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NH ELAP Accreditation #NH1005

# NELSON ANALYTICAL LAB

RP221213048

Maine State Certification #NH01005  
Vermont State Certification # VT1005  
Maine Radon Certification # ME17500  
Massachusetts State Certification #M-NH1005

## Report of Analysis

Customer: Premier Home Inspection Svc.  
Client Sample ID: Austin, Karen & Robert  
Laboratory ID: 122121032.01  
Sample Matrix: Drilled Well Water  
Sample Location: 7 Fox Run Road, Amherst, NH

Date Collected: 12/09/2022 01:15 PM  
Collected By: Premier  
Date Received: 12/10/2022 10:00 AM  
Temperature Rec'd °C: 4.0

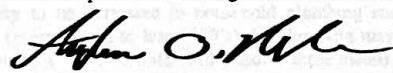
| Parameters              | Results | Acceptable Level | Units    | Date Analyzed    | Test Method   | Test Type | Test Remarks        |
|-------------------------|---------|------------------|----------|------------------|---------------|-----------|---------------------|
| Total Coliform Bacteria | Absent  | Absent           | /100mL   | 12/10/2022 16:00 | SM 9223B      | Primary   | Within Standard     |
| E. coli Bacteria        | Absent  | Absent           | /100mL   | 12/10/2022 16:00 | SM 9223B      | Primary   | Within Standard     |
| Nitrate-N               | <1.0    | 10               | mg/L     | 12/12/2022 10:00 | SM 4500 NO3 D | Primary   | Within Standard     |
| Nitrite-N               | <0.01   | 1.0              | mg/L     | 12/11/2022 08:55 | SM 4500 NO2B  | Primary   | Within Standard     |
| Fluoride                | 4.2     | 4.0              | mg/L     | 12/12/2022 12:00 | SM 4500F-C    | Primary   | Outside of Standard |
| Arsenic                 | <0.0010 | 0.0050           | mg/L     | 12/12/2022 01:14 | EPA 200.8     | Primary   | Within Standard     |
| Lead                    | <0.001  | 0.015            | mg/L     | 12/12/2022 01:14 | EPA 200.8     | Primary   | Within Standard     |
| Copper                  | 0.021   | 1.30             | mg/L     | 12/12/2022 01:14 | EPA 200.8     | Primary   | Within Standard     |
| Chloride                | 24      | 250              | mg/L     | 12/12/2022 13:04 | SM 4500Cl-B   | Secondary | Within Standard     |
| pH                      | 8.25    | 6.5-8.5          | SU       | 12/12/2022 13:06 | SM 4500H B    | Secondary | Within Standard     |
| Iron                    | 0.046   | 0.300            | mg/L     | 12/12/2022 01:14 | EPA 200.8     | Secondary | Within Standard     |
| Manganese               | <0.010  | 0.050            | mg/L     | 12/12/2022 01:14 | EPA 200.8     | Secondary | Within Standard     |
| Conductivity            | 380     | N/A              | umhos/cm | 12/12/2022 13:05 | SM 2510B      | N/A       | No EPA Limit        |
| Alkalinity              | 150     | N/A              | mg/L     | 12/12/2022 15:45 | SM 2320B      | N/A       | No EPA Limit        |
| Sodium                  | 100     | N/A              | mg/L     | 12/12/2022 01:14 | EPA 200.8     | N/A       | No EPA Limit        |
| Total Hardness          | 23      | N/A              | mg/L     | 12/12/2022 01:14 | SM 2340B      | N/A       | No EPA Limit        |
| Radon                   | 450     | See Note         | pCi/L    | 12/12/2022 01:41 | SM 7500       | N/A       | No EPA Limit        |
| Uranium                 | <1      | 30               | ug/L     | 12/12/2022 01:14 | EPA 200.8     | Primary   | Within Standard     |

**ARSENIC NOTE:** The New Hampshire Department of Environmental Services has established a state Maximum Contaminant Level (MCL) for arsenic of 0.005 mg/L, which took effect on July 1, 2021 for all NH public water systems. The federal EPA Safe Drinking Water Act MCL for arsenic is 0.010 mg/L. More information can be found at <https://www.des.nh.gov/>

**RADON NOTE:** There is currently no legal or regulatory limit for radon in water. The EPA has a proposed limit of 4000 pCi/L. Maine and Vermont have recommended limits of 4000 pCi/L, and Massachusetts 10,000 pCi/L. New Hampshire DES recommends treatment for levels above 10,000 pCi/L, or above 2000 pCi/L if Radon in Air levels exceed 4 pCi/L. More information can be found at [www.epa.gov/radon](http://www.epa.gov/radon).

Test Types: EPA Primary: Regulated by the EPA as a health related parameter  
EPA Secondary: Aesthetic parameter - not regarded as a health concern

Respectfully Submitted



Andrew Nelson, Laboratory Director



Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". Nitrate is a non-accredited test for noncompliance water samples. This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program, and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. # Sample(s) received at laboratory do not meet method specified temperature criteria.

Solid samples are reported on a dry weight basis unless noted otherwise.  
Subcontract Laboratories: SUB2: Nelson Analytical Maine NH2018 SUB 7: Nelson Analytical EAI Div. NH1007, SUB3: 2062 SUB4:2073/2239, SUB5:NH2530, SUB8:NH2136,  
<https://www1.des.state.nh.us/OneStopPub/WSEB/acclab/1005.pdf>  
[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
<https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml>  
<https://www.mass.gov/certified-laboratories>