



Village of New Baden Annual Drinking Water Quality Report for Calendar Year 2015

NEW BADEN

IL0274700

Annual Water Quality Report for the period of January 1 to December 31, 2015

This report is intended to provide you with important information about your drinking water and the efforts made by the NEW BADEN water system to provide safe drinking water. The source of drinking water used by NEW BADEN is Purchase Water

For more information regarding this report contact:

Name Village of New Baden

Phone (618) 588-3813

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

For opportunities for public participation for the New Baden PWS, please contact City Hall at 618-588-3813 to find out when and where the City Council and the Water Committee meet.

Source of Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater 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, urban storm water runoff, and residential uses.

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.

Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. 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. EPA/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 (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primary 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 tap 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 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 or at <http://www.epa.gov/safewater/lead>

Source Water Name Type of Water Report Status Location

CC 01-MASTER METER FF IL1635090 TP01 SW 0.3 MI E RT 4 ON S SIDE CO HWY 66

The Village of New Baden purchases from S L M Water Commission.

Source Water Assessment

We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please stop by City Hall or call our water operator at (618) 566-7100. 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 website at <http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl>.

Illinois EPA considers all surface water sources of community water supply to be susceptible to potential pollution problems, hence, the reason for mandatory treatment for all surface water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration, and disinfection. Primary sources of pollution in Illinois lakes can include agricultural runoff, land disposal (septic systems) and shoreline erosion.

2015 Regulated Contaminants Detected (New Baden)

Coliform Bacteria

| Maximum Contaminant Level Goal | Total Coliform Maximum Contaminant Level | Highest Number of Positive | Fecal Coliform or E. Coli Maximum Contaminant Level | Total Number of Positive E. Coli or Fecal Coliform Samples | Violation | Likely Source of Contamination |
|--------------------------------|--|----------------------------|---|--|-----------|--------------------------------------|
| 0 | 1 positive monthly sample | 1 | | 0 | No | Naturally Present in the Environment |

Lead and Copper

Definitions:

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

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALG's allow for a margin of safety.

| Lead and Copper | Data Sampled | MCLG | Action Level (AL) | 90 th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination |
|-----------------|--------------|------|-------------------|-----------------------------|-----------------|-------|-----------|--|
| Copper | 2015 | 1.3 | 1.3 | 0.189 | 0 | ppm | No | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems |
| Lead | 2015 | 0 | 15 | 12 | 2 | ppb | No | Corrosion of Household plumbing systems, Erosion of natural deposits |

Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

Water Quality Test Results

Definitions: The following tables contain scientific terms and measures, some of which may require explanation.

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the Maximum Contaminant Level Goal as feasible using the best available treatment technology.

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

mg/l: milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

ug/l: micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

na: not applicable.

Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples.

ppm: milligrams per liter or parts per million – or one ounce in 7,350 gallons of water

ppb: micrograms per liter or parts per billion – or one ounce in 7,350,000 gallons of water

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

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.

pCi/L: picocuries per liter is the measurement of the natural rate of disintegration of radioactive contaminants in the water.

Regulated Contaminants

| Disinfectants & Disinfection By-Products | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source Of Contaminant |
|--|-----------------|------------------------|--------------------------|-----------------------|--------|-------|-----------|---|
| Chloramines | 12/31/2015 | 1.6 | 0.5 – 2.5 | MRDLG=4 | MRDL=4 | ppm | No | Water additive used to control microbes |
| Total Haloacetic Acids (HAA5) | 2015 | 44 | 6.8 – 37.8 | No goal for the total | 60 | ppb | No | By-product of drinking water chlorination |
| TTHMs [Total Trihalomethanes] | 2015 | 65 | 34.6 – 58.8 | No goal for the total | 80 | ppb | No | By-product of drinking water chlorination |

Note: The state requires monitoring of certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some of this data may be more than one year old.

Not all samples may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future.

2015 Regulated Contaminants Detected (S L M Water Commission)

Lead and Copper

Definitions:

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| Lead and Copper | Data Sampled | MCLG | Action Level (AL) | 90 th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination |
|-----------------|--------------|------|-------------------|-----------------------------|-----------------|-------|-----------|--|
| Copper | 8/26/2013 | 1.3 | 1.3 | 0.6005 | 0 | ppm | No | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems |
| Lead | N/A | N/A | N/A | N/A | N/A | ppb | No | Corrosion of Household plumbing systems, Erosion of natural deposits |

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Regulated Contaminants

| Disinfectants & Disinfection By-Products | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source Of Contaminant |
|--|-----------------|------------------------|--------------------------|-----------------------|--------|-------|-----------|---|
| Chloramines | 12/31/2015 | 2.3 | 1.8 – 3 | MRDLG=4 | MRDL=4 | ppm | No | Water additive used to control microbes |
| Total Haloacetic Acids (HAA5) | 2015 | 45 | 28 – 35.9 | No goal for the total | 60 | ppb | No | By-product of drinking water chlorination |
| TTHMs [Total Trihalomethanes] | 2015 | 48 | 17.1 – 56.7 | No goal for the total | 80 | ppb | No | By-product of drinking water chlorination |
| Inorganic Contaminants | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source Of Contaminant |
| Arsenic | 2015 | 1 | 0.659 – 0.659 | 0 | 10 | ppb | No | Erosion of natural deposits; Runoff from orchards; Runoff from electronics production wastes |
| Barium | 2015 | 0.0421 | 0.0421 – 0.0421 | 2 | 2 | ppm | No | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits |
| Fluoride | 2015 | 1 | 0.965 – 0.965 | 4 | 4.0 | ppm | No | Erosion of natural deposits; Water additive which promotes strong teeth; Fertilizer discharge |
| Sodium | 2015 | 14 | 14 - 14 | N/A | N/A | ppm | No | Erosion of naturally occurring deposits; used in water softener regeneration |
| Synthetic Organic Contaminants (including pesticides and herbicides) | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source Of Contaminant |
| Atrazine | 2015 | 1 | 0 – 4.2 | 3 | 3 | ppb | No | Runoff from herbicide used on row crops |
| Simazine | 2015 | 0.72 | 0 – 0.72 | 4 | 4 | ppb | No | Herbicide runoff |

| Radioactive Contaminates | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source Of Contaminant |
|--------------------------|-----------------|------------------------|--------------------------|------|-----|---------|-----------|------------------------------|
| Combined Radium 226/228 | 2015 | 1.4 | 1.4 – 1.4 | 0 | 5 | (pCi/L) | No | Erosion of natural deposits |
| Gross alpha emitters | 2015 | 7.2 | 7.2 – 7.2 | 0 | 15 | (pCi/L) | No | Erosion of natural deposits |

Note: There is not a state or federal MCL for sodium. Monitoring is required to provide information to consumers and health officials that are concerned about sodium intake due to dietary precautions. If you are on a sodium-restricted diet, you should consult a physician about this level of sodium in the water.

Note: The state requires monitoring of certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some of this data may be more than one year old.

Not all samples may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future.

Turbidity

| | Limit (Treatment Technique) | Level Detected | Violation | Source |
|--------------------------------|-----------------------------|----------------|-----------|-------------|
| Highest Single Measurement | 1 NTU | 0.43 NTU | No | Soil Runoff |
| Lowest Monthly % Meeting Limit | 0.15 NTU | 99% | No | Soil Runoff |

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set by IEPA, unless a TOC violation is noted in the violations section.

Violations Table

| Consumer Confidence Rule | | | |
|--|------------------------|----------------------|------------------------------|
| The Consumer Confidence Rule requires community water systems to prepare and provide to their customers annual consumer confidence reports on the quality of the water delivered by the systems. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| | | | |