

City of Detroit
Water and Sewerage Department
 Laboratory analysis of Water Samples collected at
Southwest Plant
 on May 15, 2002

	Raw	Tap	MCL/[SMCL] ⁽¹⁾	MDL ⁽²⁾
Turbidity ⁽³⁾	11.8	0.219	0.3/95%	
Total Solids	171	162	[500]	10
Total Dissolved Solids	121	133	[500]	10
Aluminum (Al)	0.555	0.042	[0.05-0.2]	0.005
Iron (Fe)	0.461	<0.005	[0.3]	0.002
Copper (Cu)	0.005	<0.002	1.3	0.001
Magnesium (Mg)	3.96	3.29		0.2
Calcium (Ca)	28.3	31.1		0.06
Sodium (Na)	5.56	5.53	20 ⁽⁴⁾	0.01
Potassium (K)	1.16	0.95		0.01
Manganese (Mn)	0.008	<0.001	[0.05]	0.001
Zinc (Zn)	<0.01	<0.01	[5.0]	0.01
Silica (SiO ₂)	2.73	4.14		0.4
Sulfate (SO ₄)	16.8	28.8		
Chloride (Cl ⁻)	8.5	9.5	[250]	1.0
Phosphorus (P)	<0.01	0.31		0.01
Free Carbon Dioxide	1.2	5.3		
Total Hardness ⁽⁵⁾ ⁽⁶⁾	110	110		
Total Alkalinity ⁽⁵⁾	84	72		
Carbonate Alkalinity ⁽⁵⁾	0	0		
Bi-Carbonate Alkalinity ⁽⁵⁾	84	72		
Non-Carbonate Hardness ⁽⁵⁾	26	38		
Chemical Oxygen Demand	5.6	4.0		2.0
Dissolved Oxygen	10.6	10.2		
Ammonia Nitrogen	<0.1	<0.1		0.1
Organic Nitrogen	0.3	<0.1		0.1
Nitrite Nitrogen	<0.01	<0.01	1.0	0.01
Nitrate Nitrogen	0.39	0.42	10.0	0.01
Fluoride	0.1	0.9	4.0	0.1
pH in pH units	8.13	7.43	6.5-8.5	
Specific Conductance in micromhos at 25° C.	225	232		
Temperature in ° C.	11.7	12.4		

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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. (7) Metals results temporarily unavailable. "<" = Less than. EF = Equipment Failure.

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