Patoka Lake Regional Water District

WATER QUALITY DATA 2022

Inorganic Contaminants(2022)

	MCL mg/L	D.L. mg/L	RESULT mg/L
Aluminum	No MCL	0.002	99
Antimony	0.006	0.001	BDL
Arsenic	0.01	0.001	BDL
Barium	2	0.002	0.025
Beryllium	0.004	0.0003	BDL
Boron	No MCL	0.005	12
Cadmium	0.005	0.0005	BDL
Calcium	No MCL	0.1	24
Chromium	1	0.0009	BDL
Copper	AL 1.3	0.001	1.1
Cyanide, (Free)	0.2	0.005	0.0054
Fluoride	4	0.05	0.6
Lead	AL .015	0.0005	BDL
Magnesium	No MCL	0.1	3.6
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
Potassium	No MCL	0.2	1.6
Selenium	0.05	0.002	BDL
Silica	No MCL	0.043	1.2
Silver	No MCL	0.0005	8.4
Sodium	No MCL	0.1	2.7
Strontium	No MCL	0.002	0.063
Thallium	0.002	0.0003	BDL

Radioactive Contaminants(2020)

		MCL	RESULT	
Radium-228	2020		.17+.41	pCi/L
Gross Alpha	2020	15	1.7+.9	pCi/L

Synthetic Organic Contaminants(2022)

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

Total Organic Carbon (TOC)		**MCL**		
		25%	Range	26.6% - 37%
Percent Removal TOC	**Running**	**Average<25%**	Average	31.7%

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 microgams per liter

"U.C." means unregulated contaminates

"AL" Means Action Level

Volatile Organic Contaminants(2022)

	MCL ug/L	D.L. ug/L	RESULT 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-Dichloroethylene	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
Hexachlorocyclopentadiene	50	0.096	1.4
Ethylbenzene	700	0.5	BDL
Styrene	100	0.5	BDL
Tetrachloroethylene	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
Methy-T-butyl ether	NO MCL	0.5	BDL
TOTAL TRIHalomethanes(4)	**80**	**0.5**	**41.6**
Bromodichloromethane		0.5	4.55
Bromoform		0.5	BDL
Dibromochlormethane		0.5	.55
Chloroform		0.5	36.44
TOTAL Haloacetic Acids(4)	**60**	**0.05**	35.9
Dichloracetic acid		0.5	19.3
Monorchloracetic acid		0.5	3.1
Trichloracetic acid		0.5	15.6

		MCL µg/L	RESULT µg/L	
Haloacetic Acids 5 (4)		60	35.9	Average
	2022	**Range**	18.7	63.58
Total Trihalomethanes(4)		80	41.7	Average
	2022	**Range**	25.5	63.4

		MCL	RESULT
Lead 90th percentile	**2020**	15ug/L	3.7ug/L
Copper 90th percentile	**2020**	1.3mg/L	0.17mg/L

Highest Turbidity Measurement 2021

9/21 & 12/5 .25 NTU