

City of Detroit
Water and Sewerage Department
 Laboratory analysis of Water Samples collected at
Southwest Plant
 on April 14, 2003

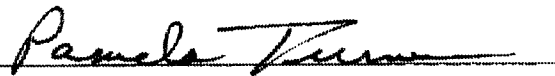
	Raw	Tap	MCL/ [SMCL] ⁽¹⁾	MDL ⁽²⁾
Turbidity ⁽³⁾	1.60	0.08	0.3/95%	
Total Solids	175	166	[500]	10
Total Dissolved Solids	120	139	[500]	10
Aluminum (Al)	0.429	0.043	[0.05-0.2]	0.005
Iron (Fe)	0.584	0.011	[0.3]	0.002
Copper (Cu)	0.019	0.006	1.3	0.001
Magnesium (Mg)	7.80	7.54		0.2
Calcium (Ca)	30.0	31.9		0.06
Sodium (Na)	5.12	4.58	20 ⁽⁴⁾	0.01
Potassium (K)	1.26	1.03		0.01
Manganese (Mn)	0.016	0.001	[0.05]	0.001
Zinc (Zn)	<0.01	<0.01	[5.0]	0.01
Silica (SiO ₂)	6.69	6.69		0.4
Sulfate (SO ₄)	20.4	27.2		
Chloride (Cl ⁻)	8.5	10.0	[250]	1.0
Phosphorus (P)	0.03	0.41		0.01
Free Carbon Dioxide	2.8	7.9		
Total Hardness ⁽⁵⁾ ⁽⁶⁾	111	113		
Total Alkalinity ⁽⁵⁾	88	75		
Carbonate Alkalinity ⁽⁵⁾	0	0		
Bi-Carbonate Alkalinity ⁽⁵⁾	88	75		
Non-Carbonate Hardness ⁽⁵⁾	23	38		
Chemical Oxygen Demand	6.0	4.0		2.0
Dissolved Oxygen	12.3	11.7		
Ammonia Nitrogen	<0.1	<0.1		0.1
Organic Nitrogen	<0.1	<0.1		0.1
Nitrite Nitrogen	<0.01	<0.01	1.0	0.01
Nitrate Nitrogen	0.48	0.47	10.0	0.01
Fluoride	0.1	0.9	4.0	0.1
pH in pH units	7.84	7.28	6.5-8.5	
Specific Conductance in micromhos at 25° C.	225	234		
Temperature in ° C.	8.4	9.5		

 FOR INFORMATIONAL PURPOSES ONLY

Notes: All units are mg/L unless otherwise noted. (1) MCL/[SMCL] = Maximum Contaminant Level/Secondary Maximum Contaminant Level. (2) MDL = Method Detection Limit. (3) NTU = Nephelometric Turbidity Units. Reported results are from a Grab sample. EPA requirements are for 95% of monthly readings to be <0.3 NTU. (4) EPA Guidance level. (5) = As Calcium Carbonate. (6) by EDTA titration. "<" = Less than. EF = Equipment Failure.

Analyst: Brian Brown, Sr. Anl. Chemist

By:



Pamela Turner

Manager, Water Quality Division

Victor M. Mercado

Director, Water & Sewerage Department