

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

### **Mansfield Water Department**

#### 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 suscepti bility 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	Mansfield Water Department
PWS Address	6 Park Row
City/Town	Mansfield
PWS ID Number	4167000
Local Contact	Kurt Gaffney
Phone Number	(508) 261-7376

#### 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 waterbearing 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 1:** The area closest to a well; a 100 to 400 foot radius proporti onal to the well's pumping rate. This area should be owned or controlled by the water supplier and limited to water supply activities.

Zone 11: 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 #: 181 Susceptibility: High

Well Names	Source IDs
Cate Springs Well	4167000-01G
Prescott Well #8	4167000-09G
Prescott Well #9	4167000-10G

Zone II #: 182 Susceptibility: Moderate

Well Names	Source IDs		
Dustin Well #7	4167000-08G		

**Zone II #:** 183 **Susceptibility:** Moderate

Well Names	Source IDs	
Albertini Well #2	4167000-03G	
Albertini Well #3	4167000-04G	
Albertini Well #4	4167000-05G	

Zone II #: 514 Susceptibility: High

Well Names	Source IDs	
Mahana Well #6	4167000-07G	

Zone II #: 137 Susceptibility: High

Well Names	Source IDs	
Walsh Property Well	4167000-11G	

Mansfield Water Department is supplied from 8 gravel packed wells and one wellfield. The nine sources of water fall within 5 separate Zone II recharge areas. Each well has a Zone I of 400 feet. 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 are treated with: sodium hypochlorite (oxidation of iron and disinfection); potassium hydroxide (pH control); and sodium fluoride (tooth decay preventative). 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

Land uses of concern within the Zone IIs for Mansfield include residences, commercial facilities, industry, transportation corridors, mining and a capped

landfill. (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 A.

#### **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. Comprehensive 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 each of the wells is a 400 foot radius around the wellhead. Massachusetts drinking water regulations (310 CMR 22.00 Drinking Water) requires 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 following non water supply activities occur in the Zone Is of the system wells:

**Zone I:** Albertini Wells #3 & #4 (4167000-03G & 04G) – The Zone I for these sources contains private residences and local roads.

Zone I: Albertini Wells #2, #3, & #4 and Mahana Well #6 (4167000-03G, 04G, 05G, & 07G) – There is unauthorized access by off-road vehicles (dirt bikes and ATVs) in the Zone I for these sources.

#### **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

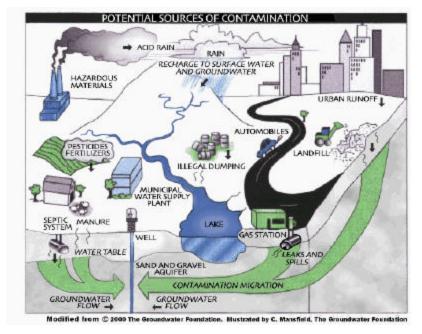
# Benefits of Source Protection

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.

- as water supply chemicals and maintenance chemicals.
- ✓ Educate residents located in the Zone Is of their potential impacts on the wells.
- ✓ Do not use or store pesticides, fertilizers or road salt within the Zone I.
- ✓ Use containment for fuel oil storage.
- ✓ Keep any new non water supply activities out of the Zone I.
- 2. Residential Land Uses Residential land uses within the Zone IIs range from 23% to 36% of the Zone II area. Some areas of the town are sewered while others are not, and so these areas rely on septic systems for waste water disposal. 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 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 C and on www.mass.gov/dep/brp/dws/protect.htm, which provides BMPs for common residential issues.
- ✓ Target septic system maintenance and proper use at unsewered areas of town.
- ✓ 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 95 runs through the Zone II #183 and #514 (see Section 1 of this report for more information on Zone IIs for Mansfield). Secondary highways and local roads are common throughout all of

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.

Railroad tracks run through Zone II #137, #181 and #182. Rail corridors serving passenger or freight trains are potential sources of contamination due to chemicals released during normal use, track maintenance, and accidents. Accidents can release spills of train engine fluids and commercially transported chemicals.

#### **Transportation Corridor Recommendations:**

✓ Identify stormwater drains and the drainage system along transportation corridors. Wherever possible, ensure that drains

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#### What are "BMPs?"

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

#### For More Information

Contact I sabel Collins in DEP's Lakeville Office at (508) 946-2726 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.

#### Source Protection Decreases Risk

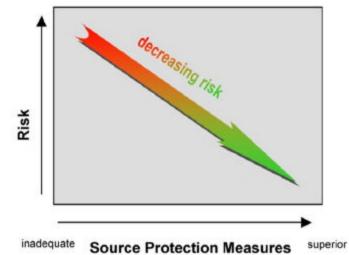


Figure 2: Risk of contamination decreases as source protection increases. This is true for public water systems of any susceptibility ranking, whether High, Moderate, or Low.

#### 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, <u>if managed improperly</u>, 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

Activities	Quantity	Threat*	Zone II #	<b>Potential Source of Contamination</b>		
Agricultural						
Fertilizer Storage or Use	2	M	137 &182	Fertilizers: leaks, spills, improper handling, or over- application		
Livestock Operations	1	М	182	Manure (microbial contaminants): improper handling (Emu Farm)		
Pesticide Storage or Use	1	Н	137	Pesticides: leaks, spills, improper handling, or over- application		
Commercial						
Gas Stations	3	Н	514	Automotive fluids and fuels: spills, leaks, or improper handling or storage		
Service Stations/ Auto Repair Shops	1	Н	514	Automotive fluids and solvents: spills, leaks, or improper handling		
Cemeteries	2	М	181 & 182	Over-application of pesticides: leaks, spills, improper handling; historic embalming fluids (Pet Cemetery in Foxboro)		
Railroad Tracks And Yards	2	Н	137 &181	Herbicides: over-application or improper handling; fuel storage, transported chemicals, and maintenance chemicals: leaks or spills		
Sand And Gravel Mining/Washing	2	М	183 & 514	Heavy equipment, fuel storage, clandestine dumping: spills or leaks		
Industrial						
Asphalt, Coal Tar, And Concrete Plants	1	M	514	Hazardous chemicals and wastes: spills, leaks, or improper handling or storage		
Chemical Manufacture Or Storage	1	Н	181	Chemicals and process wastes: spills, leaks, or improper handling or storage		
Hazardous Materials Storage	2	Н	181	Hazardous materials: spills, leaks, or improper handling or storage		
Hazardous Waste Storage, Treatment and Recycling	1	Н	181	Hazardous materials: spills, leaks, or improper handl or storage		

#### Table 2 Continued: 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

Activities	Quantity	Threat*	Zone II #	Potential Source of Contamination					
Residential	Residential								
Fuel Oil Storage (at residences)	Many	М	All	Fuel oil: spills, leaks, or improper handling					
Lawn Care / Gardening	Many	М	All	Pesticides: over-application or improper storage and disposal					
Septic Systems / Cesspools	Many	М	All	Hazardous chemicals: microbial contaminants, and improper disposal					
Miscellaneous									
Composting Facilities	2	L	181 & 182	Organic material, animal waste, and runoff: storage and improper handling					
Landfills and Dumps	1	Н	181	Seepage of leachate. (Closed and Capped)					
Large Quantity Hazardous Waste Generators	1	Н	181	Hazardous materials and waste: spills, leaks, or improper handling or storage					
Oil or Hazardous Material Sites	5		181, 182 &183	Tier Classified Oil or Hazardous Materials Sites are not ranked due to their site-specific character. Individual sites are identified in Appendix B.					
Stormwater Drains/ Retention	Many	L	All	Debris, pet waste, and chemicals in stormwater from roads, parking lots, and lawns					
Transportation Corridors	Many	М	All	Fuels and other hazardous materials: accidental leaks or spills; pesticides: over-application or improper handling					
Underground Storage Tanks	5	Н	181 & 514	Stored materials: spills, leaks, or improper handling					

#### **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 A: 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 B: Tier Classified Oil and/or Hazardous Material Sites.

<sup>\*</sup> 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.

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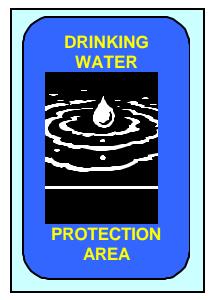
- discharge stormwater outside of the Zone II.
- ✓ Work with the Town and State to have catch basins inspected, maintained, and cleaned on a regular schedule. Street sweeping reduces the amount of potential contaminants in runoff.
- ✓ Work with local emergency response teams to ensure that any spills 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** –All of Mansfield's Zone IIs contain 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 <u>never</u> 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 best management practices for protecting water supplies. Distribute the fact sheet "Businesses Protect Drinking Water" available in Appendix C 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.

# Top 5 Reasons to Develop a Local Wellhead Protection Plan

- Reduces Risk to Human Health
- 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
- Supports municipal bylaws, making them less likely to be challenged
- Ensures clean drinking water supplies for future generations
- 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.



**5. Presence of Oil or Hazardous Material Contamination Sites** – The Zone IIs contain DEP Tier Classified Oil and/or Hazardous Material Release Sites indicated on the map as Release Tracking Numbers 4-0000792, 4-0000572, 4-0000255, 4-0015168, 4-0015211, 4-0013785, and 40012135. Refer to the attached map and Appendix B 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. Protection Planning Currently, the Town does have water supply protection controls that meet DEP's Wellhead Protection regulations 310 CMR 22.21(2). 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. A wellhead protection team or committee should be comprised of members representing the town, water supplier, business and citizens. There are resources available to help communities develop a plan for protecting drinking water supply wells.

(Continued on page 9)

**Table 3: Current Protection and Recommendations** 

<b>Protection Measures</b>	Status	Recommendations		
Zone I				
Does the Public Water Supplier (PWS) own or control the entire Zone I?	YES/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. (Albertini Well #2 is the only Zone I not controled by Mansfield Water Department)		
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?	YES	Continue monitoring ATV use and residential activities in Zone Is.		
Municipal Controls (Zoning Bylaws, He	ealth Regulat	ions, and General Bylaws)		
Does the municipality have Wellhead Protection Controls that meet 310 CMR 22.21(2)?	YES	Mansfield's local controls currently meet 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 Zone II areas extending into their communities?	NO	Continue to work with neighboring municipalities to include Zone IIs in their wellhead protection controls.		
Planning				
Does the PWS have a Wellhead Protection Plan?	YES	Implement and update the 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 citize groups (Canoe River Aquifer Advisory Committee), neighboring communities, and the business community.		
Does the Board of Health conduct inspections of commercial and industrial activities?		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?	YES	Aim additional efforts at commercial, industrial and municipal uses within the Zone II.		

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#### **Protection Planning Recommendations:**

- ✓ Establish a wellhead protection team to help implement the Wellhead Protection Plan for Mansfield Water Department. Update the plan periodically.
- ✓ Keep local controls current with MA Wellhead Protection Regulations 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 include auto repair shops, gas stations, sand and gravel mining and a target shooting range. Refer to Table 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:

- Passing local controls that meet the MA Wellhead Protection Regulations 310 CMR 22.21(2).
- Developing a Wellhead Protection Plan.
- Passing local regulations to control floordrains.
- Receiving grant money to hire a consultant to perform floordrain inspections.
- Developing a masterplan for the water system.
- New installation of SCADA system and alarms.

#### **Source Protection Recommendations:**

To better protect the sources for the future:

- ✓ Continue regular Zone I inspections, and when £asible, remove any non-water supply activities.
- ✓ Prevent ATV access within the Zone Is.
- ✓ 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.
- 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:

- 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

#### Conclusions:

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

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).

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

# APPENDIX A: REGULATED FACILITIES WITHIN THE WATER SUPPLY PROTECTION AREA DEP Permitted Facilities

DEP Facility Number	Facility Name	Street Address	Town	Permitted Activity	Activity Class	Facility Description	
34184	MANSFIELD BODY SHOP	1004 EAST ST	MANSFIEL D	HANDLR	VSQG	Very Small Quantity Generator of Haz Waste	
37594	MANSFIELD DEPT OF PUBLIC WORKS	500 EAST ST RTE 106	MANSFIELD	HANDLR	VSQG	Very Small Quantity Generator of Haz Waste	
39454	MANSFIELD LANDFILL	EAST ST/RTE 106	MANSFIELD	SLF	CLF	Closed Landfill	
131047	CONDEA VISTA CO	751 N MAIN ST	MANSFIELD	HANDLR	LQG	Large Quantity Generator of Haz Waste	
131048	ADM COCOA	150 OAKLAND ST	MANSFIELD	PLANT	BM1000	Air Quality Permit	
				TURRPT	LQTU	Large Quantity Toxics User	
				DISCH	BLW-IW	Below Industrial Waste Water Reg Levels	
				HANDLR	SQG	Small Quantity Generator of Haz Waste	
131052	STONE CONTAINER CORP	47 MAPLE ST	MANSFIELD	PLANT	BM1000	Air Quality Permit	
				HANDLR	VSQG	Very Small Quantity Generator of Haz Waste	
132755	RICHARDSON CHARLES A INC	330 OTIS ST	MANSFIELD	HANDLR	VSQG	Very Small Quantity Generator of Haz Waste	
134150	ELM ST GARAGE INC	549 ELM ST	MANSFIELD	HANDLR	VSQG	Very Small Quantity Generator of Haz Waste	
312789	SMURFIT STONE	60 MAPLE ST	MANSFIELD	DISCH	IWWSC	Industrial Waste Water to Sewer	
				HANDLR	VSQG	Very Small Quantity Generator of Haz Waste	

## APPENDIX A Continued: REGULATED FACILITIES WITHIN THE WATER SUPPLY PROTECTION AREA DEP Permitted Facilities

DEP Facility Number	Facility Name	Street Address	Town	Permitted Activity	Activity Class	Facility Description
	V W OF NORTH ATTLEBORO INC	563 KELLEY BLVD	NORTH ATTLEBOROU GH	HANDLR	VSQG	Very Small Quantity Generator of Haz Waste
	SPEEDEE OIL CHANGE & TUNE UP	543 KELLEY BLVD	NORTH ATTLEBOROU GH	HANDLR	VSQG	Very Small Quantity Generator of Haz Waste
	SPEEDEE OIL CHANGE & TUNEUP			DISCH	IWWSC	Industrial Waste Water to Sewer
54474	BORO SAND & STONE CO	192 PLAIN ST	NORTH ATTLEBOROU GH	PLANT	BM150	Air Quality Permit
	CUMBERLAND FARMS #2069	581-585 KELLEY BLVD	NORTH ATTLEBOROU GH	FULDSP	FULDSP	Fuel Dispenser
211218	SUNOCO #0362-5688	591 KELLEY BLVD	NORTH ATTLEBOROU GH	FULDSP	FULDSP	Fuel Dispenser

#### **Underground Storage Tanks**

Facility Name	Address	Town	Tank Material	Tank Type	Tank Leak Detection	Capacity (gal)	Contents
DPW Highway Garage	500 East Street	Mansfield	Reinforced	2 Walls	I	6000	Gasoline
			Reinforced	2 Walls	I	6000	
			Reinforced	2 Walls	I	2500	Diesel
Cumberland Farms #2069	581-585 Kelley Blvd.	North Attleboro	Reinforced	2 Walls	I	8000	Gasoline
			Reinforced	2 Walls	I	8000	Gasoline
			Reinforced	2 Walls	I	8000	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 B – 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 <a href="http://www.state.ma.us/dep/bwsc">http://www.state.ma.us/dep/bwsc</a>. You may obtain site -specific information two ways: by using the BWSC Searchable Sites database at <a href="http://www.state.ma.us/dep/bwsc/sitelist.htm">http://www.state.ma.us/dep/bwsc/sitelist.htm</a>, 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
4-0000792	COCASSET ST	FOXBOROUGH	Oil
4-0000572	OFF MORSE ST	FOXBOROUGH	Oil
4-0000255	131 MORSE ST	FOXBOROUGH	Oil and Hazardous Material
4-0015168	500 EAST ST	MANSFIELD	Hazardous Material
4-0015211	50 EAST ST	MANSFIELD	Oil
4-0013785	842 EAST ST	MANSFIELD	Oil
4-0012135	RTE 95 NORTH	MANSFIELD	Oil

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