



**DEPARTMENT OF THE AIR FORCE
325TH OPERATIONAL MEDICAL READINESS SQUADRON (ACC)
TYNDALL AIR FORCE BASE FLORIDA**

6 May 2025

MEMORANDUM FOR SEE DISTRIBUTION LIST

FROM: 325 OMRS/SGXB

SUBJECT: 2024 Tyndall AFB Consumer Confidence Report

Reference: DAFI 48-144, *Drinking Water Surveillance Program*, dated 21 June 2023

1. Public Water Systems that are regulated as Community Water Systems are required to issue a Consumer Confidence Report (CCR), or Annual Water Quality Report, for distribution in accordance with (IAW) CFR part 141, Subpart 40 O, *Consumer Confidence Reports*, and the US Environmental Protection Agency's Safe Drinking Water Act. CCRs provide the consumer and public with the following: system information and the source of water, detected contaminants, and compliance with National Primary Drinking Water Regulations.
2. Gulf Coast Electric Cooperative (GCEC) currently owns and maintains the water distribution system that supplies Bay County water to Tyndall Air Force Base (AFB) main base, Silver Flag, Air Force Research Lab, and Full-Scale Drone. Please see the attached Bay County Utility Services 2024 Annual Water Quality Report.
3. GCEC, Civil Engineering, and Bioenvironmental Engineering (BE) work in tandem to ensure safe, quality drinking water to users on Tyndall AFB. IAW DAFI 48-144, BE performed Air Force Unique Surveillance which included monthly fluoride analysis at the Tyndall Child Development Center (CDC), School Age Programs (SAP), and Youth Programs (YP). BE is proud to announce that all 2024 drinking water results at the CDC, SAP and YP met the Maximum Contaminant Level for fluoride (4.0 mg/L). During 2024, Tyndall Academy was on the Bay County owned water line and was not surveyed as part of the Air Force Unique Surveillance requirements.
4. Any questions regarding the attached CCR and additional BE results, please contact BE at 850-283-7139 or by email at usaf.tyndall.325-mdg.list.sgp@health.mil.

SHERROD A. BROWN, Lt Col, USAF, BSC
Flight Commander, Bioenvironmental Engineering

Attachment:
2024 Annual Water Quality Report Bay County

cc:
325 FW/CC
325 FW/PA
325 FW All
325 MDG/CC
325 OMRS/CC
325 CES/CC
ESOH COUNCIL



2024 Annual Drinking Water Quality Report

Bay County Wholesale Water System

The Environmental Protection Agency requires public water suppliers that serve the same people year-round (community water systems) to provide Consumer Confidence Reports to their customers. These reports are also known as Annual Water Quality Reports. This report summarizes information regarding water sources used, any detected contaminants, compliance and educational information. 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. Our water source is surface water drawn from Deer Point Reservoir.

In 2024, the Department of Environmental Protection performed a Source Water Assessment on our system. The assessment was conducted to provide information about any potential sources of contamination near our surface water intakes. The surface water system is considered to be at high risk because of the many potential sources of contamination present in the assessment area. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp or they can be obtained from Bay County Utility Services by calling (850) 248-5010.

The Bay County Water Treatment Plant uses a conventional treatment process consisting of coagulation, flocculation, sedimentation, filtration, pH adjustment, disinfection, fluoridation, and corrosion control. The treatment process includes adding lime occasionally to provide additional alkalinity to the raw water so that it can react with the primary coagulating chemical, Ferric Sulfate, which is added to remove particles and organics. Polymer is also added to assist in the coagulation process. Sodium Hypochlorite is added to maintain disinfection in the distribution system. The addition of zinc orthophosphate reduces the corrosiveness of the water. Fluoride, in the form of Hydrofluorosilicic acid, is added as a supplement to prevent tooth decay. Lime is also added at the end of the process to increase the pH. These processes are needed to meet the drinking water standards as set by the United States Environmental Protection Agency (EPA) and the Florida Department of Environmental Protection (FDEP).

Bay County Water Treatment Plant routinely monitors for contaminants in your drinking water according to Federal and State laws, rules, and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2024. Data obtained before January 1, 2024 and presented in this report, are from the most recent testing done in accordance with the laws, rules, and regulations.

Bay County's Water System was in violation of the Cross-Connection Control Requirement as specified in the State CCC Rules, F.A.C. Rule 62-555.360 & .330. The system began implementing a written cross connection control and backflow prevention program as required on 11/17/20.

What are we doing to meet this requirement? We adopted a new Cross-Connection Control Program (CCCP) plan on 12/15/2020, which meets the 2014 rule. Since adaption, all new Bay County water customers with dedicated irrigation service connections will need to install the required pressure vacuum breaker (PVB) or reduced pressure (RP) backflow device. Our CCCP took a 4 zoned approach to tackle all the existing 1069 meter that were out of compliance. The 4 zoned approach is to allow each homeowner ample time to install the required device. Bay County will be in full compliance by 12/31/2025. Please note, all service connections currently have a dual check backflow device that is approved for standard residential connections, however, the device does not meet minimum protection for dedicated irrigation meters as outlined in the 2014 rule. To help customers understand the plan better, Bay County Utilities will have a Q&A sheet available, along with definitions to unfamiliar terms and abbreviations found in the new plan on our website. Handouts of the material will also be available at Bay County Utilities Service Office located at 3400 Transmitter Rd.

If you have any questions about this report or concerns about your water utility, please contact Sean Lathrop, Water Division Superintendent at (850) 248-5010. We encourage our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly schedule Bay County Commission meetings. The meetings are scheduled the first and third Tuesday of each month. Public notices of the meetings are announced regularly publicizing the date, time, and location of the meeting.

Our staff works around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life, and our children's future.

The table below, you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions:

Maximum Contaminant Level or 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 or 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.

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

Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.

Maximum residual disinfectant level goal or MRDLG: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Nephelometric Turbidity Unit (NTU) - measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

"ND" means not detected and indicates that the substance was not found by laboratory analysis.

Parts per billion (ppb) or Micrograms per liter (µg/l) – one part by weight of analyte to 1 billion parts by weight of the water sample.

Parts per million (ppm) or Milligrams per liter (mg/l) – one part by weight of analyte to 1 million parts by weight of the water sample.

Picocurie per liter (pCi/L) - measure of the radioactivity in water.

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

2024 Contaminants Table

Microbiological Contaminants							
Contaminant and Unit of Measurement	Dates of sampling (mo. /yr.)	MCL Violation Y/N	The Highest Single Measurement	The Lowest Monthly Percentage of Samples Meeting Regulatory Limits	MCLG	MCL	Likely Source of Contamination
Turbidity (NTU)	Jan 24-Dec 24	N	0.40	98.4	N/A	TT	Soil runoff
Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. High turbidity can hinder the effectiveness of disinfectants. The Treatment Technique standard requires that 95% of the turbidity readings be at 0.3 NTU or less.							

Inorganic Contaminants							
Contaminant and Unit of Measurement	Dates of sampling (mo. /yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Barium (ppm)	April - 24	N	0.0072	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	April - 24	N	0.75	N/A	4	4	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at the optimum level of 0.7 ppm
Nitrate (ppm)	April - 24	N	0.028	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium (ppm)	April - 24	N	4.8	N/A	N/A	160	Salt water intrusion, leaching from soil

Stage 1 Disinfectants and Disinfection By-Products							
Disinfectant and Unit of Measurement	Dates of sampling (mo. /yr.)	MRDL Violation Y/N	Level Detected	Range of Results	MRDLG	MRDL	Likely Source of Contamination
Chlorine (ppm)	Jan 24 - Dec 24	N	0.82	0.69 - 0.97	4	4	Water additive used to control microbes
Contaminant and Unit of Measurement	Dates of sampling (mo. /yr.)	TT Violation Y/N	Lowest Running Annual Average, Computed Quarterly, of Monthly Removal Ratios	Range of Monthly Removal Ratios	MCLG	MCL	Likely Source of Contamination
Total Organic Carbon	Jan 24 - Dec 24	N	<2.0	N/A	N/A	TT	Naturally present in the environment

Stage 2 Disinfectants and Disinfection By-Products							
Contaminant and Unit of Measurement	Dates of sampling (mo. /yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Haloacetic Acids (five) (HAA5) (ppb)	Jan 24 - Dec 24	N	28.5	ND - 35.3	N/A	60	By-product of drinking water disinfection
TTHM [Total trihalomethanes] (ppb)	Jan 24 - Dec 24	N	41.4	4.1 - 53	N/A	80	By-product of drinking water disinfection

Lead and Copper (Tap Water)							
Contaminant and Unit of Measurement	Dates of sampling (mo. /yr.)	AL Violation Y/N	90 th Percentile Result	No. of sampling sites exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper (tap water) (ppm)	Sept 23	N	.29	0 of 33	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	Sept 23	N	.7	0 of 33	0	15	Corrosion of household plumbing systems; erosion of natural deposits

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. Bay County Utility Services 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>.

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 water 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, urban storm water runoff, and residential uses.
- (D) 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.
- (E) Radioactive contaminants, 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, the EPA prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

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 1-800-4264791.

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 microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791)