



NORTH NODAWAY R-VI SCHOOL

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Home of the Mustangs

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"Preparing Productive Citizens that are College and Career Ready"

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In accordance with the Missouri State Legislation, "Get the Lead Out of Schools Drinking Water Act," all districts in Missouri are required to conduct a water quality test of their facilities. The North Nodaway R-VI School District has developed a plan in order to ensure that the quality of our drinking sources meet the standards set by the state legislature. Below is a timeline of procedures taken by the school district, the results of the testing, remediation steps, and final test results.

Planning Phase- Late July:

The maintenance director and superintendent of schools conducted a physical walk-through of the building to create an inventory of the outlets used for human consumption, such as drinking fountains, bottle fillers, nurse's faucets, and the ice machine. Each source of water was identified within the district in order to determine the number of water samples and location of each source and recorded on a chain of custody worksheet. A copy of the worksheet may be requested by the public by calling the school district.

Selection of a certified testing laboratory was chosen during the planning process. Keystone Laboratories in Iowa was selected as the laboratory for our water analysis. This lab was selected based upon factors such as proximity to our district, pricing, speed of return, communications, and certification. Keystone is a certified laboratory in the states of Iowa, Kansas, and Missouri. A link to their website with information and certifications has been provided for further analysis: <https://www.kestonelabs.com>

Testing Phase- End of October:

Testing of the water samples were conducted by the maintenance director and superintendent. Prior to testing, training was conducted to ensure sampling procedures were fully executed. Training videos provided by the Missouri Department of Natural Resources were viewed and an extensive study of EPA's "3Ts for Reducing Lead in Drinking Water in Schools and Child Care Facilities - A Training, Testing, and Taking Action Approach" was conducted. For more a copy of this document and more information, please visit the following link: <https://www.epa.gov/system/files/documents/2021-07/epa-3ts-guidancedocumentenglish.pdf>

Procedures for the Initial Outlet:

1. All samples were collected before the facility opened and before the fixtures had been used (EPA recommends an 8-18 hour stagnation period).
2. One 250 ml sample was taken at each fixture. Guidelines provided by the EPA to test various water sources were followed.
3. Each sample as labeled with the type of outlet and location within the building based on the chain of custody worksheet.
4. Each sample was securely placed into the Keystone Laboratories return mailing package and sent to the facility within the 10 day return policy. The samples were sent to Keystone Laboratories on October 20th and analyzed on October 26th.

Results:

The school district received the testing results on October 31, 2023. The results indicated that the average lead level within all water sources at North Nodaway School District averaged less than 1.009 ppb. Many samples registered lead amounts smaller than .4 ppb which is far below the allowable limit set by state legislations. Out of the 22 samples taken, one sample registered a ppb great than 5.0 ppb, which was the nurse's sink at the high school. Given this information, a remediation plan was developed to address this situation.

Remediation Plan:

The nurse's sink at the high school registered a 6.9 ppb. Following a phone consultation with the Missouri Department of Natural Resources, it was determined that the most likely cause of the increased lead level in the sink faucet was due to inactivity of the water source. The water in the line would have been stagnant for some time. With this information, we are going to retest this location with a "flush draw sample". (At the time of this report, we have not received the results of the retest, but once we do, the number and information will be added to previous sections). Last resort, the sink will be clearly marked as a non-potable drinking site and will only be used for washing hands. Bottled water will be kept in the nurse office for kids to use to take medication if needed.

Final Test Results:

Once the re-test results have been received, this section of the report will be completed and the plan will be fully executed.

Additional Resources:

For further information in regard to water quality, please visit the link below:

<https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water>