

City of Norfolk

Water Quality Analysis

This report covers the 3rd Quarter of 2024

Wednesday, June 11, 2025

Moores Bridges Plant

Primary Regulated Compounds

These are compounds for which there are actual limits called Maximum Contaminant Levels, or MCLs. The MCL is the highest level of a contaminant that is allowed in drinking water. The Environmental Protection Agency establishes these levels based on health effects research.

Compound	Result			MCL	Method
1,1,1-Trichloroethane	<	0.5	ug/L	200 ug/L	EPA 524.2
1,1,2-Trichloroethane	<	0.5	ug/L	5 ug/L	EPA 524.2
1,1-Dichloroethylene	<	0.5	ug/L	7 ug/L	EPA 524.2
1,2,4-Trichlorobenzene	<	0.5	ug/L	70 ug/L	EPA 524.2
1,2-Dichloroethane	<	0.5	ug/L	5 ug/L	EPA 524.2
1,2-Dichloropropane	<	0.5	ug/L	5 ug/L	EPA 524.2
2,3,7,8-TCDD	<	4.9	pg/L	30 pg/L	EPA 1613B
2,4,5-TP	<	0.2	ug/L	50 ug/L	EPA 515.4
2,4-D	<	0.1	ug/L	70 ug/L	EPA 515.4
Alachlor	<	0.099	ug/L	2 ug/L	EPA 505
Antimony	<	0.002	mg/L	0.006 mg/L	EPA 200.8
Arsenic	<	0.002	mg/L	0.010 mg/L	EPA 200.8
Atrazine	<	0.048	ug/L	3 ug/L	EPA 525.2
Barium		0.035	mg/L	2 mg/L	EPA 200.8
Benzene	<	0.5	ug/L	5 ug/L	EPA 524.2
Benzo(a)pyrene	<	0.019	ug/L	0.2 ug/L	EPA 525.2
Beryllium	<	0.002	mg/L	0.004 mg/L	EPA 200.8
Cadmium	<	0.002	mg/L	0.005 mg/L	EPA 200.8
Carbofuran	<	0.5	ug/L	40 ug/L	EPA 531.2
Carbon Tetrachloride	<	0.5	ug/L	5 ug/L	EPA 524.2
Chlordane	<	0.099	ug/L	2 ug/L	EPA 505
Chlorobenzene	<	0.5	ug/L	100 ug/L	EPA 524.2
Chromium	<	0.002	mg/L	0.1 mg/L	EPA 200.8
cis-1,2-Dichloroethylene	<	0.5	ug/L	70 ug/L	EPA 524.2
Copper	<	0.025	mg/L	1.3 mg/L	EPA 200.8
Dalapon	<	1	ug/L	200 ug/L	EPA 515.4
Di(2-ethylhexyl)adipate	<	0.58	ug/L	400 ug/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<	0.58	ug/L	6 ug/L	EPA 525.2
Dibromochloropropane	<	0.01	ug/L	0.2 ug/L	EPA 504.1
Dichloromethane	<	0.5	ug/L	5 ug/L	EPA 524.2
Dinoseb	<	0.2	ug/L	7 ug/L	EPA 515.4
Diquat	<	0.4	ug/L	20 ug/L	EPA 549.2
Endothall	<	5	ug/L	100 ug/L	EPA 548.1
Endrin	<	0.0099	ug/L	2 ug/L	EPA 505
Ethylbenzene	<	0.5	ug/L	700 ug/L	EPA 524.2
Ethylene dibromide	<	0.01	ug/L	0.05 ug/L	EPA 504.1
Glyphosate	<	6	ug/L	700 ug/L	EPA 547
HAA5 Compliance		26.3	ug/L	60 ug/L	SM 6251B
Heptachlor	<	0.0099	ug/L	0.4 ug/L	EPA 505
Heptachlor epoxide	<	0.0099	ug/L	0.2 ug/L	EPA 505
Hexachlorobenzene	<	0.048	ug/L	1 ug/L	EPA 525.2
Hexachlorocyclopentadiene	<	0.048	ug/L	50 ug/L	EPA 525.2

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Lead	<	0.0025	mg/L	0.015 mg/L	EPA 200.8
Lindane	<	0.0099	ug/L	0.2 ug/L	EPA 505
Mercury	<	0.0002	Mg/L	0.002 mg/L	EPA 200.8
Methoxychlor	<	0.05	ug/L	40 ug/L	EPA 505
o-Dichlorobenzene	<	0.5	ug/L	600 ug/L	EPA 524.2
Oxamyl	<	0.5	ug/L	200 ug/L	EPA 531.2
PCB 1016	<	0.07	ug/L	0.5 ug/L	EPA 505
PCB 1221	<	0.099	ug/L	0.5 ug/L	EPA 505
PCB 1232	<	0.099	ug/L	0.5 ug/L	EPA 505
PCB 1242	<	0.099	ug/L	0.5 ug/L	EPA 505
PCB 1248	<	0.099	ug/L	0.5 ug/L	EPA 505
PCB 1254	<	0.099	ug/L	0.5 ug/L	EPA 505
PCB 1260	<	0.07	ug/L	0.5 ug/L	EPA 505
p-Dichlorobenzene	<	0.5	ug/L	75 ug/L	EPA 524.2
Pentachlorophenol	<	0.04	ug/L	1 ug/L	EPA 515.4
Picloram	<	0.1	ug/L	500 ug/L	EPA 515.4
Selenium	<	0.002	mg/L	0.05 mg/L	EPA 200.8
Simazine	<	0.048	ug/L	4 ug/L	EPA 525.2
Styrene	<	0.5	ug/L	100 ug/L	EPA 524.2
Tetrachloroethylene	<	0.5	ug/L	5 ug/L	EPA 524.2
Thallium	<	0.002	mg/L	0.002 mg/L	EPA 200.8
Toluene	<	0.5	ug/L	1,000 ug/L	EPA 524.2
Toxaphene	<	0.5	ug/L	3 ug/L	EPA 505
trans-1,2-Dichloroethylene	<	0.5	ug/L	100 ug/L	EPA 524.2
Trichloroethylene	<	0.5	ug/L	5 ug/L	EPA 524.2
TTHM Compliance		42.9	ug/L	80 ug/L	EPA 524.2
Vinyl Chloride	<	0.3	ug/L	2 ug/L	EPA 524.2

Secondary Regulated Compounds

These compounds have no health significance, but can cause tastes or odors in your water. For this reason, secondary limits called Secondary Maximum Contaminant Levels (SMCLs) have been established. Exceeding these standards does not mean that the water is unhealthy, only that it might taste or smell unusual.

Compound	Result	SMCL	Method
Aluminum	0.023 mg/L	0.05-0.2 mg/L	EPA 200.8
Chloride	15 mg/L	250 mg/L	EPA 300.0
Foaming Agents	< 0.1 mg/L	0.5 mg/L	HACH TNT 874
Iron	< 0.01 mg/L	0.3 mg/L	EPA 200.8
Langelier Index	-0.88 LANG	Noncorrosive	Calculated
Manganese	< 0.003 mg/L	0.05 mg/L	EPA 200.8
Silver	< 0.002 mg/L	0.1 mg/L	EPA 200.8
Solids, Total Dissolved	117 mg/L	500 mg/L	SM 2540 C
Zinc	0.151 mg/L	5 mg/L	EPA 200.8

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Compounds and Physical Characteristics of Interest

These water quality parameters are not regulated, but are frequently requested by customers.

Compound	Result	Method
Hardness, gr/Gal	3.2 gr/Gal	Calculated
Potassium	2.593 mg/L	EPA 200.8
Silica	6.5 mg/L	EPA 200.7
Sodium	14.07 mg/L	EPA 200.8
Solids, Total	125 mg/L	SM 2540 B
Solids, Volatile	18.7 mg/L	SM 2540 E
Temperature, C	28.9 °C	CALCULATED

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Additional Unregulated Compounds

Although we are not required to monitor for the following compounds, we include them in order to evaluate compliance with future regulations.

Compound	Result	Method
Boron	< 0.05 mg/L	EPA 200.7
Molybdenum	< 0.002 mg/L	EPA 200.8
Nickel	< 0.002 mg/L	EPA 200.8
Vanadium	< 0.002 mg/L	EPA 200.8

Samples collected on:8/13/2024

Location: Moores Bridges Water Treatment Plant Effluent

Notes of Interest:

1. The MCLs for Lead and Copper, the "action levels," are measured at the 90th percentile of all samples collected.
2. THMs and HAAs are based on a four quarter running average of eight locations throughout Norfolk.
3. Water treatment plant is on a reduced monitoring schedule as of Quarter 3 2021.

For questions concerning this report, please call the Division of Water Quality's Laboratory at 441-5678, Monday thru Friday 8:00am to 4:00pm.

Rachel Pleuthner

Senior Water Chemist, Data Quality Analyst

Victoria Smith

Water Quality Manager

<http://www.epa.gov/safewater/mcl.html>