HOME LAND LABS

9106 Philadelphia Road, Suite 106
Rosedale, MD 21237
Phone 443.505.8375
lab@homelandhealthyhomes.com
State Certified Water Quality Lab 353

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: 10/4/2021

Client: Well Water Solutions, Inc.
Property Address: 11609 Garrison Forest Rd
Owings Mills, MD 21117

Report No: 211107
Sample Time: 09/27/21 11:30
Date & Time Received: 09/28/21 10:45
Sampled By: John Moseman 0189JM (Exp. 3/14/2022)
Preservation: Ice
Sample Point(s): Well, Kitchen
Water Conditioning Appears to be: None

Chlorine Residual: Not noted
Field pH: Not noted
Well Type: Drilled
Well Height: 2'
Cap Type: 2-piece
Casing: Steel
Conduit: PVC
Clarity: Not noted
Sand: Not noted
Well Tag Number: BA-81-0014

Primary Contaminants

Parameter	Method	Result	Pass/Fail	Units	MCL	RL	Analyst	Date of Analysis
Bacteria-Total Coliform	Colilert Test	Absent	Pass	Per/100ml	Present	1	AND-353	09/29/2021
Bacteria-E.coli	Colilert Test	Absent	Pass	Per/100ml	Present	1	AND-353	09/29/2021
Nitrate + Nitrite as N	EPA 353.2	3.2	Pass	mg/l	10	0.5	MAV-353	09/28/2021

Secondary Contaminants

Parameter	Method	Result	Acceptable /High	Units	SMCL	RL	Analyst	Date of Analysis
pH	EPA 150.1	6.1	-	pH Units	-	1	MAV-353	09/28/2021
Turbidity	EPA 180.1	Not Detected	Acceptable	NTU	10	0.5	AND-353	09/28/2021

Approved By Kevin Barnaba Kevin Barnaba, Lab Director

HOME LAND
LABS

Understanding the Results

This narrative is intended to help the recipient to understand the results. The results listed below are only for tests commonly sampled or analyzed by Home Land Environmental Health Labs. For a full list of the Environmental Protection Agency's (EPA) Primary and Secondary Standards, go to: https://www.epa.gov/sites/production/files/201606/documents/npwdr_complete_table.pdf

Definitions and Acronyms

Analyst: Refers to the individual whom conducted the test.

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 not safe for human consumption.

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

Not Detected (ND): Any level below the reporting limit.

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

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

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.

*Parameter analyzed by **MSS:** Maryland Spectral Services, **FRC:** Florida Radiochemistry, **ECL:** Enviro-Chem Laboratories

This table is for informational purposes only. See page 1 for your results

Parameter	MCL	Type	Effects	Source	Treatment
Total Coliform	Present	Primary	Used to indicate whether potentially harmful bacteria are present	Naturally Present	Well Repair and Chlorination, UV light
E. coli	Present	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
Nitrites	1.0 mg/L	Primary	Blue-Baby Syndrome	Fertilizers and Sewage	Reverse Osmosis
Lead	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
Gross Alpha	15.0 pCi/L	Primary	Increased risk of cancer	Naturally Occurring	Water Softener
Radium 226 & 228	5.0 pCi/L	Primary	Increased risk of cancer	Naturally Occurring	Water Softener
Volatile Organic Compounds (VOC)	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
Cadmium	0.005 mg/L	Primary	Kidney Damage	Pipes, Natural Deposits, Industrial Waste	Reverse Osmosis
Copper	1.3 mg/L	Primary	Gastrointestinal distress, Liver or Kidney Damage	Corrosion of household plumbing systems; Erosion of natural deposits	Acid Neutralizer, Reverse Osmosis, Pipe Replacement
Iron	0.3 mg/L	Secondary	Possible staining on plumbing fixtures and laundry	Naturally Occurring	Water Softener
Turbidity	10.0 NTU	Secondary	Interferes with filtration	Naturally Occurring	Sediment Filter
pH	6.5-8.5 (Neutral range)	Secondary	Low pH: Bitter metallic taste, CorrosionHigh pH: Slippery feel; Soda taste; Deposits	Naturally Occurring	Acid Neutralizer

Chain of Custody Form

HOME LAND LABS

211107 Date Due: 9/30/20
Client: Well Water Solutions, Inc.
Project:

9106 Philadelphia Road, Suite 106
Rosedale, MD 21237
(443) 505-8375
MD Lab # 353

108 Old Solomons Island Road, Suite L2
Annapolis, MD 21401
(410) 224-4304
MD Lab # 106

3430 Rockefeller Court
Waldorf, MD 20602
(410) 224-4304
MD Lab # 139

Client Name:
Well Water Solutions, Inc.
Email Address:
jemoseman@wellwatersolutions.net & jbieber@wellwatersolutions.net
Phone Number:
410-936-7185 or 301-674-3137

Property Address:
11609
Garrison Forest rd
Owings Mills
21117

Field Collection Information

Sampler Name:	John Moseman
Sampler ID #:	0189JM
Date and Time Sampled:	9/27/2021 @ 11:30
Well Tag Number:	BA 81- 0014

Field pH:	
Field Chlorine (mg/L):	Present / Absent
Sand:	Present / Absent
Clarity:	Clear / Un-Clear

Well Casing and Cap Condition

Height Above Grade: 2FT	Cap Type: 1 piece / 2 piece /	Casing: Steel / PVC /	Conduit: PVC /

Sample Point: Well / Kitchen	Water Conditioning: N/A

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

☑ Potability (Bacteria, Nitrates, pH, Turbidity)
☐ FHA/VA (Bacteria, Nitrates, Nitrites, pH, Turbidity, Lead and Iron)

☐ Bacteria	☐ Arsenic	☐ Other: Radium Short Term Gross Alpha & Gross Beta
☐ Lead	☐ Cadmium	☐ Other: Radium Long Term 226 & 228
☐ Nitrates	☐ Fluoride	☐ Other: TDS ☐ Sodium
☐ Iron	☐ Pesticides	☐ Other: Chlorides
☐ Gross Alpha	☐ VOC	☐ Other:
☐ Saltwater Intrusion	☐ Hardness	☐ Other:

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

Release Signatures

Released By: John Moseman — Date/Time: 9/27/2021 @ 11:30
Released By: — Date/Time: 9/28 @ 8:30
Released By: — Date/Time: 9/28/21 10:45
Received in lab by: — Date/Time: 9/28/21 10:45AM