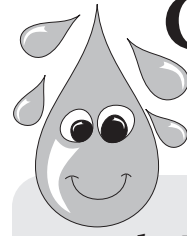


2021 Consumer Confidence Report



Developed by
the Highland Waterworks

Billing Department
 219-972-7589

Waterworks Superintendent
 219-972-5069

Waterworks Operations
 219-972-5083

The Highland Waterworks (HWW) is committed to providing the best water quality and services to our customers.

As part of this commitment to you, the customer, we have developed this Consumer Confidence Report (CCR).

This report is intended to provide you with up to date information regarding the quality of your water supply.

In 1996, Congress amended the Safe Drinking Water Act. It added a provision requiring that all community water systems deliver to their customers a brief annual water-quality report.



Town of Highland
 3333 Ridge Road
 Highland, IN 46322-1018

Highland Waterworks
 PWSID # 5245021

To our water customers, the Indiana Department of Environmental Management (IDEM) has directed the Highland Water Works to include regulated contaminants that are tested for in the Hammond water distribution system by the Hammond Water Works. The data was provided by the IDEM.

2021 Consumer Confidence Report

Regulated and Tested for in the Hammond Water Distribution System (data acquired from Indiana Department of Environmental Management)

| Summary of Water Quality Data | | | | | | | | | |
|--|-----------------|-----------------------------|--------------------------|-----------------------|-----------------|------------------------|--|--|--|
| Microbiological Contaminants | Date Tested | Unit | Goal (MCLG) | Maximum Allowed (MCL) | Detected Level | Range of Values Tested | Likely Source of Contamination | | |
| Total Coliform | 2020 | % of Samples | 0 | ≥5 | 2.3% | n/a | Naturally present in the environment | | |
| Turbidity ¹ | 2020 | NTU | n/a | TT | 0.04-0.15 | n/a | Soil runoff | | |
| Highest Single Measurement | | Limit (Treatment technique) | 1 NTU | Level Detected | 0.15 NTU | Violation | Soil runoff | | |
| Lowest Monthly % Meeting Limit | | | 0.3 NTU | 100% | | N | Soil runoff | | |
| Inorganic Chemicals | Date Tested | Unit | MCLG | MCL | Level | Range | Likely Source of Contamination | | |
| Nitrate (measured as Nitrogen) | 2021 | ppm | 10.0 | 10.0 | 0.3281 | n/a | Runoff from fertilizer user; Leaching from septic tanks, sewage | | |
| Barium | 2021 | ppm | 2.0 | 2.0 | 0.021 | n/a | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits | | |
| Fluoride | 2021 | ppm | 4.0 | 4.0 | 0.7 | 0.74-0.74 | Erosion of natural deposits; Water additives which promotes strong teeth; Discharge from fertilizer and aluminum factories | | |
| Lead and Copper | Date Sampled | MCLG | Action Level (AL) | 90th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination | |
| Copper ² | 2021 | 1.3 | 1.3 | 0.1146 | 0 | ppm | N | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems | |
| Lead ² | 2021 | 0 | 15.0 | 2.3 | 0 | ppb | N | Corrosion of household plumbing systems; Erosion of natural deposits | |
| Disinfection By-Products | Date Tested | Unit | MCLG | MCL | Level | Range | Likely Source of Contamination | | |
| Total Haloacetic Acids | 2021 | ppb | n/a | 60 | 8.0 | 2.2-5.8 | By-product of drinking water chlorination | | |
| Total Trihalomethanes (TTHM) | 2021 | ppb | n/a | 80 | 15.7 | 10.8-20.6 | By-product of drinking water chlorination | | |
| Chlorine | 2021 | ppm | n/a | 4.0 | 2.2 | 1.6-2.2 | By-product of drinking water chlorination | | |
| Radioactive Contaminants | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination | |
| Gross alpha excluding radon and uranium | 2018 | 0.54 | 0.54-0.54 | 0 | 15 | pCi/L | N | Erosion of natural deposits | |
| Synthetic Organic Contaminants Including Pesticides and Herbicides | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination | |
| 2,4-D | 05/07/2019 | 0.5 | 0.5-0.5 | 70 | 70 | ppb | N | Runoff from herbicide used on row crops | |
| Atrazine ³ | 2021 | BDL | BDL | 3 | 3 | ppb | N | Runoff from herbicide used on row crops | |

Lead and Copper Rule

The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.

| Violation Type | Violation Begin | Violation End | Violation Explanation |
|----------------------------|-----------------|---------------|--|
| INITIAL GAP SAMPLING (LGR) | 07/01/2021 | 12/31/2021 | Water samples showed that the corrosion control we use failed to consistently control the aggressive nature of our drinking water for the period indicated, thus likely increasing the amount of lead or copper in our drinking water. |

Revised Total Coliform Rule (RTCRI)

| Violation Type | Violation Begin | Violation End | Violation Explanation |
|---|-----------------|---------------|---|
| REPORT SAMPLE RESULT FAIL MINOR - RTCRI | 08/01/2021 | 08/31/2021 | We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated. |

Water Quality Table Footnotes

1. 100% of the samples tested were below the treatment technique level of 0.3 NTU. Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system.
2. None of the samples tested for copper exceeded the current action level of 1.3 ppm.
3. None of the samples test for lead exceeded the current action level of 15.0 ppb.
4. BDL = Below Detection Level of 0.1 ppb.

Source Water Information

The Surface Water Source for The City of Hammond and its wholesale customers comes from Lake Michigan. The Indiana Department of Environmental Management has assessed all surface water sources. In Indiana all surface waters are considered to be susceptible to contamination. Therefore, chemical treatment, filtration, and lab analysis ensures high quality drinking water. For more information please contact IDEM-Drinking Water Branch at (800) 451-6027.

Water System Information

The Highland Waterworks Board of Directors oversees the operation of the Highland Waterworks. The Board of Directors is comprised of five (5) members appointed by the municipal executive (Town Council President) for a term of three (3) years. No more than three (3) may be of the same political party. The Board of Directors meets on the 2nd (study session) and 4th (public meeting) Thursdays of each month at 7:00 p.m. All meetings are open to the public. If you have any questions about the contents of this report, please contact Mr. Mark Knesek at (219) 972-5083 or visit www.highland.in.gov.

Sources of Water and Distribution

HWW purchases finished water from the Hammond Waterworks, which has a Lake Michigan (surface water) source. The Indiana Department of Environmental Management (IDEM) will be completing assessments of Lake Michigan source water over the next several years. The Hammond Waterworks delivers water to the Bradley Pump Station ground storage reservoirs located at 8005 Kennedy Avenue. From the Bradley Pump Station, water is distributed throughout the community. The HWW has six (6.0) million gallons of ground storage capacity and one and one-half (1.5) million gallons of elevated storage capacity with a total of seven and one-half (7.5) million gallons of total storage.

Information Regarding 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. We 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 2 minutes before using water for drinking or cooking. If you are concerned about elevated lead levels in your home's 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 or at www.epa.gov/safewater/lead.

Safe Drinking Water Hotline

1-800-426-4791 www.EPA.GOV/Safewater

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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at (800) 426-4791.

"The sources of drinking water (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 include:

- (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife;
- (B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming;
- (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, storm water runoff, and residential uses;

- (D) Organic chemicals, 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;
- (E) Radioactive materials, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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

Violation Summary Table

No violations were issued during this CCR year.

2021 total water pumped: 1,285,590,000

Vulnerable 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 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. EPA and 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 at (800) 426-4791.

Terms and Abbreviations used in the Report

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health.

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

Maximum Residual Disinfectant Level Goal (MRDLG): The level of drinking water disinfectant below with there is no known or expected risk to health.

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

Action Level (AL): The concentration of a contaminant, which, if exceeded, triggers treatment, or other requirements, which a water system must follow.

Nephelometric Turbidity Unit (NTU): A measure of the clarity (or cloudiness) of water.

ppb = Parts Per Billion Parts

ppm = Parts per Million Parts

ug/l = Micrograms per liter

mg/l = Milligrams per liter

P* = Potential violation or one that is likely to occur in the near future

na = either not available or not applicable

pCi/L = pico curies per liter (a measure of radiation)

| Synthetic Organic Contaminants (SOC's), Volatile Organic Compounds (VOC's) and any Unregulated Contaminants were not detected in the Finished Water at the entry point of the Hammond distribution system (data acquired from Hammond Waterworks) | | | | | | | | |
|---|----------------------------|--|-------------------------|-----------------|---|-------------|-----------------|--|
| SUBSTANCE | MCLG | MCL | AMOUNT | 90TH PERCENTILE | RANGE OF DETECTION | DATE TESTED | VIOLATION NOTED | TYPICAL SOURCE OF CONTAMINATION |
| Nitrate (ppm) | 10 | 10 | 0.39 | | 0.33 mg/L | 2021 | none | |
| Sodium (mg/L) | na | na | 8.8 | | 0.9 mg/L | 2021 | none | |
| Turbidity (%,<0.30 NTU) | na | >95% | 100% | | | 2021 | none | Soil Runoff |
| Turbidity (NTU) | na | 1 | | | 0.06 - 0.15 NTU's-Tap | 2021 | none | Soil Runoff |
| Fluoride (mg/l) | 4 | 4 | | | 0.7 - 1.0 mg/L | 2021 | none | Erosion of natural deposits/Water additive for prevention of tooth decay |
| Regulated and Tested for in the Highland Water Distribution System | | | | | | | | |
| Microbial Substance E.coli (EC) (#positive/mo) | 0 | 0 | 0 | | | 2021 | none | Human and animal fecal waste |
| Total Haloacetic Acids (ppb) | na | 60 | 5.2 | | 0 - 5.2 | 2021 | none | Disinfection by-Products |
| Total Trihalomethanes (ppb) | na | 80 | 18.6 | | 10.7 - 18.6 | 2021 | none | Disinfection by-Products |
| Atrazine | na | 0.1 ug/L | 0.1 | 3 | 3 | 2021 | none | Runoff from herbicide used on row crops |
| Copper (mg/L) | 1.3 | Action Level = 1.3 | 0.43 | 0.22 | <0.01 - 0.72 | 2020 | none | Corrosion of household plumbing systems/Erosion of natural deposits and leaching of wood preservatives |
| Lead (ug/L) | 0 | Action Level = 15 | <5.0 | 4.1 | <0.5 - 5.3 | 2020 | none | Corrosion of household plumbing systems/Erosion of natural deposits |
| Asbestos Fibers (fiber>10 micrometers) | 7 million fibers per liter | 7 million fibers per liter | 0 | | <0.03 | 2020 | none | Decay of asbestos cement in water mains; erosion of natural deposits |
| SUBSTANCE | MCLG | Total Coliform Maximum Contaminant Level | HIGHEST NO. OF POSITIVE | | TOTAL NO. OF POSITIVE E. COLIFORM OR FECAL COLOFORM SAMPLES | DATE TESTED | VIOLATION NOTED | TYPICAL SOURCE OF CONTAMINATION |
| Microbial Substance Total Coliform (TC) (#positive/mo) | 0 | none | 0 | 0 | 0 | 2021 | none | Naturally present in the environment |
| Data presented in the report are from the most recent testing done in accordance with the regulations | | | | | | | | |