

# WATER QUALITY REPORT – 2021

## for Klines Resort WSSN: 40471, St. Joseph County



This report covers the drinking water quality for Klines Resort, for the calendar year 2020. This information is a snapshot of the quality of the water that we provided to you last year. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards.

Your water comes from four (4) groundwater wells located within the community's boundaries. The State performs routine surveys of our source water to determine the susceptibility or the relative potential of contamination. The susceptibility rating is on a seven-tiered scale from "very-low" to "very high" based primarily on geologic sensitivity, water chemistry and contaminant sources. The susceptibility of our source water is moderate. If you would like to know more about the report or see a copy please contact the office at the number listed at the bottom of this report.

- **Contaminants and their presence in water:** 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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling **EPA's Safe Drinking Water Hotline (800-426-4791)**.
- **Vulnerability of sub-populations:** Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune systems disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial

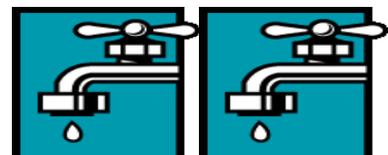
contaminants are available from EPA's Safe Drinking Water Hotline (800-426-4791).

- **Sources of Drinking Water:** The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. Our water comes from 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.
- \* **Pesticides and herbicides**, which may come from a variety of sources such as agriculture and residential uses.
- \* **Radioactive contaminants**, which are naturally occurring.
- \* **Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which provide the same protection for public health.



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The table below lists all the drinking water contaminants that we detected during the 2020 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. 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 is more than one year old.

### Terms and abbreviations used below:

- **Maximum Contaminant Level Goal (MCLG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- **Maximum Contaminant Level (MCL):** 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.
- **Action Level (AL):** The concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.
- **Maximum Residual Disinfectant Level (MRDL):** 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.
- **Maximum Residual Disinfectant Level Goal (MRDLG):** 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 microbial contaminants.
- **N/A:** Not applicable    **ND:** not detectable at testing limit    **ppb:** parts per billion or micrograms per liter  
**ppm:** parts per million or milligrams per liter    **pCi/l:** picocuries per liter (a measure of radiation).

Regulated Contaminant	Unit	MCL	MCLG	Our Water	Range of detections	Sample date	Violation Yes / No	Typical Source of Contaminant
Arsenic	ppb	10	0	<b>7</b>	N/A	3/14/2018	No	Erosion of natural deposits
Barium	ppm	2.0	2.0	<b>0.17</b>	N/A	3/14/2018	No	Erosion of natural deposits
Chlorine*	ppm	<b>MRDL = 4.00</b>	<b>MRDLG = 4.00</b>	<b>0.20</b>	0.10 to 0.31	monthly	No	Water additive used to control microbes
Nitrate	ppm	10	10	<b>0.7</b>	N/A	3/17/2020	No	Runoff from fertilizer
Total Haloacetic Acids	ppb	60	60	<b>1</b>	N/A	7/22/2019	No	By-product of drinking water disinfection
TTHMs -Total Trihalomethanes	ppb	80	N/A	<b>10.7</b>	N/A	7/22/2019	No	By-product of drinking water disinfection
Radiological Contaminants		MCL	MCLG	Our Water	Range	Sample date	Violation Yes / No	Typical Source of Contaminant
Radium 226	pCi/L	5	0	<b>0.34</b>	N/A	2/9/2015	No	Erosion of natural deposits
Radium 228	pCi/L	5	0	<b>0.07</b>	N/A	2/9/2015	No	Erosion of natural deposits
Contaminant Subject to AL	Unit	Action Level	MCLG	90% of Samples ≤ This Level	# of Samples Above AL	Sample date	Violation Yes / No	Typical Source of Contaminant
Copper**	ppm	1.3	1.3	<b>0.1</b>	0.0 – 0.2	7/21/2020	No	Corrosion of household plumbing systems, Erosion of natural deposits.
Unregulated Contaminants***	Unit	MCL	MCLG	Our water	Range of detections	Sample date	Violation	Typical Source of Contaminant
Sodium	ppm	N/A	N/A	<b>10</b>	N/A	3/17/2020	No	Erosion of natural deposits

\* Chlorine was calculated using the running annual average.

\*\* 90 percent of the samples collected were at or below the level reported for our water.

\*\*\* 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 contaminants.

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## IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

### MONITORING REQUIREMENTS NOT MET FOR KLINES RESORT

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During June 1 to June 30, 2020, we did not monitor or test for total coliform bacteria, and therefore cannot be sure of the quality of your drinking water during that time.

**What should we do?** There is nothing you need to do at this time. This is not an emergency. You do not need to boil or use an alternative source of water at this time. Even though this is not an emergency, as our customers, you have a right to know what happened and what we did to correct the situation.

The table below lists the contaminant we did not properly test for, how often we were supposed to sample for this contaminant, how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the date we collected follow-up samples.

Contaminant	Required Sampling Frequency	Number of Samples Taken	When all samples should have been taken	Date additional samples were taken
Total Coliform Bacteria	1 sample per month	0	June 1, 2020 to June 30, 2020	July 1, 2020

**What happened? What is being done?** We inadvertently missed taking a sample within this required period. We are making every effort to ensure this does not happen again. We returned to compliance on July 1, 2020. For more information, please contact Phil Kline at the Klines Resort office: 269-649-2514.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

**Nitrate in drinking water** at levels above 10 ppm is a health risk for infants of age less than six months. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.

**Lead in Drinking Water:** 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. Klines Resort 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 two minutes before using water for drinking or cooking. 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 is available from EPA's Safe Drinking Water Hotline at **1-800-426-4791** or on the USEPA Web site at <http://water.epa.gov/drink/info/lead>.

**About Arsenic:** While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

**Other Contaminants:** In 2020 we conducted tests for a number of other contaminants. All were either not detected or were below regulatory limits for drinking water.

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**PFAS:** In October of 2018, the Michigan PFAS Action Response Team tested the Klines Resort water supply for Per- and Polyfluoroalkyl Substances (PFAS). **The result of this test concluded that PFAS was not detected in the Resort water supply.** For more information on PFAS including possible health outcomes, please visit the Michigan PFAS Action Response Team webpage at [www.michigan.gov/pfasresponse](http://www.michigan.gov/pfasresponse).

### **Is our water system meeting other rules that govern our operations?**

The State and EPA require us to test our water on a regular basis to ensure its safety. In June 2020, we inadvertently missed collecting our monthly coliform bacteria test. During that month, we do not know whether bacteria was present in the water or not, and therefore the health effects are unknown. However, we did collect a sample on July 1, which showed the water to be free from bacteriological contamination. We are making efforts to ensure this does not happen again. All other monitoring and reporting requirements for the year were submitted in a timely manner.

**Water Conservation: In 2020 we pumped 9.3 million gallons of water, which is our highest water use since 2009.** Monthly use ranged from 265,000 gallons in Feb to over 1.95 million gallons in July. From June to Sept we used over a million gallons each month. Less than 50% of the water we pumped entered our sewers. The rest was used on lawns, gardens, and exterior washing or lost through drips and leaks!

The cost of operating and maintaining the water and wastewater systems is included in your rent. These costs represent a significant part of our operating budget and directly affect our rates. **Please do your part to use water wisely and avoid unnecessary rent increases.** Here are a few suggestions:

**IN YOUR HOME:** Maintain your faucets, toilets and other fixtures so they do not drip, leak or run. Run full loads in your dish washer & washing machine. When remodeling, install water saving devices (toilets, shower heads, faucets) and “energy star” rated appliances.

**IN YOUR YARD:** Turn off automatic sprinklers after it has rained or when rain is forecast. Water only when your lawn needs it. A good soaking a couple times a week is plenty. Avoid watering lawns during midday heat. Most of the water will be lost to evaporation! **Aim sprinklers** to avoid wasting water on roads, sidewalks, etc. **At most, water your lawn 3 times per week.** Keeping lawns wet promotes surface tree roots and encourages harmful molds and fungus.

**IN EMERGENCIES:** In a power outage, turn off hoses and sprinklers and limit water use to bare necessities. In case of a water break in your home, turn off water at the crock (or contact us to assist you). In case of fire, a water main break, or during annual flushing a large volume of water will be used. This may cause rusty water in the lines. Stop your laundry immediately and limit water use until the problem is corrected. Then run a cold water tap until water runs clear.

We are committed to supplying you with reliable and healthy water, and we are pleased to provide you with this information to keep you fully informed about your water. We will update this report annually and will also keep you informed of any problems that may occur throughout the year, as they happen. Copies of this report are available at the Klines Resort office, and on the Klines Resort web site [www.klinesresort.com](http://www.klinesresort.com)

For more information about your water, or the contents of this report, please contact:

Phil Kline, Manager, Klines Resort Ltd.  
22260 Klines Resort Rd., Three Rivers, MI 49093  
Telephone: 269-649-2514

For more information about safe drinking water, visit the U.S. Environmental Protection Agency at:  
[www.epa.gov/safewater/](http://www.epa.gov/safewater/)