

**Dear Stickney Water Customer:**

The Village of Stickney, in compliance with the Safe Drinking Water Act (SDWA), is issuing the Consumer Confidence Report (CCR) for the monitoring period of January 1, 2018 through December 31, 2018. The Village of Stickney, in conjunction with the City of Chicago and the Illinois Environmental Protection Agency (IEPA) is providing this report to you that includes important information concerning the quality and source of your drinking water. During 2017, the Village of Stickney continued to provide drinking water that meets the monitoring and testing requirements of the United States Environmental Protection Agency (USEPA) and the Illinois EPA (IEPA).

Further information on our community water supply's Source Water Assessment Program is available by going online to the Illinois EPA (IEPA) Website at <http://dataservices.epa.illinois.gov/swap/factsheet.aspx>, or by contacting the Village Hall at 708-749-4400, or by visiting our web site at <http://www.villageofstickney.com/>. All residents and business owners are also invited to attend the regular scheduled Village Board meetings which are held on the first and third Tuesdays of each month at 7:00 pm at the Village Hall located at 6533 W Pershing Road. If you have any questions regarding this Consumer Confidence Report, please contact Robert Wyant, Water Operator, at (708) 749-4400.

**Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.**

**CONSUMER INFORMATION**

The Village of Stickney tests the water supply for chlorine content daily to maintain the optimum chlorine residual levels. On a monthly basis, bacteriological samples are taken. On a yearly basis, samples are submitted for Total Trihalomethane (TTHM) Analysis. Samples are also provided for lead and copper monitoring on a schedule established by the IEPA. All testing and reports are performed according to the requirements of IEPA.

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 the EPA's Safe Drinking Water Hotline at (800) 426-4791.

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

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 system 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. The EPA and the Center of Disease Control and Prevention (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline.

**Lead:** 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. Lead is not found in the source water. Lead can enter drinking water when service pipes that contain lead corrode, especially where the water has high acidity or low mineral content that corrodes pipes and fixtures. The most common problem is with brass or chrome-plated brass faucets and fixtures with lead solder, from which significant amounts of lead can enter the water, especially hot water. Homes built before 1986 are more likely to have lead pipes, fixtures and solder. The Safe Drinking Water Act (SDWA) has reduced the maximum allowable lead content that is, content that is considered "lead-free" to be a weighted average of 0.25 percent calculated across the wetted surfaces of pipes, pipe fittings, plumbing fittings, and fixtures and 0.2 percent for solder and flux.

The Safe Drinking Water Act requires the EPA to determine the level of contaminants in drinking water at which no adverse health effects are likely to occur with an adequate margin of safety. These non-enforceable health goals, based solely on possible health risks, are called maximum contaminant level goals (MCLGs). The EPA has set the maximum contaminant level goal for lead in drinking water at zero because lead is a toxic metal that can be harmful to human health even at low exposure levels. Lead is persistent, and it can bioaccumulate in the body over time.

**Measures to Reduce Lead in Drinking Water at Home:** Flush your pipes before drinking. 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 water for drinking or cooking. Use only cold water for drinking, cooking, and especially for making baby formula. Hot water is likely to contain higher levels of lead. Run cold water until it becomes as cold as it can get. Note that boiling water will NOT get rid of lead contamination. Bathing and showering should be safe for you and your children, even if the water contains lead over EPA's action level. Human skin does not absorb lead in water. This information applies to most situations and to a large majority of the population, but individual circumstances may vary.

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 the Safe Drinking Water Hotline (800-426-4791) or at <http://www.epa.gov/safewater/lead>.

Source of Drinking Water Contamination: (both tap water 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 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 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, urban storm water runoff and residential users.

Organic Chemical Contaminants: including synthetic and volatile organic chemicals, which are by-products of industrial process and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

Radioactive Contaminants: which can be naturally occurring or be the result of oil and gas production and mining activities.

## **SOURCE WATER ASSESSMENT:**

In 2018, all of the approximately 600 million gallons of water the Village of Stickney distributed came from Lake Michigan. Lake Michigan water is drawn from far offshore structures (known as Cribs) along the bottom of the Lake and treated at the City of Chicago Jardine Water Purification Plant (north of Navy Pier). This water is pumped through large transmission lines to the near Chicago suburbs where it is collected and redistributed. The Village of Stickney purchases this water directly from the City of Chicago and receives this water into our Pershing Road and Laramie Avenue reservoir and pumping station facility. The water is then pumped at his station through the Village's water main grid system of nearly 18 miles of pipe to the residents, businesses, and public facility end users.

The Illinois EPA considers all surface water sources of community water supply to be susceptible to potential pollution problems. The very nature of surface water allows contaminants to migrate into the intake with no protection only dilution. This is the reason for mandatory treatment for all surface water supplies in Illinois. Chicago's offshore intakes are located at a distance that shoreline impacts are not usually considered a factor on water quality. At certain times of the year, however, the potential for contamination exists due to wet-weather flows and river reversals. In addition, the placement of the crib structures may serve to attract waterfowl, gulls and terns that frequent the Great Lakes area, thereby concentrating fecal deposits at the intake and thus compromising the source water quality. Conversely, the shore intakes (not used for Stickney water source supply) are highly susceptible to storm water runoff, marinas and shoreline point sources due to the influx of groundwater to the lake.

Citizens should be aware that everyday activities in an urban setting might have a negative impact on their source water. Efforts should be made to improve awareness of storm water drains and their direct link to the lake within the identified local source water area. A proven best management practice (BMP) for this purpose has been the identification and stenciling of storm water drains within a watershed. Stenciling along with an educational component is necessary to keep the lake a safe and reliable source of drinking water.

To view a summary version of the completed Source Water Assessments, including: Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA (IEPA) website at <http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl>.

## **DEFINITION OF TERMS**

Maximum Contaminant Level Goal (MCLG): The level of 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.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of disinfectant in drinking water below, which there is no known or expected risk to health. MRDLG's allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL): The highest level of disinfectant in allowed drinking water.

Range of Detections: This column represents a range of individual sample results, from lowest to highest that were collected during the CCR calendar year.

Date of Sample: If a date appears in this column, the Illinois EPA requires monitoring for this contaminant less than once per year because the concentrations do not frequently change. If no date appears in the column, monitoring for this contaminant was conducted during the CCR calendar year.

Action Level (AL): The concentration of a contaminant that triggers the treatment or other required actions by the water supply.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

ND: Not detectable at testing limits. N/A: Not applicable

Turbidity: The measure of the cloudiness of water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of the filtration system and disinfectants.

## **UNIT OF MEASUREMENT**

ppb: Micrograms Per Liter or Parts Per Billion (or url), unit of measurement of concentration in 7,350,000 gallons of water.

ppm: Milligrams Per Liter or Parts Per Million (or mg/l), unit of measurement of concentration in 7,350 gallons of water.

NTU: Nephelometric Turbidity Unit, used to measure cloudiness in drinking water.

%<0.3NTU: Percent samples less than 0.3 NTU pCi/L: Picocuries Per Liter, used to measure radioactivity.

| Regulated Disinfectants & Disinfection By-Products | MCLG      | MCL      | Highest Level Detected | Range of Levels Detected | Units | Municipality | Violation | Collection Date | Likely Source of Contaminants             |
|--|-----------|----------|------------------------|--------------------------|-------|--------------|-----------|-----------------|---|
| Chlorine   | MRDLG = 4 | MRDL = 4 | 0.9                    | 0.8 — 1.08               | ppm   | Stickney     | N         | 12/31/2018      | Water additive used to control microbes.  |
|  | MRDLG = 4 | MRDL = 4 | 1                      | 1 — 1                    | ppm   | Chicago      | N         | 12/31/2018      |   |
| Haloacetic Acids (HAA5)                            | No Goal   | 60       | 23                     | 9.3 — 22.8               | ppb   | Stickney     | N         | 2018            | By-Product of drinking water disinfection |
|  | No Goal   | 60       | 13                     | 5.5 — 19.7               | ppb   | Chicago      | N         | 2018            |   |
| Total Trihalomethanes (TTHM)                       | No Goal   | 80       | 50                     | 15.5 — 49.9              | ppb   | Stickney     | N         | 2018            |   |
|  | No Goal   | 80       | 13                     | 11.4 — 36.7              | ppb   | Chicago      | N         | 2018            |   |

Chicago Total Organic Carbon (TOC) – The percentage of TOC removal was measured each month and the system met all TOC removal requirements set by the IEPA.

#### Inorganic Contaminants

|                                |    |     |        |                 |     |         |   |      |  |
|--------------------------------|----|-----|--------|-----------------|-----|---------|---|------|--|
| Barium                         | 2  | 2   | 0.0214 | 0.0203 — 0.0214 | ppm | Chicago | N | 2018 | Discharge of drilling wastes; Discharge from refineries; Erosion of natural deposits.                                      |
| Fluoride                       | 4  | 4.0 | 0.8    | 0.601 — 0.617   | ppm | Chicago | N | 2018 | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories. |
| Nitrate (Measured as Nitrogen) | 10 | 10  | 0.416  | 0.314 — 0.416   | ppm | Chicago | N | 2018 | Runoff from fertilizer use; leaching from septic tanks, sewage; Erosion of natural deposits.                               |
| Sodium                         |    |     | 9      | 8.14 — 8.89     | ppb | Chicago | N | 2018 | Erosion from naturally occurring deposits: used in water softener regeneration   |

#### Radio Active & Synthetic Organic Contaminants

|   |   |    |      |            |       |         |   |            |                              |
|---|---|----|------|------------|-------|---------|---|------------|------------------------------|
| Combined Radium 226/228                 | 0 | 5  | 0.84 | 0.5 — 0.84 | pCi/L | Chicago | N | 02/11/2014 | Erosion of natural deposits. |
| Gross alpha excluding radon and uranium | 0 | 15 | 6.6  | 6.1 — 6.6  | pCi/L | Chicago | N | 02/11/2014 | Erosion of natural deposits. |

#### Coliform Bacteria

| Total Coliform Maximum Contaminant Goal | Total Coliform Maximum Contaminant Level | Highest No. of Positive | Fecal Coliform or E. Coli Maximum Contaminant Level | Total No. Positive E. Coli or Fecal Coliform Samples | Municipality | Violation | Likely Source of Contaminants         |
|---|--|-------------------------|---|--|--------------|-----------|---------------------------------------|
| 0                                       | 5% of Monthly Samples are positive.      | 0.4                     |   | 0  | Chicago      | N         | Naturally present in the environment. |

#### Lead and Copper

|        | MCLG | Action Level (AL) | 90th Percentile | # Sites Over AL | Units | Municipality | Violation | Date Sampled | Likely Source of Contaminants   |
|--------|------|-------------------|-----------------|-----------------|-------|--------------|-----------|--------------|---|
| Lead   | 0    | 15                | 9.1             | 0               | ppb   | Chicago      | N         | 2018         | Corrosion of household plumbing systems; Erosion of natural deposits.                                   |
| Copper | 1.3  | 1.3               | 0.091           | 0               | ppm   | Chicago      | N         | 2018         | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |

| Turbidity                      | Limit (Treatment Technique) | Level Detected | Municipality | Violation | Likely Source of Contaminants |
|--------------------------------|-----------------------------|----------------|--------------|-----------|-------------------------------|
| Highest Single Measurement %   | 1 NTU                       | 0.26 NTU       | Chicago      | N         | Soil Runoff.                  |
| Lowest Monthly % meeting Limit | 0.3 NTU                     | 100%           | Chicago      | N         | Soil Runoff.                  |

#### UNREGULATED CONTAMINANTS — UCMR4

The EPA uses the Unregulated Contaminant Monitoring (UCM) program to collect data for contaminants suspected to be present in drinking water, but that do not have health-based standards set under the Safe Drinking Water Act (SDWA). Every five years the EPA reviews the list of contaminants, largely based on the Contaminant Candidate List. The Village of Stickney was not selected to participate in the 2018 UCMR4 program by the EPA.

#### MONITORING REQUIREMENTS NOT MET - 2018 VIOLATION SUMMARY

Our water system violated a drinking water standard over the past year. Even though this was not an emergency, as our customers, you have a right to know what happened and what we did to correct this situation.

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 our drinking water meets health standards. During the 2018 Compliance Period we did not complete all monitoring for Lead and Copper contaminants and therefore cannot be sure of the quality of our drinking water during that time.

**What should I do? There is nothing you need to do at this time.**

The table below lists the contaminant we did not properly test for during the last year; how often we are 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 on which follow-up samples were (or will be) taken.

| <b>Contaminant</b> | <b>Require Sampling Frequency</b> | <b>Number of Samples Taken</b> | <b>When all samples should have been taken</b> | <b>When samples were or will be taken</b> |
|--------------------|-----------------------------------|--------------------------------|--|---|
| Lead and Copper    | Every 3 years                     | 19                             | 9/30/2018                                      | October 2018                              |

**What happened?** Sample was lost during transit to the laboratory and retest sample was received after the deadline date.

**What is being done?** Upon notice of the missing sample a retest sample was immediately taken and sent to the laboratory. Receipt of test samples by the laboratory will now be confirmed.

For more information, please contact: Robert Wyant, Operator at 708-749-4400 or at Village of Stickney, 6533 W Pershing Road, Stickney, IL 60402

Please share this information with all 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.