

**City of Detroit**  
**Water and Sewerage Department**  
 Laboratory analysis of Water Samples collected at  
**Southwest Plant**  
 on December 13, 2001

	Raw	Tap	MCL/ [SMCL] <sup>(1)</sup>	MDL <sup>(2)</sup>
Turbidity <sup>(3)</sup>	5.78	0.12	0.3/95%	
Total Solids	162	162	[500]	10
Total Dissolved Solids	138	147	[500]	10
Aluminum (Al)	(7)	(7)	[0.05-0.2]	0.005
Iron (Fe)	(7)	(7)	[0.3]	0.002
Copper (Cu)	(7)	(7)	1.3	0.001
Magnesium (Mg)	(7)	(7)		0.2
Calcium (Ca)	(7)	(7)		0.06
Sodium (Na)	(7)	(7)	20 <sup>(4)</sup>	0.01
Potassium (K)	(7)	(7)		0.01
Manganese (Mn)	(7)	(7)	[0.05]	0.001
Zinc (Zn)	(7)	(7)	[5.0]	0.01
Silica (SiO <sub>2</sub> )	5.28	6.10		0.4
Sulfate (SO <sub>4</sub> )	18.9	29.4		
Chloride (Cl <sup>-</sup> )	8.50	9.00	[250]	1.0
Phosphorus (P)	<0.01	0.28		0.01
Free Carbon Dioxide	1.7	2.9		
Total Hardness <sup>(5)</sup> <sup>(6)</sup>	115	113		
Total Alkalinity <sup>(5)</sup>	83	73		
Carbonate Alkalinity <sup>(5)</sup>	0	0		
Bi-Carbonate Alkalinity <sup>(5)</sup>	83	73		
Non-Carbonate Hardness <sup>(5)</sup>	32	40		
Chemical Oxygen Demand	5.5	3.6		2.0
Dissolved Oxygen	AE	AE		
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	0.87	0.74	10.0	0.01
Fluoride	0.1	1.0	4.0	0.1
pH in pH units	7.99	7.70	6.5-8.5	
Specific Conductance in micromhos at 25° C.	248	245		
Temperature in ° C.	8.7	12.2		

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

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