

2018 WATER QUALITY REPORT FOR HAWARDEN WATER SUPPLY

This report contains important information regarding the water quality in our water system. The source of our water is groundwater. Our water quality testing shows the following results:

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Copper (ppm)	AL=1.3 (1.3)	90th	0.9 (ND - 1.8) 1 sample(s) exceeded AL	2018	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (ppb)	AL=15 (0)	90th	0.00 (ND - 3)	2018	No	Corrosion of household plumbing systems; erosion of natural deposits
950 - DISTRIBUTION SYSTEM						
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)	RAA	1.1 (0.56 - 2.11)	12/31/2018	No	Water additive used to control microbes
Total Trihalomethanes (ppb) [TTHM]	80 (N/A)	SGL	33.00	07/17/2018	No	By-products of drinking water chlorination
Total Haloacetic Acids (ppb) [HAA5]	60 (N/A)	SGL	18.00	07/17/2018	No	By-products of drinking water disinfection
Fluoride (ppm)	4 (4)	RAA	1.11 (1.0 - 1.2)	03/31/2018	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
02 - WELLS 3,4,6-11, TAP AT TRMT PLANT						
Gross Alpha, inc (pCi/L)	15 (0)	SGL	4.3	01/12/2015	No	Erosion of natural deposits
Fluoride (ppm)	4 (4)	RAA	0.98 (1.0 - 1.1)	06/30/2018	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Barium (ppm)	2 (2)	SGL	0.08	01/13/2014	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Arsenic (ppb)	10 (0)	SGL	1.00	01/13/2014	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronic production wastes
Sodium (ppm)	N/A (N/A)	SGL	24	01/10/2017	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10 (10)	SGL	6.2 (2.8 - 6.2)	2018	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Note: Contaminants with dates indicate results from the most recent testing done in accordance with regulations.

DEFINITIONS

- 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 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.
- ppb -- parts per billion.
- ppm -- parts per million.

- pCi/L – picocuries per liter
- N/A – Not applicable
- ND -- Not detected
- RAA – Running Annual Average
- 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.
- 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.
- 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.
- SGL – Single Sample Result
- RTCR – Revised Total Coliform Rule
- NTU – Nephelometric Turbidity Units

GENERAL INFORMATION

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 posed a health risk. More information about contaminants or potential health effects can be obtained by calling the Environmental Protection Agency’s Safe Drinking Water Hotline (800-426-4791).

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 primarily from materials and components associated with service lines and home plumbing. HAWARDEN WATER SUPPLY 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 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>.

ADDITIONAL HEALTH INFORMATION

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. 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 advice from your health care provider.

OTHER VIOLATIONS

In August 2018 we failed to monitor for Haloacetic Acids (HAA5). Adverse health effects, if any, are not known. Monitoring procedures have been corrected to avoid future violations.

In August 2018 we failed to monitor for Total THM. Adverse health effects, if any, are not known. Monitoring procedures have been corrected to avoid future violations.

SOURCE WATER ASSESSMENT INFORMATION

This water supply obtains its water from the sand and gravel of the Alluvial aquifer. The Alluvial aquifer was determined to be highly susceptible to contamination because the characteristics of the aquifer and overlying materials provide little protection from contamination at the land surface. The Alluvial wells will be highly susceptible to surface contaminants such as leaking underground storage tanks, contaminant spills, and excess fertilizer application. A detailed evaluation of your source water was completed by the Iowa Department of Natural Resources, and is available from the Water Operator at 712-551-2565 .



March 08, 2019

HAWARDEN WATER SUPPLY
ATTN ALAN MACE WATER SUPT
1150 CENTRAL AVE
HAWARDEN IA 51023

SUBJECT: Consumer Confidence Report Notification

HAWARDEN WATER SUPPLY, PWSID 8434040

The Iowa Department of Natural Resources (IDNR) is providing a draft 2018 Consumer Confidence Report (CCR) for your water supply that can be used to distribute to your customers (see attached). Copies of the CCR must be provided to your customers and IDNR by July 1 of each year. Please note this CCR was completed using the best available information stored in the IDNR's database. Therefore, you must ensure the information is accurate and complete before distributing it. In some cases, the IDNR does not have all the necessary information to provide a completed CCR. If modifications are necessary, or if you would like a copy for your records, an electronic copy can be obtained by e-mailing ccr@dnr.iowa.gov, or by calling the number listed at the end of this letter. Below is a list of potential updates that may be necessary for your CCR.

- If the system was in violation of any standard, or if you had to conduct a Level 1 or 2 Assessment, you should include any corrective actions taken.
- Contact information for your supply.
- Include Fluoride range and highest result if your system adds fluoride.
- Total organic carbon (TOC) (report % removed).
- Include Turbidity data (violations and results). If applicable, the attached CCR will contain a blank row in the chart for you to add turbidity information.
- Include Cryptosporidium per Long Term 2 (LT2) sampling, if applicable.
- Chlorine and chloramine MRDL values are provided for water systems that use chlorine; however, they are from bacteria samples in the department's database. They are not from monthly MOR forms. Each water supply is encouraged to compare these values to those on their monthly MOR forms and make corrections as necessary.

In addition, large water supplies, and a representative sample of small water supplies, have been participating in a study with the EPA related to the Unregulated Contaminant Monitoring Rule (UCMR). Water supplies in this study should include any detects found as a part of this study in the CCR. These detects are not included in the attached CCR and should be provided directly by the water supply.

If you sell water to another system, you must provide monitoring results to the systems that purchase your water by April 1. While the IDNR has already provided this data to the consecutive systems, it is still necessary to provide this as the consecutive system may need to include additional information, such as turbidity data, for which DNR does not have on record.

The Iowa Association of Municipal Utilities (IAMU) will be conducting CCR training workshops during April (times and locations will be announced in a separate mailing from IAMU).

Direct delivery of the CCR can be accomplished through electronic delivery. Systems electing to distribute the CCR electronically must ensure delivery guidelines are met. To determine if electronic delivery is appropriate for your system, and to ensure distribution meets regulatory requirements, please go to the following link: <https://www.epa.gov/ccr/how-water-utilities-can-electronically-delivery-their-ccr>

In summary, your water supply must:

1. Distribute the Consumer Confidence Report to your customers no later than July 1, 2019. Remember to make any changes, if necessary, as discussed above.
2. Send a copy of the report to the IDNR Water Supply Operations Section at 502 E. 9th Street, Wallace State Office Building, Des Moines, IA, 50319-0034, postmarked no later than July 1, 2019.

The IDNR will inform you if you must deliver a copy of your report to any other agency (e.g., County Board of Health).

3. Complete and return the enclosed CCR Certification Form to the IDNR Water Supply Operations Section at 502 E. 9th Street, Wallace State Office Building, Des Moines, IA, 50319-0034, no later than October 1, 2019.

If the provided data does not match your records, or if you have any questions regarding your CCR, please contact me at 515-725-0297.

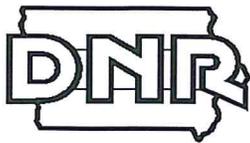
Sincerely,



JIM WARREN

Environmental Specialist Water Supply Section

cc: File: HAWARDEN WATER SUPPLY, PWSID 8434040



CCR Certification Form

For Systems that must mail the CCR

HAWARDEN WATER SUPPLY

PWSID: 8434040

The community water system indicated above hereby confirms that the Consumer Confidence Report (CCR) has been distributed to customers (and appropriate notices of availability have been given) and that the information is correct and consistent with the compliance monitoring data previously submitted to IDNR by your certified laboratory.

The following steps must be completed for distribution of the CCR. It is necessary that these steps are followed to assure that all of your consumers are aware of the report.

1) CCR must be distributed by mail, electronic delivery, or other form of direct delivery. Refer to the following website for electronic delivery options:

<https://www.epa.gov/ccr/how-water-utilities-can-electronically-delivery-their-ccr>

Provide the date of distribution and type of delivery method, and URL if distributed electronically:

2) In addition to direct delivery, a good faith effort must be used to reach non-bill paying consumers. The following methods are recommended by IDNR. Provide the date of completion for each that apply:

- _____ Posting of the CCR on the Internet at http://
- _____ Mailing the CCR to postal patrons within the service area (attach zip codes used).
- _____ Advertising availability of the CCR in news media (attach copy of announcement).
- _____ Publication of the CCR in local newspaper (attach copy).
- _____ Posting the CCR in public places (attach list of locations).
- _____ Delivery of multiple copies of the CCR to single bill addresses serving several persons such as: apartments, businesses, and large private employers.
- _____ Delivery of the CCR to community organizations (attach list).

Systems serving more than 100,000 persons must also post the CCR on a publicly accessible Internet site. List Internet Site address and the date completed:

http:// _____ Date _____

Certified by: Name Al Mace
 Title Water Foreman
 Phone # 712-551-4427 Date of Delivery 4-29-19

Return to: ATTN: Jim Warren
 Iowa DNR Water Supply Operations Section
 Wallace State Office Building
 502 E. 9th Street
 Des Moines, IA 50319-0034

