



Massachusetts Department of Environmental Protection
Source Water Assessment and Protection (SWAP) Report
for

Dudley Water Department

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.

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

<i>PWS Name</i>	Dudley Water Department
<i>PWS Address</i>	40 Schofield Avenue
<i>City/Town</i>	Dudley, Massachusetts
<i>PWS ID Number</i>	2080000
<i>Local Contact</i>	John Meehan
<i>Phone Number</i>	(508) 949-8007

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.

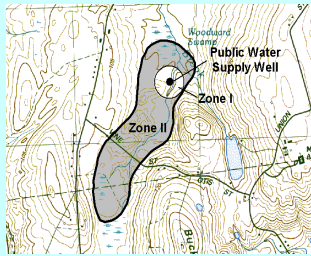
This report includes the following sections:

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

Section 1: Description of the Water System

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.

Zone II #: 485

Susceptibility:

Well Names	Source IDs
Main Street Well field	2080000-01G

Zone II #: 484

Susceptibility:

Well Names	Source IDs
Schofield Avenue Well #3	2080000-03G
Schofield Avenue Well #5	2080000-05G
Schofield Avenue Well #6	2080000-06G

The wells for Dudley Water Department are located off West Main Street (Main Street tubular wellfield, Well 01G) and off of Schofield Avenue (Wells 03G, 05G, and 06G). The Main Street Wellfield has a Zone I of 250 feet and each of the other wells have a Zone I of 400 feet. The area is underlain by permeable sand and gravel deposited during the waning stages of continental glaciation. According to the bedrock Geologic Map of Massachusetts and a companion volume, the bedrock underlying wells 03G and 05G within the French River valley consists of medium to high grade metasedimentary rocks of the Tatic Hill Formation and its subsidiary members, the Fly Pond member and the Yantic member. The wells are located in an aquifer 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.

The wells for Dudley have no treatment at this time. For current information on monitoring results and treatment and a copy of the most recent Consumer Confidence Report, please contact the Public Water System contact person listed above in Table 1. 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 Dudley Water Department are primarily a mixture of forest, residential, commercial, and light industrial land uses (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. Inappropriate activities in Zone I
2. Residential land uses
3. Transportation corridors
4. Hazardous materials storage and use
5. Oil or hazardous material contamination sites
6. Wastewater treatment plant
7. Wellhead Protection Planning

The overall ranking of susceptibility to contamination for the system is high, based on the presence of at least one high threat land use within the water supply protection areas, as seen in Table 2.

1. Inappropriate Activities in Zone Is – The Zone I for the Main Street Wellfield is 250 feet and each of the remaining wells have a Zone I of 400 feet. Massachusetts drinking water regulations (310 CMR 22.00 Drinking Water) require public water suppliers to own the Zone I, or control the Zone I through a conservation restriction. The Zone I for Well 01G is owned by Dudley Water Department. The Zone Is for the remaining wells are not owned or controlled by the public water system. 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 following non water supply activities occur in the Zone Is of the system wells:

Zone I: For Well #1, #3, #5, & #6 – These wells have highways (Route 12) and local road (New Boston Road) running through them. Wells #3 & #6 contain portions of three (3) residences.

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.
- ✓ Work with your local Fire Department to ensure that the Zone Is are included in Emergency Response Planning.
- ✓ Keep any new non water supply activities out of the Zone I.

2. Residential Land Uses – Approximately 44% of the Zone II consists of residential areas. None of the areas have public sewers, and so all use septic systems. 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.

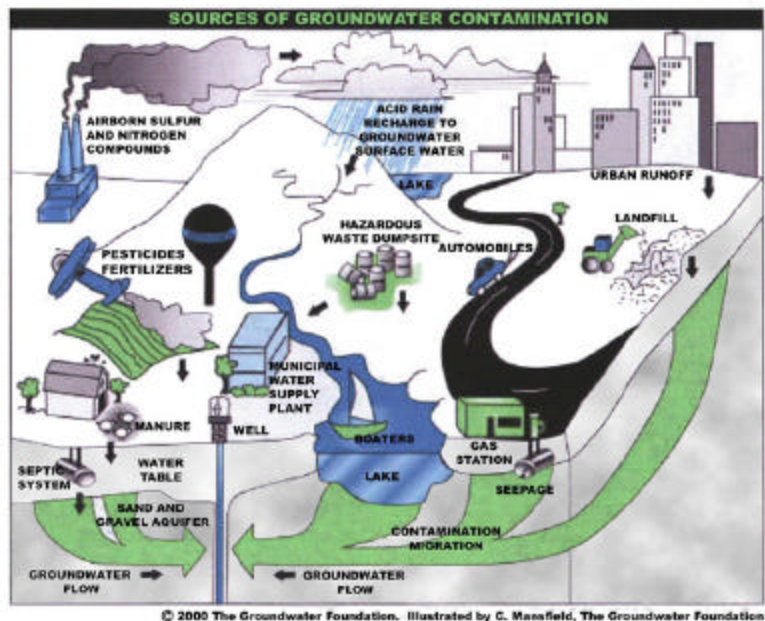
- **Household Hazardous Materials** - Hazardous materials may include automotive wastes, paints, solvents, pesticides, fertilizers, and other substances. Improper use, storage, and disposal of chemical products used in homes are potential sources of contamination.
- **Heating Oil Storage** - If managed improperly, Underground and Aboveground Storage Tanks (UST and AST) can be potential sources of contamination due to leaks or spills of

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.



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.

3. Transportation Corridors - Route 12 runs through the Zone IIs of the wells. Local roads are common throughout the Zone IIs. 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 in to catchbasins.

Transportation Corridor Recommendations:

- ✓ Identify stormwater drains and the drainage system along transportation corridors. Wherever possible, ensure that drains discharge stormwater outside of the Zone II.
- ✓ Work with the Town and State to have catch basins inspected, maintained, and cleaned on a regular schedule. Street sweeping reduces the amount of potential contaminants in runoff.
- ✓ Work with local emergency response teams to ensure that any spills within the Zone II can be effectively contained.

- ✓ If storm drainage maps are available, review the maps with emergency response teams. 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 officials during their review of the railroad right of way Yearly Operating Plans to ensure that water supplies are protected during vegetation control.

4. Hazardous Materials Storage and Use – Fourteen percent of the land area within the Zone IIs is commercial or industrial land uses. Many small businesses and industries use hazardous materials, produce hazardous waste products, and/or store large quantities of hazardous materials in UST/AST. If hazardous materials are improperly stored, used, or disposed, they become potential sources of contamination. Hazardous materials should never be disposed of to a septic system or

(Continued on page 7)



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.

Source Protection Decreases Risk

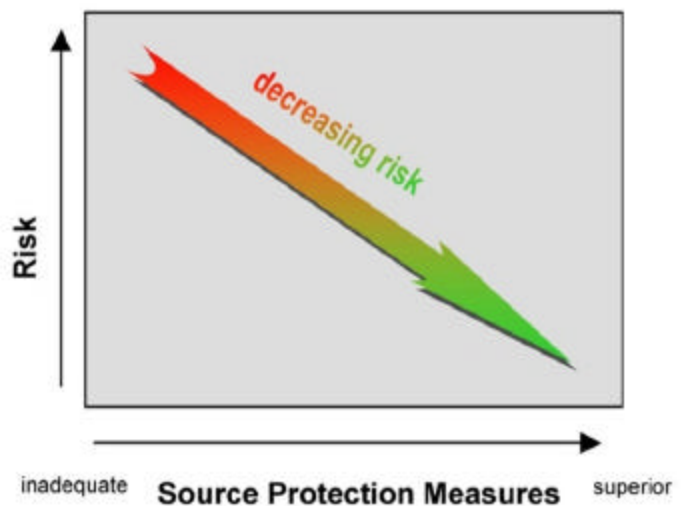


Figure 2: Risk of contamination decreases as source protection increases. This is true for public water systems of any susceptibility ranking, whether High, Moderate, or Low.

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	484	Vehicle paints, solvents, and primer products: improper management
Gas Stations	4	H	484	Automotive fluids and fuels: spills, leaks, or improper handling or storage
Service Stations/ Auto Repair Shops	3	H	All	Automotive fluids and solvents: spills, leaks, or improper handling
Cemeteries	1	M	484	Over-application of pesticides: leaks, spills, improper handling; historic embalming fluids
Dry Cleaners	1	H	485	Solvents and wastes: spills, leaks, or improper handling
Funeral Homes	1	L	484	Hazardous chemicals: spills, leaks, or improper handling
Medical Facilities	1	M	484	Biological, chemical, and radioactive wastes: spills, leaks, or improper handling or storage
Photo Processors	1	H	484	Photographic chemicals: spills, leaks, or improper handling or storage
Printer And Blueprint Shops	2	M	484	Printing inks and chemicals: spills, leaks, or improper handling or storage
Railroad Tracks And Yards	1	H	484	Herbicides: over-application or improper handling; fuel storage, transported chemicals, and maintenance chemicals: leaks or spills
Industrial				
Chemical Manufacture Or Storage	1	H	484	Chemicals and process wastes: spills, leaks, or improper handling or storage
Fuel Oil Distributors	1	H	484	Fuel oil: spills, leaks, or improper handling or storage
Textile Manufacturers	1	H	484	Manufacturing chemicals: spills, leaks, or improper handling or storage

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

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

Activities	Quantity	Threat*	Zone II#	Potential Source of Contamination
Residential				
Fuel Oil Storage (at residences)	Several	M	All	Fuel oil: spills, leaks, or improper handling
Lawn Care / Gardening	Several	M	All	Pesticides: over-application or improper storage and disposal
Septic Systems / Cesspools	Several	M	484	Hazardous chemicals: microbial contaminants, and improper disposal
Miscellaneous				
Aboveground Storage Tanks	1	M	484	Materials stored in tanks: spills, leaks, or improper handling
Aquatic Wildlife	2	L	All	Microbial contaminants
Fishing/Boating	2	L	All	Fuel and other chemical spills, microbial contaminants
Large Quantity Hazardous Waste Generators	1	H	484	Hazardous materials and waste: spills, leaks, or improper handling or storage
NPDES Locations	1	L	484	Hazardous material and wastes: improper disposal
Oil or Hazardous Material Sites	4	--	All	Tier Classified Oil or Hazardous Materials Sites are not ranked due to their site-specific character. Individual sites are identified in Appendix B.
Schools, Colleges, and Universities	1	M	All	Fuel oil, laboratory, art, photographic, machine shop, and other chemicals: spills, leaks, or improper handling or storage
Small quantity hazardous waste generators		M		Hazardous materials and waste: spills, leaks, or improper handling or storage
Stormwater Drains/ Retention Basins	Several	L	All	Debris, pet waste, and chemicals in stormwater from roads, parking lots, and lawns
Transportation Corridors	2	M	All	Fuels and other hazardous materials: accidental leaks or spills; pesticides: over-application or improper handling
Underground Storage Tanks	4	H	All	Stored materials: spills, leaks, or improper handling
Utility Substation Transformers	1	L	484	Chemicals and other materials including PCBs: spills, leaks, or improper handling
Wastewater Treatment Plant/Collection Facility/ Lagoon	1	M	484	Treatment chemicals or equipment maintenance materials: improper handling or storage; wastewater: improper management

See notes for Table 2 on page 7.

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

floor drain leading directly to the ground.

Hazardous Materials Storage and Use Recommendations:

- ✓ Educate local businesses on best management practices for protecting water supplies. Distribute the fact sheet “Businesses Protect Drinking Water” available in Appendix A and on www.mass.gov/dep/brp/dws/protect.htm, which provides BMP’s 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 floordrain requirements. See brochure “Industrial Floor Drains” for more information.

5. Presence of Oil or Hazardous Material Contamination Sites – The Zone II contains DEP Tier Classified Oil and/or Hazardous Material Release Sites indicated on the map as Release Tracking Numbers 2-00160, 2-01670, 2-01746, 2-0382, 2-0357, 2-0356, 2-0358 and 2-0359. Refer to the attached map and Appendix 3 for more information.

Oil or Hazardous Material Contamination Sites Recommendation:

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

6. Wastewater Treatment Plant – The Zone II for the Schofield wells contains two wastewater treatment plants that discharge into the the Zone II. Activities associated with wastewater treatment involve delivery, storage and use of hazardous materials such as chlorine and fuel oil. Municipal wastewater contains contaminants such as bacteria, viruses, metal and volatile chemicals. Spills, leaks or mismanagement of wastewater, hazardous materials and storm water at the plant are potential sources of contamination.

Wastewater Treatment Plant Recommendations:

- ✓ Ensure the wastewater treatment facility is operated and maintained according to DEP requirements.
- ✓ Ensure that stormwater drains and discharges around the wastewater treatment plant are mapped. Work with the plant to ensure that stormwater is pre-treated prior to discharge.
- ✓ Work with the plant to ensure that best management practices are used for proper handling of materials and containment of spills and leaks.
- ✓ Ensure emergency planning for the plant includes notification for Dudley Water Department.

Top 5 Reasons to Develop a Local Wellhead Protection Plan

- ➊ Reduces Risk to Human Health
- ➋ 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
- ➌ Supports municipal bylaws, making them less likely to be challenged
- ➍ Ensures clean drinking water supplies for future generations
- ➎ 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	Follow Best Management Practices (BMP's) that focus on good housekeeping, spill prevention, and operational practices to reduce the use and release of hazardous materials.
Is the Zone I posted with "Public Drinking Water Supply" Signs?	YES	Additional economical signs are available from the Northeast Rural Water Association (802) 660-4988.
Is Zone I regularly inspected?	YES	Continue daily inspections of drinking water protection areas.
Are water supply-related activities the only activities within the Zone I?	NO	Continue monitoring non-water supply activities in Zone Is.
Municipal Controls (Zoning Bylaws, Health Regulations, and General Bylaws)		
Does the municipality have Wellhead Protection Controls that meet 310 CMR 22.21(2)?	NO	The Town "Aquifer Protection District" bylaw needs to be compared to DEP's for wellhead protection requirements. Refer to www.state.ma.us/dep/brp/dws/ for model bylaws and health regulations, and current regulations.
Do neighboring communities protect the Zone II areas extending into their communities?	N/A	
Planning		
Does the PWS have a Wellhead Protection Plan?	NO	Develop 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	Augment 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 committee; include representatives from citizens' groups, neighboring communities, and the business community.
Does the Board of Health conduct inspections of commercial and industrial activities?	YES	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 wellhead protection education?	NO	Aim additional efforts at commercial, industrial and municipal uses within the Zone II.

- ✓ Ensure that the plant's underground storage tank has secondary containment and is maintained properly.

7. Protection Planning – Protection planning protects drinking water by managing the land area that supplies water to a well. 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 local officials to compare local wellhead protection controls with current MA Wellhead Protection Regulations 310 CMR 22.21 (2). If they do not meet the current regulations, adopt controls that meet 310 CMR 22.21(2). For more information on DEP land use controls see <http://mass.gov/dep/brp/dws/protect.htm>.
- ✓ If local controls do not regulate floordrains, be sure to include floordrain controls that meet 310 CMR 22.21(2).

Other land uses and activities within the Zone II that have include an autobody shop, gas stations, service stations/auto repair shop, dry cleaner, photo processor, printer and blue print shop and a chemical manufacturer. Refer to Table 2 and Appendix 2 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. The water supplier is commended for taking an active role in promoting source protection measures in the Water Supply Protection Areas through:

- Encouraging residents to tie into the public water system.
- Reducing daily use to 350,000 gallons per day, through leak detection.
- Conducting groundwater monitoring through a DEP Wellhead Protection Grant.

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.
- ✓ 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

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.

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

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.
- ✓ Monitor progress on any ongoing remedial action conducted for the known oil or contamination sites.
- ✓ 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. The Department's Wellhead Protection Grant Program and Source Protection Grant Program provide funds to assist public water suppliers in addressing water supply source protection through local projects. Protection recommendations discussed in this document may be eligible for funding under the Grant Program. Please note: each spring DEP posts a new Request for Response for the grant program (RFR).

For More Information

Contact Josephine Yemoh-Ndi in DEP's Worcester Office at (508) 849-4030 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.

Other 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>.

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 II. 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

APPENDIX B:

REGULATED FACILITIES WITHIN THE WATER SUPPLY PROTECTION AREA

DEP Permitted Facilities

DEP Facility Number	Facility Name	Street Address	Town	Permitted Activity	Activity Class
136640	ARTS SERVICE STATION INC.	5 WEST MAIN ST.	DUDLY	Fuel Dispenser	Fuel Dispenser
270201	ARTS TEXACO	5 WEST MAIN ST.	WEBSTER	Generator of Hazardous Waste	Small Quantity Generator
204595	DUDLEY HIGHWAY DEPARTMENT	INDIAN RD. @ W. MAIN ST.	DUDLY	Generator of Hazardous Waste	Very Small Quantity Generator
204595	DUDLEY HIGHWAY DEPARTMENT	INDIAN RD. @ W. MAIN ST.	DUDLY	Generator of Hazardous Waste	Very Small Quantity Generator of Waste Oil or PCBs
204595	DUDLEY HIGHWAY DEPARTMENT	INDIAN RD. @ W. MAIN ST	DUDLY	Sewer Connection or Groundwater Discharge	Sewer Connection or Groundwater Discharge
204595	DUDLEY HIGHWAY DEPARTMENT	INDIAN RD. @ W. MAIN ST	DUDLY	Industrial Waste Water Holding Tank Approval	Industrial Waste Water Holding Tank
319860	DURA TOOL CO.	197 SCHOFIELD AVE.	DUDLY	Generator of Hazardous Waste	Below Hazardous Waste Regulated Levels
51251	ETHAN ALLEN	35 CHASE AVE.	DUDLY	Air Quality Natural Minor W/PTE>25% % <OR=50% of Maj	Air Quality Permit
51251	ETHAN ALLEN	35 CHASE AVE.	DUDLY	Metal Use	Large Quantity Toxic User
51251	ETHAN ALLEN	35 CHASE AVE.	DUDLY	Sewer Connection or Groundwater Discharge	Sewer Connection or Groundwater Discharge
51251	ETHAN ALLEN	35 CHASE AVE.	DUDLY	Generator of Hazardous Waste	Very Quantity Generator of Waste or PCBs

DEP Facility Number	Facility Name	Street Address	Town	Permitted Activity	Activity Class
51251	ETHAN ALLEN	35 CHASE AVE.	DUDLY	Generator of Hazardous Waste	Very Small Quantity Generator of Waste Oils or PCBs
215798	GUILFORD OF MAINE DÉCOR FAB.	8 MILL ST.	WEBSTER	Generator of Hazardous Waste	Small Quantity Generator of Waste Oils or PCBs
215798	GUILFORD OF MAINE DÉCOR FAB.	8 MILL ST.	WEBSTER	Generator of Hazardous Waste	Very Small Quantity Generator
326313	TOLTEC FABRICS INC.	8 MILL ST.	DUDLY	Generator of Hazardous Waste	Very Small Quantity Generator
320630	WILLIAMS LOGGING & CLEAR	120 SCHOFIELD AVE.	DUDLY	Generator of Hazardous Waste	Below Thresholds Air Quality Permit

Underground Storage Tanks

Facility Name	Address	Town	Description	Tank Type	Tank Leak Detection	Capacity (gal)	Contents
HESS- 21311	32 W. MAIN ST.	DUDLEY	Gas Station	1 Wall	Approved In-Tank Monitor	10000	Gasoline
ART'S SERVICE STATION	5 W. MAIN ST.	DUDLEY	Gas Station	2 Wall	Interstitial Space Mo	10000	Gasoline
DUDLEY L-M	138 W. MAIN ST.	DUDLEY	Other	2 Wall	Interstitial Space Mo	500	Fuel
GETTY STATION	10 W. MAIN ST.	DUDLEY	Gas Station	1 Wall	Approved In-Tank Monitor	6000	Gasoline
WILLIAM JOLDA & SON INC.	6 OXFORD AVE.	DUDLEY	Petroleum Distributor	2 Wall	Interstitial Space Monitor	20000	Fuel Oil
DUDLEY HIGHWAY DEP'T	40 SCHOFIELD AVE.	DUDLEY	Municipal	1 Wall	Approved In-Tank Monitor	4000	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 may be located within the water supply protection area(s) that should be considered in local drinking water source protection planning.

APPENDIX C – Table of Tier Classified Oil and/or Hazardous Material Sites within the 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/sitelist.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
2-0356	DUDLEY FIRE DEPT	DUDLEY	Oil/Hazardous Material
2-0357	DUDLEY WATER DEPT	DUDLEY	Oil
2-0358	DUDLEY HIGHWAY DEPT	DUDLEY	Oil/Hazardous Material
2-0359	DEARY BROTHERS	DUDLEY	Oil/Hazardous Material
2-12670	ARTS TEXACO STATION	DUDLEY	Oil

Table 1: Continued

RTN	Release Site Address	Town	Contaminant Type
2-13250	FMR WEBSTER LENS PROPERTY	DUDLEY	Hazardous Material
2-12746	WEBSTER LENS PROPERTY FORMER	DUDLEY	Hazardous Material

For more location information, please see the attached map. The map lists the release sites by RTN.