

# Transient Non-Community Source Water Assessment and Protection (SWAP) Report

For  
COLD SPRING



Prepared by the  
Massachusetts Department of  
Environmental Protection,  
Bureau of Resource  
Protection, Drinking Water  
Program

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## What is SWAP?

The Source Water Assessment Protection (SWAP) Program, established under the federal Safe Drinking Water Act, requires every state to:

- inventory land uses within the recharge areas of all public water supply sources;
- assess the susceptibility of drinking water sources to contamination from these land uses; and
- publicize the results to provide support for improved protection of sources.

The Massachusetts Department of Environmental Protection (DEP) Drinking Water Program is undertaking this task. The rankings of susceptibility of your well(s) to potential contamination are listed in Table 1.

**Table 1: Public Water Supply Information**

<i>PWS Name</i>	Cold Spring
<i>PWS Address</i>	Tyringham Rd
<i>City/Town</i>	Lee, Massachusetts
<i>PWS ID Number</i>	1150002

**Table 2: Well Information**

<i>Well Name</i>	<i>Well (Source) ID#</i>	<i>Zone I (feet)</i>	<i>Zone II</i>	<i>Microbial Susceptibility*</i>	<i>Non-Microbial Susceptibility**</i>
Well #1 Spring	1150002-01G	682	Refer to the map	High	Moderate

\* Common sources of microbial contamination include septic systems, wildlife and livestock operations. These types of activities in the source protection area increase your well's Microbial Susceptibility.

\*\* Sources of non-microbial contamination include inorganic and organic chemicals. Inorganic contaminants include metals and naturally occurring minerals. Organic contaminants include fuels, degreasing solvents, herbicides and pesticides.

## What is the Purpose of This Report?

This report identifies the most significant *potential contaminant sources* that could threaten your well's water quality. Your susceptibility ranking does not imply poor water quality. Actual water quality is best reflected by the results of your regular water tests.

## What is my Well's Source Protection Area?

A well's source protection area is the land around your well where protection activities should be focused. Your public drinking water supply well has a Zone I protective radius and a Contribution Area or Zone II. The Zone I is the area that should be owned or controlled by the water supplier and limited to water supply activities. The Contribution Area is the larger area that is likely to contribute water to the spring. Refer to **Figure 1** on page 2 for an example of a Zone I and Contribution Area.

The Contribution Area of Zone II is the primary recharge area for the aquifer and the spring source. This area was defined by a hydrogeologic study conducted for the MA DEP SWAP program by the USGS. The Zone II was approved by DEP. Refer to the attached map to determine the land within your Zone II.

### What is Susceptibility?

Susceptibility is a measure of your well's potential to become contaminated by land uses and activities within the Zone I and Contribution Area (Zone II). Please see the enclosed map for your well's Zone I and Zone II areas.

The possibility of a release from potential contaminant sources is greatly reduced if best management practices (BMPs) are used. The susceptibility determination for your well did not take into account whether BMPs are being used.

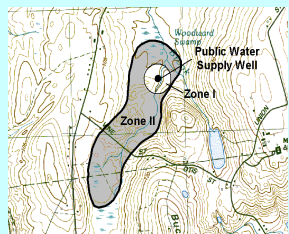
Susceptibility of a drinking water well does *not* mean a customer will drink contaminated water. Water suppliers protect drinking water by monitoring water quality, treating water supplies, and using BMPs and source protection measures to ensure that safe water is delivered to the tap.

**Figure 1: ZONE I IWPA  
EXAMPLE Source Protection  
Area for WELL #1 SPRING  
(1150002-01G)**

Zone I = 681 ft.  
Refer to map for the  
Contribution Area

### What is a Protection Area?

A spring's water supply protection area is the land around the spring where protection activities should be focused. Each spring has a Zone I protective area and a contribution area (Zone II).



### How Was My Well's Susceptibility Determined?

Your spring's **high** susceptibility to potential microbial threats is based on the construction of the source. The **moderate** susceptibility to potential non-microbial threats is based on the local roads within the Zone I.

This source water assessment report is based on information provided by you on your Public Water Supply Annual Statistical Report, water quality data and/or from other sources of information. DEP has not verified the accuracy of the information submitted with the report.

### Recommendations for your Well

All public water systems with groundwater sources should ensure that only activities necessary for the operation and maintenance of the drinking water system occur within the well's Zone I.

#### Specific Recommendations:

- ✓ inspect the Zone I and IWPA regularly;
- ✓ work with the Board of Health and other local officials to make sure your well(s) are included in local regulations and inspection efforts;
- ✓ restrict access to the well and post the area with *Drinking Water Protection Area* signs;
- ✓ make certain that a proper sanitary seal is in place for the well (grouted casing and concrete pad);
- ✓ remove oil/hazardous materials storage tanks, and hazardous materials use or storage from the Zone I;
- ✓ do not use pesticides, fertilizers or road salt within the Zone I;
- ✓ address septic system issues in Zone I; remove septic system, relocate well or pursue upgrading options;
- ✓ water systems not meeting DEP Zone I requirements must get DEP approval and address Zone I issues prior to increasing water use or modifying system.

#### Need More Information?

Additional information or sources of information can be obtained by calling Catherine Skiba at (413) 755-2119 or visiting DEP's Drinking Water Web site at <http://www.state.ma.us/dep/brp/dws>.

#### Glossary

- Best Management Practices (BMPs) are operational procedures used to prevent or reduce pollution.
- Public Water System is a system for the provision to the public of piped water for human consumption, if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days of the year.