

# Town of Millbury



## 2024 Yearly Operational Plan

Submitted by:  
Town of Millbury  
Department of Public Works

Prepared by:  
 Vegetation Control Service, Inc.

January 2, 2024

## SUMMARY

A yearly operational plan (YOP) must be submitted to the Massachusetts Department of Agricultural Resources (MDAR) every year herbicides are intended for use to maintain public ways (rights-of-way). The YOP provides a detailed program for vegetation management including the methods used to identify target vegetation and sensitive areas, planned treatment methods, herbicides and herbicides mixtures and rates for the year.

A five-year Vegetation Management Plan (VMP) is available for review at the Millbury Department of Public Works (DPW) office.

Upon receipt of this YOP, the MDAR publishes a notice in the Environmental Monitor. The town must also provide a copy of the proposed YOP and Environmental Monitor notice to the Board of Health, Conservation Commission, and Chief Elected Official. The Department allows a 45-day comment period on the proposed YOP beginning with the publication of the notice and receipt of the YOP and Environmental Monitor notice. A one-page notice is also sent to all public water suppliers.

Public notification of herbicide application is made at least 21 days prior to the treatment(s) by a separate notice. This Notice is made to the Department of Agricultural Resources, Chief Elected Official, Board of Health, the Conservation Commission and the Municipal Public Water Supplier (DPW).

A newspaper notice will also be made at least 48 hours in advance of the start of the treatment program.

Any comments on this YOP should be made to the person designated herein as the person supervising the YOP:

Keith Caruso,  
DPW Director  
Town of Millbury  
Department of Public Works  
127 Elm Street  
Millbury, MA 01527

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## 1. INTRODUCTION

In compliance with Commonwealth of Massachusetts' Rights-of-Way Vegetation Management Regulations (333 CMR 11.00) the Town of Millbury Department of Public Works Yearly Operational Plan (YOP) details our vegetation management program for 2024. This YOP is consistent with the terms and procedures set forth in Millbury's proposed *2023-2027 Five-year Vegetation Management Plan* (VMP); with the Massachusetts Pesticide Control Act (Chapter 132B); with all pertinent clauses in Chapter 85 of the Acts of 2000; and with all acts and regulations that apply to "public way" (right-of-way) vegetation management.

Vegetation growing along curbing, within and around paved traffic islands, in cracks in the asphalt, under guiderails along roadways and in areas that cannot be mowed is of a growing concern in Millbury. These areas, along with Poison Ivy, Japanese Knotweed and other public nuisance vegetation within the public ways, can be effectively controlled with the use of herbicide applications.

Herbicide applications will be done under the supervision of a certified applicator in compliance with 333 CMR 11.00 as detailed in the public way Integrated Vegetation Management (IVM) program and protocols described in Millbury's VMP.

An Integrated Vegetation Management program on public ways is a combination of cultural, physical, mechanical, and chemical management techniques that control undesirable vegetation in an ecologically sound manner. As with all IVM programs, this program is designed to maximize control of incompatible vegetation while minimizing potential impact to the environment.

## **2. INDIVIDUALS PERFORMING AND SUPERVISING THE HERBICIDE TREATMENT**

The Town of Millbury DPW will supervise the herbicide applications. Application crews will be supervised by/consist of an individual with a MDAR issued Category 40 pesticide license and any additional crew members will, at a minimum, hold MDAR issued applicator pesticide licenses.

### **Supervisor:**

Keith Caruso  
DPW Director  
Town of Millbury  
Department of Public Works  
127 Elm Street  
Millbury, MA 01527

### **Herbicide Applicators:**

Vegetation Control Service  
2342 Main Street  
Athol, MA 01331

## **3. LOCATION OF INTENDED HERBICIDE TREATMENT(S)**

For 2024, the treatment areas include, but are not limited to, cracks in asphalt, along guiderails, along curbing, within and around paved traffic islands, between sidewalks and the adjacent curbing, and wherever vegetation is causing a public hazard in the town's public ways (rights-of-way) as defined in the VMP.

Known sensitive areas are included in the map(s) of Millbury included in Appendix 1. Appendix 1 also includes a street listing to cover potential treatment locations for public nuisance and other vegetation posing a risk to public safety. Predicting the location of all target vegetation along public ways in advance of the active growing season is not possible or practical. In an effort to limit the application of herbicides to areas that require treatment, the town will, therefore, conduct patrols and treat those areas in which vegetation poses a public nuisance and/or poses a safety risk to pedestrian or vehicular safety.

## **4. IDENTIFICATION OF TARGET VEGETATION**

### ***Target Vegetation:***

*Vegetation that poses a public nuisance and/or poses a risk to pedestrian or vehicle safety.*

Achieving a long-term, limited maintenance vegetation management program requires the ability to identify incompatible plant species and to understand why they are targets. Incompatible vegetation along public ways poses a public nuisance and/or a safety risk to pedestrians or vehicles and interferes with the safe movement of goods and services.

## ***Vegetation Posing a Risk to Safety***

Vegetation that obstructs visibility or impedes movement along public ways poses a risk to public safety. M.G.L. Chapter 87, Section 5 authorizes tree wardens to control “all public shade trees, shrubs, and growths” along public ways. This includes woody plant species, grass and herbaceous species and public nuisance vegetation as listed below. For example, any vegetation such as grape vines or tree branches that might obscure street signs.

## ***Public Nuisance and Noxious Vegetation***

Public nuisance vegetation includes, but is not limited to plant species growing along public ways that pose a health, safety or environmental hazard. Noxious vegetation (weeds)<sup>1</sup>, which includes poisonous and invasive plants, pose a risk to safety and health because of heavy thorns, dense foliage and/or impenetrable stems; examples include, but are not limited to, Multi-flora Rose, Common and Glossy Buckthorn, Japanese Knotweed, Blackberries, Barberry and Autumn Olive. Although not the only poisonous target species of concern, Poison Ivy comprises the overwhelming majority of poisonous plant communities along public ways that require control.

## ***Nuisance Grass and Herbaceous Growth***

In most instances, grass is a desirable plant species. Along the shoulders of roads, grass growth is often encouraged and maintained through mechanical mowing. However, in some instances, grasses and other herbaceous plants are targets in areas where they cause a safety risk. These areas include, but are not limited to, cracks in asphalt, along guiderails, within paved traffic islands, medians, on and between sidewalks and the adjacent curbing. Herbaceous and other broadleaf vegetation can also impair the stability of grassy areas by outcompeting the desirable grass species.

## **5. DEFINITION, IDENTIFICATION AND TREATMENT OF SENSITIVE AREAS**

The general definition of sensitive areas regulated by 333 CMR 11.04 is as follows:

...any areas within Rights-of-Way, including No-Spray and Limited-Spray Areas, in which public health, environmental or agricultural concerns warrant special protection to further minimize risks of unreasonable adverse effects.

Protecting these sensitive sites is accomplished by following the definition in 333 CMR 11.04 and establishing the mandated no-spray and treatment restrictions within their borders according to Table 1 below. In brief, these sensitive areas consist of no-spray zones in which herbicide use is prohibited, and limited spray areas where herbicide use is permitted under certain conditions.

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<sup>1</sup> “NOXIOUS WEED. - The term “noxious weed” means any plant or plant product that can directly or indirectly injure or cause damage to crops (including nursery stock or plant products), livestock, poultry, or other interests of agriculture, irrigation, navigation, the natural resources of the United States, the public health, or the environment.” (PUBLIC LAW 106-224—JUNE 20, 2000, TITLE IV—PLANT PROTECTION ACT).

Treatment in limited spray areas require the use of herbicides from the *Sensitive Area Materials List* available at: [Massachusetts Rights of Way Sensitive Area Materials List](#) and following the application restrictions in 333 CMR 11.04 which includes applying minimum herbicide application rate for the control of target species.

**TABLE 1: CONTROL STRATEGIES FOR SENSITIVE AREAS**

Table Compiled by Jeffrey M. Taylor, Vegetation Control Service, Inc.

| Sensitive Area                                                                | Limited Spray or No-Spray Areas (feet)                                                                                           | Control Method                                       | Time Limits Between Treatment(s) |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------|
| Public Ground Water Supplies                                                  | 400'                                                                                                                             | Mechanical Only                                      | None                             |
| Primary Recharge Area                                                         | Designated buffer zone or ½-mile radius                                                                                          | Mechanical, Approved Herbicides*                     | 24 months                        |
| Public Surface Water Supplies (Class A & Class B)                             | 100'                                                                                                                             | Mechanical Only                                      | None                             |
|                                                                               | 100'-400'                                                                                                                        | Approved Herbicides                                  | 24 months                        |
| Tributary to Class A Water Source, within 400' upstream of water source       | 100'                                                                                                                             | Mechanical Only                                      | None                             |
|                                                                               | 100'-400'                                                                                                                        | Approved Herbicides                                  | 24 months                        |
| Tributary to Class A Water Source, greater than 400' upstream of water source | 10'                                                                                                                              | Mechanical Only                                      | None                             |
|                                                                               | 10'-200'                                                                                                                         | Approved Herbicides                                  | 24 months                        |
| Class B Drinking Water Intake, within 400' upstream of intake                 | 100'                                                                                                                             | Mechanical Only                                      | None                             |
|                                                                               | 100'-200'                                                                                                                        | Approved Herbicides                                  | 24 months                        |
| Private Drinking Water Supplies                                               | 50'                                                                                                                              | Mechanical Only                                      | None                             |
|                                                                               | 50'-100'                                                                                                                         | Approved Herbicides                                  | 24 months                        |
| Surface Waters                                                                | 10'                                                                                                                              | Mechanical Only                                      | None                             |
|                                                                               | 10'-100'                                                                                                                         | Approved Herbicides                                  | 12 months                        |
| Rivers                                                                        | 10' from mean annual high-water line                                                                                             | Mechanical Only                                      | None                             |
|                                                                               | 10'-200'                                                                                                                         | Approved Herbicides                                  | 12 months                        |
| Wetlands                                                                      | 10'                                                                                                                              | Mechanical Only                                      | None                             |
|                                                                               | 100' or with approved Wetlands Determination 10'-100' [per 310 CMR 10.05(3)(a) & 310 CMR 10.03(6)(b)]                            | Low-pressure Foliar, CST, Basal, Approved Herbicides | 24 months                        |
| Inhabited Areas                                                               | 100'                                                                                                                             | Approved Herbicides                                  | 12 months                        |
| Agricultural Area (Crops, Fruits, Pastures)                                   | 100'                                                                                                                             | Approved Herbicides                                  | 12 months                        |
| Certified Vernal Pools                                                        | 10'                                                                                                                              | Mechanical Only when water is present                | None                             |
| Certified Vernal Pool Habitat                                                 | 10'-outer boundary of habitat                                                                                                    | No treatment without approval                        |                                  |
| Priority Habitat                                                              | No treatment outside the 4-foot paved road exemption without approval of the Natural Heritage Endangered Species Program (NHESP) |                                                      |                                  |

\*Massachusetts Approved herbicides for sensitive sites

## ***Identification Methods***

As appropriate, sensitive areas will be identified and marked in the field by trained and experienced individuals.

Two simple descriptions guide the identification of the sensitive areas defined in 333 CMR 11.04: *Readily identifiable in the field* and *not readily identifiable in the field*. *Readily identifiable in the field* areas will be treated, identified and when appropriate, marked according to all applicable restrictions listed in 333 CMR 11.00. *Not readily identifiable in the field* areas will likewise be marked and treated when appropriate, but they are identified by the use of data marked on maps and collected in the YOP and notification processes before the time of treatment.

The individuals assigned the task of identifying and treating sensitive areas in the field will use the appropriate sources and methods from the following list:

- Town maps, records, and institutional knowledge
- Massachusetts Department of Environmental Protection water supply maps mapping layers available through MassGIS ([MassGIS \(Bureau of Geographic Information\)](#) )
- Water Department, MDAR and Millbury Board of Health maps and lists of identified private wells along the ROW
- Correspondence, meetings and input—from the chief elected official, board of health, conservation commission, public water suppliers and the public—within the forty-five day YOP and twenty-one day municipal right-of-way notification letter review and comment periods and the 48 hour newspaper notification (under 333 CMR 11.06 & 11.07 and Chapter 85 of the Acts of 2000)
- A point person who verifies, identifies and where appropriate marks sensitive areas
- and any additional areas that may require special precautions
- USGS topographical maps
- Information from Mass GIS
- When necessary, confidential information from NHESP
- A copy of the YOP and VMP.

Sensitive areas will be identified and marked in the field by trained and experienced individuals.

## **6. PROPOSED HERBICIDE TREATMENT METHODS**

In 2024 the herbicide program will consist of the following:

### ***Chemical (Herbicide Applications) Methods***

1. **Foliar Treatments:** the selective application of herbicides diluted in water, to the foliage of target vegetation. Two types of equipment for foliar treatments are used: backpack and vehicle mounted; both use low pressure at the nozzle per 333 CMR 11.02. Foliar



applications take place when leaves are fully developed in the spring until early fall and the beginning of leaf abscission—i.e., when leaves begin dropping.

- a. **Hand-held and back-pack sprayers:** hand pump or motorized backpack sprayers or squirt bottles. This technique is excellent for spot treatments, such as localized poison ivy infestations. It is not as effective as other methods on high density target vegetation.
  - b. **Vehicle mounted sprayers** use truck, tractor and/or ATV mounted equipment that deliver the herbicide solution through nozzles attached to a hose or boom-mounted apparatus. This technique is used along roadways that have good access and where obstructions, terrain or site sensitivity do not exclude the equipment.
2. **Pre-emergent Treatments:** the use of pre-emergent herbicides using the same equipment described in the foliar treatments above. Pre-emergent applications are used where season long vegetation control requires “vegetation-free conditions” such as along curbing, sidewalks, under guiderails/guardrails and on paved traffic islands. This method is used from early spring to early fall.
3. **Cut Stump Treatment (CST):** the mechanical cutting of target species followed by an herbicide treatment to the phloem and cambium tissue of the stumps. CST treatments prevent re-sprouts, thereby reducing the need to re-treat the same vegetation. The CST mixture is diluted in water, basal oil or a non-freezing agent and is ideally made to freshly cut stumps. Application equipment includes low-volume, backpack sprayers, handheld squirt bottles, paintbrushes, or sponge applicators. This method is used where maximum control is desirable; to reduce the visual impact of vegetation management treatments, and/or to reduce the potential of adverse impacts to desirable vegetation because of its selectivity. CST may be used at any time of the year provided snow depths do not prevent cutting the stumps below three inches in height. It is best to avoid during the season of high sap flow, or in moderate to heavy rains. It is not practical in moderate to heavy stem densities.
4. **Low Volume Basal Treatment:** the selective application of an herbicide, diluted in specially formulated oil, to wet the entire lower twelve to eighteen inches of the target plant stems. Using a hand pump backpack, the oil enables the herbicide solution to penetrate the bark tissue and translocate within the plant. Low volume basal treatments are extremely selective and used when vegetation density is low and in areas where extreme selectivity is necessary. For public way treatments it is primarily an option for invasive species control. It can be used any time of year except when snow is too deep, in extremely wet weather and/or during spring sap flow.

**Final Note: Anti-drift Adjuvants** are added to the mix or solution in foliage and pre-emergent applications to help reduce the potential exposure to non-target organisms, reduce the break-up of sprays into fine droplets and increase selectivity and herbicide deposition onto target plants.

## 7. PROPOSED HERBICIDES, CARRIERS, ADJUVANTS AND RATES

Millbury will only use the Commonwealth of Massachusetts recommended herbicides listed below from the *Sensitive Area Materials List*. Complete information on these products is included in Appendix 2, Fact Sheets and Appendix 3, Labels

**Table 2: Tank Mix #1 for Curbing, Cracks, Guiderail, Traffic Island Treatments (General Foliar Weed Control)**

| Herbicides & Adjuvants                                              | Active Ingredient | EPA Registration Number(s) | Mix Concentration (per 100 gals. water) |
|---------------------------------------------------------------------|-------------------|----------------------------|-----------------------------------------|
| Rodeo                                                               | Glyphosate        | 62719-324                  | 2-5%                                    |
| Esplanade 200SC                                                     | Indaziflam        | 432-1516                   | 10 oz.                                  |
| Induce, Clean Cut, or equivalent surfactant <sup>2</sup>            | not applicable    | n.a.                       | 0.125%-1%                               |
| Point Blank, 41A, Clasp, or equivalent drift retardant <sup>1</sup> | n.a.              | n.a.                       | 4-16 oz.                                |
| Carrier: Water                                                      | n.a.              | n.a.                       | n.a.                                    |

**Table 3: Tank Mix #2 for Poison Ivy, Noxious and Invasive Species and Post Emergent General Weed Control**

| Herbicides & Adjuvants                                       | Active Ingredient  | EPA Registration Number(s) | Mix Concentration (per 100 gals. water) |
|--------------------------------------------------------------|--------------------|----------------------------|-----------------------------------------|
| Rodeo                                                        | Glyphosate         | 62719-324                  | 2-5%                                    |
| Escort XP or Patriot                                         | Metsulfuron-Methyl | 432-1549 or 228-391        | 1.25-4 oz.                              |
| Garlon 4 Ultra (optional)                                    | Triclopyr          | 62719-527                  | 0.25-0.5%                               |
| Induce PH, MSO, or equivalent surfactant <sup>1</sup>        | not applicable     | n.a.                       | 0.125%-1%                               |
| Reign, 41A, Clasp or equivalent drift retardant <sup>1</sup> | n.a.               | n.a.                       | 4-16 oz.                                |
| Carrier: Water                                               | n.a.               | n.a.                       | n.a.                                    |

**Table 4: Tank Mix #3 for Poison Ivy**

| Herbicides & Adjuvants                                   | Active Ingredient | EPA Registration Number(s) | Mix Concentration (per 100 gals. water) |
|----------------------------------------------------------|-------------------|----------------------------|-----------------------------------------|
| Garlon 4 Ultra                                           | Triclopyr         | 62719-527                  | 2-4%                                    |
| Induce PH, MSO, or equivalent surfactant <sup>1</sup>    | n.a.              | n.a.                       | 0.125%-1%                               |
| Reign, Clasp, or equivalent drift retardant <sup>1</sup> | n.a.              | n.a.                       | 4-16 oz.                                |

<sup>2</sup> Equivalent surfactants, drift retardants and basal oils will be used in case those listed are no longer available or more effective alternatives become available.

**Table 5. Tank Mixes #4 for Low Volume Foliage Applications**

| Herbicides & Adjuvants                                   | Active Ingredient     | EPA Registration Number(s) | Mix Concentration (per 100 gals. water) |
|----------------------------------------------------------|-----------------------|----------------------------|-----------------------------------------|
| Rodeo                                                    | Glyphosate            | 62719-324                  | 3-5%                                    |
| Escort XP or Patriot                                     | Metsulfuron-Methyl    | 432-1549 or 228-391        | 2-4 oz.                                 |
| Krenite S                                                | Fosamine Ammonium     | 42750-247                  | 6-10%                                   |
| Polaris                                                  | Imazapyr <sup>3</sup> | 228-534                    | 0.125%-.5%                              |
| Induce PH, MSO, or equivalent surfactant <sup>1</sup>    | n.a.                  | n.a.                       | 0.125%-1%                               |
| Reign, Clasp, or equivalent drift retardant <sup>1</sup> | n.a.                  | n.a.                       | 6-64 oz.                                |

**Table 6. Tank Mix #5 for Cut Surface Treatment (CST) Applications**

| Herbicides & Adjuvants                     | Active Ingredient     | EPA Registration Number(s) | Mix Concentration (per 100 gals.) |
|--------------------------------------------|-----------------------|----------------------------|-----------------------------------|
| Rodeo                                      | Glyphosate            | 62719-324                  | 40% to 50%                        |
| Polaris                                    | Imazapyr <sup>2</sup> | 228-534                    | 3%-5% (mixed with Rodeo)          |
| Carriers: Water or Windshield Washer Fluid | n.a.                  | n.a.                       | n.a.                              |

**Table 7. Tank Mix #6 for Low-Volume Basal Applications or Cut Surface Treatment (CST) Applications**

| Herbicides & Adjuvants              | Active Ingredient     | EPA Registration Number(s) | Mix Concentration                |
|-------------------------------------|-----------------------|----------------------------|----------------------------------|
| Garlon 4 Ultra                      | Triclopyr             | 62719-527                  | 20%-30%                          |
| Polaris                             | Imazapyr <sup>2</sup> | 228-534                    | 2-5% (Mixed with Garlon 4 Ultra) |
| Carrier: Aqua Mix Oil or equivalent | n.a.                  | n.a.                       | 70%-80%                          |

## 8. HANDLING, MIXING AND LOADING HERBICIDE CONCENTRATES

All herbicides will be handled, mixed, and applied according to the directions in 333 CMR 11.00, which includes following *Label Instructions* and in compliance with all applicable federal and state laws and regulations. All herbicide mixing should be done at the DPW garage or contractor's facilities, and extreme care shall be exercised during all mixing, handling and loading in order to prevent careless spills or splashes. No herbicide concentrates will be mixed, handled or loaded on a ROW or within one hundred feet of a sensitive area.

Although it is expected that all the mixed herbicide will be used, any remaining will be stored in accordance with manufacturer's instructions.

<sup>3</sup>Imazapyr will not be applied on the same location in two consecutive years.

## 9. ALTERNATE CONTROL TECHNIQUES

Decisions on the appropriate control techniques are made following the IVM Protocol in the VMP which for convenience is repeated below:

**Monitoring:** All public ways will be surveyed prior to any scheduled treatment program. Monitoring will be conducted by foot or by vehicle. Monitoring of areas may also result from public requests.

**Maintenance:** Roads will be cleaned using a street sweeper. Cracking asphalt and sidewalks and other right-of-way defects will be repaired, and ditches cleaned. Where appropriate, the use of ground covers will be encouraged to assist in the prevention of undesirable target vegetation growth.

**Direct Control Methods:** The decision to use one or a combination of IVM techniques will take into consideration the cultural uses of the landscape. The direct IVM management tactics selected will control nuisance vegetation in an environmentally responsible and efficient manner:

### A. Mechanical Controls

1. Hand Cutting
2. Mowing
3. Selective Pruning

### B. Chemical Controls

1. Foliar Treatments
2. Pre-emergent Treatments
3. Cut Stump Treatments
4. Basal Treatments

**Record Keeping:** A log of surveyed areas will be kept for future planning and reference purposes. Areas maintained either through physical repair, mechanical or chemical control will be recorded by DPW for at least 3 years.

## 10. TREATMENT RECORDS

The Category 40 applicator must complete daily vegetation management reports that include:

- A. Date, name, and address of certified applicator(s)
- B. Identification of site or work area
- C. List of crew members
- D. Type of equipment and hours used
- E. Method of application and description of target vegetation
- F. Amount, concentration, product name of herbicide(s), adjuvants, and diluents (EPA registration numbers must be on file)
- G. Weather conditions
- H. Notation of any unusual conditions or incidents, including public inquiries
- I. Recording/Verification of sensitive areas.

## 11. REMEDIAL PLAN TO ADDRESS SPILLS AND RELATED ACCIDENTS

This section is offered as a general procedural guide for responding to chemical spills or related accidents (related accidents include but are not limited to fire, poisoning and vehicle accidents). The following is, therefore, a guide to the items that will be available to the applicator on site in the event of a chemical spill or emergency.

Although education and attention will constantly be directed at accident and spill prevention, in the event of a spill, immediate action will be taken to contain the spill and protect the spill area (Appendix 4: *Herbicide Spill Check List* shall be available on-site to the applicator). Until completely clean, the spill area will be protected by placing barriers, flagging or crew members at strategic locations, as appropriate. If a fire is involved, care will be taken to avoid breathing fumes from any burning chemicals.

Minor spills will be remedied by soaking up the spill with adsorption clay or other adsorptive material and placed in leak proof containers, removed from the site and disposed of properly. Dry herbicides, such as granular, will be swept up or shoveled up directly into leak proof containers for proper disposal. When applicable, all contaminated soil will be placed in leakproof containers, removed from the site, and disposed of properly. When applicable, activated charcoal will be incorporated into the soil at the spill location at a rate of several pounds per thousand square feet to inactivate any herbicide residue. Any spill will be reported to the MDAR Pesticide Bureau.

The Massachusetts Department of Environmental Protection will be contacted when there is a spill of a reportable quantity, regardless of major or minor spill status and in accordance with 310 CMR 40.0000, Massachusetts Contingency Plan.

### ***Types of Chemical Spills that Require Action***

Chemicals include, but are not limited to the following:

- Herbicides
- Bar and Chain Oil
- Motor and Hydraulic Oil/Fluids
- Diesel Fuel
- Gasoline
- Title 3 Hazmat Materials

### ***Required Spill Response Equipment***

As a minimum, the treatment crew will have available on the job site:

- YOP with Emergency Contact List
- SDS (Safety Data Sheet)
- Product Label
- Product Fact Sheets (when applicable)
- Appropriate Adsorbent Material
- Shovel
- Broom
- Flagging
- Leak Proof Container
- Heavy-duty Plastic Bags

### ***Personal Contact***

In the event of **Personal Contact** with hazardous chemicals:

- Wash affected area with plenty of soap and water
- Change clothing which has absorbed hazardous chemicals
- If necessary, contact a physician
- If necessary, contact the proper emergency services
- If necessary, follow the procedures for Major or Minor Spills as outlined in Appendix 5
- Avoid breathing the fumes of hazardous chemicals

### ***Reference Tables (information subject to change as necessary)***

**Table 8. Herbicide Manufacturers**

| MANUFACTURER                              | TELEPHONE<br>NUMBER | SPECIAL<br>INSTRUCTIONS |
|-------------------------------------------|---------------------|-------------------------|
| Albaugh Inc.                              | (800) 247-8013      |                         |
| BASF Corporation                          | (800) 832-4357      |                         |
| ENVU (former Bayer Environmental Science) | (800) 334-7577      |                         |
| Corteva Agriscience                       | (800) 992-5994      |                         |
| Nufarm                                    | (877) 325-1840      | Medical Emergencies     |

**Table 9. State Agencies**

| STATE AGENCY                                                                                      | TELEPHONE NUMBER                                    | SPECIAL INSTRUCTIONS                                                                                                                                  |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Massachusetts Pesticide Bureau                                                                    | (617) 626-1784                                      | A.S.A.P. (within 48 hours)                                                                                                                            |
| Massachusetts Department of Environmental Protection, Emergency Response Section                  | Main Office:<br>(888) 304-1133 (after hours number) | For emergencies involving reportable quantities of hazardous materials; required info: City/town, street address, site name (if applicable), material |
| MA Department of Public Health, Bureau of Environmental Health's Environmental Toxicology Program | (617) 339-8351                                      |                                                                                                                                                       |
| Massachusetts Poison Information Centers                                                          | (800) 682-9211                                      | For medical emergencies involving suspected or known pesticide poisoning symptoms                                                                     |

**Table 10. Emergency Services**

| EMERGENCY SERVICE                             | TELEPHONE NUMBER | SPECIAL INSTRUCTIONS                                                                    |
|-----------------------------------------------|------------------|-----------------------------------------------------------------------------------------|
| Millbury Fire/ Police Department              | 911              |                                                                                         |
| Massachusetts State Police, Millbury Barracks | (508) 929-3232   |                                                                                         |
| ChemTrec                                      | (800) 262-8200   |                                                                                         |
| Clean Harbors                                 | (800) 645-8265   |                                                                                         |
| Pesticide Hotline                             | (800) 858-7378   | PST: 8:00 am-12:00 pm,<br>web: <a href="http://www.NPIC.orst.edu">www.NPIC.orst.edu</a> |

**Table 11. Town of Millbury contacts in case of a spill or accident:**

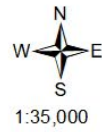
**Keith Caruso**  
*DPW Director*  
 Town of Millbury  
 Department of Public Works  
 127 Elm Street  
 Millbury, MA 01527  
 (508) 865-9143

|                             |                |
|-----------------------------|----------------|
| Millbury Fire/ Police Dept. | 911            |
| Millbury Board of Health    | (508) 865-4721 |

APPENDIX 1:  
MAP AND STREET LISTINGS



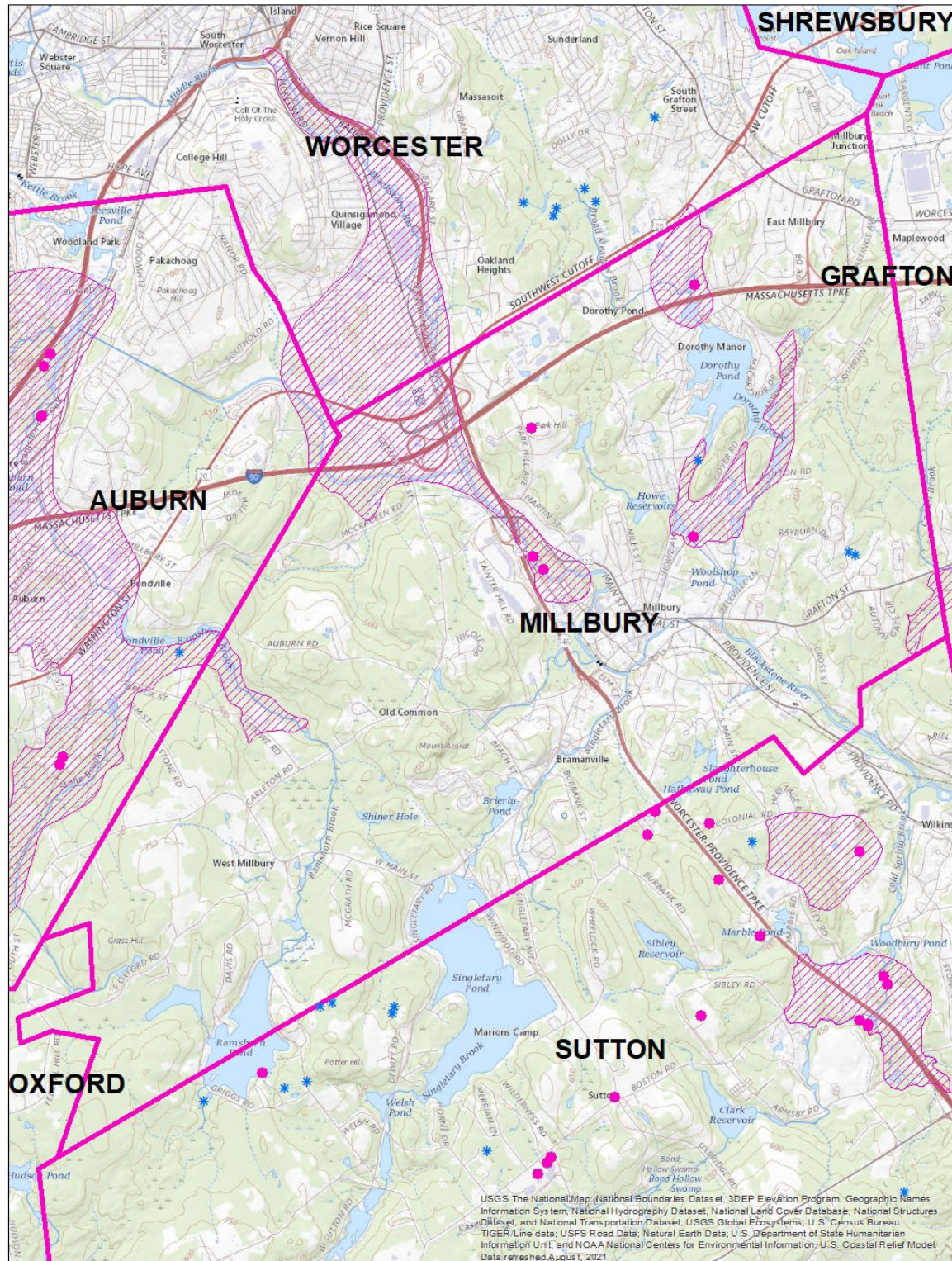
# Town of Millbury 2024 Yearly Operational Plan



## Legend

- Public Wells
- ★ NHESP Certified Vernal Pools
- Zone II
- Zone A

0 0.5 1 2 Miles



| <b><u>STREET NAME</u></b> | <b><u>STREET NAME</u></b> | <b><u>STREET NAME</u></b> |
|---------------------------|---------------------------|---------------------------|
| ABBOTT PLACE              | CANAL STREET              | ELM COURT                 |
| ACKERMAN ROAD             | CAPT. PETER SIMPSON RD.   | ELM STREET                |
| ACWORTH STREET            | CARLETON ROAD             | ELMWOOD AVE               |
| AIRPORT ROAD              | CARLSTROM LANE            | ELMWOOD STREET            |
| ALDRICH STREET            | CAROUSEL DRIVE            | ELMWOOD TERRACE           |
| ALPINE STREET             | CEDAR AVENUE              | EPPING STREET             |
| ALSTEAD PATH              | CHERRY STREET             | FARNSWORTH COURT          |
| AMARYLLIS DRIVE           | CHERYL LANE               | FEDERAL HILL ROAD         |
| APPLE TREE DRIVE          | CHESTNUT STREET           | FINK ROAD                 |
| ASHTON LANE               | CHUNIS AVENUE             | FJELLMAN ROAD             |
| ATWOOD AVENUE             | CHURCH STREET             | FONTAINE STREET           |
| AUBURN ROAD               | COLDBROOK ROAD            | FORD ROAD                 |
| AUGUSTA DRIVE             | COLONIAL DRIVE            | FORREST DRIVE             |
| AUTUMN GATE CIRCLE        | COLTON ROAD               | GATES LANE                |
| AZALEA CIRCLE             | CONCORD ROAD              | GILBERT WAY               |
| BACKSTRAD ROAD            | CORAL STREET              | GLENN AVENUE              |
| BARBARA STREET            | CRAIG WAY                 | GLOVER ROAD               |
| BAYBERRY LANE             | CRISTO LANE               | GOFF STREET               |
| BEACH STREET              | CRONIN BROOK WAY          | GOULD STREET              |
| BELLA ROSA DRIVE          | CROSS STREET              | GOVER ROAD                |
| BELLVILLE LANE            | CROYDEN STREET            | GRAFTON ROAD              |
| BENGTSON LANE             | CURVE STREET              | GRAFTON STREET            |
| BENTON STREET             | CUSHING TERRACE           | GRANITE STREET            |
| BILL GRAHAM LANE          | CYNDY LANE                | GREENWOOD STREET          |
| BIRCH STREET              | DANIELLE DRIVE            | GROVE STREET              |
| BIRCHWOOD DRIVE           | DAVIS ROAD                | HAMILTON STREET           |
| BLANCHARD DRIVE           | DEWEY AVENUE              | HARRIS AVENUE             |
| BORDER AVENUE             | DIANA HILL DRIVE          | HARRIS GROVE              |
| BRANEY ROAD               | DIANE AVENUE              | HARRIS POINT              |
| BRENDA DRIVE              | DOLAN ROAD                | HASTINGS AVENUE           |
| BRIAN CIRCLE              | DOROTHY LANDING           | HAWTHORNE STREET          |
| BRIERLY CIRCLE            | DOROTHY LANE              | HAYWARD GLEN DRIVE        |
| BRIGHTSIDE AVENUE         | DOROTHY ROAD              | HAYWARD LANE              |
| BROADMEADOW AVE           | DRAPER ROAD               | HEATHER AVENUE            |
| BUD ROW AVENUE            | DURHAM ROAD               | HEMLOCK DRIVE             |
| BUDREAU AVENUE            | DWINELL ROAD              | HENRY STREET              |
| BURBANK STREET            | ELIZABETH DRIVE           | HERRICKS LANE             |
| CANAL COURT               | ELLENWOOD ROAD            | HIDDEN MEADOW DR          |

| <b><u>STREET NAME</u></b> | <b><u>STREET NAME</u></b>            | <b><u>STREET NAME</u></b> |
|---------------------------|--------------------------------------|---------------------------|
| HIGH STREET               | LISA DRIVE                           | OAKES STREET              |
| HIGHLAND AVENUE           | LJ FARON CIRCLE                      | OAKVIEW DRIVE             |
| HIGHLAND STREET           | LOUIS BALLARD LANE                   | OLD COMMON                |
| HILLTOP DRIVE             | LT WILLIAM S. HAYNES<br>III MEM. DR. | ORCHARD STREET            |
| HOLLYWOOD AVENUE          | LUIKEY WAY                           | OVERLOOK AVENUE           |
| HOLMAN ROAD               | MACARTHUR DRIVE                      | PARK HILL AVENUE          |
| HORNE WAY                 | MAIN STREET                          | PARK STREET               |
| HORSESHOE LANE            | MANOR ROAD                           | PEACH TREE DRIVE          |
| HOWE AVENUE               | MAPLE LANE                           | PEARL STREET              |
| HOWE LANE                 | MAPLE STREET                         | PEGGY DRIVE               |
| IRENE COURT               | MAPLEWOOD ROAD                       | PHEASANT HILL DRIVE       |
| JACKIE DRIVE              | MARGARET AVENUE                      | PHILLIPS DRIVE            |
| JACKSON LANE              | MARION AVENUE                        | PINE & OAK DRIVE          |
| JACLYN RAE DRIVE          | MARTIN STREET                        | PINEHURST CIRCLE          |
| JACQUES PARKWAY           | MASON ROAD                           | PINELAND AVENUE           |
| JESSICA J. DRIVE          | MATSON LANE                          | PINERIDGE ROAD            |
| JOHN F. KENNEDY DR.       | MATTHEW CIRCLE                       | POND TERRACE              |
| JOHN STREET               | MAY STREET                           | PRESIDENT ROAD            |
| JOHNSON STREET            | MAYFAIR DRIVE                        | PRIMROSE LANE             |
| JONATHAN AVENUE           | MAYFAIR LANE                         | PROSPECT STREET           |
| JUNIPER DRIVE             | MCCRACKEN ROAD                       | PROVIDENCE STREET         |
| KATHERINE STREET          | MCGRATH ROAD                         | RAILROAD AVENUE           |
| KEITH DAVID DRIVE         | MEETINGHOUSE LANE                    | RAILROAD COURT            |
| KENWAR DRIVE              | MEMORIAL DRIVE                       | RAMSHORN ROAD             |
| KNOLLWOOD CIRCLE          | MIDDLETON STREET                     | RAYBURN DRIVE             |
| LAKE STREET               | MILDRED AVENUE                       | RAYMOND STREET            |
| LAKEVIEW ROAD             | MILES STREET                         | RHODES STREET             |
| LAKESWOOD AVENUE          | MILL STREET                          | RICE ROAD                 |
| LAURA LANE                | MILLBURY AVENUE                      | RIDGEWOOD DRIVE           |
| LAUREL DRIVE              | MILLBURY TERRACE                     | RINDGE STREET             |
| LEBLANC ROAD              | MILLERS DRIVE                        | RIVER STREET              |
| LEONE AVENUE              | MITCHELL ROAD                        | RIVERLIN PARKWAY          |
| LESLIE LANE               | MOMIN DRIVE                          | RIVERLIN STREET           |
| LEXINGTON ROAD            | MONTGOMERY DRIVE                     | ROE LANE                  |
| LINCOLN AVENUE            | NICOLE DRIVE                         | ROGERS STREET             |
| LINCOLN AVENUE EXT        | OAK POND AVENUE                      | ROLLIE SHEPARD DR         |
| LINDA AVENUE              | OAK STREET                           | SALO TERRACE              |
| LINDY STREET              | OAKES CIRCLE                         | SCHOOL STREET             |



| <b><u>STREET NAME</u></b> | <b><u>STREET NAME</u></b> | <b><u>STREET NAME</u></b> |
|---------------------------|---------------------------|---------------------------|
| SCOTT STREET              | TAFT CIRCLE               | WEDGEWOOD LANE            |
| SHIRLEY AVENUE            | TAINTER HILL ROAD         | WELDON DRIVE              |
| SHORE TERRACE             | THOMAS HILL ROAD          | WEST MAIN STREET          |
| SILVER FOX DRIVE          | TIFFANY CIRCLE            | WEST STREET               |
| SINGLETARY ROAD           | TODD LANE                 | WESTBORO STREET           |
| SOUTH MAIN STREET         | TORREY LANE               | WESTVIEW AVENUE           |
| SOUTH OXFORD ROAD         | TURNING LEAF LANE         | WHEELOCK AVENUE           |
| SOUTHWEST CUTOFF          | UPTON STREET              | WILDWOOD ROAD             |
| STONE ROAD                | VICTORIA TERRACE          | WILLIAM STREET            |
| STOWE ROAD                | VILLAGE GREEN             | WILSON ROAD               |
| SULLIVAN PLACE            | WALES STREET              | WINGFOOT LANE             |
| SUMMER STREET             | WALLING AVENUE            | WITTER LANE               |
| SUNSET DRIVE              | WARD AVENUE               | WOODLAND STREET           |
| SUTTON ROAD               | WARREN STREET             | WOODRIDGE LANE            |
| SUTTON STREET             | WASHINGTON STREET         | WOODROW ROAD              |
| SYCAMORE CIRCLE           | WATERS COURT              | WORCESTER PROVIDENCE TPKE |
| SYCAMORE STREET           | WATERS STREET             |                           |

APPENDIX 2:  
HERBICIDE FACT SHEETS  
LOCATED AT:

RIGHTS OF WAY SENSITIVE AREA MATERIALS LIST

APPENDIX 3:  
HERBICIDE LABELS

ESCORT XP:  
[ESCORT XP \(CDMS.NET\)](#)

ESPLANADE 200SC:  
[ESPLANADE 200SC \(CDMS.NET\)](#)

GARLON 4 ULTRA:  
[GARLON 4 ULTRA \(CDMS.NET\)](#)

KRENITE S:  
[KRENITE S \(CDMS.NET\)](#)

PATRIOT:  
[PATRIOT \(CDMS.NET\)](#)

POLARIS:  
[POLARIS \(CDMS.NET\)](#)

RODEO:  
[RODEO \(CDMS.NET\)](#)

APPENDIX 4:  
HERBICIDE SPILL CHECK LIST

## APPENDIX 4:

### HERBICIDE SPILL CHECK LIST

**REPORTABLE SPILLS (Spills of reportable quantity of material): FOLLOW STEPS 1-11**

**NON-REPORTABLE SPILLS: FOLLOW STEPS 1-4, 7-11 as appropriate & contact the Millbury DPW representative.**

| Order | ACTION                                                                                                                                                                                                      | Done<br>(√) |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 1     | Use any and all PPE as directed by product label or SDS                                                                                                                                                     |             |
| 2     | Cordon-off spill area to unauthorized people and traffic to reduce the spread and exposure of the spill                                                                                                     |             |
| 3     | Identify source of spill and apply corrective action, if possible, stop or limit any additional amounts of spilled product.                                                                                 |             |
| 4     | Contain spill and confine the spread by damming or diking with soil, clay or other absorbent materials.                                                                                                     |             |
| 5     | Report spills of "reportable quantity" to the Mass. DEP and MDAR:                                                                                                                                           |             |
|       | Massachusetts MDAR, Pesticide Bureau (617) 626-1700                                                                                                                                                         |             |
|       | Massachusetts Department of Environmental Protection, Emergency Response Section                                                                                                                            |             |
|       | Main Office: (888) 304-1133 (after hours number)                                                                                                                                                            |             |
|       | Central Region: (508) 792-7650                                                                                                                                                                              |             |
| 6     | If the spill cannot be contained or cleaned-up properly, or if there is a threat of contamination to any bodies of water, immediately contact any of the following applicable emergency response personnel: |             |
|       | local fire, police, rescue 911                                                                                                                                                                              |             |
|       | Millbury DPW Representative: (508) 865-9143<br><b>Keith Caruso</b>                                                                                                                                          |             |
|       | Product manufacturer(s)                                                                                                                                                                                     |             |
|       | 1 1                                                                                                                                                                                                         |             |
|       | 2                                                                                                                                                                                                           |             |
|       | 3                                                                                                                                                                                                           |             |
|       | Product manufacturer(s)                                                                                                                                                                                     |             |
|       | 1 2                                                                                                                                                                                                         |             |
|       | 2 3                                                                                                                                                                                                         |             |
|       | 3 (800) 424-9300                                                                                                                                                                                            |             |
|       | Chemtrec                                                                                                                                                                                                    |             |
|       | additional emergency personnel:                                                                                                                                                                             |             |
|       | Remain at the scene to provide information and assistance to responding emergency clean-up crews                                                                                                            |             |
| 7     | Refer to the various sources of information relative to handling and cleanup of spilled product                                                                                                             |             |
| 8     | If possible, complete the process of "soaking up" with appropriate absorbent materials                                                                                                                      |             |
| 9     | Sweep or shovel contaminated products and soil into leak proof containers for proper disposal at approved location                                                                                          |             |
| 10    | Spread activated charcoal over spill area to inactivate any residual herbicide                                                                                                                              |             |
| 11    |                                                                                                                                                                                                             |             |