GLWA

Water: RAW
Year: 2025

Plant Name: **Southwest (SW)**

WATER OPERATING SERVICES
WATER QUALITY
10100 EAST JEFFERSON AVENUE
DETROIT, MICHIGAN 48214
PHONE: 313-926-8102 / 313-926-8127

Yearly Summary

Monthly Mineral Analyses Annual Averages

Parameter	Units	Max.	Min.	Avg.	01/14/2025 Jan	02/11/2025 Feb	03/11/2025 Mar	04/15/2025 Apr	05/13/2025 May	06/10/2025 Jun	07/15/2025 Jul	08/12/2025 Aug	09/16/2025 Sep	10/14/2025 Oct	11/04/2025 Nov	12/09/2025 Dec	← Sample Dates MCL	Sec.Std	RL	STDEV
Turbidity	N.T.U.	16.00	0.67	**4.09**	5.11	0.67	2.50	9.30	4.54	1.60	1.10	3.80	1.10	0.90	2.40	16.00	*0.3/95% (1)*			**4.49**
Total Solids	mg/L	149	52	**128**	136	128	133	140	131	123	138	140	135	128	52	149		*500*	*10*	**25**
Total Dissolved Solids	mg/L	186	79	**130**	186	79	143	135	131	124	153	157	117	109	109	113		*500*	*10*	**28**
Aluminum	mg/L	0.398	0.015	**0.102**	0.139	0.015	AE	0.146	0.119	0.028	0.030	0.044	0.043	0.032	0.123	0.398		*0.05-0.2*	*0.001*	**0.110**
Iron	mg/L	0.7	0.2	**0.3**	0.4	0.2	0.3	0.6	0.2	-	0.2	0.4	0.2	0.3	0.3	0.7	*12.000*	*0.3*	*0.1*	**0.178**
Copper	mg/L	0.041	0.020	**0.030**	0.033	0.025	0.027	0.034	0.032	-	0.020	0.041	0.034	0.040	0.032	0.037	*1.3 (AL)*		*0.001*	**0.006**
Magnesium	mg/L	8.6	6.7	**6.8**	7.1	7.6	6.9	7.9	7.7	-	8.6	7.0	8.3	7.4	6.7	6.7			*0.1*	**0.63**
Calcium	mg/L	31.3	22.9	**24.0**	25.7	26.8	24.7	31.3	29.4	-	28.1	22.9	25.9	25.2	23.8	24.7			*0.1*	**2.5**
Sodium	mg/L	8.1	0.4	**3.6**	5.3	5.0	0.6	8.1	7.4	5.1	0.5	0.4	0.4	0.5	5.0	5.4		*20 (2)*	*0.1*	**2.94**
Potassium	mg/L	1.5	0.9	**1.0**	1.1	1.0	1.0	1.5	1.3	-	1.1	0.9	1.1	1.0	0.9	1.1			*0.1*	**0.17**
Manganese	mg/L	0.009	ND	**0.003**	0.004	<0.001	0.002	0.005	0.003	-	0.002	0.004	0.002	0.001	0.002	0.009		*0.05*	*0.001*	**0.002**
Lead	mg/L	ND	ND	**0.000**	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	*0.015 (AL)*		*0.001*	
Zinc	mg/L	0.006	ND	**0.001**	0.002	<0.001	0.006	0.002	0.001	-	<0.001	<0.001	0.001	<0.001	<0.001	0.003		*5*	*0.001*	**0.00**
Silica	mg/L	3.7	1.1	**2.0**	3.7	2.1	2.3	1.8	1.3	2.8	1.1	1.4	2.4	1.5	AE	2.1			*0.4*	**0.7**
Sulfate	mg/L	21.9	12.3	**17.7**	16.3	17.1	18.7	19.3	16.8	17.3	12.3	16.4	17.5	21.9	19.7	18.4				**2.3**
Chloride	mg/L	21.0	8.1	**10.6**	9.3	8.8	10.0	9.8	13.5	10.7	9.5	9.0	8.1	21.0	8.5	8.5		*250*	*5*	**3.6**
Phosphorus	mg/L	0.08	ND	**0.01**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05			*0.05*	
Free Carbon Dioxide	mg/L	2.0	0.3	**1.1**	2.0	1.3	1.1	1.9	1.2	1.0	0.4	0.3	0.4	1.1	1.3	1.4				**0.5**
Total Hardness (3), (4), (5)	mg/L	136	94	**107**	106	100	102	120	136	116	102	94	96	101	108	108				**12**
Total Alkalinity (3)	mg/L	98	80	**87**	88	84	86	98	94	86	84	80	82	86	84	92				**5**
Carbonate Alkalinity (3)	mg/L	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0				**0**
Bi-Carbonate Alkalinity (3)	mg/L	97	77	**85**	87	83	85	97	93	85	80	77	79	85	83	91				**6**
Non-Carbonate Hardness (3)	mg/L	42	14	**20**	18	16	16	22	42	30	18	14	14	15	24	16				**8**
Chemical Oxygen Demand	mg/L	12.1	2.3	**5.0**	5.3	2.3	4.7	5.3	6.7	5.3	12.1	3.6	3.2	5.7	3.6	2.4			*2*	**2.6**
Dissolved Oxygen	mg/L	16.9	7.1	**12.5**	15.3	15.7	16.9	14.9	12.4	9.0	11.5	7.1	AE	11.3	12.6	11.3				**3.0**
Nitrite Nitrogen	mg/L	ND	ND	**0.0**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	*1*		*0.1*	
Nitrate Nitrogen	mg/L	1.23	0.19	**0.43**	0.41	0.41	0.37	1.23	0.73	0.36	0.32	0.19	0.25	0.25	0.32	0.30	*10*	*10*	*0.1*	**0.29**
Fluoride	mg/L	0.14	0.08	**0.09**	0.08	0.10	0.08	0.09	0.08	0.09	0.08	0.08	0.08	0.10	0.14	0.11	*4*		*0.5*	**0.02**
pH		8.66	7.95	**8.25**	7.95	8.12	8.20	8.02	8.19	8.22	8.66	8.65	8.61	8.17	8.09	8.11	*6.5-8.5*	*6.5-8.5*		**0.25**
Specific Conductance @ 25 °C.	µmhos	243	157	**217**	224	225	225	241	243	217	214	211	214	194	157	237				**23**
Temperature	°C	26.4	2.7	**13.3**	2.9	2.7	3.9	8.0	14.6	18.2	25.0	26.4	22.0	18.5	12.0	5.2				**8.7**

Legend	Notes:
MCL: Maximum Contaminant Level	(1) Turbidity must not exceed 0.3 NTU in 95% of daily samples in any month
Sec.Std: Secondary Standard	(2) EPA Guidance Level
NTU: Nephelometric Turbidity Unit	(3) As Calcium Carbonate
mg/L: Milligram Per Liter (ppm)	(4) By Titration
AL: Action Level	(5) Tap Water Hardnessin in Grains per Gallon multiply value by 0.058 (Grains/Gallon)/(mg/L) -->
RL: Reporting Limit	(6) Reported results are below the low calibration standard but above the instrument detection limit
< : Less than	NA = Not available
AE: Analytical Error	ND = Not detected above the reporting limit
IN: Invalid Sample	

Maximum	Minimum	Average	
7.9	5.5	6.2	GPG

Modified: 02/17/2026, 15:21

Chemist II: Patrick Williford