

Additional Monitoring Data			2020		Vernon Hills
Compound	Results	Units	MCL	Sample Date*	Possible Source of Contaminant
Inorganics					
Arsenic	<1.0	µg/L	10	3.24.20	Erosion from natural deposits
Calcium	35.4	mg/L	n/a	3.27.20	Erosion from limestone or calcium containing rocks
Sodium	13.2	mg/L	n/a	3.27.20	Road salt, water softeners
Sulfate	22.4	mg/L	250	3.20.20	Erosion from soils and rock containing sulfates
Alkalinity	114.0	mg/L	n/a	3.17.20	Calcium carbonate, erosion from limestone or soils with dolomite and calcite
Chloride	22.7	mg/L	250	3.30.20	Road salt, water softeners, naturally occurring
Fluoride	0.591	mg/L	4	3.13.20	Erosion from natural deposits, added in the water treatment process
Total Hardness	144.8	mg/L	n/a	3.20.20	Corrosion of water pipes
Iron	<0.07	mg/L	0.3	3.19.20	Corrosion of iron pipes and iron baring soils
Manganese	<0.03	mg/L	0.05	3.19.20	Natural element in soils
pH	7.9	S.U.	6.5-8.5	3.12.20	Corrosion of water pipes
Zinc	<0.03	mg/L	5	3.19.20	Galvanized surfaces, erosion of natural resources
Organics					
Vinyl Chloride	<0.5	µg/L	0.5	8.27.20	PVC piping, discharge from plastic factories
1,1 Dichloroethene	<0.5	µg/L	0.5	8.27.20	Industrial discharge from chemical and plastic factories
Methylene chloride	<0.5	µg/L	0.5	8.27.20	Industrial solvent, paint stripper
MTBE	<0.5	µg/L	0.5	8.27.20	Leaking underground storage tanks, was used as a fuel additive
trans-1,2-Dichloroethene	<0.5	µg/L	0.5	8.27.20	Industrial discharge from chemical and plastic factories
cis-1,2-Dichloroethene	<0.5	µg/L	0.5	8.27.20	Discharge from industrial chemical factories
1,1,1-Trichloroethane	<0.5	µg/L	0.5	8.27.20	Discharge from metal degreasing sites and other factories
Carbon tetrachloride	<0.5	µg/L	0.5	8.27.20	Discharge from chemical plants and other industrial activities
Benzene	<0.5	µg/L	0.5	8.27.20	Discharge from factories; leaching from gas storage tanks and landfills
1,2-Dichloroethane	<0.5	µg/L	0.5	8.27.20	Discharge from industrial chemical factories
Trichloroethene	<0.5	µg/L	0.5	8.27.20	Discharge from industrial chemical factories
1,2-Dichloropropane	<0.5	µg/L	0.5	8.27.20	Discharge from industrial chemical factories
Toluene	<0.5	µg/L	0.5	8.27.20	Discharge from petroleum factories
Tetrachloroethene	<0.5	µg/L	0.5	8.27.20	Discharge from factories, dry cleaners

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Tetrachloroethene	<0.5	µg/L	0.5	8.27.20	Discharge from factories, dry cleaners
1,1,2-Trichloroethane	<0.5	µg/L	0.5	8.27.20	Discharge from industrial chemical factories
Chlorobenzene	<0.5	µg/L	0.5	8.27.20	Discharge from chemical and agricultural chemical factories
Ethylbenzene	<0.5	µg/L	0.5	8.27.20	Discharge from petroleum refineries
Xylenes	<0.5	µg/L	0.5	8.27.20	Discharge from petroleum refineries and chemical factories
Unregulated Contaminants					
PFOA	<2.0	ng/L	2.0	12.5.19	Manmade chemical to make Teflon
PFOS	<2.0	ng/L	2.0	12.5.19	Fabric protector, manmade fluorosurfactant and global pollutant

mg/L - Parts per Million

µg/L - Parts per Billion

Ng/L - Parts per Trillion