

2020 WATER QUALITY REPORT FOR SOUTHWEST REG WATER DISTRICT (RED OAK)

This report contains important information regarding the water quality in our water system. The source of our water is groundwater. All of the water is purchased. Purchased water comes from Red Oak Water Supply. Our water quality testing shows the following results:

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation	Source
		Type	Value & (Range)			
Total Trihalomethanes (ppb) [TTHM]	80 (N/A)	LRAA	6.00 (6 - 6)	09/30/2020	No	By-products of drinking water chlorination
Total Haloacetic Acids (ppb) [HAA5]	60 (N/A)	LRAA	6.00 (6 - 6)	09/30/2020	No	By-products of drinking water disinfection
Lead (ppb)	AL=15 (0)	90th	4.80 (ND - 15)	2020	No	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	AL=1.3 (1.3)	90th	0.907 (0.0924 - 1.220)	2020	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
950 - DISTRIBUTION SYSTEM						
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)	RAA	1.4 (0.74 - 1.68)	12/31/2020	No	Water additive used to control microbes

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

PURCHASED WATER INFORMATION

Our water system purchases water from the system(s) shown below. Their water quality is as follows:

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation	Source
		Type	Value & (Range)		Yes/No	
6950075 - RED OAK WATER SUPPLY						
01 - WELLS 2_3 AFTR TRTMT @ BELT						
Gross Alpha, inc (pCi/L)	15 (0)	SGL	5.3	06/05/2018	No	Erosion of natural deposits
Combined Radium (pCi/L)	5 (0)	SGL	2.4	06/05/2018	No	Erosion of natural deposits
Sodium (ppm)	N/A (N/A)	SGL	12.4	04/09/2019	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10 (10)	SGL	7.100 (6.700 - 7.100)	2020	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
02 - WLS 4,4-2,N-3 & N-4 AFTR TRTMT @ PFEIFF						
Combined Radium (pCi/L)	5 (0)	SGL	3.3	06/05/2018	No	Erosion of natural deposits
Sodium (ppm)	N/A (N/A)	SGL	11.2	04/09/2019	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10 (10)	SGL	2.900	2020	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
03 - WELL 1 AFTR TRTMT @ RES PUMP						
Gross Alpha, inc (pCi/L)	15 (0)	SGL	3	06/05/2018	No	Erosion of natural deposits
Sodium (ppm)	N/A (N/A)	SGL	15.4	10/06/2020	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10 (10)	SGL	4.600	2020	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

SOUTHWEST REGIONAL WATER DISTRICT

Red Oak WATER SUPPLY SERVICE AREA

A Consumer Confidence Report [CCR] is a report designed to inform a water system's consumers of the results of its testing, pursuant to the EPA SAFE DRINKING WATER ACT [SDWA] requirements. The 1996 Amendment to the SDWA requires that each water system complete and distribute such a report to its customers, no later than July 1 of this year and annually thereafter.

ANNUAL WATER QUALITY REPORT FOR 2020

The **Southwest Regional Water District** is pleased to provide to you this year's Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve our water distribution system operation, water treatment process, and to protect our water resources. We are committed to ensuring the quality of your water. The **Southwest Regional Water District** is classified by the State of Iowa as a Grade III Water Distribution System and a Grade II Water Treatment Plant facility. Our water supplies are purchased from the City of Clarinda and the City of Red Oak. The Clarinda water source is water from the West Nodaway River. The City of Clarinda filters and treats the water through their water plant constructed in 2007. The Rural Water District then pumps from the Clarinda Water system into the 500,000-gallon elevated tank located 3 miles west of the City on Highway 2 and serves the East Service Area of our rural system. The Red Oak water source is from wells which draw from the Dakota Aquifer. The water is chlorinated and treated at each well site by Red Oak and then is re-chlorinated and pumped by the Water District into the 500,000-gallon elevated tank located 1 mile east of Red Oak off Highway 34. This supply provides service to the West Service Area of our rural water system. The **Southwest Regional Water District** system covers over 930 miles of water distribution pipeline in the counties of Page, Montgomery, Fremont, and Taylor in southwest Iowa and extends some service to users in Missouri. Today the rural water system has 2019 rural service connections and provides water service to eleven communities.

If you have any questions about this report or concerning your water utility, please contact our Water District Superintendent Kevin Gowing at (712) 542-3259. Additional questions and comments can be addressed at our monthly District Board of Directors meetings held the first Thursday of each month. Meeting times are scheduled at 7:00 p.m. and held at the Water District's office at 516 South 8th Street in Clarinda. You can visit our website at www.swregional.net for a copy of both water district's Consumer Confidence Reports plus news and general information about the **Southwest Regional Water District**.

The **Southwest Regional Water District** routinely monitors for constituents in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1 to December 31, 2020. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It is important to remember that the presence of these constituents does not necessarily pose a health risk. We continually sample on a regular basis to insure the absence of contaminants in the system.

When repairs were made to the main lines that could have affected the quality of the drinking water, SWRWD collected special bacteria samples from these affected areas and sent them to Keystone Lab in Newton, IA for testing. For the year 2020, SWRWD collected a total of 22 special samples. 18 special samples were collected for repairs completed on the Clarinda Water System and 4 special samples were collected for repairs completed on the Red Oak Water System. SWRWD also collects a routine bacteria sample each year at the SE Tower due to the fact it is drained during the winter months.

SWRWD collected a total of 120 scheduled monthly bacteria samples for the Clarinda Water System and 144 scheduled monthly bacteria samples for the Red Oak Water System.

SWRWD also collected 8 routine TTHM/HAA5 samples for the Clarinda Water System and 1 routine TTHM/HAA5 for the Red Oak Water System. One set of TTHM/HAA5 samples for the Clarinda Water System did not arrive at the lab at the correct temperature, this resulted in the voiding of the samples. Upon being notified from the laboratory, SWRWD was informed of the voided samples, it was determined time had expired to retake samples for the quarter. Resulting in a collection failure for DNR records.