City of River Rouge 2022 Annual Water Quality Report

City of River Rouge, 10600 West Jefferson Avenue, River Rouge, Michigan 48218

The purpose of this report is to provide you with information about your drinking water. The report explains to you where your water comes from and the treatment it receives before it reaches your tap. The report also lists all the contaminants detected in your water and an explanation of all the violations in the past year.

The City of River Rouge receives its drinking water from the Great Lakes Water Authority (GLWA), Southwest Treatment Plant, located in Allen Park and the Springwell Plant located in Dearborn Heights. Water treated at the plants is drawn from the Detroit River. The water flows to the plants by gravity through a large water tunnel.

The treatment process begins with disinfecting the source water with chlorine to kill harmful microorganisms that can cause illness. Next, a chemical called Alum is mixed with the water to remove the fine particles that make the water cloudy or turbid. Alum causes the particles to clump together and settle to the bottom. Fluoride also is added to protect our teeth from cavities.

The water then flows through several sand filters to remove even more particles and certain microorganisms that are resistant to chlorine. Finally, a small amount of phosphoric acid and chlorine are added. The phosphoric acid helps control the lead that may dissolve in water from household plumbing systems. The chlorine keeps the water disinfected as it travels through the mains to your home.

The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land, or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Organic chemicals contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can come from gas stations, urban storm water runoff and septic systems.
- Radioactive contaminants, which are naturally occurring or can be the result of oil and gas production and mining activities.
- Pesticides and herbicides, which may come from a variety of sources, such as agriculture, urban storm water runoff and residential uses.

Drinking water quality is important to our community and the region The City of River Rouge and the Great Lakes Water Authority (GLWA) are committed to meeting state and federal water quality standards including the Lead and Copper Rule. With the Great Lakes as our water source and proven treatment technologies, the GLWA consistently delivers safe drinking water to our community. River Rouge operates the system of water mains that carry this water to your

home service line. This year's Water Quality Report highlights the performance of GLWA and River Rouge water professionals in delivering some of the nation's

We invite public participation in decisions that affect drinking water quality. The City of River Rouge Council Meetings are held on the first and third Tuesdays of each month at River Rouge City Hall located at 10600 W. Jefferson Avenue, River Rouge, MI 48218. For more information about your water or the contents of this report, contact the River Rouge Water Department at 313-842-4803. For more information about safe drinking water, visit the US Environmental Protection Agency at www.epa.gov/safewater.

best drinking water. Together, we remain committed to protecting public health and maintaining open communication with the public about our drinking water.

In order to ensure that tap water is safe, the US Environmental Protection Agency (EPA) prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about the contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. These include immune-compromised persons, such as those with cancer undergoing chemotherapy, those who have undergone organ transplants, or those with HIV/AIDS or other immune system disorders. Also, some elderly residents and infants can be particularly at risk for infections. These people should seek advice about drinking water from their health care providers. The EPA/CDC guidelines on appropriate means to lessen the risk of the infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Detroit River Intakes

Your source water comes from the Detroit River, situated within the Lake St. Clair, Clinton River, Detroit River, Rouge River, Ecorse River watersheds in the U.S. and parts of the Thames River, Littler River, Turkey Creek, and Sydenham watersheds in Canada. The Michigan Department of Environmental Quality, in partnership with the U.S. geological Survey, Detroit Water & Sewerage Department, and the Michigan Public Health Institute performed a source water assessment in 2004 to determine the susceptibility of GLWA's Detroit River source water for potential contamination. The susceptibility rating is based on a seven-tiered scale and ranges from "very low" to "very high", determined primarily using geologic sensitivity, water chemistry and potential contaminant sources. The report described GLWA's Detroit River intakes as highly susceptible to potential contamination. However, all four Detroit water treatment plants that service the City of Detroit

and draw water from the Detroit River have historically provided satisfactory treatment and meet drinking water standards.

GLWA has initiated source-water protection activities that include chemical containment, spill response, and a mercury reduction program. GLWA participates in a National Pollutant Discharge Elimination System permit discharge program and has an emergency response management plan. In 2016, the Michigan Department of Environmental Quality approved the GLWA Surface Water Intake Protection Program Plan. The programs include seven elements that include the following: roles and duties of government units and water supply agencies, delineation of a source water protection areas, identification of potential sources of contamination, management approaches for protection, contingency plans, siting of new water sources, public participation and public education activities. If you would like to know more information about the Source Water Assessment report, please, contact GLWA at 313-926-8102.

Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. Although filtration removes Cryptosporidium, the most commonly used filtration methods cannot guarantee 100 percent removal. Our monitoring indicates the presence of these organisms in our source water.

Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks.

However, immuno-compromised people, infants and small children, and the elderly are at greater risk of developing life-threatening illness. We encourage immuno- compromised individuals to consult their doctor regarding appropriate precautions.

Great Lakes Water Authority voluntarily monitors for Cryptosporidium and Giardia in our untreated source water monthly. Systems using surface water like GLWA must provide treatment so that 99.9 percent of Giardia lamblia is removed or inactivated.

Unregulated contaminants are those for which EPA has not established drinking water standards. Monitoring helps EPA to determine where certain contaminants occur and whether it needs to regulate those (UCMR2).

KEY TO DETECTED CONTAMINANTS TABLES

Symbol	Abbreviation for	Definition/Explanation
MCLG	Maximum Contaminant Level Goal	The level of contaminant in drinking water below which there is no known or expected risk to health.
MCL	Maximum Contaminant Level	The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible, using the best available treatment technology.
MRDLG	Maximum Residual Disinfectant Level Goal	The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbials.
MRDL	Maximum Residual Disinfectant Level	The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
ppb	Parts per billion (one in one billion)	The ppb is equivalent to micrograms per liter. A microgram = 1/1000 milligram.
ppm	Parts per million (one in one million)	The ppm is equivalent to milligrams per liter. A milligram = $1/1000$ gram.
LRAA	Locational Running Annual Average	The average of analytical results for samples at a particular monitoring location during the previous four quarters
RAA	Running Annual Average	The average of analytical results for all samples during the previous four quarters.
SMCL	Secondary Maximum Containment Level	An MCL which involves a biological, chemical or physical characteristic of water that may adversely affect the taste, odor, color or appearance (aesthetics), which may thereby affect public confidence or acceptance of the drinking water.
NTU	Nephelometric Turbidity Units	Measures the cloudiness of water.
ND	Not Detected	
TT	Treatment Technique	A required process intended to reduce the level of a contaminant in drinking water.
AL	Action Level	The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements that a water system must follow.
HAA5	Haloacetic acids	HAA5 is the total of bromaecetic, chloroacetic, dibromoacetic, dichloroacetic and trichloroacetic acids. Compliance is based on the total.
Level 1	Level 1 Assessment	A level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in the water system.
Level 2	Level 2 Assessment	A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
TTHM	Total Trihalomethanes	Total Trihalomethanes is the sum of chloroform, bromodichloromethane, dibromochloromethane and bromoform. Compliance is based on the total.
pCi/L	Picocuries per liter	A measure of radioactivity
n/a	Not applicable	
µohms	Micromhos	Measure of electrical conductance of water
°C	Celsius	A scale of temperature in which water freezes at 0 degrees and boils at 100 degrees under standard conditions
>	Greater than	

contaminants. Beginning in July of 2008, the Detroit Water and Sewerage Department (DWSD) began monitoring quarterly for unregulated contaminants under the Unregulated Contaminant Monitoring Rule 2.

Water Quality Data

Your drinking water is continuously monitored above and beyond Federal and State laws. Monitoring frequencies vary by parameter, so some of the test dates for the results are a few years old because it is the most recent information. In addition, monitoring must be performed by the individual community. The community-specific information is presented in a separate table above. The following tables show all the contaminants that were detected in your water.

Your drinking water met all the State and EPA monitoring and reporting requirements for 2018. Not listed are the hundreds of other contaminants tested for, but not found in your water.

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community, as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water.

Lead and Copper Testing

It is estimated there are approximately 3025 lead services in River Rouge. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of River Rouge is responsible for providing high-quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using the water for drinking or cooking. If you have a lead service line it is recommended that you run your water for at least 5 minutes to flush water from both your home plumbing and the lead service lead. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure are available from the Safe Drinking Water Hotline at 1-800-426-4791 or at http://water.epa.gov/drink/info/lead.

Safe drinking water is a shared responsibility. The water that GLWA delivers to our community does not contain lead. Lead can leach into drinking water through home plumbing fixtures and in some cases, customer service lines. Corrosion control reduces the risk of lead and copper leaching into your water. Orthophosphates are added during the treatment process as a corrosion control method to create a protective coating in service pipes throughout the system, including in your home or business. The City of River Rouge performs required lead and copper sampling and testing in our community. Water consumers also have a responsibility to maintain the plumbing in their homes and businesses and can take steps to limit their exposure to lead.

Public Participation

Each and every month the Great Lakes Water Authority Board meet at the Water Board Building at 735 Randolph Street, Detroit, Michigan 48226. These meetings as well as public hearings are open to the public. To confirm the dates and times of the GLWA meetings residents are encouraged to visit the GLWA website at <u>www.glwater.org</u>.

The City of River Rouge and the Great Lakes Water Authority is committed to safeguarding our water supply and delivering the highest quality drinking water to protect public health. Please contact us with any questions or concerns about your water.

2022 Southwest Regulated Detected Contaminants Table

2022 Inorganic Che	mic	cals - Anr	nual M	onitoring	j at Plant	Finished T	ар			
Regulated Contaminant	Те	est Date	Unit	Health Goal MCLG	Allowed Level MCL	Highest Level Detected	Range Detectio	of Violati on n	^o Major Sources in Drinking Water	
Fluoride	7-	12-2022	ppm	4	4	0.71	n/a	no	Erosion of natural deposit; Water additive, which promotes strong teeth; Discharge from fertilizer and aluminum factories.	
Nitrate	7-1:	2-2022	ppm	10	10	0.82	n/a	no	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	
Barium	5-1	16-2017	ppm	2	2	0.01	n/a	no	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.	
2022 Disinfection R	lesi	dual - Mo	nitoriı	ng in the	Distributi	ion Systen	า			
Regulated Contaminant		Test Date	Unit	Health Goal MRDL G	Allowed Level MRDL	Highest Level RAA	Range Quarter Result	of ly s	i Major Sources in Drinking Water	
Total Chlorine Residu	Total Chlorine Residual 2022		ppm	4	4	0.61	0.51-0.7	0 no	Water additive used to control microbes	
2022 Disinfection B	By-P	roducts ·	Stage	e 2 Disin	fection By	-Products	Monitori	ng in the D	istribution System	
Regulated Contaminant	Regulated Test Contaminant Date		Unit	Health Goal MCLG	Allowed Level MCL	Highest Level LRAA	Range Quarter Result	of ly s	Major Sources in Drinking Water	
(TTHM) Total Trihalomethane	s	2022	ppb	n/a	80	30 ppb	0-30 pp	b no	By-product of drinking water chlorination	
(HAA5) Haloacetic Acids		2022	ppb	n/a 60 9.3 ppb 0-9.3 ppb no			By-product of drinking water chlorination			
2022 Turbidity - Mo	nito	ored Ever	y 4 Ho	ours at th	e Plant Fi	inished Wa	ater Tap			
Highest Sing Measurement C Exceed 1 N	gle anr ΓU	not	Lowest Monthly % of Samples Meeting Turbidity Limit of 0.3 NTU (minimum 95%) n					^o Major Sources in Drinking Water		
0.14 NTU					100%	6		no	Soil Runoff	
Turbidity has no hea growth. Turbidity ma and parasites that ca	lth e y in an c	effects. Ho dicate the ause sym	prese prese ptoms	r, turbidity nce of dis such as i	r can interf sease-caus nausea, cr	ere with dis sing organi amps, diar	sinfection sms. Thes rhea, and	and provide se organism associated	a medium for microbial is include bacteria, viruses, headaches.	
Regulated Cont	ami	inant			Treatm	ent Techn	ique		Typical Source of Contaminant	
Total Organic Carbo	The To the rat remov and be remov	otal Organ io betwee al requirer ecause the al.	ic Carbon (n the actual nents. The e level is lov	TOC) remov TOC remov TOC is mea v, there is no	val ratio is c val and the asured eacl o requireme	alculated as TOC n quarter ent for TOC	Erosion of natural deposits			
Radionuclides - Mo	onit	ored at th	ne Plai	nt Finish	ed Tap in	2014				
Regulated		Test	Uni	t MCL	.G MCI	Le	vel	Violation	Major Sources in Drinking Water	
Contaminant Combined Radium	+	Date				Dete	ected			
Radium 226 and 228	!	5-13-14	pCi/L	0	5	0.65	<u>+</u> 0.54	no	Erosion of natural deposits	
2022 Microbiological	Cont	2022 Microbiological Contaminants - Monthly Monitoring in Distribution System								

Regulated Contaminant		MCL, MRD	TT, L	MCGL MRDL	L or Level Range Year Sampled Violation		olation	Typical source of contaminant						
Total Coliform # or % po samples	sitive	TT		0		N/D	>0	20	22		no	Naturally present in the environment		
E. coli in the distribution (positive samples)	system	See no	ote 2	0		N/D	>0	20	22		no	Naturally present in the environment		
Fecal indicator-E. co source (positive sam	li at ples)	TT		0		N/D	>0	20	22		no	Naturally present in the environment		
Lead and Cop	per Mo	nitori	ing at	the Cu	ustom	ner's Ta	ap in 2	022						
Regulated Contaminant	Test Date	Unit	Heal Goa MCL	th Ad I L G	ction evel AL	90 Perce Valu	th entile Je*	tile e* Number Rational of Samples Samples Number Rational Samples		e of Iual Ies Its	Violati on	Major Sources in Drinking Water		
Lead	2022	ppb	0		15	7 p	pb	0	0 – 1 ppt	3	no	Lead services lines, corrosion of household, plumbing including fittings and fixtures; erosion of natural deposits"		
Copper	2022	ppm	1.3		1.3	.01 p	pm	0	0.0 – ppn	1.0 n	no	Corrosion of household plumbing system; Erosion of natural deposits.		
* The 90 th percentile value means 90 percent of the homes tested have lead and copper levels below the given 90 th percentile value. If the 90 th percentile value is above the AL additional requirements must be met. ^[2] <i>E. coli</i> MCL violation occurs if: (1) routine and repeat samples are total coliform-positive and either is <i>E. coli</i> -positive, or (2) the supply fails to take all required repeat samples following <i>E. coli</i> -positive routine sample, or (3) the supply fails to analyze total coliform-positive repeat sample for <i>E. coli</i> . Springwell's plant incurred a treatment violation regarding filter profiling.							ne given 90 th percentile value. If the 90 th samples following <i>E. coli</i> -positive routine sample, or (3) the supply							
2022 Special	Monito	oring												
Contamina	nt	Test	Date	Uni	t N	ICLG	MCI	- High	est Leve	l Det	tected	Source of Contaminant		
Sodium		7-12-2	2022	ppm	n	n/a	n/a		6.2		6.2			Erosion of natural deposits

These tables are based on tests conducted by GLWA in the year 2022 or the most recent testing done within the last five calendar years. GLWA conducts tests throughout the year only tests that show the presence of a substance or require special monitoring are presented in these tables. The State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. All of the data is representative of the water quality, but some are more than one year old.

Unregulated Contaminant Monitoring Rule - Unregulated contaminants are those for which the Environmental Protection Agency (EPA) has not established drinking water standards. The purpose of unregulated monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

Unregulated Contaminant	Test Date	Unit	Highest Level Detected	SMCL	Range of Detection	Noticeable Effects above the SMCL	Major Sources in Drinking Water
Manganese	2019	ppb	0.48	50	0.0-0.48	black to brown color; black staining; bitter metallic taste	Erosion of natural deposits and corrosion of iron pipes

These tables are based on tests conducted by GLWA in the year 2019 or the most recent testing done within the last five calendar years. GLWA conducts tests throughout the year only tests that show the presence of a substance or require special monitoring are presented in these tables.

Springwell's Water Treatment Plant 2022 Regulated Detected Contaminants Tables

2022 Inorganic Che	micals	- Ar	nnual N	lonitoring	g at Plant	Finished T	ар		
Regulated Contaminant	Test Date	t Ə	Unit	Health Goal MCLG	Allowed Level MCL	Highest Level Detected	Range of Detection	Violation	Major Sources in Drinking Water
Fluoride	4-13-20)22	ppm	4	4	0.60	n/a	no	Erosion of natural deposit; Water additive, which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate	4-13-20	022	ppm	10	10	0.54	n/a	no	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Barium	5-16-20	017	ppm	2	2	0.01	n/a	no	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
2022 Disinfection R	esidua	al - M	lonitor	ing in the	Distributi	ion System	n	L	
Regulated Contaminant	Te Da	est ate	Unit	Health Goal MRDLG	Allowed Level MRDL	Highest Level RAA	Range of Quarterly Results	Violation	Major Sources in Drinking Water
Total Chlorine Residual)22	ppm	4	4	0.67	0.61-0.73	no	Water additive used to control microbes
2022 Disinfection B	y-Prod	lucts	s - Stag	ge 2 Disin	fection By	/-Products	Monitoring	in the Dist	ribution System
Regulated Contaminant	T D	Test Date		Health Goal MCLG	Allowed Level MCL	Highest Level LRAA	Range of Quarterly Results	Violation	Major Sources in Drinking Water
(TTHM) Total Trihalomethane	20 s	022	ppb	n/a	80	30 ppb	0 – 30 ppb	no	By-product of drinking water chlorination
(HAA5) Haloacetic Acids	20	022	ppb	n/a	60	9.3 ppb	0 – 9.3 ppb	no	By-product of drinking water chlorination
2022 Turbidity - Mo	nitored	d Eve	ery 4 H	lours at th	ne Plant Fi	inished Wa	iter Tap		
Highest Sing Measurement C Exceed 1 N	gle annot ſU		Lo Turi	owest Mor bidity Lim	nthly % of hit of 0.3 N	Samples I ITU (minim	Meeting um 95%)	Violation	Major Sources in Drinking Water
0.25 NTU					100%	6		no	Soil Runoff
Turbidity has no hea growth. Turbidity ma and parasites that ca	lth effeo y indica an caus	cts. H ate th <u>e s</u> yr	Howeve ne pres mptom	er, turbidity ence of dis <u>s suc</u> h as	/ can interf sease-cau <u>naus</u> ea, cr	fere with dis sing organi <u>amps</u> , diar	sinfection and sms. These o <u>rhea, a</u> nd ass	provide a rganisms ir	medium for microbial nclude bacteria, viruses, adaches.
Regulated Conta	aminan	t			Treatme	ent Technic	que		Typical Source of Contaminant
Total Organic Carbon	ı ppm		The To the rati require the lev	otal Organic io between ements. Th el is low, th	Carbon (T the actual T e TOC is m ere is no re	OC) removal FOC remova easured eac quirement fo	ated as removal because	Erosion of natural deposits	

Lead and Cop	oper Mo	onitori	ing at the	e Custon	ner's Ta	ıp in 20	22				
Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Action Level AL	90 ^t Perce Valu	ntile Ie*	Number of Samples Over AL	Range of Individual Samples Results	Violation	Major Sources in Drinking Water	
Lead	2022	ppb	0	15	7 pr	7 ppb 1		0 -13 ppb	no	Lead services lines, corrosion of household, plumbing including fittings and fixtures; erosion of natural deposits"	
Copper	2022	ppm	1.3	1.3	.1 pr	om	0	.0 - 0 .1 ppm	no	Corrosion of household plumbing system; Erosion of natural deposits; leaching from wood preservatives.	
* The 90 th perce percentile value	ntile val is abov	ue mea e the A	ans 90 per L addition	cent of the al requirer	e homes t nents mu	tested ha	ave lead ar et.	id copper level	ls below the	given 90 th percentile value. If the 90 th	
2022 Special	2022 Special Monitoring										
Contamina	int	Test	Date L	Jnit M	CLG	MCL	Highe	st Level Det	ected	Source of Contaminant	
Sodium		7-12-2	022 p	pm	n/a	n/a	5.6 Erosion of natural deposits				

These tables are based on tests conducted by GLWA in the year 2021 or the most recent testing done within the last five calendar years. GLWA conducts tests throughout the year only tests that show the presence of a substance or require special monitoring are presented in these tables. The State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. All of the data is representative of the water quality, but some are more than one year old.

These tables are based on tests conducted by GLWA in the year 2021 or the most recent testing done within the last five calendar years. GLWA conducts tests throughout the year only tests that show the presence of a substance or require special monitoring are presented in these tables.

CITY OF RIVER ROUGE AND GREAT LAKES WATER AUTHORITY (GLWA) FACTS

The City of River Rouge is the oldest community water system that receives its water from the Great Lakes Water Authority. River Rouge has been a customer of DWSD/GLWA since 1900. The City of Hamtramck and the City of Ecorse rank as the second and third oldest customers of the Great Lakes Water Authority/DWSD. The City of Ecorse became a customer of the City of Detroit in 1904, four years after the City of River Rouge.

You can save hundreds or even thousands of gallons of water each day by making adjustments in your daily routines. Install a faucet aerator to save 1 to 3 gallons of water per minute of use. A low-flow showerhead can save you 10 gallons of water per minute which is an average of about 20,000 gallons per year. Watch for any drips in faucets. A running toilet can waste up to 74,000 gallons of water in just 3 months.

If you see any suspicious activity around the water system or fire hydrants you should contact the City of River Rouge Water Department at 313-842-4803 during normal business hours, the River Rouge Police Department 24 hours a day and 7 days a week or dial 911.

This report contains important information about your drinking water. Have someone translate it for you or speak with someone who understands it.

2022 Springwell's Tap Water Mineral Analysis

Parameter	Units	Max.	Min.	Avg.	Parameter	Units	Max.	Min.	Avg.
Turbidity	NTU	0.08	0.02	0.04	Phosphorus	ppm	0.87	0.42	0.53
Total Solids	ppm	166	114	141	Free Carbon Dioxide	ppm	13.6	6.5	10.1
Total Dissolved Solids	ppm	169	105	134	Total Hardness	ppm	112	76	92
Aluminum	ppm	0.071	0.014	0.030	Total Alkalinity	ppm	86	70	75
Iron	ppm	0.5	0.2	0.3	Carbonate Alkalinity	ppm	nd	nd	nd
Copper	ppm	0.002	ND	0.000	Bi-Carbonate Alkalinity	ppm	86	70	75
Magnesium	ppm	8.5	7.3	7.7	Non-Carbonate Hardness	ppm	42	2	17
Calcium	ppm	28.0	24.9	26.2	Chemical Oxygen Demand	ppm	12.0	ND	3.9
Sodium	ppm	7.1	4.9	5.3	Dissolved Oxygen	ppm	16.5	3.4	11.2
Potassium	ppm	1.1	0.9	1.0	Nitrite Nitrogen	ppm	ND	ND	0.0
Manganese	ppm	0.001	ND	0.000	Nitrate Nitrogen	ppm	0.55	0.26	0.36
Lead	ppm	0.001	ND	0.000	Fluoride	ppm	0.77	0.51	0.58
Zinc	ppm	0.004	ND	0.001	рН		7.33	7.06	7.18
Silica	ppm	2.7	1.6	2.1	Specific Conductance @ 25 °C	µmhos	238	166	215
Sulfate	ppm	32.1	21.7	27.5	Temperature	°C	23.9	2.0	13.0
Chloride	ppm	15.0	8.3	10.7					

2022 Southwest Tap Water Mineral Analysis

Parameter	Units	Max.	Min.	Avg.
Turbidity	NTU	0.23	0.02	0.09
Total Solids	ppm	183	110	145
Total Dissolved Solids	ppm	166	114	139
Aluminum	ppm	0.92	0.020	0.045
Iron	ppm	0.5	0.2	0.3
Copper	ppm	0.001	ND	0.000
Magnesium	ppm	8.3	7.4	7.8
Calcium	ppm	30.2	25.2	26.8
Sodium	ppm	8.1	5.0	5.9
Potassium	ppm	1.3	0.9	1.1
Manganese	ppm	0.001	ND	0.000
Lead	ppm	0.001	ND	0.000
Zinc	ppm	0.003	ND	0.001
Silica	ppm	2.5	1.4	2.0
Sulfate	ppm	33.9	20.2	227.4
Chloride	ppm	18.7	9.4	11.7

	, 010			
Parameter	Units	Max.	Min.	Avg.
Phosphorus	ppm	0.57	0.33	0.45
Free Carbon Dioxide	ppm	10.1	1.0	7.6
Total Hardness	ppm	102	66	94
Total Alkalinity	ppm	90	70	80
Carbonate Alkalinity	ppm	nd	nd	nd
Bi-Carbonate Alkalinity	ppm	90	69	79
Non-Carbonate Hardness	ppm	26	nd	16
Chemical Oxygen Demand	ppm	8.1	ND	3.6
Dissolved Oxygen	ppm	16	7.5	10.9
Nitrite Nitrogen	ppm	ND	ND	Nd
Nitrate Nitrogen	ppm	0.82	0.21	0.43
Fluoride	ppm	0.72	0.53	0.64
рН		8.16	7.20	7.37
Specific Conductance @ 25 °C	µmhos	260	179	216
Temperature	°C	22.9	0.9	11.8