HOME LAND LABS

Phone: (443) 505-8375 | Email: lab@homelandhealthyhomes.com

1220 E Joppa Rd. Ste C505
Towson, MD 21286
MD Lab # 365

108 Old Solomons Island Rd St L2
Annapolis, MD 21401
MD Lab # 106

3430 Rockefeller Ct
Waldorf, MD 20602
MD Lab # 139

2216 Commerce Rd St 2A
Forest Hill, MD 21050
MD Lab # 370

# Certificate of Analysis

**Report Date**: 03/06/2026

**Order ID**: 288980

**Liberty Pure Solutions**

**Date/Time Received:** 03/04/2026 10:05 AM



**Sample ID:** 21230

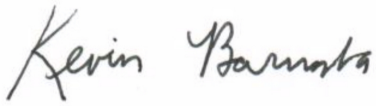
**Project Name/Number:**

**Sample Address:** 13500 Blenheim Rd
Phoenix MD 21131

**Sample Point:** Utility Sink

**Date/Time Sampled:** 03/04/2026 07:30 AM

| Parameter | Method | Result | Units | RL | MCL | Pass/Fail | SMCL | Acceptable/ High | Analyst | Prep Date/Time | Analysis Date/Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Coliform P/A | SM9223B | Absent | Per/100mL | 1 | Present | Pass | N/A | N/A | LG-370 | 03/04/2026 16:14 | 03/05/2026 10:30 |
| (Panel) E. Coli P/A | SM9223B | Absent | Per/100mL | 1 | Present | Pass | N/A | N/A | LG-370 | 03/04/2026 16:14 | 03/05/2026 10:30 |
| Nitrate-N IC | EPA 300.0 | 5.70 | mg/L | 0.3 | 10 | Pass | N/A | N/A | SRC-365 | 03/05/2026 12:20 | 03/05/2026 12:20 |
| Turbidity | EPA 180.1 | 0.8 | NTU | 0.5 | 10.0 | Pass | N/A | N/A | MAC-365 | 03/05/2026 16:42 | 03/05/2026 16:42 |

**Approved By:**  Kevin Barnaba, President

HOME LAND LABS

Phone: (443) 505-8375 | Email: lab@homelandhealthyhomes.com

1220 E Joppa Rd. Ste C505
Towson, MD 21286
MD Lab # 365

108 Old Solomons Island Rd St L2
Annapolis, MD 21401
MD Lab # 106

3430 Rockefeller Ct
Waldorf, MD 20602
MD Lab # 139

2216 Commerce Rd St 2A
Forest Hill, MD 21050
MD Lab # 370

## Understanding the Results

This narrative is intended to help the recipient understand the results. The information listed below is for tests commonly sampled or analyzed by Home Land Labs. For a full list of the Environmental Protection Agency's (EPA) Primary and Secondary Drinking Water Standards, please visit www.epa.gov. For more information on the services we offer, please visit www.homelandhealthyhomes.com.

## Definitions and Acronyms

**Maximum Contamination Level (MCL):** A level established by the EPA, which is the "highest level of a contaminate that is allowed in drinking water." Any level that exceeds the MCL is considered unsafe for human consumption. Secondary MCL (SMCL) is used for Secondary Drinking Water Standards.

**Action Level:** A measure of the effectiveness of the corrosion control treatment in water systems.

**Not Detected:** Any level below the reporting limit. Analyst: Refers to the individual whom conducted the test.

**Method:** The type of analysis used to determine the results.

**Reporting Limit (RL):** The lowest level that can be detected by the method used for the analysis.

**Primary Drinking Water Standard:** Enforceable standards developed by the EPA. Levels that exceed the MCL for a particular standard are considered too unsafe for human consumption.

**Secondary Drinking Water Standard:** Standards developed by the EPA. Secondary standards are generally not considered to be dangerous to human health. They may cause aesthetic or cosmetic problems to the water quality or plumbing distribution system.

**The table below is for informational purposes only. See first page of report for your results.**

HOME LAND LABS

Phone: (443) 505-8375 | Email: lab@homelandhealthyhomes.com

1220 E Joppa Rd. Ste C505
Towson, MD 21286
MD Lab # 365

108 Old Solomons Island Rd St L2
Annapolis, MD 21401
MD Lab # 106

3430 Rockefeller Ct
Waldorf, MD 20602
MD Lab # 139

2216 Commerce Rd St 2A
Forest Hill, MD 21050
MD Lab # 370

| Parameter | MCL/SMCL | Type | Effects | Source | Common Treatment Options |
|---|---|---|---|---|---|
| Total Coliform Bacteria | Present or 1 MPN/100 mL | Primary | Used to indicate whether potentially harmful bacteria are present | Naturally present | Well Repair and Chlorination, UV Light |
| E. Coli Bacteria | Present or 1 MPN/100 mL | Primary | Stomach illness | Human and animal fecal waste | Well Repair and Chlorination, UV Light |
| Nitrate | 10.0 mg/L | Primary | Blue-Baby Syndrome | Fertilizers and sewage | Reverse Osmosis System |
| Nitrite | 1.0 mg/L | Primary | Blue-Baby Syndrome | Fertilizers and sewage | Reverse Osmosis System |
| Lead | Action Level of 0.015 mg/L | Primary | Slowed mental development. kidney problems, high blood pressure | Corrosion of household plumbing systems, erosion of natural deposits | Acid Neutralizer, Chemical Feeder (Soda Ash), Pipe Replacement |
| Radium Gross Alpha | 15.0 pCi/L | Primary | Increased risk of cancer | Naturally occurring | Water Softener |
| Radium 226 & 228 (combined) | 5.0 pCi/L | Primary | Increased risk of cancer | Naturally occurring | Water Softener |
| Volatile Organic Compounds (VOCs) | Varies | Primary | Increased risk of cancer | Gas and chemical leaks | Charcoal Filter |
| Arsenic | 0.010 mg/L | Primary | Skin damage, circulatory problems, cancer | Natural deposits, orchards, industrial waste | Reverse Osmosis System |
| Cadmium | 0.005 mg/L | Primary | Kidney damage | Pipes, natural deposits, industrial waste | Reverse Osmosis System, Water Softener |
| Copper | Action Level of 1.3 mg/L SMCL of 1.0 mg/L | Primary, Secondary | Primary - Gastrointestinal distress, liver or kidney damage Secondary - Metallic taste, blue-green staining | Corrision of household plumbing systems, erosion of natural deposits | Acid Neutralizer, Reverse Osmosis System, Pipe Replacement |
| Turbidity (Public Water Systems) | 1.0 NTU | Primary | Water treatment interference, possible bacteria indicator | Varies | Filtration, Source Protection |
| Turbidity (Private Wells) | 10.0 NTU (MD COP Requirement) | Primary | Possible bacteria indicator | Surface water, iron, other | Filtration, Source Protection |
| Iron | 0.3 mg/L | Secondary | Possible staining on plumbing fixtures and laundry | Naturally occurring | Water Softener |
| Chloride | 250 mg/L | Secondary | Salty taste, plumbing corrosion | Salt water instrusion, road salts | Source Protection, Whole House Reverse Osmosis System |
| pH | Outside of 6.5-8.5 (Neutral Range) | Secondary | Low pH: Bitter metallic taste, corrosion High pH: Slippery feel, soda taste, deposits | Naturally occurring | Acid Neutralizer |
| Hardness | Not Applicable | Not Applicable | US Dept. of the Interior & Water Quality Assoc. standards grains per gallon (gpg) specifies: Less than 1 = "soft", 1 - 3.5 = "slightly hard", 3.5 - 7.0 = "moderately hard", 7.0 - 10.5 = "hard", 10.5 and over = "very hard" | Naturally occurring | Hard water is treated with a Water Softener. |

# HOME LAND LABS

Order ID: 288980
Address: 13500 Blenheim Rd
Due Date: 03/06/2026

Phone: (443) 505-8375 Email: lab@homelandhealthyhomes.com

1220 E Joppa Rd. Ste C505
Towson, MD 21286
MD Lab # 365

108 Old Solomons Island Road, Ste L2
Annapolis, MD 21401
MD Lab # 106

3430 Rockefeller Court
Waldorf, MD 20602
MD Lab # 139

2216 Commerce Road, Ste 2
Forest Hill, MD 21050
MD Lab # 139

*Please provide completed form with samples. Highlighted fields are required.*

| Client Name: Liberty Pure Solutions | Property Address: |
|---|---|
| Email Address: Courtney@libertypure.con<br>Shannon@libertypure.com | 13500 Blenheim Rd N. |
| Phone Number: 410-527-1024 | Phoenix, MD 21131 |

**Field Collection Information**

| | | | |
|---|---|---|---|
| Sampler Name: Randy T Bratcher | | Field pH: 6.0 | |
| Sampler ID #: A365RB | | Field Chlorine (mg/L): N I D | |
| Date Sampled: 3/4/2026 | Time Sampled: 7:30 Am | Sand | |
| Well Tag Number: | | Clarity: | |
| Compliance sample for public water system? ☑ No ☐ Yes | | If yes, PWS ID #: | |

**Well Casing and Cap Condition**

Well Type: ☐ Drilled ☐ Well Pit ☐ Below Grade ☐ Artesian ☐ Hand Dug ☐ N/A ☐ Other:_____

| Height Above Grade: | Cap Type: | Casing: | Conduit |
|---|---|---|---|
| Sample Point: Utility Sink | | Water Conditioning: | |

**Requested Testing:** (Please check all that apply)

☑ Potability (Bacteria, Nitrate + Nitrite, Turbidity)
☐ FHA/VA (Bacteria, Nitrate + Nitrite, Turbidity, Lead, Iron)

| | | |
|---|---|---|
| ☐ Bacteria | ☐ Chlorides | ☐ Total Dissolved Solids |
| ☐ Lead | ☐ Hardness | ☐ Copper |
| ☐ Nitrate + Nitrite | ☐ Arsenic | ☐ VOCs |
| ☐ Iron | ☐ Cadmium | ☐ Other: _____ |
| ☐ Turbidity | ☐ Gross Alpha | ☐ Other: _____ |

List rush samples below
*Refer to table for rush turnaround times and fees*

**Release Signatures**

Released By: Randy T. Bratcher Date/Time: 3/4/2026 10:05 AM
Released By: _____ Date/Time: _____
Released By: _____ Date/Time: _____
Received in lab by: Shane McFaul Date/Time: 3/4/2026 10:05 Am

Rec'd on ice 4.4°C -SKM