

Protecting Your Groundwater

What to do:

Recognize and manage possible sources of contamination on your property

Use hazardous products as directed and dispose of them properly

Conserve water

Use biodegradable soap when washing your car

Select plants in your yard that requires low fertilizer application

If you have a septic system, make sure you keep it properly maintained



What not to do to:

Do not dispose of used motor oil and other hazardous chemicals by pouring them in the ground or down the drain

Do not over-fertilize your lawn

Do not spray pesticide where a pest problem has not been identified.

Do not divert storm drains or basement pumps into septic systems.

Wellhead Protection is a Community Effort

Groundwater is typically very high quality drinking water. Conservation and other measures are essential to its quality. By taking a proactive approach to its protection, your community is ensuring that your drinking water stays safe and pure.

Wellhead Protection is a Community Effort – cont.

To that end, members of your community are currently drafting a wellhead protection plan. You can play a part in your community's drinking water quality by reading the plan and by attending community meetings on the topic.

To get involved, you can participate in the local advisory committee that is currently working on your plan. You can also participate in clean-up activities in your neighborhood, or you can help educate your neighbors and others about wellhead protection.

For More Information

If you have questions about your water quality or your Wellhead Protection Plan, contact Todd Danielson, Loudoun County Sanitation Authority, P.O. Box 4000, Leesburg, Virginia 20177 or call 703-771-1095.

For general water information, click on www.lcsa.org

For source water protection, click on www.epa.gov/safewater/protect.html

For safe lawn care, click on www.epa.gov/oppfead1/publications/lawncare.pdf

For water conservation, click on www.mwcog.org/environment/water/watersupply

Prepared in cooperation with:



Keeping Your Drinking Water Safe



Beacon Hill Wellhead Protection Plan

Proclamation for Jamestown, Virginia
"There shall be no man or woman dare to wash any unclean linen, wash clothes,..... nor rinse or make clean any kettle, pot or pan, or any suchlike vessel within twenty feet of the old well or new pump. Nor shall anyone aforesaid within less than a quarter mile of the fort, dare to do the necessities of nature, since these unmanly, slothful, and loathsome immodesties, the whole fort may be choked and poisoned."

(Governor Gage of Virginia, 1610)

What is Wellhead Protection?

Wellhead protection is a method of preventing contamination of a public water supply by effectively managing potential contaminant sources in the area that can seep into the water that feeds your well.

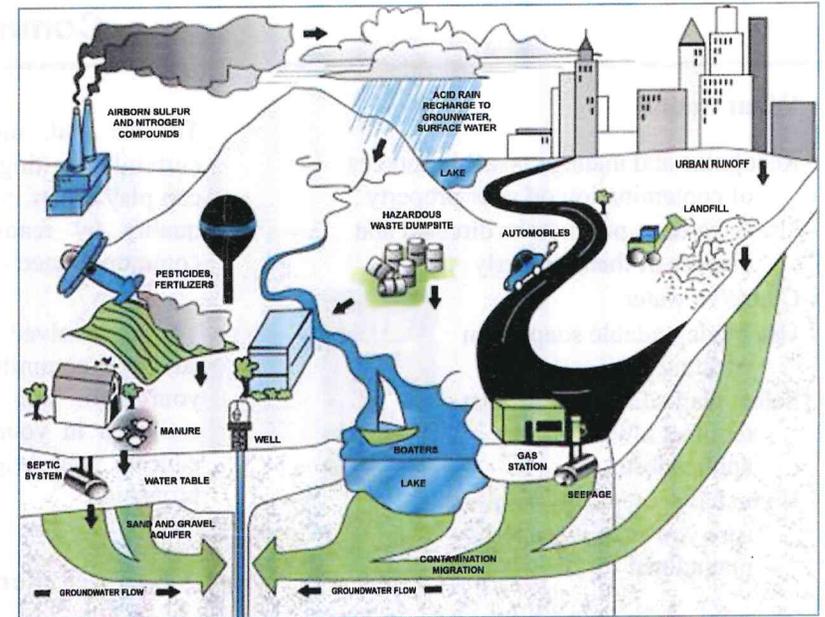
For water systems that rely on wells, your wellhead protection zone is the land surface surrounding the well. It's where rainfall percolates down to the groundwater and is then pumped out from your well. This "recharge zone" is the area that potentially affects your source water.

Protecting source water helps safeguard community water supplies. Your community is developing a wellhead protection plan, and everyone needs to be involved in order for the

The quality of your drinking water affects public health and the economic well-being of the community. Once water is contaminated, clean-up is costly and may not be feasible. The required treatment adds to management and operating costs. In addition, developing new sources of water is expensive.

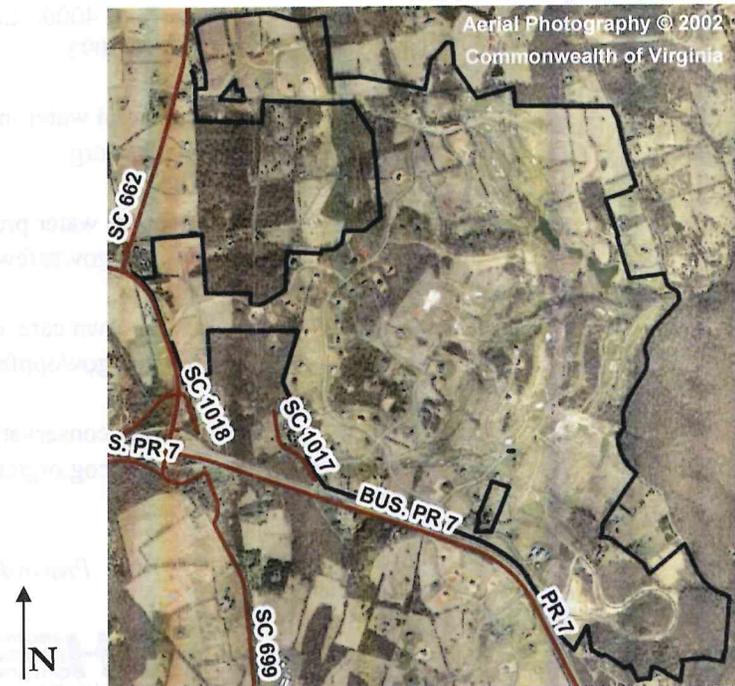
Contaminants introduced at the land surface may infiltrate to the water table and flow toward points of discharge such as drinking water wells and streams. Potential threats in your wellhead protection area include septic systems and the overuse of fertilizers and pesticides both on the golf course and residential lawns.

Drinking Water Threats



Your Wellhead Protection Zone

A rough estimate of the recharge zone for a well is a one-mile radius surrounding the well. So, your wellhead protection zone includes much of the subdivision and some adjoining land. This means that any activities on your property could potentially have an impact on your drinking water.



Protecting Your Groundwater:

What to do:

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What NOT to do to:

- Do not dispose of used motor oil and other hazardous chemicals by pouring them in the ground or down the drain.
- Do not over-fertilize your lawn.
- Do not indiscriminately spray pesticide where a pest problem has not been identified.
- Do not divert storm drains or basement pumps into septic systems.

Ways to Get Involved:

- Participate in clean-up activities in your Neighborhood
- Help Identify Potential Sources of Contamination in your Source Water Protection Area
- Help Educate your Neighbors and Others about Source Water Protection

Did You Know?

Just 1 gallon of gasoline can contaminate 1,000,000 gallons of water!

Source Water Protection is a Community Effort

What is Round Hill Doing to Protect Your Water?

Round Hill has formed a committee that has developed a wellhead protection plan that focuses on prevention of contamination. Everyone must be involved for the wellhead protection plan to be effective!

A Quick Summary Review of Wellhead Protection:

- Your Community is privileged to have extremely high quality drinking water. Conservation of this water is essential.
- Your Community is taking a proactive approach to ensure that your drinking water stays safe and pure.
- You are living on top of your drinking water and your actions can affect the drinking water for the entire community.

More Information is Available:

On Source Water Protection:

www.epa.gov/safewater/protect.html

On Septic Systems at:

<http://www.epa.gov/safewater/protect/pdfs/septic.pdf>

On Water Conservation at:

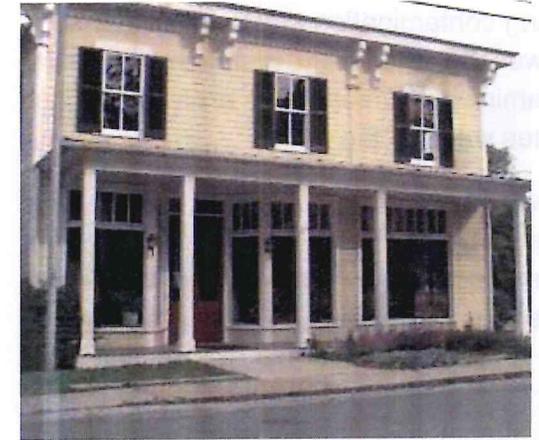
www.mwcog.org/environment/water/watersupply/wisewater.asp

For questions regarding the Town of Round Hill Wellhead Protection Plan contact:

Town of Round Hill
P. O. Box 36
Round Hill, VA 20142

540-338-7878

Keeping Your Drinking Water Safe



The Town of Round Hill

Presents

Your Wellhead Protection Plan

Proclamation for Jamestown, Virginia
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Prepared in cooperation with:



VDH VIRGINIA
DEPARTMENT
OF HEALTH
Protecting You and Your Environment

What is Source Water Protection?

Source water protection is a method of preventing contamination of a public water supply well by effectively managing potential contaminant sources in the area which contributes water to the well.

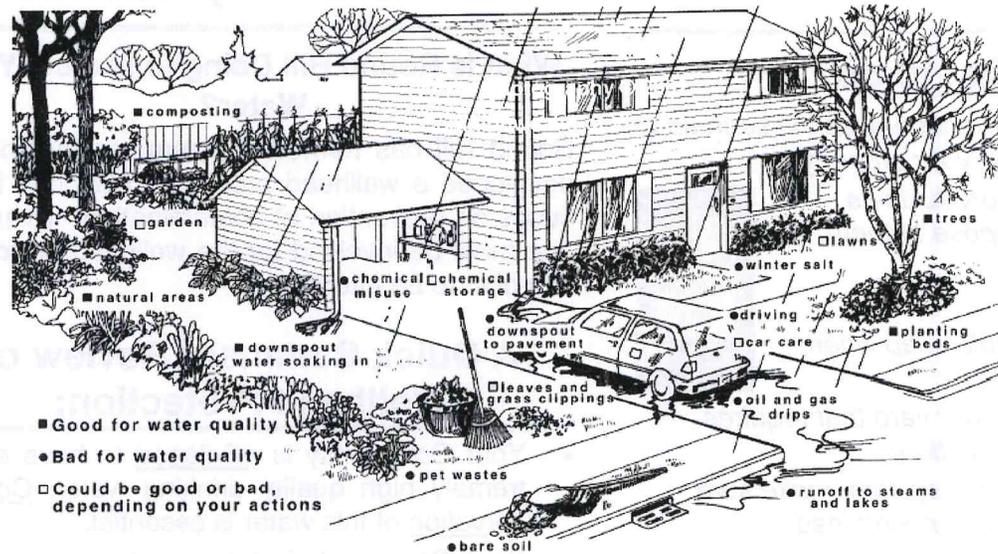
For water systems that rely on wells, your “Source Water Protection Area” (SWPA) is the land surface surrounding the well where rainfall trickles down to the groundwater and is then pumped out from your well. This “recharge zone” is the area that potentially affects your source water, and is also called the “Wellhead Protection Area” (WHPA).

Source water protection helps safeguard community water supplies; while your community has developed a wellhead protection plan, everyone needs to get involved for the plan to be successful!

Why Does Source Water Protection Matter to Me?

- The quality of drinking water affects public health
- The quality of drinking water affects the economic well-being of our communities
- Once water is contaminated:
 - Clean-up is costly and may not be feasible
 - Required treatment adds to management and operating costs
- Developing new sources is expensive

What are the Threats to My Drinking Water?

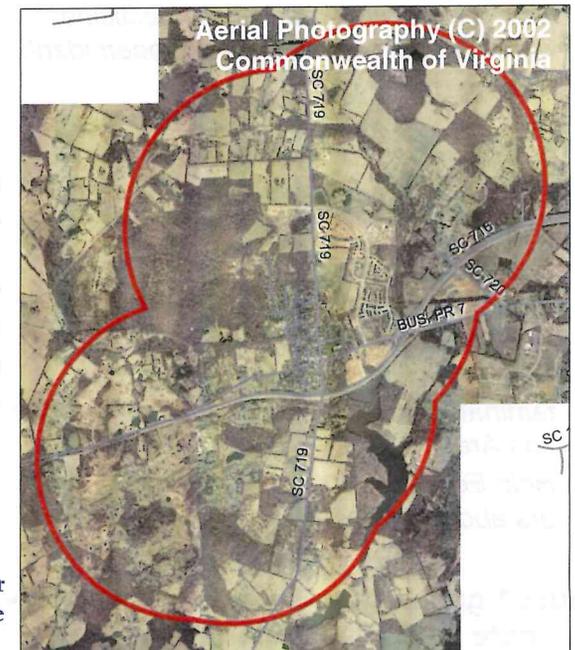


Examples of Items Around Your House that Can Affect Your Water Quality

Contaminants introduced at the land surface may infiltrate to the water table and flow toward points of discharge such as drinking water wells and streams. Potential threats in your wellhead protection area include underground storage tanks, septic systems, and overuse of fertilizers and pesticides. In one community, just one leaky floor drain at a dry cleaner contaminated the town’s well and cost over \$1.7 million in clean up costs and over \$30,000 every year in treatment costs.

Where is my Source Water Protection Area?

The Round Hill water system has 9 separate wells that supply high quality water. A reasonable estimate of the source water protection area for each well is a one-mile radius surrounding the well. Thus, your source water protection area includes all of land within Town limits and some adjoining land. This means that any activities on your property could potentially have an impact on your drinking water.



Your Source Water Protection Zone

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What NOT to do to:

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Ways to Get Involved:

- Participate in clean-up activities in your Neighborhood
- Help Identify Potential Sources of Contamination in your Wellhead Protection Area
- Help Educate your Neighbors and Others about Wellhead Protection

Wellhead Protection is a Community Effort

Know your Wellhead Protection Plan:

- Develop and incorporate the 'Mountain Spring' as a third source for the water system and develop a wellhead protection plan for the Spring
- Request VDOT to improve the Spring Hollow culverts near Well #2;
- Notify VDOT State and District offices of the Wellhead Protection Area (WHPA) and that it is crossed by I-81;
- Notify Town and County Emergency Response personnel of WHPA;
- Identify Active septic systems within the WPA and distribute brochures on the importance of regular septic system maintenance.
- If approved, install signs that state "Entering a Ground Water Protection Area" along major arteries in town; and
- Develop and annually review and update operating and emergency response procedures dealing with wellhead protection issues.

For questions regarding the wellhead protection plan of Edinburg or to request a copy contact:

Town of Edinburg
P. O. Box 85
Edinburg, VA 22824
540-984-8521

Keeping Your Drinking Water Safe

WELLHEAD PROTECTION PLAN



Prepared for:
TOWN OF EDINBURG
P. O. Box 85
Edinburg, VA 22824



Prepared by:
Olver Incorporated
1116 South Main Street, Suite 100
Blacksburg, Virginia 24060



June 2004
Project No. 12271.01-001



The Town of Edinburg
With the cooperation of
The Virginia Department of Health,
Office of Drinking Water
&
Olver Incorporated
Presents your
Wellhead Protection Plan



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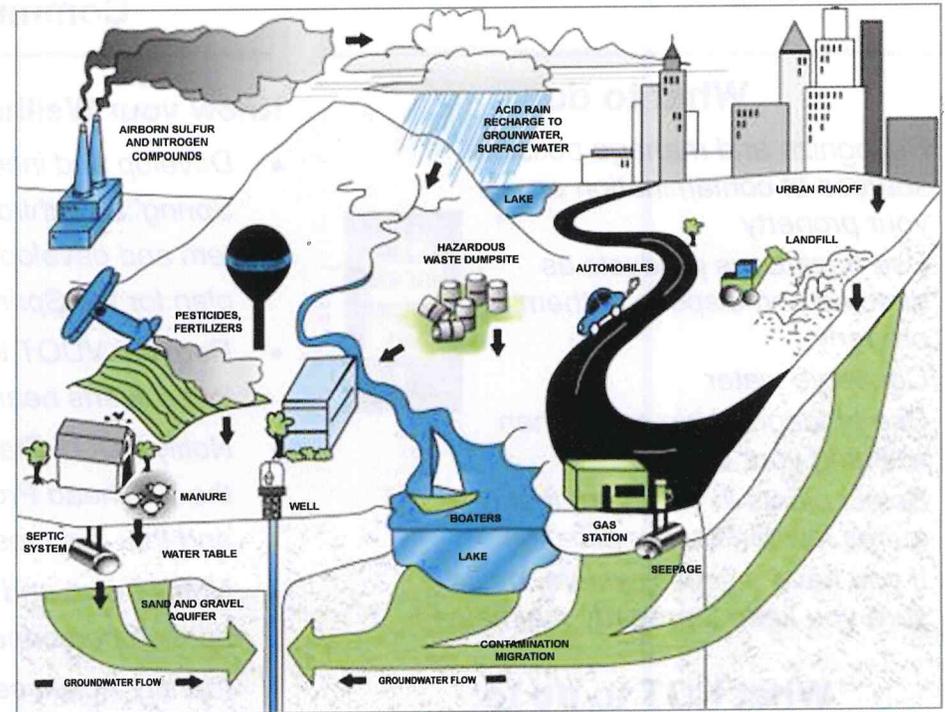
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Why Should Source Protection Matter to You?

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What are the Threats to My Drinking Water?

Contaminants introduced at the land surface may infiltrate to the water table and flow toward points of discharge such as drinking water wells and streams. Potential threats in your wellhead protection area include underground storage tanks, sinkholes, septic systems, animal feeding operations, and overuse of fertilizers and pesticides.

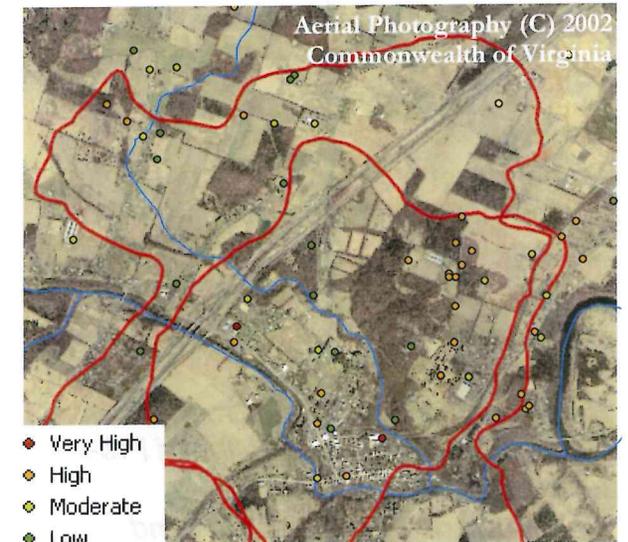


Examples of Threats to Source Water

Where is my Wellhead Protection Area?

Wellhead protection areas are outlined by ENSAT, INC based on the estimated area that recharges the groundwater and contributes to the public water supply.

The delineations of the wellhead protection areas, shown below are based on watershed boundaries, general hydrology, topography, bedrock and surficial geology, structural geology, fracture traces and lineaments, and dissolution features such as sinkholes.



Examples of Threats to Wellhead Protection Zones

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Prepared in cooperation with:



Keeping Your Drinking Water Safe



Lenah Run Wellhead Protection Plan

Proclamation for Jamestown, Virginia
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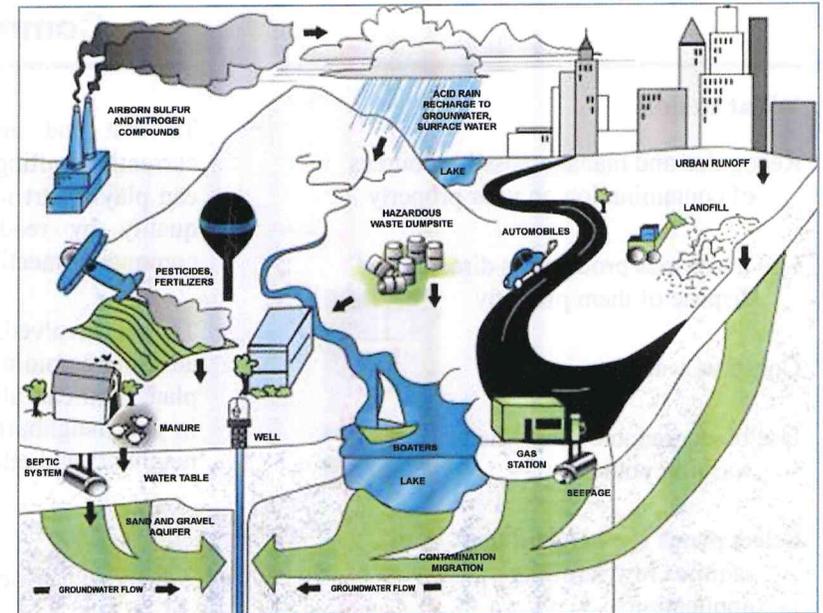
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Drinking Water Threats



Your Wellhead Protection Zone

A rough estimate of the recharge zone for a well is a one-mile radius surrounding the well. So, your wellhead protection zone includes much of the subdivision and some adjoining land. This means that any activities on your property could potentially have an impact on your drinking water.

