Massachusetts Department of Environmental Protection

Source Water Assessment and Protection (SWAP) Report for

Dedham-Westwood Water District

What is SWAP?

The Source Water Assessment and 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.

Susceptibility and Water Quality

Susceptibility is a measure of a water supply's potential to become contaminated due to land uses and activities within its recharge area.

A source's susceptibility to contamination does *not* imply poor water quality.

Water suppliers protect drinking water by monitoring for more than 100 chemicals, disinfecting, filtering, or treating water supplies, and using source protection measures to ensure that safe water is delivered to the tap.

Actual water quality is best reflected by the results of regular water tests. To learn more about your water quality, refer to your water supplier's annual Consumer Confidence Reports.

Table 1: Public Water System Information

PWS Name	Dedham-Westwood Water District
PWS Address	50 Elm Street/P.O. Box 9137
City/Town	Dedham, Massachusetts 02027
PWS ID Number	3073000
Local Contact	Robert Lexander
Phone Number	781-326-6890

Introduction

We are all concerned about the quality of the water we drink. Drinking water wells may be threatened by many potential contaminant sources, including storm runoff, road salting, and improper disposal of hazardous materials. Citizens and local officials can work together to better protect these drinking water sources.

Purpose of this report:
This report is a planning tool to support local and state efforts to improve water supply protection. By identifying land uses within water supply protection areas that may be potential sources of contamination, the assessment helps focus protection efforts on appropriate Best Management Practices (BMPs) and drinking water source protection measures.

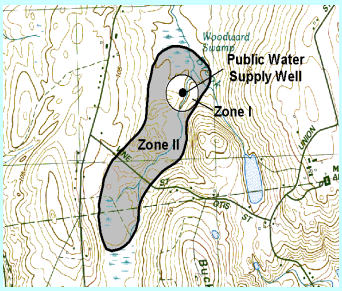
Refer to Table 3 for Recommendations to address potential sources of contamination. Department of Environmental Protection (DEP) staff are available to provide information about funding and other resources that may be available to your community.

This report includes the following sections:

1. Description of the Water System
2. Land Uses within Protection Areas
3. Source Water Protection Conclusions and Recommendations
4. Appendices

What is a Protection Area?

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



Glossary

Aquifer: An underground water-bearing layer of permeable material that will yield water in a usable quantity to a well.

Hydrogeologic Barrier: An underground layer of impermeable material (i.e. clay) that resists penetration by water.

Recharge Area: The surface area that contributes water to a well.

Zone I: The area closest to a well; a 100 to 400 foot radius proportional to the well's pumping rate. This area should be owned or controlled by the water supplier and limited to water supply activities.

Zone II: The primary recharge area for the aquifer. This area is defined by hydrogeologic studies that must be approved by DEP. Refer to the attached map to determine the land within your Zone II.

Section 1: Description of the Water System

Zone II #: 256 ***Susceptibility:*** Moderate

Well Names	***Source IDs***
Bridge Street Well A2	3073000-01G
Bridge Street Well B1	3073000-02G
Bridge Street Well D1	3073000-03G
Bridge Street Well E	3073000-04G
Bridge Street Well F	3073000-05G

Zone II #: 113 ***Susceptibility:*** High

Well Names	***Source IDs***
White Lodge Well #1	3073000-06G
White Lodge Well #2	3073000-07G
White Lodge Well #3	3073000-08G
White Lodge Well #4	3073000-09G
White Lodge Well #5	3073000-13G

Zone II #: 532 ***Susceptibility:*** High

Well Names	***Source IDs***
Rock Meadow Well #11	3073000-10G
Rock Meadow Tubular Wells	3073000-12G

The Dedham-Westwood Water District (Dedham-Westwood) maintains and operates twelve public water supply sources. Dedham-Westwood's sources are located within the Charles River Basin and the Neponset River Basin. The Bridge Street Well A2 (01G), Bridge Street Well B1 (02G), Bridge Street Well D1 (03G), Bridge Street Well E (04G), and Bridge Street Well F (05G) wellhead protection area is located entirely in Dedham; the White Lodge Well #1 (06G), White Lodge Well #2 (07G), White Lodge Well #3 (08G), White Lodge Well #4 (09G), and White Lodge Well #5 (13G) wellhead protection area is located in Dedham, Westwood, Canton, Milton and Norwood; and the Rock Meadow Well #11(10G) and the inactive Rock Meadow Tubular Wells (12G) wellhead protection area is located entirely in Westwood. These wells are located in aquifers with a high vulnerability to contamination due to the absence of hydrogeologic barriers (i.e. clay) that can prevent contaminant migration. Please refer to the attached map to view the boundaries of the Zone II.

For current information on monitoring results and treatment, please contact the Public Water System contact person listed above in Table 1 for a copy of the most recent Consumer Confidence Report. Drinking water monitoring reporting data are also available on the web at http://www.epa.gov/safewater/ccr1.html.

Section 2: Land Uses in the Protection Areas

The Zone IIs for Dedham-Westwood are primarily a mixture of forest and residential land uses, with a small portion consisting of commercial and industrial activities (refer to attached map for details). Land uses and activities that are potential sources of contamination are listed in Table 2, with further detail provided in the Table of Regulated Facilities and Table of Underground Storage Tanks in Appendix B.

Key Land Uses and Protection Issues include:

1. Activities in Zone I
2. Hazardous Materials Storage and Use
3. Residential Land Uses
4. Transportation Corridors
5. Oil or Hazardous Material Contamination Sites
6. Comprehensive Wellhead Protection Planning

The overall ranking of susceptibility to contamination for the White Lodge Wells and the Rock Meadow Wells is high, based on the presence of at least one high threat land use within the water supply protection areas; the susceptibility for the Bridge Street Wells is moderate, based on the presence of at least one moderate threat land use within the water supply protection area, as seen in Table 2.

1. Activities in Zone Is – The Zone I for all of Dedham-Westwood's wells is a 400 foot radius around each wellhead, except for the inactive tubular wellfield, for which the Zone I is a 250-foot radius around each well. Massachusetts drinking water regulations (310 CMR 22.00) require public water suppliers to own the Zone I, or control the Zone I through a conservation restriction. Only water supply activities are allowed in the Zone I. However, many public water supplies were developed prior to the Department's regulations and contain non-water supply activities such as homes and public roads. The Zone Is for the Bridge Street Wells contain homes and local roads; the Zone Is for White Lodge Wells #1, #2, #3, and #4 contain commercial/industrial buildings and parking for numerous cars; the Zone I for White Lodge Well #1 contains an underground storage tank; the Zone Is for White Lodge Wells #2 and #4 contain active railroad tracks; the Zone I for Rock Meadow Well #11 contains a home; and the Zone I for Rock Meadow Tubular Wells contains homes and a local road.

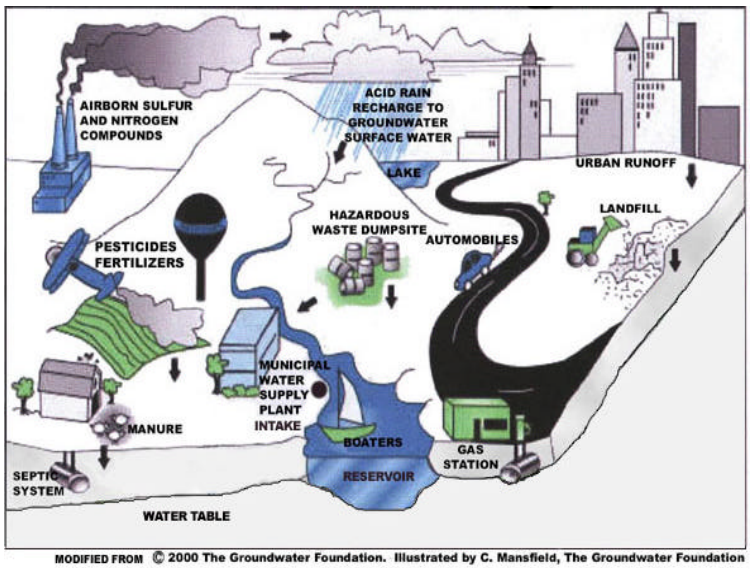


Figure 1: Sample watershed with examples of potential sources of contamination

Zone I Recommendations:

- ✓ To the extent possible, remove all non-water supply activities from the Zone Is to comply with DEP's Zone I requirements.

- ✓ Use BMPs for the storage, use, and disposal of hazardous materials such as water supply chemicals and maintenance chemicals.
- ✓ Do not use or store pesticides, fertilizers or road salt within the Zone I.
- ✓ Keep any new non-water supply activities out of the Zone I.

2. Hazardous Materials Storage and Use – Many large and small businesses use hazardous materials, produce hazardous waste products, and/or store large quantities of hazardous materials in Underground Storage Tanks (USTs) and Aboveground Storage Tanks (ASTs). Although many facilities within the watershed use best management practices (BMPs), hazardous materials and waste can be unexpectedly released through spills, leaks or improper handling or storage, and become potential sources of contamination. Hazardous materials should never be disposed of to a septic system or floor drain leading directly to the ground.

Hazardous Materials Storage and Use Recommendations:

- ✓ Educate local businesses on BMPs for protecting water supplies, and encourage them to use BMPs for handling, storing and disposing of hazardous waste. Distribute the fact sheet "Businesses Protect Drinking Water" available in Appendix A and on www.mass.gov/dep/brp/dws/protect.htm, which provides BMPs for common business issues.
- ✓ Work with local businesses to register those facilities that are unregistered generators of hazardous waste or waste oil. Partnerships between businesses, water suppliers, and communities enhance successful public drinking water protection practices.
- ✓ Educate local businesses on Massachusetts floor drain requirements. See brochure "Industrial Floor Drains" for more information.

3. Residential Land Uses – Approximately 50% of the combined Zone IIs consist of residential areas, of which a portion is served by private septic systems, with the remainder being served by municipal sewering. If managed improperly, activities associated with residential areas can contribute to drinking water contamination. Common potential sources of contamination include:

- **Septic Systems** – Improper disposal of household hazardous chemicals to septic systems is a potential source of contamination to the groundwater because septic systems lead to the ground. If septic systems fail or are not properly maintained they can be a potential source of microbial contamination.

(Continued on page 7)

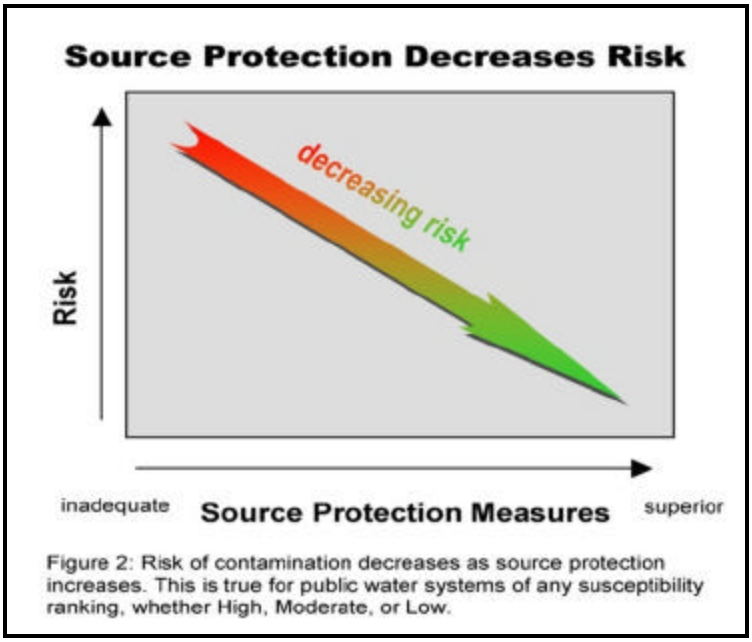


Figure 2: Risk of contamination decreases as source protection increases. This is true for public water systems of any susceptibility ranking, whether High, Moderate, or Low.

Potential Source of Contamination vs. Actual Contamination

The activities listed in Table 2 are those that typically use, produce, or store contaminants of concern, which, if managed improperly, are potential sources of contamination (PSC).

It is important to understand that a release may never occur from the potential source of contamination provided facilities are using best management practices (BMPs). If BMPs are in place, the actual risk may be lower than the threat ranking identified in Table 2. Many potential sources of contamination are regulated at the federal, state and/or local levels, to further reduce the risk.

Table 2: Land Use in the Protection Areas (Zones I and II)

For more information, refer to Appendix B: Regulated Facilities within the Water Supply Protection Area

Land Uses	Quantity	Threat	Zone II #	Potential Contaminant Sources
Commercial				
Body Shops	1	H	113	Improper management of vehicle paints, solvents, and primer products
Gas Stations	3	H	113, 532	Spills, leaks, or improper handling or storage of automotive fluids and fuels
Service Stations/ Auto Repair Shops	3	H	113	Automotive fluids and solvents: spills, leaks, or improper handling
Bus and Truck Terminals	1	H	113	Spills, leaks, or improper handling of fuels and maintenance chemicals
Cemeteries	2	M	256, 532	Leaks, spills, improper handling, or over-application of pesticides; historic embalming fluids (such as arsenic)
Dry Cleaners	2	H	532	Spills, leaks, or improper handling of solvents and wastes
Funeral Homes	2	L	532	Spills, leaks, or improper handling of hazardous chemicals
Golf Courses	1	M	113	Over-application or improper handling of fertilizers or pesticides
Laundromats	2	L	256, 532	Improper management of wash water
Printer and Blueprint Shops	2	M	113	Spills, leaks, or improper handling or storage of printing inks and chemicals
Railroad Tracks and Yards	1	H	113	Over-application or improper handling of herbicides, leaks or spills of transported chemicals and maintenance chemicals; fuel storage
Industrial				
Food Processors	1	L	113	Spills, leaks, or improper handling or storage of cleaners and other chemicals; microbial contaminants
Hazardous Materials Storage	1	H	113	Spills, leaks, or improper handling or storage of hazardous materials
Industry/Industrial Parks	1	H	113	Spills, leaks, or improper handling or storage of industrial chemicals and metals
Residential				
Fuel Oil Storage (at residences)	100+	M	All	Fuel oil: spills, leaks, or improper handling
Lawn Care/Gardening	100+	M	All	Pesticides: over-application or improper storage and disposal
Septic Systems/Cesspools	100+	M	All	Hazardous chemicals: microbial contaminants, and improper disposal

Land Uses	Quantity	Threat	Zone II #	Potential Contaminant Sources
Miscellaneous				
Aboveground Storage Tanks	1	M	256	Spills, leaks, or improper handling of materials stored in tanks
Aquatic Wildlife	100+	L	All	Microbial contaminants
Composting Facilities	1	L	532	Storage and improper handling of organic material, animal waste, and runoff
Fishing/Boating	Numerous	L	256	Fuel and other chemical spills, microbial contaminants
Large Quantity Hazardous Waste Generators	3	H	113	Spills, leaks, or improper handling or storage of hazardous materials and waste
Oil or Hazardous Material Sites	6	--	All	Tier Classified Oil or Hazardous Materials Sites are not ranked due to their site-specific character. Individual sites are identified in Appendix B.
Road and Maintenance Depots	1	M	532	Spills, leaks, or improper handling or storage of deicing materials, automotive fluids, fuel storage, and other chemicals
Schools, Colleges, and Universities	4	M	All	Spills, leaks, or improper handling or storage of fuel oil, laboratory, art, photographic, machine shop, and other chemicals
Small Quantity Hazardous Waste Generators	2	M	113	Spills, leaks, or improper handling or storage of hazardous materials and waste
Stormwater Drains/ Retention Basins	100+/2	L	All/113	Debris, pet waste, and chemicals in stormwater from roads, parking lots, and lawns
Transmission Line Rights-of-Way	1	L	532	Construction and corridor maintenance, over-application or improper handling of herbicides
Transportation Corridors	5	M	All	Accidental leaks or spills of fuels and other hazardous materials, over-application or improper handling of pesticides
Underground Storage Tanks	21	H	113, 532	Spills, leaks, or improper handling of stored materials
Very Small Quantity Hazardous Waste Generators	10	L	113, 256, 532	Spills, leaks, or improper handling or storage of hazardous materials and waste
Waste Transfer/ Recycling Stations	1	M	532	Improper management, seepage, and runoff of water contacting waste materials
Wastewater Treatment Plant/Collection Facility/ Lagoons	1	M	113	Improper handling or storage of treatment chemicals or equipment maintenance materials; improper management of wastewater

Table 2 Notes:

1. When specific potential contaminants are not known, typical potential contaminants or activities for that type of land use are listed. Facilities within the watershed may not contain all of these potential contaminant sources, may contain other potential contaminant sources, or may use Best Management Practices to prevent contaminants from reaching drinking water supplies.
2. For more information on regulated facilities, refer to Appendix B: Regulated Facilities within the Water Supply Protection Area information about these potential sources of contamination.
3. For information about Oil or Hazardous Materials Sites in your protection areas, refer to Appendix C: Tier Classified Oil and/or Hazardous Material Sites.

*** THREAT RANKING** - The rankings (high, moderate or low) represent the relative threat of each land use compared to other PSCs. The ranking of a particular PSC is based on a number of factors, including: the type and quantity of chemicals typically used or generated by the PSC; the characteristics of the contaminants (such as toxicity, environmental fate and transport); and the behavior and mobility of the pollutants in soils and groundwater.

- **Household Hazardous Materials** - Hazardous materials may include automotive wastes, paints, solvents, pesticides, fertilizers, and other substances. Improper use, storage, and disposal of chemical products used in homes are potential sources of contamination.
- **Heating Oil Storage** - If managed improperly, Underground and Aboveground Storage Tanks (USTs and ASTs) can be potential sources of contamination due to leaks or spills of the fuel oil they store.
- **Stormwater** – Catch basins transport stormwater from roadways and adjacent properties to the ground. As flowing stormwater travels, it picks up debris and contaminants from streets and lawns. Common potential contaminants include lawn chemicals, pet waste, and contaminants from automotive leaks, maintenance, washing, or accidents.

Residential Land Use Recommendations:

✓ Educate residents on best management practices (BMPs) for protecting water supplies. Distribute the fact sheet "Residents Protect Drinking Water" available in Appendix A and on www.mass.gov/dep/brp/dws/protect.htm, which provides BMPs for common residential issues.

✓ Work with planners to control new residential developments in the water supply protection areas.

✓ Promote BMPs for stormwater management and pollution controls.

4. Transportation Corridors - Transportation corridors and other paved and unpaved local roads cross through the water supply protection areas. Spills from vehicular accidents are a major concern. In addition, roadway construction, maintenance, and typical highway use can all be potential sources of contamination.

Accidents can lead to spills of gasoline and other potentially dangerous transported chemicals. Roadways are frequent sites for illegal dumping of hazardous or other potentially harmful wastes. De-icing salt, automotive chemicals and other debris on roads are picked up by stormwater and wash into catch basins.

Transportation Corridor Recommendations:

✓ Wherever possible, ensure that drains discharge stormwater outside of the Zone I.

✓ Identify stormwater drainage systems along transportation corridors. If maps aren't yet available, work with town officials to investigate mapping options such as the upcoming Phase II Stormwater Rule requiring some communities to complete stormwater mapping.

✓ Work with local emergency response teams to ensure that any spills within the Zone IIs can be effectively contained. Review storm drainage maps with emergency response teams.

✓ Work with the Town and State to best manage stormwater in the Zone IIs. Best management practices include street sweeping, vegetative swales, and regular catch basin inspection, cleaning and maintenance.

5. Presence of Oil or Hazardous Material Contamination Sites – The Zone IIs for Dedham-Westwood's wells contain DEP Tier Classified Oil and/or Hazardous Material Release Sites indicated on the maps as Release Tracking Numbers 3-0002778, 3-0014902, 3-0016936, 3-0018579, 3-0012483, and 3-0002514. Refer to the attached maps and Appendix C for more information on these sites

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Oil or Hazardous Material Contamination Sites Recommendation:

✓ Monitor progress on any ongoing remedial action conducted for the known oil or contamination sites.

What is a Zone III?

A Zone III (the secondary recharge area) is the land beyond the Zone II from which surface and ground water drain to the Zone II and is often coincident with a watershed boundary.

The Zone III is defined as a secondary recharge area for one or both of the following reasons:

1. The low permeability of underground water bearing materials in this area significantly reduces the rate of groundwater and potential contaminant flow into the Zone II.
2. The groundwater in this area discharges to a surface water feature such as a river, rather than discharging directly into the aquifer.

The land uses within the Zone III are assessed only for sources that are shown to be groundwater under the direct influence of surface water.

Benefits of Source Protection

Source Protection helps protect public health and is also good for fiscal fitness:

- Protects drinking water quality at the source
- Reduces monitoring costs through the DEP Waiver Program
- Treatment can be reduced or avoided entirely, saving treatment costs
- Prevents costly contamination clean-up
- Preventing contamination saves costs on water purchases, and expensive new source development

Contact your regional DEP office for more information on Source Protection and the Waiver Program.

6. Protection Planning – Protection planning protects drinking water by managing the land area that supplies water to a well or reservoir. Currently, the towns of Dedham and Westwood have a groundwater protection bylaw that meets DEP's Groundwater Protection regulations 310 CMR 22.21. A Wellhead Protection Plan coordinates community efforts, identifies protection strategies, establishes a timeframe for implementation, and provides a forum for public participation. There are resources available to help communities develop a plan for protecting drinking water supply wells.

Protection Planning Recommendations:

- ✓ Develop a Wellhead Protection Plan. Establish a protection team, and refer them to http://mass.gov/dep/brp/dws/protect.htm for a copy of DEP's guidance, "Developing a Local Wellhead Protection Plan".
- ✓ Coordinate efforts with the Towns of Canton, Milton and Norwood to include Dedham-Westwood's source protection areas in local wellhead protection controls. For more information on DEP land use controls see http://mass.gov /dep/brp/dws/protect.htm.

What are "BMPs?"

Best Management Practices (BMPs) are measures that are used to protect and improve surface water and groundwater quality. BMPs can be structural, such as oil & grease trap catch basins, nonstructural, such as hazardous waste collection days or managerial, such as employee training on proper disposal procedures.

- ✓ If local controls do not regulate floor drains, be sure to include floor drain controls that meet 310 CMR 22.21(2).
- ✓ Work with town boards to review and provide recommendations on proposed development within your water supply protection areas. To obtain information on build-out analyses for the town, see the Executive Office of Environmental Affairs' community preservation web site, http://commpres.env.state.ma.us/.

Other land uses and activities within the Zone II are included in Table 2. Refer to Table 2 and Appendix B for more information about these land uses.

Identifying potential sources of contamination is an important initial step in protecting your drinking water sources. Further local investigation will provide more in-depth information and may identify new land uses and activities that are potential sources of contamination. Once potential sources of contamination are identified, specific recommendations like those below should be used to better protect your water supply.

Section 3: Source Water Protection Conclusions and Recommendations

Current Land Uses and Source Protection:

As with many water supply protection areas, the system Zone IIs contain potential sources of contamination. However, source protection measures reduce the risk of actual contamination, as illustrated in Figure 2.

Dedham-Westwood is commended for taking an active role in promoting source protection measures in the Water Supply Protection Areas through:

- Actively enforcing existing wellhead protection controls
- Providing a household hazardous waste collection facility
- Providing wellhead protection information through municipal newsletter, website, and with water audit kits
- Requiring variable depth monitoring wells for new business in the White Lodge Wells source protection area
- Partnering with the League of Women Voters to promote educational program for environmentally sound lawn care
- Participating in four town regional work group that will evaluate resources (i.e. transportation, environment, and economic development)
- Receiving DEP source protection grant for road salt monitoring along Route 128/95
- Participating in Neponset Valley Chamber of Commerce conservation and source protection program

Source Protection Recommendations:

To better protect the sources for the future:

- ✓ Inspect the Zone I regularly, and when feasible, remove any non-water supply activities.

Top 5 Reasons to Develop a Local Wellhead Protection Plan

❶ Reduces Risk to Human Health

❷ Cost Effective! Reduces or Eliminates Costs Associated With:

- Increased groundwater monitoring and treatment
- Water supply clean up and remediation
- Replacing a water supply
- Purchasing water

❸ Supports municipal bylaws, making them less likely to be challenged

❹ Ensures clean drinking water supplies for future generations

❺ Enhances real estate values – clean drinking water is a local amenity. A community known for its great drinking water in a place people want to live and businesses want to locate.

Table 3: Current Protection and Recommendations

Protection Measures	Status	Recommendations
Zone I		
Does the Public Water Supplier (PWS) own or control the entire Zone I?	**NO**	To the extent possible, remove prohibited activities in Zone I to comply with DEP's Zone I requirements. Investigate options for gaining ownership or control of the Zone I.
Are the Zone Is posted with "Public Drinking Water Supply" Signs?	**YES**	Additional economical signs are available from the Northeast Rural Water Association (802) 660-4988.
Are the Zone Is regularly inspected?	**YES**	Continue daily inspections of drinking water protection areas.
Are water supply-related activities the only activities within the Zone I?	**NO**	Monitor prohibited activities in Zone I, and investigate options for removing these activities.
Municipal Controls (Zoning Bylaws, Health Regulations, and General Bylaws)		
Does the municipality have local controls that meet Wellhead Protection Regulations 310 CMR 22.21(2)?	**YES**	Both the towns, Dedham and Westwood, have a bylaw that meets DEP's requirements for wellhead protection. Refer to www.state.ma.us/dep/brp/dws/ for model bylaws and health regulations, and current regulations.
Do neighboring communities protect the water supply protection areas extending into their communities?	**NO**	Work with the towns of Canton, Milton and Norwood to encourage them to adopt local controls that include Dedham-Westwood's wellhead protection areas.
Planning		
Does the PWS have a wellhead protection plan?	**NO**	Develop and implement a wellhead protection plan. Follow "Developing a Local Wellhead Protection Plan" available at: www.state.ma.us/dep/brp/dws/.
Does the PWS have a formal "Emergency Response Plan" to deal with spills or other emergencies?	**YES**	Supplement plan by developing a joint emergency response plan with fire department, Board of Health, DPW, and local and state emergency officials. Coordinate emergency response drills with local teams.
Does the municipality have a wellhead protection committee?	**NO**	Establish a committee with representatives from citizens' groups, neighboring communities, and the business community.
Does the Board of Health conduct inspections of commercial and industrial activities?	**YES—Westwood** **NO– Dedham**	For more guidance see "Hazardous Materials Management: A Community's Guide" at www.state.ma.us/dep/brp/dws/files/hazmat.doc
Does the PWS provide watershed protection education?	**YES**	Increase residential outreach through bill stuffers and coordination with local groups. Aim additional efforts at commercial/industrial uses within the Zone II.

- ✓ Educate residents on ways they can help you to protect drinking water sources.
- ✓ Work with emergency response teams to ensure that they are aware of the stormwater drainage in your Zone II and to cooperate on responding to spills or accidents.
- ✓ Partner with local businesses to ensure the proper storage, handling, and disposal of hazardous materials.
- ✓ Develop and implement a Wellhead Protection Plan.

Conclusions:
These recommendations are only part of your ongoing local drinking water source protection. Additional source protection recommendations are listed in Table 3, the Key Issues above, and Appendix A.

DEP staff, informational documents, and resources are available to help you build on this SWAP report as you continue to improve drinking water protection in your community.

Grants and loans are available through the Drinking Water State Revolving Loan Fund, the Clean Water State Revolving Fund, and other sources. For more information on grants and loans, visit the Bureau of Resource Protection's Municipal Services web site at: http://mass.gov/dep/brp/mf/mfpubs.htm.

Additional Documents:

To help with source protection efforts, more information is available by request or online at mass.gov/dep/brp/dws including:

1. Water Supply Protection Guidance Materials such as model regulations, Best Management Practice information, and general water supply protection information.
2. MA DEP SWAP Strategy
3. Land Use Pollution Potential Matrix
4. Draft Land/Associated Contaminants Matrix

The assessment and protection recommendations in this SWAP report are provided as a tool to encourage community discussion, support ongoing source protection efforts, and help set local drinking water protection priorities. Citizens and community officials should use this SWAP report to spur discussion of local drinking water protection measures. The water supplier should supplement this SWAP report with local information on potential sources of contamination and land uses. Local information should be maintained and updated periodically to reflect land use changes in the Zone IIs. Use this information to set priorities, target inspections, focus education efforts, and to develop a long-term drinking water source protection plan.

Section 4: Appendices

A. Protection Recommendations
B. Regulated Facilities within the Water Supply Protection Area
C. Table of Tier Classified Oil and/or Hazardous Material Sites within the Water Supply Protection Areas
D. Additional Documents on Source Protection

For More Information

Contact Anita Wolovick in DEP's Wilmington Office at (978) 661-7768 for more information and assistance on improving current protection measures.

Copies of this report have been provided to the public water supplier, board of health, and the town.

APPENDIX A: DEP PERMITTED FACILITIES WITHIN DEDHAM-WESTWOOD WATER SUPPLY PROTECTION AREAS

DEP FACILITY NUMBER	FACILITY NAME	STREET ADDRESS	TOWN	PERMITTED ACTIVITY	ACTIVITY CLASS
130468	CUMBERLAND CRUDE PROCESSING	777 DEDHAM ST	CANTON	TURRPT	LARGE QUANTITY TOXICS USER
130468	CUMBERLAND FARMS - PLANT	777 DEDHAM ST	CANTON	FULDSP	FUEL DISPENSER
130468	CUMBERLAND FARMS INC	777 DEDHAM ST	CANTON	PLANT	RES APPLICATION APPROVED
130468	CUMBERLAND FARMS INC	777 DEDHAM ST	CANTON	DISCH	MWRA SEWER CONNECTION
136151	CUMBERLAND FARMS 2192	2640 WASHINGTON ST	CANTON	FULDSP	FUEL DISPENSER
367522	EXXONMOBIL OIL CORP	2776 WASHINGTON ST	CANTON	HANDLR	VERY SMALL QUANTITY GENERATOR OF HAZ WASTE
216791	HARRISON SPECIALTY CO	15 UNIVERSITY RD	CANTON	DISCH	MWRA SEWER CONNECTION
37833	HIGHLAND AUTO BODY INC	2740 WASHINGTON ST	CANTON	HANDLR	VERY SMALL QUANTITY GENERATOR OF HAZ WASTE
130461	INSTRON CORPORATION	100 ROYALL ST	CANTON	HANDLR	SMALL QUANTITY GENERATOR OF HAZ WASTE
130461	INSTRON CORPORATION	100 ROYALL ST	CANTON	PLANT	AIR QUALITY PERMIT
305176	REEBOK WORLD HEADQUARTERS	104 ROYALL ST	CANTON	PLANT	AIR QUALITY PERMIT
27940	SHIELD PACKAGING CO INC	15-21 UNIVERSITY RD	CANTON	HANDLR	SMALL QUANTITY GENERATOR OF HAZ WASTE

DEP FACILITY NUMBER	FACILITY NAME	STREET ADDRESS	TOWN	PERMITTED ACTIVITY	ACTIVITY CLASS
126606	SUNOCO SERVICE STATION	2782 WASHINGTON ST	CANTON	HANDLR	VERY SMALL QUANTITY GENERATOR OF HAZ WASTE
320072	TEXACO SERVICE STATION	2760 WASHINGTON ST	CANTON	HANDLR	VERY SMALL QUANTITY GENERATOR OF HAZ WASTE
320072	TEXACO SERVICE STATION	2760 WASHINGTON ST	CANTON	FULDSP	FUEL DISPENSER
257410	NORFOLK PROBATE AND FAMILY COURT	649 HIGH ST	DEDHAM	HANDLR	VERY SMALL QUANTITY GENERATOR OF HAZ WASTE
297108	CRAMER PHODUCTIONS INC	425 UNIVERSITY AVE	NORWOOD	DISCH	MWRA SEWER CONNECTION
35262	ATLAS OIL CORP	385 UNIVERSITY AVE	WESTWOOD	HANDLR	VERY SMALL QUANTITY GENERATOR OF HAZ WASTE
136188	CUMBERLAND GULF 118624	722 HIGH ST	WESTWOOD	FULDSP	FUEL DISPENSER
204680	GLOBE NEWSPAPER CO INC	22 MARYMOUNT AVE	WESTWOOD	HANDLR	VERY SMALL QUANTITY GENERATOR OF HAZ WASTE
204680	GLOBE NEWSPAPER COMPANY	22 MARYMOUNT AVE	WESTWOOD	DISCH	MWRA SEWER CONNECTION
367884	MOBIL 12658	710 HIGH ST	WESTWOOD	FULDSP	FUEL DISPENSER
283176	OUTPUT TECHNOLOGIES	46 HARVARD ST	WESTWOOD	HANDLR	VERY SMALL QUANTITY GENERATOR OF HAZ WASTE
37622	WESTWOOD DPW	50 CARBY ST	WESTWOOD	FULDSP	FUEL DISPENSER
37622	WESTWOOD DPW	50 CARBY ST	WESTWOOD	HANDLR	VERY SMALL QUANTITY GENERATOR OF HAZ WASTE

DEP FACILITY NUMBER	FACILITY NAME	STREET ADDRESS	TOWN	PERMITTED ACTIVITY	ACTIVITY CLASS
376017	WESTWOOD FIRE DEPARTMENT	637 HIGH ST	WESTWOOD	HANDLR	VERY SMALL QUANTITY GENERATOR OF WASTE OIL OR PCBS
360871	WESTWOOD POLICE DEPT	590 HIGH ST	WESTWOOD	FULDSP	FUEL DISPENSER

UNDERGROUND STORAGE TANKS WITHIN DEDHAM-WESTWOOD WATER SUPPLY PROTECTION AREAS

FACILITY NAME	ADDRESS	TOWN	DESCRIPTION	CAPACITY (GAL)	CONTENTS
CUMBERLAND FARMS PLANT	777 DEDHAM ST	CANTON	PLANT	10000	GASOLINE
CUMBERLAND FARMS PLANT	777 DEDHAM ST	CANTON	PLANT	8000	GASOLINE
NEW NEPONSET VALLEY SEWER PUMPING	UNIVERSITY RD	CANTON	UTILITIES	8000	FUEL OIL
SUNOCO	2782 WASHINGTON ST	CANTON	GAS STATION	6000	GASOLINE
SUNOCO	2782 WASHINGTON ST	CANTON	GAS STATION	6000	GASOLINE
SUNOCO	2782 WASHINGTON ST	CANTON	GAS STATION	6000	GASOLINE
TEXACO SERVICE	2760 WASHINGTON ST	CANTON	GAS STATION	10000	GASOLINE
TEXACO SERVICE	2760 WASHINGTON ST	CANTON	GAS STATION	8000	GASOLINE
TEXACO SERVICE	2760 WASHINGTON ST	CANTON	GAS STATION	8000	GASOLINE

FACILITY NAME	ADDRESS	TOWN	DESCRIPTION	CAPACITY (GAL)	CONTENTS
TEXACO SERVICE	2760 WASHINGTON ST	CANTON	GAS STATION	6000	DIESEL
TEXACO SERVICE	2760 WASHINGTON ST	CANTON	GAS STATION	1000	FUEL OIL
TEXACO SERVICE	2760 WASHINGTON ST	CANTON	GAS STATION	550	WASTE OIL
CUMBERLAND GULF	722 HIGH ST	WESTWOOD	GAS STATION	8000	GASOLINE
CUMBERLAND GULF	722 HIGH ST	WESTWOOD	GAS STATION	8000	GASOLINE
CUMBERLAND GULF	722 HIGH ST	WESTWOOD	GAS STATION	8000	GASOLINE
DEDHAM-WESTWOOD WATER	154 UNIVERSITY AVE	WESTWOOD	WATER TREATMENT	12000	DIESEL
DEDHAM-WESTWOOD WATER	154 UNIVERSITY AVE	WESTWOOD	WATER TREATMENT	2000	DIESEL
EXXONMOBIL OIL CORPORATION	710 HIGH ST	WESTWOOD	GAS STATION	12000	GASOLINE
EXXONMOBIL OIL CORPORATION	710 HIGH ST	WESTWOOD	GAS STATION	10000	GASOLINE
EXXONMOBIL OIL CORPORATION	710 HIGH ST	WESTWOOD	GAS STATION	10000	GASOLINE
TOWN OF WESTWOOD POLICE DEPT	590 HIGH ST	WESTWOOD	MUNICIPAL	6000	GASOLINE

For More Information On Underground Storage Tanks, Visit The Massachusetts Department Of Fire Services Web Site: Http://Www.State.Ma.Us/Dfs/Ust/Usthome.Htm
Note: This Appendix Includes Only Those Facilities Within The Water Supply Protection Area(s) That Meet State Reporting Requirements And Report To The Appropriate Agencies. Additional Facilities Located Within The Water Supply Protection Area(s) Should Be Considered In Local Drinking Water Source Protection Planning.

APPENDIX B – Table of Tier Classified Oil and/or Hazardous Material Sites within Dedham-Westwood Water District Water Supply Protection Areas

DEP's datalayer depicting oil and/or hazardous material (OHM) sites is a statewide point data set that contains the approximate location of known sources of contamination that have been both reported and classified under Chapter 21E of the Massachusetts General Laws. Location types presented in the layer include the approximate center of the site, the center of the building on the property where the release occurred, the source of contamination, or the location of an on-site monitoring well. Although this assessment identifies OHM sites near the source of your drinking water, the risks to the source posed by each site may be different. The kind of contaminant and the local geology may have an effect on whether the site poses an actual or potential threat to the source.

The DEP's Chapter 21E program relies on licensed site professionals (LSPs) to oversee cleanups at most sites, while the DEP's Bureau of Waste Site Cleanup (BWSC) program retains oversight at the most serious sites. This privatized program obliges potentially responsible parties and LSPs to comply with DEP regulations (the Massachusetts Contingency Plan – MCP), which require that sites within drinking water source protection areas be cleaned up to drinking water standards.

For more information about the state's OHM site cleanup process to which these sites are subject and how this complements the drinking water protection program, please visit the BWSC web page at http://www.state.ma.us/dep/bwsc. You may obtain site -specific information two ways: by using the BWSC Searchable Sites database at http://:www.state.ma.us/dep/bwsc/sitellst.htm, or you may visit the DEP regional office and review the site file. These files contain more detailed information, including cleanup status, site history, contamination levels, maps, correspondence and investigation reports, however you must call the regional office in order to schedule an appointment to view the file.

The table below contains the list of Tier Classified oil and/or Hazardous Material Release Sites that are located within your drinking water source protection area.

Table 1: Bureau of Waste Site Cleanup Tier Classified Oil and/or Hazardous Material Release Sites (Chapter 21E Sites) - Listed by Release Tracking Number (RTN).

RTN	Release Site Address	Town	Contaminant Type
3-0002514	15-21 University Rd	Canton	Hazardous Material
3-0012483	Dedham St	Canton	Oil
3-0018579	47 Village Ave	Dedham	Oil
3-0002778	710 High St	Westwood	Oil
3-0014902	716 High St	Westwood	Oil
3-0016936	722 High St	Westwood	Oil

For more location information, please see the attached map. The map lists the release sites by Release Tracking Number (RTN).