

MIAMI-DADE WATER & SEWER DEPARTMENT
JOHN E. PRESTON WATER TREATMENT PLANT LABORATORY - CERT. #E 56731
 1100 West 2nd Avenue, Hialeah, Florida 33010
 Raymond D. Diaz, Laboratory Services Division Chief - Tel: (786) 552-4738
2014 TYPICAL AVERAGE ANALYSIS
JOHN E. PRESTON WATER TREATMENT PLANT

PARAMETERS	EXPRESSED IN	MCL ¹	RAW WATER	FINISHED WATER
METALS				
Aluminum (as Al)	mg/L	b2	0.0	0.0
Antimony (as Sb)	mg/L	b	0.000	0.000
Arsenic (as As)	mg/L	b	0.00	0.00
Barium (as Ba)	mg/L	b	0	0
Beryllium (as Be)	mg/L	b	0.000	0.000
Cadmium (as Cd)	mg/L	b	0.000	0.000
Calcium (as Ca)	mg/L	d	75	32
Chromium (as Cr)	mg/L	b	0.0	0.0
Copper (as Cu)	mg/L	c	0.0	0.0
Iron (as Fe)	mg/L	b2	0.8	0.0
Lead (as Pb)	mg/L	b	0.000	0.000
Magnesium (as Mg)	mg/L	d	7.0	2.2
Manganese (as Mn)	mg/L	b	0.01	0.00
Mercury (as Hg)	mg/L	b	0.000	0.000
Nickel (as Ni)	mg/L	b	0.0	0.0
Potassium (as K)	mg/L	d	2.0	2.3
Selenium (as Se)	mg/L	b	0.00	0.00
Silver (as Ag)	mg/L	b2	0.0	0.0
Sodium (as Na)	mg/L	b	35	53
Thallium (as Tl)	mg/L	b	0.000	0.000
Zinc (as Zn)	mg/L	b2	0	0
ANIONS				
Bromide (as Br)	mg/L	d	0.13	0.09
Chlorides (as Cl)	mg/L	b2	57	55
Cyanides (as CN)	mg/L	c	0.00	0.00
Fluoride (as F ⁻)	mg/L	c	0.21	0.45
Nitrates (as N)	mg/L	b	0	0
Nitrites (as N)	mg/L	b	0	0
Sulfates (as SO ₄ ²⁻)	mg/L	b2	2	6
PHYSICAL & CHEMICAL PROPERTIES				
Alkalinity (as CaCO ₃)				
Phenolphthalein	mg/L	d	0	19
Total	mg/L	d	203	97
Ammonia (as NH ₃)	mg/L	d	0.52	0.33
Carbon Dioxide (as free CO ₂)	mg/L	d	30	<0.12
Chlorine Residual at Plant (as Cl ₂)	mg/L	b	f	0.0/0.0
				0.0/3.11

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Color	PCU	b2	15	47	9
Conductivity	umhos/cm	d		561	376
Hardness (as CaCO₃)					
Total	mg/L	d		210	88=
Non-carbonate	mg/L	d		7	-9
Oxygen, dissolved (as O ₂)	mg/L	d		3.9	9.5
pH	pH	c	≥6.5	7.3	9.3
Ortho Phosphate (as PO ₄ ³⁻)	mg/L	d		0.05	0.22
Total Phosphate (as PO ₄ ³⁻)	mg/L	d		0.14	0.34
Silica (as SiO ₂)	mg/L	d		6.61	6.17
Surfactants (MBAS)	mg/L	b2	0.5	0.0	0.0
Temperature	°C	d		24.4	24.9 ∞
Threshold Odor Number	TON	b	3	3	1
Total Dissolved Solids	mg/L	b2	500	310	202
Total Organic Carbon	mg/L	d		16	8
Turbidity	NTU	b	1.0	0.67	0.10
MICROBIOLOGY					
Cryptosporidium/Giardia	#/100L	d, g		ND	--
Total Coliform	Present - Absent -	P, b A	e	--	A
ORGANICS					
Endrin	mg/L	b	0.002	0.000	0.000
Lindane	mg/L	b	0.0002	0.0000	0.0000
Methoxychlor	mg/L	b	0.04	0.00	0.00
Toxaphene	mg/L	b	0.003	0.000	0.000
2, 4, -D	mg/L	b	0.07	0.00	0.00
2, 4, 5 – TP (Silvex)	mg/L	b	0.05	0.00	0.00
Phenols	mg/L	c	0.001	0.000	0.000
Total Trihalomethanes	mg/L	b	0.10	0.00	0.01
VOLATILE ORGANICS					
Vinyl Chloride	mg/L	b	0.001	0.000	0.000
Benzene	mg/L	b	0.001	0.000	0.000
Carbon Tetrachloride	mg/L	b	0.003	0.000	0.000
1, 2- Dichloroethane	mg/L	b	0.003	0.000	0.000
Trichloroethylene	mg/L	b	0.003	0.000	0.000
para-Dichlorobenzene	mg/L	b	0.075	0.000	0.000
1, 1- Dichloroethylene	mg/L	b	0.007	0.000	0.000
1, 1, 1-Trichloroethane	mg/L	b	0.2	0.0	0.0
cis-1, 2 – Dichloroethylene	mg/L	b	0.07	0.00	0.00

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PARAMETERS	EXPRESSED IN	MCL ^a	RAW WATER	FINISHED WATER
1, 2- Dichloropropane	mg/L b	0.005	0.000	0.000
Ethylbenzene	mg/L b	0.7	0.0	0.0
Monochlorobenzene	mg/L b	0.1	0.0	0.0
o- Dichlorobenzene	mg/L b	0.6	0.0	0.0
Styrene	mg/L b	0.1	0.0	0.0
Tetrachloroethylene	mg/L b	0.003	0.000	0.000
Toluene	mg/L b	1	0	0
Trans-1, 2-Dichloroethylene	mg/L b	0.1	0.0	0.0
Xylenes (total)	mg/L b	10	0	0
Dichloromethane	mg/L b	0.005	0.000	0.000
1, 2, 4 – Trichlorobenzene	mg/L b	0.07	0.00	0.00
1, 1, 2 – Trichloroethane	mg/L b	0.005	0.000	0.000
Ethylene Dibromide	mg/L b	0.00002	0.00000	--
RADIONUCLIDES				
Gross Alpha	pCi/L b	15	<2.92	<2.62
Radon	pCi/L d	--	<97.9	<98.4
Radium 226 plus 228	pCi/L b	5	--	<1.38

NOTES

- a) MCL – Maximum Contaminant Level. Values are for the Agency with the most stringent levels.
- b) MCL – Set by Florida Administrative Code Chapter 62-550, Primary Drinking Water Standards.
- b2) MCL – Set by Florida Administrative Code Chapter 62-550, Secondary Drinking Water Standards.
- c) MCL – Set by Dade County Code 24-43.3 for Drinking Water.
- d) No Limits Set
- e) No more than 5.0 percent of the samples collected during a month show the presence of total coliform bacteria.
- f) For free chlorine residual: minimum is 0.2 mg/L, maximum is 4.0 mg/L. For total chlorine residual: minimum is 0.6 mg/L, maximum is 4.0 mg/L. Results expressed as free/total.
- g) ND - Not Detected.
- + NOD - No Odor Detected.
- ❖ < Less than.
- ❖ ≥ Greater than or equal to.
- ❖ = 5.1 grains per gallon.
- ❖ ∞ 76.8°F