAJOR SOURCES
MICROBIOLOGICAL CONTAMINANTS											
Total Coliform Bacteria (positive samples until March 31, 2016)	5%	0	5%	16 (h)	0.2%	NO	0%	NO	0%	NO	Naturally present in the environment
Total Coliform Bacteria (Beginning April 1, 2016)	π	0	TT	16 (h)	0	NO	0	NO	0	NO	Naturally present in the environment
STAGE 2 DISINFECTION BYPRODUCTS		N 1/A		10 (1)	10 (0.50)		50 (11 77)	10			
Total Trihalomethanes (ppb) (d)(e) Haloacetic Acids (ppb) (d)(e)	80 60	N/A N/A	80 60	16 (h) 16 (h)	48 (6-56) 39 (8-45)	NO NO	56 (11-77) 15 (2-17)	NO NO	19.3 (7.8-33.4) 13 (9.4-16.9)	NO NO	Byproduct of drinking water chlorination Byproduct of drinking water chlorination
DISINFECTANTS											
Chloramines (ppm) (f) Chlorine (ppm) (f)		MRDLG=4 MRDLG=4		16 (h) 16 (h)	2.6 (ND-4.5) N/A	NO N/A	N/A 1.7 (0.2-3.3)	N/A NO	3.5 (0.7-4.0) N/A	NO N/A	Water additive used to control microbes Water additive used to control microbes
INORGANIC CONTAMINANTS											
Antimony (ppb)	6 10	6	6 10	16 (h) 16 (h)	0.2 (ND-0.2) 1.5 (0.8-1.5)	NO NO	0.7 (0.2-0.7) 1.3 (0.6-1.3)	NO NO	ND ND	NO NO	Discharge from fire retardants, electronics, solder
Arsenic (ppb) Barium (ppm)	2	2	2	16 (h)	0.006 (0.005-0.006)	NO	0.02 (0.01-0.02)	NO	0.003	NO	Erosion of natural deposits Erosion of natural deposits
Chromium (ppb)	100	100	100	16 (h)	ND	NO	0.7 (0.4-0.7)	NO	ND	NO	Erosion of natural deposits
Copper (ppm) (g) (at tap)	AL = 1.3	1.3	AL = 1.3	16 (h)	0.06, 0 homes out of 124 (0%) exceeded AL	NO	0.97, 1 home out of 36 (3%) exceeded AL	NO	0.10, 0 homes out of 91 exceeded AL	NO	Corrosion of household plumbing systems
Fluoride (ppm)	4	4	4	16 (h)	0.9 (0.2-0.9)	NO	0.1	NO	0.56 (0.53-0.56)	NO	Erosion of natural deposits; water additive which promotes strong teeth
Lead (ppb) (at POE)	15	15	15	16 (h)	ND	NO	1.6 (0.16-1.6)	NO	ND	NO	Corrosion of household plumbing systems
Lead (ppb) (g) (at tap)	AL = 15	0	AL = 15	16 (h)	2.1, 1 home out of 124 (1%) exceeded AL	NO	1.4, 2 homes out of 36 (6%) exceeded AL	NO	3.4, 3 homes out of 91 (3%) exceeded AL	NO	Corrosion of household plumbing systems
Nitrate (as N) (ppm) Nitrite (as N) (ppm)	10 1	<u>10</u> 1	10 1	15 (h) 16 (h)	0.37 (0.01-0.37) 0.04 (ND-0.04)	NO NO	6 (1-6) ND	NO NO	ND ND	NO NO	Erosion of natural deposits; Runoff from fertilizer use Erosion of natural deposits; Runoff from fertilizer use
Selenium (ppb)	50	50	50	16 (h)	ND	NO	0.9 (ND-0.9)	NO	ND	NO	Erosion of natural deposits, Kurlon noninfertilizer use
Sodium (ppm)	NE	N/A	160	16 (h)	46 (26-46)	NO	30 (17-30)	NO	40 (35-40)	NO	Erosion of natural deposits and sea water
Synthetic Organic											
Hexachlorocyclo-pentadiene (ppb)	50	50	50	16 (h)	ND	NO	ND	NO	0.022 (ND-0.022)	NO	
RADIOACTIVE CONTAMINANTS											
Alpha Emitters (pCi/L)	15	0	15	16 (h)	ND	NO	9.1 (ND-9.1)	NO	ND	NO	Erosion of natural deposits
Combined Radium (pCi/L)	5	0	5	16 (h)	ND	NO	0.9 (ND-09)	NO	ND	NO	Erosion of natural deposits
Uranium (µg/L)	30	0	30	16 (h)	1.2 (ND-1.2)	NO	9.5 (0.7-9.5)	NO	ND	NO	Erosion of natural deposits
ABBREVIATIONS & NOTES											
MRDL = Maximum Residual Disinfectant MRDLG = Maximum Residual Disinfectant N/A = Not Applicable ND = Not Detected NE = None Established pCi/L = picoCuries per Liter POE = Point of Entry to the Distribution S ppb = parts per billion or micrograms per ppm = parts per million or milligrams per 1 () = Ranges (low - high) are given in The value preceding the parentheses is t monitoring period except for disinfection I running annual average or locational running		 (b) Federal Goal = MCLG = Maximum Contaminant Level Goal (c) The MCL for total coliform bacteria states that drinking water must not show the presence of coliform bacteria in ≥ 5% of monthly samples. A minimum of 420 samples for total coliform bacteria testing are collected each month from the Main distribution system (55 samples from the South Dade Water Supply distribution system) in order to demonstrate compliance with regulations. (d) A total of 32 samples for Total Trihalomethane and Haloacetic Acid testing are collected per year from the Main distribution system (6 from the Aventura distribution system) in order to demonstrate compliance with State regulations. Compliance is based on a locational running annual average. This is the value which precedes the parentheses. (e) A total of 16 samples for Total Trihalomethane and Haloacetic Acid testing are collected per year from the South Dade Water Supply distribution system in order to demonstrate compliance is based on a locational running annual average. This is the value which precedes the parentheses. (f) Compliance is based on a running annual average, computed quarterly from monthly samples collected during total coliform bacteria testing. (g) 90th percentile value reported. If the 90th percentile value does not exceed the AL (i.e., less than 10% of the homes have levels above the AL), the system is in compliance and is utilizing the prescribed corrosion control measures. 									
TT= Treatment Technique		 (h) The data presented for the Main System, South Dade System and North Miami Beach System is from the most recent testing conducted for these parameters in accordance with regulations. (i) Fluoride testing to demonstrate compliance with State regulations is required every 3 years in accordance with the State's monitoring framework. However, fluoride levels are monitored daily for the Main System treatment plants where fluoride is added to promote strong teeth. 									