9106 Philadelphia Road
Suite 106
Rosedale, MD 21237

HOME LAND ENVIRONMENTAL HEALTH LABS
"Healthy Homes Start Here"

State Certified
Water Quality
Laboratory #353

Certificate of Analysis

Property Information	Customer Information
Property Address: **4035 Osborn Road** **Reisterstown, MD 21136** Well Tag Number: **None**	Name: **Well Water Solutions** Phone Number: **(410) 935-7185** Email: **jemoseman@wellwatersolutions.net**

Field Data		
Date & Time Sampled: **10/11/2018 2:30PM** Date & Time Received: **10/12/2018 9:30AM** Sampled By: **John Moseman** Sampler ID: **0130JEM** Sample Location: **Not noted**	pH: **5.0** Chlorine Residual: **0.0** Clarity: **Clear** Sand: **None** Preservation: **Cool, 4°C**	Well Type: **Buried** Well Height: **N/A** Cap Type: **N/A** Casing: **N/A** Conduit: **N/A**
Water Conditioning: **Not noted**		

Parameter	Method	Result	Pass/Fail	Units	MCL	RL	Analyst	Date of Analysis
Total Coliform	Colitag	**Present**	**Fail**	Per/100mL	Present	1.0	KMB	**10/13/2018**
E. Coli	Colitag	**Present**	**Fail**	Per/100mL	Present	1.0	KMB	**10/13/2018**
Nitrate-Nitrite	EPA 353.2	**ND**	**Pass**	mg/L	10.0	0.5	KMB	**10/12/2018**
Turbidity	EPA 180.1	**24.0**	**Fail**	NTU	10.0	0.5	KMB	**10/12/2018**

Approved By: Kevin Barnaba Kevin Barnaba, Lab Director Report Date: 10/15/2018

HOME LAND ENVIRONMENTAL HEALTH 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

Analysist: 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.

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, Corrosion High pH: Slippery feel; Soda taste; Deposits	Naturally Occurring	Acid Neutralizer