

Patoka Lake Regional Water District

WATER QUALITY DATA 2023

Inorganic Contaminants(2023)

	MCL	D.L.	RESULT
	mg/L	mg/L	mg/L
Antimony	0.006	0.001	BDL
Arsenic	0.01	0.001	BDL
Barium	2	0.002	0.025
Beryllium	0.004	0.0003	BDL
Cadmium	0.005	0.0005	BDL
Chromium	1	0.0009	BDL
Fluoride	4	0.05	0.6
Mercury	0.002	0.0001	BDL
Nickel	0.1	0.001	BDL
Nitrite as N	1	0.01	BDL
Nitrate Nitrite as N	10	0.1	0.1
Nitrate as N	10	0.1	0.1
Selenium	0.05	0.002	BDL
Sodium	No MCL	0.1	2.7
Thallium	0.002	0.0003	BDL

Definitions

"MCL"	means maximum contaminant level
"BDL"	means below detectable limit
"pCi/L"	means picocuries per liter
"D.L."	means detectable limit
"mg/L"	means part per million or milligrams per liter
"NTU"	means nephelometric turbidity unit
"µg/L"	means part per billion or micrograms per liter
"U.C."	means unregulated contaminates
"AL"	Means Action Level
"MDC"	means Minimum Detection Concentration (radioactivity)

Radioactive Contaminants(2023)

	MDC	RESULT
Radium 226-228 2023	0.77	BDL pCi/L
Gross Alpha 2023	1.64	BDL pCi/L

Volatile Organic Contaminants(2023)

	MCL	D.L.	RESULT
	ug/L	ug/L	ug/L
Benzene	5	0.5	BDL
Carbon Tetrachloride	5	0.5	BDL
Chlorobenzene	100	0.5	BDL
1,2-Dichlorobenzene	600	0.5	BDL
1,4-Dichlorobenzene	75	0.5	BDL
1,2-Dichloroethane	5	0.5	BDL
1,1-Dichloroethene	7	0.5	BDL
cis-1,2 Dichloroethylene	70	0.5	BDL
trans-1,2-Dichloroethylene	100	0.5	BDL
Dichloromethane	5	0.5	BDL
1,2-Dichloropropane	5	0.5	BDL
Ethylbenzene	700	0.5	BDL
Styrene	100	0.5	BDL
Tetrachloroethene	5	0.5	BDL
Toluene	1000	0.5	BDL
1,2,4-Trichlorobenzene	70	0.5	BDL
1,1,1-Trichloroethane	200	0.5	BDL
1,1,2-Trichloroethane	5	0.5	BDL
Trichloroethylene	5	0.5	BDL
Vinyl Chloride	2	0.2	BDL
Total Xylenes	10000	0.5	BDL

Synthetic Organic Contaminants(2023)

	MCL	D.L.	RESULT
	ug/L	ug/L	ug/L
Alachlor(Lasso) 2023	2	0.098	BDL
Atrazine 2023	3	0.098	BDL
Benzo(a)pyrene 2023	0.2	0.02	BDL
Carbofuran 2023	40	0.9	BDL
Chlordane(alpha & gamma) 2023	2	0.1	BDL
2,4-D 2023	70	0.1	BDL
Dalapon 2023	200	1	BDL
DBCP 2022	0.2	0.01	BDL
Dinoseb 2023	7	0.1	BDL
2,3,7,8-TCDD(Dioxin) 2023	30 pg/L	5.0 pg/L	BDL
Diquat 2023	20	0.4	BDL
Di(2-ethylhexyl)adipate 2023	400	0.6	BDL
Di(2-ethylhexyl)phthalate 2023	6	0.6	BDL
Endothall 2023	100	9	BDL
Endrin 2023	2	0.01	BDL
Ethylene Dibromide(EDB) 2022	50 ng/L	10 ng/L	BDL
Glyphosate (Round-Up) 2023	700	6	BDL
Heptachlor 2023	0.4	0.04	BDL
Heptachlor Epoxide 2023	0.2	0.02	BDL
Hexachlorobenzene 2023	1	0.1	BDL
Hexachlorocyclopentadiene 2023	50	0.1	BDL
gamma-BHG Lindane 2023	0.2	0.02	BDL
Methoxychlor 2023	40	0.1	BDL
Oxamyl(Vydate) 2023	200	1	BDL
Pentachlorophenol 2023	1	0.04	BDL
Picloram(Tordon) 2023	500	0.1	BDL
PCBs 2022	0.5	0.5	BDL
Simazine 2023	4	0.07	BDL
2,4,5-TP(Silvex) 2022	50	0.1	BDL
Toxaphene 2023	3	1	BDL

	MCL	D.L.	RESULT
TOTAL TRIHalomethanes(4)	80	0.5	38.01
Bromodichloromethane		0.5	4.06
Bromoform		0.5	BDL
Dibromochloromethane		0.5	BDL
Chloroform		0.5	33.95
TOTAL Haloacetic Acids(4)	60	0.05	29.58
Dichloroacetic acid		0.5	14.75
Monochloroacetic acid		0.5	BDL
Trichloroacetic acid		0.5	14.83

Total Organic Carbon (TOC)	MCL	Range	25.3% - 41.6%
Percent Removal TOC	Running	Average<25%	Average
			35.3%

	MCL	RESULT
	µg/L	µg/L
Haloacetic Acids 5 (4)	60	29.7 Average
2023	Range	17.8 43
Total Trihalomethanes(4)	80	38.1 Average
2022	Range	18.7 72.6
	MCL	RESULT
Lead 90th percentile 2023	15 µg/L	6.69 µg/L
Copper 90th percentile 2023	1300 µg/L	430 µg/L

Highest Turbidity Measurement 2023

10/24 -- .24 NTU

PFAS Perfluorinated and Polyfluorinated Alkyl Substances and Perfluorinated Alkyl Acids

Parameter	Result	Detection Limit	Unit
Perfluorobutanoic acid (PFBA)	BDL	0.0049	µg/l
Perfluoropentanoic acid (PFPeA)	BDL	0.0029	µg/l
Perfluorohexanoic acid (PFHxA)	BDL	0.0029	µg/l
Perfluoroheptanoic acid (PFHpA)	BDL	0.0029	µg/l
Perfluorooctanoic acid (PFOA)	BDL	0.0039	µg/l
Perfluorononanoic acid (PFNA)	BDL	0.0039	µg/l
Perfluorodecanoic acid (PFDA)	BDL	0.0029	µg/l
Perfluoroundecanoic acid (PFUnA)	BDL	0.002	µg/l
Perfluorododecanoic acid (PFDoA)	BDL	0.0029	µg/l
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	BDL	0.0029	µg/l
Perfluorobutanesulfonic acid (PFBS)	BDL	0.0029	µg/l
Perfluorohexanesulfonic acid (PFHxS)	BDL	0.0029	µg/l
Perfluoroheptanesulfonic acid (PFHpS)	BDL	0.0029	µg/l
Perfluorooctanesulfonic acid (PFOS)	BDL	0.0039	µg/l
Perfluoropentanesulfonic acid (PFPeS)	BDL	0.0039	µg/l
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	BDL	0.0049	µg/l
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	BDL	0.002	µg/l
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	BDL	0.0049	µg/l
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	BDL	0.0029	µg/l
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	BDL	0.0049	µg/l
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	BDL	0.0049	µg/l
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	BDL	0.0196	µg/l
Perfluoro-3-methoxypropanoic acid (PFMPA)	BDL	0.0039	µg/l
Perfluoro-4-methoxybutanoic acid (PFMBA)	BDL	0.0029	µg/l
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	BDL	0.0059	µg/l
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	BDL	0.0047	µg/l
N-methylperfluorooctanesulfonamidoacetic acid (NMFOSAA)	BDL	0.0056	µg/l
Perfluorotetradecanoic acid (PFTA)	BDL	0.0075	µg/l
Perfluorotridecanoic acid (PFTrDA)	BDL	0.0066	µg/l
Lithium	BDL	9	µg/l