

HOME LAND LABS

1220 East Joppa Road #C505
Towson, MD 21286
Phone 443.505.8375
lab@homelandhealthyhomes.com
State Certified Water Quality Lab 365

108 Old Solomons Island Road, Suite I2
Annapolis, MD 21401
Phone 443.505.8375
lab@homelandhealthyhomes.com
State Certified Water Quality Lab 106

3430 Rockefeller Court
Waldorf, MD 20602
Phone 443.505.8375
lab@homelandhealthyhomes.com
State Certified Water Quality Lab 139

Certificate of Analysis

Report Date: 08/10/2023

Client: Home Land Environmental
Property Address: 19701 Old York Rd
White Hall, MD 21161

Report No: 243103

Sample Time: 08/09/2023 08:05

Date & Time Received: 08/09/2023 15:00

Sampled By: Shane McFaul - 1474SM

Field Preservation: Ice

Sample Point(s): First floor bathroom sink, Lead-First draw kitchen sink

Water Conditioning Appears to be: Canister Sediment Filter

Field Chlorine: 0.00

Field pH: 5.17

Well Type: Drilled

Well Height: 16"

Cap Type: 2-piece metal/PVC, loose

Casing: 6" PVC

Conduit: Loose

Clarity: Clear

Sand: None Observed

Well Tag Number: No visible well tag

Primary Contaminants

Parameter	Method	Result	Pass/Fail	Units	MCL	RL	Analyst	Date of Analysis
Bacteria-Total Coliform	Colilert-18 Test	Absent	Pass	Per/100ml	Present	1	M K - 365	08/10/2023
Bacteria-E.coli	Colilert-18 Test	Absent	Pass	Per/100ml	Present	1	M K - 365	08/10/2023
Nitrate + Nitrite as N	EPA 353.2	1.9	Pass	mg/L	10.0	0.5	M K - 365	08/10/2023
Nitrite-N	EPA 353.2	Not Detected	Pass	mg/L	1.0	0.1	E H - 365	08/10/2023
Lead, Total	EPA 200.8	0.0162	Fail	mg/L	0.015	0.0005	M K - 365	08/10/2023
Turbidity	EPA 180.1	Not Detected	Pass	NTU	10.0	0.5	D J - 365	08/09/2023

Secondary Contaminants

Parameter	Method	Result	Acceptable/High	Units	SMCL	RL	Analyst	Date of Analysis
Iron, Total	H 8008	0.08	Acceptable	mg/L	0.30	0.05	D J - 365	08/10/2023

Report Notes

The lab added the following notes for your report:

- The result is failing/high. It is recommended to contact a licensed water conditioning company for remediation services. The use of a neutral, third party laboratory is recommended to confirm that the remediation was successful. Please contact us to schedule a resample.

Approved By: Denise Junis Denise Junis, Lab Director

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 Environmental 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 (ND): 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.

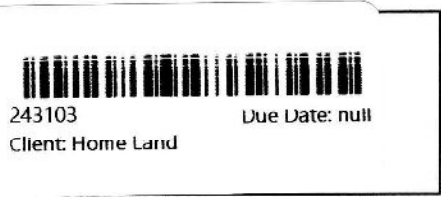
Secondary Drinking Water Standard: Standards developed by the EPA. Secondary standards are generally not considered to be dangerous to human health. They may cause aesthetic or cosmetic problems to the water quality or plumbing distribution system.

This table is for informational purposes only. See first page of report for your results.

Parameter	MCL/SMCL	Type	Effects	Source	Common Treatment Options
Total Coliform Bacteria	Present or 1 MPN/100mL	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/100mL	Primary	Stomach illness	Human and animal fecal waste	Well Repair and Chlorination, UV light
Nitrates	10.0 mg/L	Primary	Blue-Baby Syndrome	Fertilizers and sewage	Reverse Osmosis System
Nitrites	1.0 mg/L				
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	5.0 pCi/L				
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	Primary	Gastrointestinal distress, liver or kidney damage	Corrosion of household plumbing systems, erosion of natural deposits	Acid Neutralizer, Reverse Osmosis System, Pipe Replacement
	1.0 mg/L	Secondary	Metallic taste; blue-green staining		
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
Chlorides	250 mg/L	Secondary	Salty taste, plumbing corrosion	Salt water intrusion, 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

Is the sample for a public water system? Yes No

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 Road, Ste L2 Annapolis, MD 21401 MD Lab # 106
 3430 Rockefeller Court Waldorf, MD 20602 MD Lab # 139
 2216 Commerce Road, Ste 2A Forest Hill, MD 21050

Client Name: Home Land Environmental	Property Address: 19701 Old York Road
Email Address: Info@homelandhealthyhomes.com	White Hall, MD 21161
Phone Number 443-995-5385	

Field Collection Information

Sampler Name: <i>Shane McFaul</i>	Field pH: <i>5.17</i>
Sampler ID #: <i>14745M</i>	Field Chlorine (mg/L): <i>0.0</i>
Date Sampled: <i>8/9/2023</i> Time Sampled: <i>8:05</i>	Sand: <i>None</i>
Well Tag Number: BA 95 2579 <i>No Visible Well Tag</i>	Clarity: <i>Clear</i>

Well Casing and Cap Condition

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

Height Above Grade: <i>16"</i>	Cap Type: <i>2-piece metal (PVC) (loose)</i>	Casing: <i>6" PVC</i>	Conduit: <i>Loose</i>
Sample Point: <i>Lead: 1st draw kitchen sink</i>	Water Conditioning: <i>CSF</i>		
<i>Others: 1st floor bathroom sink</i>			

Requested Testing: (Please check all that apply)

- Potability (Bacteria, Nitrate + Nitrite, Turbidity)
- FHA/VA (Bacteria, Nitrate + Nitrite, Turbidity, Lead, Iron)
- Bacteria
- Lead
- Nitrate + Nitrite
- Iron
- Turbidity
- Chlorides
- Hardness
- Arsenic
- Cadmium
- Gross Alpha
- Total Dissolved Solids
- Copper
- VOCs
- Other: _____
- Other: _____

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

Release Signatures

Released By: *Shane McFaul* Date/Time: *8/9/2023 3:00 PM*
 Released By: _____ Date/Time: _____
 Released By: _____ Date/Time: _____
 Received in lab by: *[Signature]* Date/Time: *8/9/23 3pm*
 Sample temperature upon receipt: *4.2C*